

HP Forum Archive 09

Welcome!

This is an archive of older posts from the HP forum.

Message Index

All Messages

(Compressed "Threads Only" Listing)

- [using Tapes with the 9825B](#), Richard Freeman **3 responses**
- [Another eBay price record?](#), Randy Sloyer(US) **2 responses**
- [fixes for HP-45 and HP-55 simulators](#), Peter Monta **0 responses**
- [HP 19C](#), stefan granat **2 responses**
- [prices & gossip](#), db(martinez,california) **3 responses**
- [42s batteries](#), Bob **4 responses**
- [Ebay feedback question](#), Don Davis **9 responses**
- [HP-17BII and 19BII Applications](#), Gordon Dyer **0 responses**
- [Petroleum Fluids Pac unt conversion](#), David Erdman **7 responses**
- [HP-21 CHARGER](#), jia **6 responses**
- [HP-42S Versions, ROMs and Bugs](#), Gordon Dyer **6 responses**
- [48/49 Programing Question](#), Stan (Sg) **4 responses**
- [pi sin\(\) on HP-32S?](#), K. Crowe **4 responses**
- [possible to damage thermal module?](#), Richard C. **3 responses**
- [41CX on without display...](#), Michel Beaulieu **1 response**
- [HP-41 internal upgrade. ????](#), Daniel Sancho **4 responses**
- [News from HP???](#), R Lion **5 responses**
- [How do I open HP-32S II Case??](#), Bill Hemphill **2 responses**
- [run away! run away!](#), Christof **0 responses**
- [sending files emu48](#), lokhin **6 responses**
- [HP 32SII with the colors of purple and green](#), Ashley **4 responses**

- [virtual HP-41 r7](#), Michel Beaulieu **0 responses**
- [Good news from HP ?](#), pyerre **1 response**
- [HP-34C display problems](#), Don Davis **4 responses**
- [Here's the Free HP Stuff List!](#), Dave Hicks **0 responses**
- [HP 32S Manual.](#), K. Crowe **3 responses**
- [Calendar printing programs](#), Michel Beaulieu **0 responses**
- [hp-41C memory modules](#), Drew Goodall **4 responses**
- [Two interesting PPC TN articles](#), Ex-PPC member **4 responses**
- [More shady e-bay behavior](#), Dave Mabry **8 responses**
- [HP 15C](#), Keith Ball **4 responses**
- [Timer-Problems with virtual 41CX \(Stopwatch\)](#), Simon Strach **1 response**
- [August 1979 PPC Calculator Journal](#), Jeff **5 responses**
- [HP25 scary moments](#), Vieira, Luiz C. (Brazil) **7 responses**
- [HP-19BII manual](#), Tony Thimet **1 response**
- [I always knew TI's were backwards....](#), Michael Meyer **14 responses**
- [Connecting HP-48 to HP-IL](#), User48 **1 response**
- [Quality of new HP48GX?](#), Håkan Thörngren **2 responses**
- [Pile of 48GX found](#), GE (France) **4 responses**
- [HP41C does not turn on](#), Jonathan Lenton **3 responses**
- [Dead HP33E](#), Alessandro **1 response**
- [HP41 - PC Gateway & Emulator](#), Christoph Klug **4 responses**
- [Value of the HP-21S](#), Joerg Woerner **11 responses**
- [HP 41 printer problem](#), Frederic **1 response**
- [Re: 82143a printer](#), Vieira, Luiz C. (Brazil) **12 responses**
- [Brazilian News about HP/Compaq Merge](#), Vieira, Luiz C. (Brazil) **0 responses**
- [Re: I'll try this...](#), Stephan (Germany) **6 responses**
- [RPN and TI](#), Michel Beaulieu **0 responses**
- [Library transfer PC to HP48/49](#), Jeffry_G **3 responses**
- [HP LED Demo Unit?](#), Larry Corrado **2 responses**
- [Rebuilding Posts in the HP41 - Photos](#), Vieira, Luiz C. (Brazil) **1 response**
- [Annoying low bat message on the 200LX](#), GE (France) **2 responses**
- [Interesting eBay seller](#), Mike **3 responses**
- [15C # notation](#), Joyce **4 responses**
- [TRAN41 and hp41 files](#), andy **1 response**
- [Applied Stats 2 Solution Book](#), David **0 responses**
- [Has anyone successfully connected an HP-41 to a PC?](#), Steve **5 responses**
- [HP-91 electronical problems](#), Uwe Hoch **0 responses**
- [HP-16C](#), Ernie Malaga **6 responses**

- [Re: new HP12C CPU...](#), Bill Wiese **0 responses**
- [HP67 problem](#), Chris Migdal **2 responses**
- [Need help connecting a 41CX to a PC](#), Steve **2 responses**
- [new HP12C CPU...](#), Bill Wiese **12 responses**
- [No HP 12c at Business Depot](#), Paul Guertin **1 response**
- [HP 67 also an early "Game Boy"](#), Masao Kinoshita **2 responses**
- [Removing hard glue from HP-28S?](#), Holger Weihe **6 responses**
- [Predictions for 2003](#), Paul Brogger **1 response**
- [HP71 -> PC](#), Jörg **0 responses**
- [HP11C Bedienungs- und Programmierhandbuch - a curiosity](#), Vieira, Luiz C. (Brazil) **11 responses**
- [Rebuilding HP41C and 82143A posts, OOPS and other \(good\) stuff](#), Vieira, Luiz C. (Brazil) **7 responses**
- [Learning RPN.](#), K. Crowe **8 responses**
- [HP-33E POWER SUPPLY BOARD](#), jia **1 response**
- [replacing NiCd packs with std batteries](#), Bernhard Haussler **2 responses**
- [Swap Disc Review](#), Andy **0 responses**
- [hp75 FORTH](#), Andy **0 responses**
- [Willing to pay a lot for shipping from ebay?](#), gene **3 responses**
- [HP-41 Synthetic Programming Question](#), Jeff Davis **4 responses**
- [Install of metakernel](#), Megumi Hayashibara (Japan) **1 response**
- [49g linsolve](#), karl **0 responses**
- [hp200lx](#), M Neu **1 response**
- [IR Transfer 95LX to 200LX?](#), Bill **1 response**
- [Do you want an X-pander?](#), Marx Pio **2 responses**
- [Year; \[Enter\]; Happy; New!](#), Paul Brogger **4 responses**
- [random dots generator. . .](#), Tal **0 responses**
- [ebay as tax conduit](#), Bill **17 responses**
- [Upgrading HP 11C](#), Ben Palmer **2 responses**
- [Need some help with trading](#), Vieira, Luiz C. (Brazil) **0 responses**
- [looks like the Museum pic of 12c on ebay](#), gene **2 responses**
- [What is wrong with the 28C/S?](#), Stan (Sg) **12 responses**
- [Becareful of seller](#), anonymous **1 response**
- [\(New\) Additions to Some Interesting Later Models \(1986\)](#), Glen Kilpatrick **0 responses**
- [HP-41C serial number](#), Guillermo Castarés **9 responses**
- [41 emulator](#), Jim Kimes **4 responses**
- [HP 42S Owners Manual](#), Stan (Sg) **3 responses**
- [HP 25C repair advice](#), Alex **9 responses**
- [Paper not feeding properly](#), Bob Belgam **1 response**

- [HP45](#), Stanley E. Payne III **0 responses**
- [interesting ebay auction](#), db(martinez,california) **1 response**
- [what's up with my hp deskjet 690c printer?!](#), kee **1 response**
- [9121 Disk Drive Problem](#), Mike **2 responses**
- [Do you remember HP Omnigo?](#), J.Manrique **0 responses**
- [Global Thanks & Alg/RPN/RPL Summation](#), Glen Kilpatrick **3 responses**
- [Is the 30S an HP design?](#), Stan (Sg) **1 response**
- [a large HP 9830A system](#), RCS/RI **0 responses**
- [Has the HP-49G been discontinued?](#), Harry (Germany) **14 responses**
- [Discount on HP Calcs web site](#), Stan (Sg) **0 responses**
- [Hp-21 problems after battery leak.](#), Harry (Germany) **6 responses**
- [33E repair](#), Bart Wuest **6 responses**
- [Someone should be the first one, so... Merry X-mas!](#), Vieira, Luiz C. (Brazil) **12 responses**
- [Hey Dave Hicks, if you want the . . .](#), barry **2 responses**
- [has anyone had an ad deleted by someone else?](#), barry **6 responses**
- [Reuse HP97/67 Magnetic Cards](#), Martin Baumgartner **8 responses**
- [Interest on collecting Calculators](#), Guillermo Castarés **9 responses**
- [If you are well versed at programming the 41 and a pocket PC this is for you](#), Dave **2 responses**
- [Pioneer with no serial number](#), Randy Sloyer(US) **1 response**
- [HP-71B programs?](#), Todd Kessel **4 responses**
- [HP-16C versus SR-22](#), Joerg Woerner **6 responses**
- [HP 41 CV not responding](#), Daniel CLEMENT **1 response**
- [75C and 41C!](#), Michel Beaulieu **4 responses**
- [use, prices, other-brand rpn](#), db(martinez,california) **1 response**
- [75C Beep Problem Revisited - Audio this time](#), Mike **0 responses**
- [hp-11c - display problems](#), Surfgy **3 responses**
- [HP-16C switch-on problem.](#), Graeme Hardie **2 responses**
- [Ballistics programs for HP41C or 42S?](#), Bill Wiese **2 responses**
- [Spice construction techniques](#), Don Davis **1 response**
- [Why do people paid high price for the 32SII](#), Chan Tran **10 responses**
- [Changing Interest](#), Gordon Dyer **4 responses**
- [HP41C Modules Locations ?](#), Pyerre **4 responses**
- [Networking](#), Kurt Darling **2 responses**
- [Any update on the HP-41C "ram module" project?](#), Gene **1 response**
- [Wow. Only \\$279 buy-it-now on ebay.](#), gene **3 responses**
- [Abacus calculators - Dave: A new link?](#), Tom (UK) **1 response**
- [HP41-PC Gateway & Emulator](#), Christoph Klug **3 responses**
- [replace hp48\(gx\) LCD](#), Isaac Daniel **2 responses**

- [Re: HP-48 series](#), Vieira, Luiz C. (Brazil) **5 responses**
- [Not RPN or HP, but interesting.](#), Don Davis **6 responses**
- [Bug in 21, 25 - y raised to the x](#), Don Davis **5 responses**
- [Batteries for HP 15C calculator](#), Bent **7 responses**
- [hp41 howto do simple linear regression?](#), David E **10 responses**
- [11C - Creative Advertizing on eBay](#), Joe **8 responses**
- [My HP 48gX drains batteries !](#), mapet **8 responses**
- [HP40G ROM](#), Axel **2 responses**
- [HP 49G Symbols stay on](#), Farshid Namiranian **3 responses**
- [Emu41, a complete HP-IL system emulator](#), J-F Garnier (France) **5 responses**
- [how to see what programs on a ROM \(stat pac\)](#), David E **4 responses**
- [HP41 Auto off in 10 secs](#), Mark Perlick **6 responses**
- [32SII: Flag11](#), R Lion **4 responses**
- [Off-Topic: Photo](#), Mike **6 responses**
- [Saturn Specs](#), Vieira, Luiz C. (Brazil) **11 responses**
- [Death of RPN](#), Tom (UK) **5 responses**
- [The New HP 85](#), Vassilis Prevelakis **0 responses**
- [The Other Models of MoHPC](#), R Lion **0 responses**
- [Have they no shame... or, why did they kill the 42S?](#), Randy Sloyer(US) **6 responses**
- [32Sii Games](#), Ben Salinas **0 responses**
- ["19bii Palm Emulator"](#), dennis raphael **0 responses**
- [Corvallis MicroTechnology MC-II, MCII-POD, MCII-41M & POD-TRAN](#), Emmanuel, Normandy (France) **0 responses**
- [HP-41c memory register](#), Michel Beaulieu **4 responses**
- [Has HP stopped making HP-49G?](#), Bill Hemphill **22 responses**
- [HP-75 Beeper Question](#), Mike **3 responses**
- [HP future RPN?](#), Tony David Potter **7 responses**
- [Re: HP-41 bat holder](#), David Smith **1 response**
- [telnet in ksh script](#), david **2 responses**
- [Help looking for...](#), R Lion **1 response**
- [Electroluminescent Backlighting for Calculator Displays](#), Paul Brogger **3 responses**
- [looking for BERND BERNSTEINER from AUSTRIA!!!](#), Erwin **0 responses**
- [PS...](#), Sean McNamee **1 response**
- [15c CPU](#), Sean McNamee **8 responses**
- [Re: HP-41 bat holder](#), db(martinez,california) **2 responses**
- [In a parallel universe -- far, far away . . .](#), Paul Brogger **2 responses**
- [HP33C - press #7 but get #4](#), Jeffrey A. Walter **11 responses**
- [Hp 12 c](#), Steve Lawson **4 responses**
- [hp 01 calculator watch](#), walter **1 response**

- [Maintenace questions: Spice \(HP31E\)](#), Vieira, Luiz C. (Brazil) **1 response**
- [HP-35 Documentation](#), Fred Lusk (CA) **34 responses**
- [Can a Voyager series Keypad Plate be removed?](#), Steve **1 response**
- [HP-9G architecture comments \(to Joerg W's prior post\)](#), Bill Wiese **2 responses**
- [Using the speaker for output](#), Andy **1 response**
- [Re: HP-75 Beep Question](#), andy **0 responses**
- [NutEm page updated, list of HP-41 ROM added](#), Mike (Stgt) **0 responses**
- [HP-28C](#), Luc **2 responses**
- [Calculators Exhibition - Suggestions needed](#), Pyerre **0 responses**
- [HP 34C](#), Art **3 responses**
- [Anybody have Cover of May 1975 Automation Magazine](#), Bill Hemphill **0 responses**
- [A new HP calculator group?!?](#), Johnny Bjoern Rasmussen **24 responses**
- [Source for paper for HP-19C printer?](#), Don Davis **2 responses**
- [Learning RPN - joke](#), Renato **3 responses**
- [Can a scratch in a keypad plate be fixed?](#), Steve **9 responses**
- [HP-41CV \(+\) asnd \(-\) side](#), Gina D **3 responses**
- [what options do a UK customer have?](#), barry **4 responses**
- [HP 41 magnet card reader- mechanical problems-](#), Martin Wahlich [GER] **5 responses**
- [Thermal Printer 82143 -Problems to operate the printer-](#), Martin Wahlich **4 responses**
- [Part Numbering at HP, Grapevine and EduCALC](#), Chris Catotti (Florida) **1 response**
- [My own page](#), Emmanuel, Normandy (France) **6 responses**
- [xhpcalc - another HP calculator discontinued...](#), Britt Snodgrass **6 responses**
- [Should I open NIB HP-42S??](#), Bill Hemphill **23 responses**
- [Inside the HP 9G](#), Joerg Woerner **7 responses**
- [4 fonctions calc](#), Michel Beaulieu **6 responses**
- [15C emulator interest?](#), Math Geek **5 responses**
- [HP 41 C connect to a PC](#), Gunnar **4 responses**
- [HP-85 --- 82972A Upgrade ?](#), Mike **2 responses**
- [HP 35/45 competing with main frame computer](#), Jan (Switzerland) **2 responses**
- [Thanks! 9114A working!!](#), Daniel **2 responses**
- [Voyager Cosmetics](#), Steve **0 responses**
- [Praise for the HP-34C](#), Don Davis **9 responses**
- [TIPS : HP-11C](#), Michel Beaulieu **3 responses**
- [1.2V NiCd for HP-41?](#), Jürgen Keller **5 responses**
- [HP-10Bii's for sale cheap](#), Dan M **5 responses**
- [HP-71B System ROM Revision History](#), Philip **5 responses**
- [HP1000CX Usr Mnl](#), Mike (Stgt) **2 responses**
- [My HP48sx may be dead--Help!](#), Jacob **3 responses**

- [50 HP-12C - only \\$3150.00 on ebay :P](#), Tony David Potter **9 responses**
- [Thanks -- HP-41 Card Reader Saved!](#), Gordon Dyer **3 responses**
- [HP 11C](#), Marty **5 responses**
- [LED in HP 82104A](#), Gunnar **9 responses**
- [71b 41 translator has Forth?](#), Andy **6 responses**
- [strange power-on of HP41C](#), Holger Weihe **1 response**
- [Updated: Calculator sales prices on ebay.de](#), Holger Weihe **2 responses**
- [First calculators...](#), first calculators... **2 responses**
- [HP41C](#), Ray Fuller **4 responses**
- [First calculator story](#), Michel Beaulieu **15 responses**
- [Making new mini cassette tapes](#), Mike **1 response**
- [RPN on Windows](#), Peter Scheller **4 responses**
- [How to check an HP41 ?](#), GE (France) **2 responses**
- [SPAM in the classified ads](#), Math Geek **2 responses**
- [Learning RPN](#), Michel Beaulieu **23 responses**
- [HP-35 Question](#), Spice_Man **3 responses**
- [Reducing matrix with 15C](#), R Lion **4 responses**
- [Is there anyway to fix Pioneer series key SNAP???](#), Steve **10 responses**
- [Beeping 42S](#), George Johnson **1 response**
- [17BII Fail Message - Need help interpreting](#), Steve **2 responses**
- [HP no longer a leader](#), Ernie Malaga **1 response**
- [Miraculous brand new HP-67 !](#), Peter Mueller **6 responses**
- [9G - Manual, No RPN, No Surprises](#), rsenzer **7 responses**
- [More 9114A questions for the experts...](#), Daniel **18 responses**
- [HP-41 programs](#), Michel Beaulieu **2 responses**
- [Notes from opening a Voyager](#), Steve **2 responses**
- [Formatting Digital Tape](#), Stefan Hauschild **7 responses**
- ["E" series LED problems and battery advice](#), John Garza (3665) **0 responses**
- [I can't stop. Please help !](#), Pyerre L. **5 responses**
- [EDUCALC SERVICE MODULE](#), Michel Beaulieu **4 responses**
- [HP-41 Bar-Code checksum algorithm.](#), Diego Diaz **3 responses**
- [make 60000 now](#), msparks **20 responses**
- [HP 41CX Self Test???](#), Steve **6 responses**
- [Connectors for 48/49 serial port](#), Jeffrey_G **2 responses**
- [HP85 - Looking For Owner's and Programming Manual](#), Dilson Mattos Jr. **3 responses**
- [Alcaline Battery for vintage HP calculators ?](#), Pyerre L. **7 responses**
- [Thanks to Steve, Dale Richmond, and Alain](#), Tom Sherman (Maine) **0 responses**
- [Double A531D Module???](#), Michel Beaulieu **5 responses**

- [Woodstock's LED display characteristics](#), Vieira, Luiz C. (Brazil) **2 responses**
- [HP34C Chips positions ?](#), Pyerre **5 responses**
- [constructing .PDF's](#), barry **3 responses**
- [Powers of Matrices on 49G](#), Stercus **9 responses**
- [HP 42s solver question](#), Mike **11 responses**
- [Double sided floppies for 9114...](#), Daniel **30 responses**
- [Removing 11C Faceplate](#), Steve **8 responses**
- [ROT13 for HP41CX](#), oevna **7 responses**
- [Hp 42s Equation problem](#), Reston **3 responses**
- [BRYAN TORKOWSKI\(SP?\)](#), BOB ALLISON JR **0 responses**
- [Emu42 class registration failed](#), Erik Ehrling (Sweden) **2 responses**
- [Einstein, Newton and others...](#), Vieira, Luiz C. (Brazil) **4 responses**
- [82161A Mini cassettes](#), Diego Diaz **5 responses**
- [emu48 on pocket pc](#), axel **4 responses**
- [HP-IL + 82143A Printer.](#), Diego Diaz **2 responses**
- [CAS bug?](#), mapet **3 responses**
- [HP-12c double entries?](#), JackStafford **5 responses**
- [A Dead 82161A Digital Cassette Drive](#), Silvio de Moraes **1 response**
- [HP41CX](#), Brendan Hardy **2 responses**
- [71b eprom](#), Andy **3 responses**
- [HP9826 documents](#), Andreas Dziesiaty **1 response**
- [1982 Commemorative Calendar](#), Bob Nelson **8 responses**
- [Another eBay Record ?](#), Randy Sloyer (US) **2 responses**
- [Factorials of Large Numbers](#), Gordon Dyer **2 responses**
- [Followup: Regarding 9114a disc drive](#), Alain (Canada) **3 responses**
- [HP 42s Machine Reset Problem](#), Shawn **5 responses**
- [Emu28 and other ROM image upload stuff](#), Christoph Giesselink **0 responses**
- [HP 82066B charger question](#), Juergen Rodenkirchen (GER) **2 responses**
- [HP71 -> PC](#), Jörg Voigt **10 responses**
- [vms daemon not available yet will retry...](#), billy **1 response**
- [HP32Sii, missing dot row](#), Mike (Stgt) **3 responses**
- [Silent 41CV](#), Renato **3 responses**
- [Help Please](#), Dion **7 responses**
- [Order of operations](#), Jessica Maloney **15 responses**
- [Help! HP-41CX Programing](#), Gordon Dyer **11 responses**
- [Looking for HP 49G ug and aug in French \(pdf\)](#), Emmanuel, France **4 responses**
- [HP48 - help](#), Tal **0 responses**
- [HP 9G and HP 9S](#), Mark Anderson **49 responses**

- [32S batteries](#), Bill Rahmig **4 responses**
- [How repairable is this?](#), David Ramsey **1 response**
- [HP75 Keyboard Overlays](#), barry **5 responses**
- [my 41C is making a high pitched beep?](#), Dubois **7 responses**
- [i disassembled my 41cx, help!](#), David E **4 responses**
- [HP48 and interface to boot computer?](#), HPunk (Brazil) **0 responses**
- [LED displays and your kitchen floor](#), John Garza (3665) **2 responses**
- [Printer compatibility for the HP27S](#), Armando Blancas **1 response**
- [IN SEARCH OF BRIAN TORKOWSKI](#), BOB ALLISON JR **0 responses**
- [Repairing an HP-41CX](#), fred hochrein **2 responses**
- [Scientific American adverts and articles](#), Gordon Dyer **9 responses**
- [HP41 Unit conversion program?](#), Peter Greb **5 responses**
- [Time for an appeal to HP - free the ROM of the HP-42S!?](#), Erik Ehrling (Sweden) **2 responses**
- [Re: HP calculator news](#), Scott Pritchard **1 response**
- [Corrected link, it isn't "We're sorry" a great message from HP about their calculators? :-\)](#), Gene **0 responses**
- [HP calculator news](#), Scott Pritchard **0 responses**
- [HP prices on Ebay: List online](#), Holger Weihe **6 responses**
- [Repair 82033 Battery Pack?](#), Philip **4 responses**
- [Emu28, the HP28C emulator](#), Christoph Giesselink **1 response**
- [CAT 2 on a HP-71B?](#), Matthias Wehrli **2 responses**
- [HP49g Complex Numbers](#), Jason **22 responses**
- [Very expensive HP support](#), Guillermo Castares **16 responses**
- [KAMELEON for new HP Calculators](#), Bruce Cohen **4 responses**
- [HP-12C](#), Thomas Cox **1 response**
- [Re: HP & RPN](#), Larry Corrado **8 responses**
- [HP-41C memory lost? Doh](#), David **3 responses**
- [92169 Leather Covers](#), Claudio Grossi **1 response**
- [Woodstocks on the barbie...](#), John Garza (3665) **1 response**
- [Ebay item...manual only, but anyone ever seen the module?](#), gene **7 responses**
- [HP & RPN](#), John Garza (3665) **4 responses**
- [HP71B - how slow can it be?](#), Thomas Falk **3 responses**
- [HP accessories - surplus store](#), Renato **4 responses**
- [Date Functions \(DOW, DDATE, DATE+\)](#), A.J. Wolnski **7 responses**
- [Repairing LCD screen HP 32sii](#), Ben Salinas **0 responses**
- [Powering the 9114B disc drive without a battery pack](#), Tom Sherman (Maine) **7 responses**
- [HP-67 key label restoration](#), Jerry Lake **9 responses**
- [HP stoped production of almost all calculators?](#), Silvio de Morais **2 responses**

- [HP85a & b](#), Jeff **0** responses
- [hp-41 overlay template](#), David **1** response
- [Polishing scratches in metal bezel](#), Don Davis **1** response
- [Mechanical Self-opening calculator](#), Jo Page **6** responses
- [28s](#), HB **1** response
- [10C: asterisk occasionally flashes on LCD](#), Therese **2** responses
- [Questions about the 82240A/B](#), Silvio **5** responses
- [hp 17bII](#), Andre **1** response
- [Faulty shift & alpha keys on hp39g](#), Mike **5** responses
- [YMEC \(Yet More Ebay Craziiness\)](#), John Garza (3665) **2** responses
- [XP upgrade from ME](#), Martin **2** responses
- [Re: HP41 Battery Circuit Board](#), Dave **1** response
- [HP-48GX's on Ebay](#), Don Davis **7** responses
- [Is this a 31E for sale ?](#), Renato **2** responses
- [Solver for the 11C?](#), Glen Kilpatrick **3** responses
- [HP48G+ Precise Levelling Programme](#), Mathew Balsom **0** responses
- [adaptor](#), lesley **1** response
- [Persistence pays off!](#), Grant Henson **1** response
- [HP41 Repair Cracked Posts](#), Peter Graves **1** response
- [Wanted stopwatch to 42s](#), Rikard Carlsson **8** responses
- [QPI for HP42S](#), Erik Ehrling (Sweden) **0** responses
- [HP18C & HP28C ROM checksum?](#), Christoph Giesselink **0** responses
- [HP19B & HP19BII ROM image?](#), Christoph Giesselink **0** responses
- [GPL alpha version sources of Emu42 for Win32](#), Christoph Giesselink **1** response
- [HP-41CV Repair?](#), Michael Faulkner **1** response
- [More = Less \(x2^\(Time/Halftime\)\)](#), Tom Sherman (Maine) **0** responses
- [Casio strikes first.](#), J.Manrique López de la Fuente **0** responses
- [Card Reader HP 82104A Melting Roller](#), Robert Pietersma **0** responses
- [Card Reader HP 82104A Melting Roller](#), Robert Pietersma **3** responses
- [HP41 program storage](#), Jay **9** responses
- [HP-49G I/O Port repair](#), Jeff **2** responses
- [..._..._... HP9144 ..._..._...](#), Emmanuel, France **3** responses
- [what do you use yours for?](#), db(martinez,california) **8** responses
- [Has the HP 19BII been discontinued?](#), Drew **1** response
- [HP 10C help please!!!!](#), alex **5** responses
- [HP-41C/CV/CX ROM Revisions](#), Chris Catotti (Florida) **8** responses
- [HP Expands Calculator Business Worldwide with New Master Distributors](#), Andrés C. Rodríguez (Argentina) **3** responses
- [magnetic card for HP 67-97](#), Piero Italy **3** responses

- [Hp 48 s/sx manual](#), furrydog **1 response**
- [HP EE calculations](#), E Sanuel Levy **1 response**
- [HP71B/HPIL/9114B File Operations](#), Philip **3 responses**
- [hp 11c](#), mrcrow **2 responses**
- [hp9122d floppy drive](#), andy **1 response**
- [HP-67 for \\$1500?!](#), Amazed **42 responses**
- [Is there hp42s emulator for Linux?](#), J.Manrique Lopez de la Fuente **6 responses**
- [Russian Manuals for HP48G?](#), Chris Randle (UK) **2 responses**
- [HP-41: Question on Halfnut vs Fullnut](#), Juergen Rodenkirchen (GER) **6 responses**
- [Erik Ehrling \(Sweden\) and QPI for HP-42S](#), Erwin **1 response**
- [HP-41 Module Museum and XROM Numbers](#), Chris Catotti (Florida) **8 responses**
- [HP 86 - Bootdisk?](#), Daniel Wagner **4 responses**
- [HP X25 - "Calypso"](#), Y K Wong (Singapore) **0 responses**
- [Regarding 9114a disc drive](#), Alain **11 responses**
- [Re: HP-41C Help Request](#), David Smith **2 responses**
- [42S Dust](#), gifron **3 responses**
- [Repairing card reader for HP41C](#), Anonymous **2 responses**
- [HP 9114A Disc Drive Problem](#), Daniel Diggelmann **16 responses**
- [HP-41 Service module, Eprom Box and Rambox](#), Emmanuel **0 responses**
- [Is it true HP isnt making the 49G](#), Criss P. **3 responses**
- [Fractions on HP-42S](#), Erwin **1 response**
- [How to reassemble a HP15C ?](#), Nicolas **4 responses**
- [HP41 Memory Modules](#), Ty Rogers **3 responses**
- [RA->Lim NiceGuy SAME \(was Re: HP 28S Keyboard incident\)](#), Glen Kilpatrick **0 responses**
- [Im looking for a HP RPN calculator, which one is good to get?](#), K.C. **15 responses**
- [HP 85 CPU](#), Jean-Marc Alliot **2 responses**
- [HP38C Battery Polarity](#), Larry Corrado **3 responses**
- [Thanks, Richard and Joseph!](#), Emmanuel **1 response**
- [HP10Bii](#), Ramon Griffin **0 responses**
- [HP-19C Gone Loco!](#), John Garza (3665) **5 responses**
- [Help with printer 82143A](#), Silvio de Moraes **5 responses**
- [HP41 ROM/RAM box status update \(long\)](#), Meindert Kuipers **3 responses**
- [The remaining models...](#), Vieira, Luiz C. (Brazil) **6 responses**
- [Voyager series display](#), Martin Melhus **1 response**
- [Restoration question](#), Don Davis **10 responses**
- [HP12C](#), Vicki **1 response**
- [Handbook for HP 49G](#), Marcus **1 response**
- [HP 28S Keyboard incident](#), Hedinsson E. **1 response**

- [HP-41 Printer](#), Luis 5 responses
- [HP-42S display versions](#), Don Davis 2 responses
- [HP41CX, ext mem prob...](#), JasonG 4 responses
- [Re: CAS-Enabling Aplet for the HP39G](#), mapet 0 responses
- [HP32s Are Sold!](#), J.C. Randerson 1 response
- [HP marketing item](#), John Smith 27 responses
- [Self Test on 28S](#), Scuba Diver 5 responses
- [Statistics programs for 15C](#), R Lion 0 responses
- [Where can I find HP-IL Cables](#), Alain 1 response
- [Manual For HP 32SII](#), Eric 0 responses
- [Showed an HP 67 to a kid today](#), Kenneth Gargas 1 response
- [HP 42-S Screen repair?](#), John 5 responses
- [HP48sx data transfer via serial port](#), Stephen 6 responses
- [Posted Bio \(finally\)](#), Ion Abraham (New Mexico, USA) 0 responses
- [82169a and an hpib disc drive](#), andy 2 responses
- [HP41 \(flash\) ROM/RAM/MLDL box survey](#), Meindert Kuipers 32 responses
- [hp48gx help](#), rob 1 response
- [HP 87: Two questions](#), R. Posthumus 1 response
- [HP48S](#), Howard Jones 2 responses
- [Mathematical formulas](#), Tomas Anderson 3 responses
- [hp-45 stopwatch](#), John Fitz 1 response
- [Collectors: HP Only ?](#), John Smith 29 responses
- [48sx screen problem](#), Jaime Ruiz 0 responses
- [Rubber Feet](#), Michael Weitzner 7 responses
- [Update on HP95-lx prototype](#), Edwin Herdman 0 responses
- [Suggestions for HP: Make an HP-12C+ calculator](#), Gene Wright 9 responses
- [HP48.EXE on HP Jornada 525](#), Mike (Stgt) 4 responses
- [Talking about eBay craziness ...](#), John Smith 15 responses
- [82143A printer battery packs](#), Christof (Davis, CA) 1 response
- [HP 32sii replacement units](#), fred4406 2 responses
- [A new family tree for HP calculators](#), jose goncalves 1 response
- [Re: ebay craziness again](#), Raymond Hellstern (Germany) 0 responses
- [HP Integrator calculator on ebay? What is this?](#), gene 3 responses
- [ebay craziness again](#), gene 3 responses
- [HP 41CX Byte Grabber??](#), paul 3 responses
- [Private End Code - Bumped](#), paul 1 response
- [HP 35 type 1](#), Randy 9 responses
- [Data transfer from HP-41 to HP-200LX via IR link](#), Emmanuel 0 responses

- [Statistics on HP15C](#), Alexandre KAMP **5 responses**
- [Private end code for 41 CX](#), Paul **8 responses**
- [hp 67 battery pack and charger lost](#), David **1 response**
- [Digital Clock Design](#), Paul Brogger **2 responses**
- [48G+ versus 32SII](#), Mark Simon **6 responses**
- [HP infrared printer](#), Tony Thimet **7 responses**
- [Re: machine epsilon](#), Pascal **0 responses**
- [HP41CX overlays and HP-IL \(long\)](#), Christof (Davis, CA) **5 responses**
- [HP-41CV decimal](#), Jim Medanich **3 responses**
- [EduCalc "Link" software](#), andy **0 responses**
- [programmazione con il pc per la hp49g](#), dennis **1 response**
- [HP-28S Beeper](#), MJ Meiners **2 responses**
- [decimal point placement](#), karen **1 response**
- [Wow. HP-34c on ebay \\$300](#), Gene **2 responses**
- [Converting 512K or 1M cards](#), Victor Maletic **1 response**
- [HP 67 LED Problem](#), Michael D. Robinson **1 response**
- [Can all HP42S version be upgraded to 32K?](#), Erik Ehrling **9 responses**
- [Any information on these parts???](#), Iqbal **0 responses**
- [HP-41C Card Reader - HELP!](#), Gordon Dyer **3 responses**
- [HP29C problems](#), barry **5 responses**
- [41 cx](#), bill hand **1 response**
- [Re: Please, I hope people do not complain...](#), Ernie Malaga **19 responses**
- [Repair fo HP67 AC Adapter](#), Gene R. DiResta **2 responses**
- [Mt Everest on your 41](#), Glen Kilpatrick **11 responses**
- [HP28C CPU core?](#), Christoph Giesselink **1 response**
- [97S](#), Chris Hill **3 responses**
- [visualizzazione risultati di un programma nel hp49G](#), dennis **6 responses**
- [MLDL FPGA updated](#), Meindert Kuipers **1 response**
- [Dave, are you selling your calculators ?](#), thibaut.be **3 responses**
- [HP-85 on eBay with MoHPC pic](#), Vassilis Prevelakis **4 responses**
- [HP42S directories?](#), Christof (Davis, CA) **6 responses**
- [HP 19BII Manual](#), Howard Jones **2 responses**
- [Remarkable price for HP-41 Math Module on eBay...](#), Raymond Hellstern (Germany) **3 responses**
- [any experience with Jornada replacements?](#), gene **1 response**
- [HP10B's](#), Howard **3 responses**
- [Public Calculator Display](#), Larry Corrado **3 responses**
- [Is there a need for an HP-71 emulator?](#), HrastProgrammer **12 responses**
- [9825/35/45 Tape Drive Info Request](#), Ken Mowery **4 responses**

- [I need information about Voyagers IC's](#), Vieira, Luiz C. (Brazil) **11 responses**
- [This is kind of amusing...](#), Michael **4 responses**
- [HP25 on Ebay](#), David Smith **0 responses**
- [Copycat again??!](#), Luis **2 responses**
- [HP-71B versions](#), ed **3 responses**
- [Wow!!! HP-15C](#), ed **3 responses**
- [Hp 28s number format](#), Joan Cardenas **9 responses**
- [Spice disassembly](#), Karl Schneider **1 response**
- [Dead 17BII Options](#), Greg **1 response**
- [Re: resurrecting a 32E -my oldest so far](#), Christof (Davis, CA) **10 responses**
- [Dead HP11C](#), Julie Whitmore **7 responses**
- [HP38G Manual](#), Chan Tran **1 response**
- [Re: Rechargeable Battery for HP-29c](#), Dave **1 response**
- [Extended Memory in HP-41 Emulator](#), Bill Hemphill **5 responses**
- [resurrecting a 32E -my oldest so far](#), Christof (Davis, CA) **2 responses**
- [Hp 65](#), joan cardenas **7 responses**
- [hp85](#), Duncan Philip **3 responses**
- [CAS bug ?](#), mapet **0 responses**
- [The smallest HP conference](#), Christof (Davis, CA) **1 response**
- [x=4? Function](#), Shawn **2 responses**
- [HPCC Conference](#), Richard Garner **13 responses**
- [HP75 I/O ROM LEX Filenames](#), andy **0 responses**
- [LogicDart and related maintenance questions](#), Vieira, Luiz C. (Brazil) **4 responses**
- [Converting 2225 A,C or D to 2225B ??](#), Steve Seto **3 responses**
- [HP-28S New in Box - went for \\$205](#), Scuba Diver **3 responses**
- [Re: HP 11C Battery](#), John K. (US) **0 responses**
- [Thoughts???](#), Iqbal **2 responses**
- [How was this PPC-ROM made?](#), Dave Mabry **5 responses**
- [HP-86](#), Mark Vandemeulebroucke **2 responses**
- [Copies of Hp manuals on eBay](#), Randy Sloyer(US) **8 responses**
- [HP49 O.S. - What's new about it?](#), Vieira, Luiz C. (Brazil) **13 responses**
- [HP- 38C/E battery pack](#), blueamber **2 responses**
- [15C: Buy of the day](#), Mike **6 responses**
- [Golden HP49G????](#), Iqbal **3 responses**
- [HPILCMD5.LEX](#), andy **0 responses**
- [An American thing?](#), AshP **2 responses**
- [32sII question](#), Charles **4 responses**
- [repair an HP 01](#), francois CLEMENT **0 responses**

- [Xpander](#), Y K Wong (Singapore) **15 responses**
- [HP42S details](#), Christof (Davis, CA) **0 responses**
- [HP-41 Card Reader - HELP](#), Gordon Dyer **11 responses**
- [Re: HP-41CX for PocketPC](#), Andrés C. Rodríguez (Argentina) **0 responses**
- [HP-41CX for PocketPC](#), Chris Randle (UK) **1 response**
- [HP-11C](#), David Forte **1 response**
- [oscilloscope hp 184A](#), Daniel **2 responses**
- [HP-71B dead!](#), James Browning **7 responses**
- [HP41CX mint - lucky ??](#), Tom (UK) **9 responses**
- [Support on HP 9825B case](#), Dario Rodriguez **2 responses**
- [HP-71B reset?](#), ed **5 responses**
- [Re: HP48G Question](#), Vieira, Luiz C. (Brazil) **0 responses**
- [HP Resellers in Taiwan](#), Vic **0 responses**
- [2 essential questions about HP49](#), Martin **2 responses**
- [HP is stepping down?](#), Charles **2 responses**
- [HP 82104A HP41C/CV/CX Card Reader Parts!!](#), Scott Kindorf **0 responses**
- [Is there any word from London](#), Richard Garner **2 responses**
- [HP-200LX and HP-41 IR link](#), Emmanuel **3 responses**
- [What's HP 83236A?](#), Matthias Wehrli **2 responses**
- [HP 40G problem](#), mapet **0 responses**
- [HP41 modules...making?](#), JasonG **5 responses**
- [HP-28S surpasses US\\$280 mark](#), David Tan (Singapore) **4 responses**
- [42s Programming Question](#), Steven Soto **3 responses**
- [HP48G emulator for Sony Clie Palmtop](#), Renato **0 responses**
- [E-bay bidding rationale ???](#), Dave Mabry **27 responses**
- [New Calc market Survey](#), Dave **9 responses**
- [Moving files from HP-41/HP-IL to PC and back](#), Chris Catotti (Florida) **6 responses**
- [HP-10B PDF manual](#), Johnny Bjoern Rasmussen **9 responses**
- [HP-16C Question](#), John Smith **10 responses**
- [bicycle speedometer](#), Tal **2 responses**
- [My new HP12C...is this normal?](#), Scuba Diver **1 response**
- [New Calc market Survey](#), Dave **2 responses**
- [SKWID INK PLUS HP-41 Barcode Rom](#), Christoph Klug **0 responses**
- [HP 15C](#), David Barnes **3 responses**
- [Cleaning HP-45 switch contacts](#), Steve **4 responses**
- [why calculators?](#), Christof (Davis, CA) **1 response**
- [my new old toy](#), db(martinez,california) **3 responses**
- [HP Calculator closeout and rebates](#), Chris Catotti (Florida) **3 responses**

- [Brand new 41CX's - last ones?](#), Luis 3 responses
- [New Design](#), Chris Catotti (Florida) 16 responses
- [How many HP41 Modules are there?](#), Bill Hemphill 7 responses
- [HP 48S and HP 48G](#), MikeN 1 response
- [New HP calc, an idea?](#), Tom (UK) 5 responses
- [HP71B Modules](#), Laurence Carr 2 responses
- [HP-65 low keys](#), Luis 7 responses
- [HP-41 Math Pac Part Numbers and such](#), Chris Catotti (Florida) 6 responses
- [Need help reading HP9845 cartridge](#), Stefan Kloc 0 responses
- [What are the differences between HP-75C and HP-75D?](#), David Tan (Singapore) 1 response
- [Fry's, Sacramento.](#), Christof (Davis, CA) 9 responses
- [Navigation on e-Bay waters...](#), Vieira, Luiz C. (Brazil) 3 responses
- [ROM Swapping](#), Speck 1 response
- [Wow. \\$565 on ebay](#), gene 4 responses
- [Hard case for pioneer](#), Christof (Davis, CA) 2 responses
- [HP 82240B Printer Combatible with 41?](#), Steve Seto 2 responses
- [Anyone Have PRGMBR for the 71?](#), Steve Seto 2 responses
- [A truly international 32sii](#), AshP 8 responses
- [if HP has cancelled so much, why not...](#), Christof (Davis, CA) 42 responses
- [Java simulators on P/PC or H/PC](#), Renato 1 response
- [Biographies: I'd like to read about you](#), Vieira, Luiz C. (Brazil) 5 responses
- [RPN calculators for Palm OS](#), Renato 8 responses
- [The HP12C, a buyer's guide](#), Scuba Diver 4 responses
- [I'm building a site about programming and using Eproms for HP-41](#), Emmanuel 0 responses
- [HP-49 array indirect addressing](#), Karl-Ludwig Butte 3 responses
- [Calculator Simulations for Palm](#), Renato 9 responses
- [HP serial numbers](#), jose goncalves 4 responses
- [High consumption with hp48G](#), Didier 5 responses
- [Voyager accessories](#), Ellis Easley 7 responses
- [HP Numbers](#), Matthias Wehrli 3 responses
- [On more question about 82120A HP41C battery pack repair.](#), Frédéric ALBERT (from France) 1 response
- [O-rings for HP41 Card Reader repair](#), Hugo (Belgium) 4 responses
- [HP 67/97 "Trick" Cards Warning for HP-97 Users](#), Dan M (Vermont, USA) 0 responses
- [What is Speed Machine Pac Module??](#), Iqbal 4 responses
- [How to rebuilt a 9114 Battery pack](#), Matthias Wehrli 4 responses
- [HP 42 S flaking out](#), Edi von Engeln 4 responses
- [Saturn Processor documentation](#), Randy Sloyer(US) 1 response
- [futile inquiry.....](#), J Tiers 5 responses

- [New HP41CX from England???](#), karl gruber **3 responses**
- [Is the ZENROM .rom image in the public domain](#), Steve Kersey **0 responses**
- [\\$265 for a 28S](#), Scuba Diver **13 responses**
- [RAM Cards](#), chapotito **0 responses**
- [NIB HP-19BII calcs \\$129.95 at Fry's/Sunnyvale, CA](#), Bill Wiese **0 responses**
- [You're not the only one Dave!](#), Chris Randle (UK) **1 response**
- [ROM/EPROM board for HP94](#), Watchdog **0 responses**
- [hp-12c](#), Gil **3 responses**
- [User's manual for CCD module for HP-41](#), Mark Villarino **5 responses**
- [GOINTEL.BAS](#), Emmanuel **1 response**
- [ROM>L8 and 'L8 for HP-41](#), Emmanuel **1 response**
- [Spot welder for batteries?](#), John Ioannidis **8 responses**
- [HP-11C semi-dead or what ?](#), Erich Neubacher **1 response**
- ["FACT" ???](#), karl gruber **16 responses**
- [problem with HP-48SX](#), bucky **2 responses**
- [HP-41 Math/Stat Pac "Blank"](#), Chris Catotti (Florida) **3 responses**
- [HP41 battery pack circuitry](#), Jaime **7 responses**
- [Help me with my 10C](#), Therese **7 responses**
- [Looking for battery cover for a 28C](#), Gary Butler **1 response**
- [Truly powerful ~HP ~calculator](#), Glen Kilpatrick **9 responses**
- [41CV functions](#), Martin **6 responses**
- [Shaver case](#), Martin, UK **0 responses**
- [CD's finally arrived.....](#), J Tiers **15 responses**
- [Ebay- does the display on this HP-80 look real?](#), gene **2 responses**
- [HP11C - dirt behind the screen glass](#), Nenad Vulic (Croatia) **3 responses**
- [Speed Machine II fo HP-41CX](#), Emmanuel **16 responses**
- [HP49G--Quirk or Problem?](#), Speck **1 response**
- [HP1XC accessories](#), Adrian **4 responses**
- [? on HP 48 manual](#), barry **10 responses**
- [The final version of HP-42X is available](#), HrastProgrammer **6 responses**
- [HP 17bii](#), Ed Hitchcock (New Zealand) **2 responses**
- [no color in All-in-one](#), C N Chau **1 response**
- [32s ii](#), jasper wei shangxiong **3 responses**
- [Repairing HP41CX key](#), jetboy777 **7 responses**
- [HP48GX Screen Broke](#), Curtis Woodworth **2 responses**
- [going from 32SII to 48GX](#), Randy **3 responses**
- [HP48S/48G connectivity](#), Juergen Rodenkirchen (GER) **4 responses**
- [Re: HP-42X memory requirements, demo version, etc.](#), HrastProgrammer **0 responses**

- [My HP29C gave me a scare.](#), John Ioannidis **1 response**
- [HP-42X memory requirements, demo version, etc.](#), HrastProgrammer **0 responses**
- [Zenwand for the HP-71B](#), Andy **4 responses**
- [HP-71B Memory Modules](#), Steve Seto **5 responses**
- [HP 32SII](#), Howard Jones **4 responses**
- [hp-41 repairs](#), David M. Jordan **2 responses**
- [Zengrange Ltd 41CV Emulator Card for HP-48GX too?](#), Emmanuel **5 responses**
- [Who should pay for the shippings?](#), yorozubenkyodo **6 responses**
- [evaluation](#), Jack Stafford **11 responses**
- [HP28S Programming help \(requested\)](#), Christof (Davis, CA) **5 responses**
- [Ordered, paid, no CDs yet](#), J Tiers **9 responses**
- [surveying programs for hp32sii](#), henry shipman **5 responses**
- [The new line-up](#), Scott Pritchard **11 responses**
- [HP48SX non responding](#), Rodolfo Vilchez **4 responses**
- [94F Wand](#), Mike **2 responses**
- [41C Halfnut Character Set](#), Gordon Dyer **4 responses**
- [What's wrong with this picture?](#), Dave Mabry **7 responses**
- [Synthetic programming with HP-67 ?](#), jose goncalves **9 responses**
- [Re: HP41 Rechargable Battery Pack Repair Solution](#), Andrés C. Rodríguez (Argentina) **1 response**
- [Re: A revised family tree](#), jose goncalves **0 responses**
- [Re: A revised family tree](#), jose goncalves **0 responses**
- [Help with this HP-12C](#), jose goncalves **2 responses**
- [Setting time/date on HP01 watch](#), Sarah **2 responses**
- [HP30S](#), Howard Jones **9 responses**
- [How to turn off GRAD on HP41C](#), Pat **31 responses**
- [Re: HP41C](#), Roger Hubbert **2 responses**
- [HP9810 Printer Alpha ROM](#), Tony Duell (UK) **2 responses**
- [HPIL junk wanted \(with e-mail address\)](#), Vieira, Luiz C. (Brazil) **6 responses**
- [old hp 20s faster then the newer ones?](#), Mark **7 responses**
- [HP-22s](#), benny **1 response**
- [HP-42X: HP-42S MicroCode Emulator for HP-48GX \(Preliminary Info\)](#), Erik Ehrling **2 responses**
- [Re: Are 17B/19B calculators being discontinued?](#), Skip **1 response**
- [HP-82106A Mem Modules?](#), karl gruber **3 responses**
- [HP11C ,not working](#), Jean Minazio **3 responses**
- [HP 27S Books](#), Ana Smith **2 responses**
- [HP-41 SKWIDBC barcode rom](#), Christoph Klug **5 responses**
- [HP-71: MakeLEX](#), Juergen Rodenkirchen (GER) **3 responses**

- [DeskJet 820 Cse for windows](#), Claire **0 responses**
- [Training Applet for RPN](#), Steve Seto **5 responses**
- [Color of HP 2225 Printers ??](#), Steve Seto **9 responses**
- [Re: HP-42S emulated on an HP-48 emulated on WinCE . . .](#), Paul Brogger **4 responses**
- [OT: What Features Should I be Looking for in an "eBay Digital Camera"?](#), Paul Brogger **12 responses**
- [Re: Nothing much - Other RPN scientifics](#), Katie **3 responses**
- [HP Post Merger Results](#), frank **0 responses**
- [Re: Nothing much](#), db(martinez,california) **10 responses**
- [Re: HP 29-C](#), Michael Meyer **2 responses**
- [Re: HP 29-C](#), Jerry Siegel **4 responses**
- [Re: Nothing much](#), Les Bell (Sydney) **3 responses**
- [Re: HP41C](#), Ion Abraham (New Mexico USA) **0 responses**
- [Re: Repair of I/O ass'y on HP-41C](#), Christoph Klug **1 response**
- [Re: Minimum memory requirements...](#), HrastProgrammer **0 responses**
- [Re: HP41C](#), J Tiers **0 responses**
- [Re: A revised family tree](#), Ellis Easley **0 responses**
- [Re: RPN as a language?](#), Mike Sebastian (Texas) **4 responses**
- [Re: Nothing much](#), Fred H. Schellenberg **1 response**
- [Re: The exchange of the built-in NiCd battery of HP-34C.](#), David Smith **0 responses**
- [Re: HP41 Rechargable Battery Pack Repair Solution](#), David Smith **0 responses**

[[Top of Index](#)]

This page intentionally left (almost) blank.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

using Tapes with the 9825B

Message #1 Posted by [Richard Freeman](#) on 12 Jan 2003, 8:23 p.m.

does anyone know anything about saving programs on the HP 9825 to tape ?? I have a (recently acquired) 9825B and even managed to get hold of a couple of old 3M DC100A tapes my first attempts last night to get the 9825 to save a program resulted in lots of error messages (error 30 and 42 - I think from memory) and the discovery that the tape had ended up being pulled off one of the spools.

I have since opened the cartridges up and discovered how to rewind the tape on to the spool etc.

Before anyone points out the obvious I have ordered the CDs but was hoping someone could give me a few pointers in the meantime.

Regards Richard Freeman

Re: using Tapes with the 9825B

Message #2 Posted by [Katie Wasserman](#) on 12 Jan 2003, 10:01 p.m.,
in response to message #1 by Richard Freeman

If when you hit the "rewind" button the tape comes off the spool, there are 6 possible causes:

- 1) The little 45 degree mirror in the cartridge is missing or out of alignment.
- 2) The tape isn't wound far enough onto the pickup reel, HP recommends 10 turns if it comes off.
- 3) The tape is missing the hole that tells the sensor that it's found the beginning/end of tape.
- 4) The photo sensor in the tape drive is covered with dirt.
- 5) The light bulb for the photo sensor is out (pop out the tape and look into the slot, you should be able to see a spot of whitish light and all the drive components should be visible. If not, the

bulb is dead since it's always on whenever the calculator is powered up. I don't know the bulb type, it might be listed in the service manual but I only have one for the 9815 -- same tape drive -- and it's not listed there.)

6) There's a problem with the electronics for the BOT/EOT sensor.

Once you get the tape to rewind properly you can find the commands to use in the quick reference guide:

<http://www.n4mw.com/qr9825.htm>

I hope that helps!

-Katie

Re: using Tapes with the 9825B

*Message #3 Posted by [Glen Kilpatrick](#) on 12 Jan 2003, 10:01 p.m.,
in response to message #1 by Richard Freeman*

Some diligence with Google turned up <http://www.n4mw.com/qr9825.htm> ---> <http://www.n4mw.com/hp9825/qr/qr3233.jpg> which shows that error 30 means "Special function key not defined" (maybe your memory was off here), and 42 means "Tape cartridge is write-protected...." (jackpot!).

Checking a few pages suggests the entire manual has been, uh, jpgized.

Good Luck, Richard.

Re: using Tapes with the 9825B

*Message #4 Posted by [Richard Freeman](#) on 12 Jan 2003, 10:44 p.m.,
in response to message #3 by Glen Kilpatrick*

Thanks Glen and Katie I suspect I was being too specific in my google searches as I was trying to figure out whether the 9825 needed a preformatted tape or not.

as for the tape being wound off the spool I suspect that was probably a result of rewinding the tape too often (operator error !) as the light in the drive is on and the tapes have their mirrors (they were brand new out of shrinkwrap) if it still plays up tonight I will have to have a poke around with a CRO and whatever info I can glean from Patent no 4,075,679 which according to sources on Classic comp is the patent for the 9825.

Thanks for the Link and the Info !

Regards Richard Freeman

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Another eBay price record?

Message #1 Posted by [Randy Sloyer\(US\)](#) on 12 Jan 2003, 7:52 p.m.

Another new price level reached?

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1950138123>

Re: Another eBay price record?

Message #2 Posted by [Pyerre](#) on 12 Jan 2003, 9:10 p.m.,
in response to message #1 by Randy Sloyer(US)

Check this one too :

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1950266069&category=11713>

...thought that I've had a chance getting the whole (HP25) kit at a yard sale in Bedford, MA last summer for \$37.00.

Re: Another eBay price record?

Message #3 Posted by [Pyerre](#) on 12 Jan 2003, 9:20 p.m.,
in response to message #1 by Randy Sloyer(US)

How about this one ?

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1951050759&category=3294>

Ouff ! Time to stock them up :)

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

fixes for HP-45 and HP-55 simulators

Message #1 Posted by [Peter Monta](#) on 12 Jan 2003, 6:32 p.m.

I've been playing with the HP-45 and HP-55 simulators---very interesting! It turns out there are some errors in the assembly code as transcribed from the listings in the patents:

hp45.asm:

99c99

< if a[x] >= 1

> if a[xs] >= 1

hp55.asm:

67c67

< ofl: delayed select rom 3

> ofl: delayed select rom 5

1601c1601

< ent14: c -> a[x]

> ent14: 0 -> a[x]

2012c2012

< c + 1 -> c[w]

> c + c -> c[w]

2025c2025

```
<      c + 1 -> c[w]
---
>      c + c -> c[w]
3115, 3116c3115, 3116
< out1: c - 1 -> c[xs]
< out2: c - 1 -> c[xs]
---
> out1: c - 1 -> c[x]
> out2: c - 1 -> c[x]
```

They were found by hacking up an OCR to look at the '1's and '.'s in the patent TIFFs, so these are probably all the mistakes.

The HP-55 now works under casmsim, at least in ordinary "run" mode. I don't know how to emulate the timer-program-run switch, though. Something to do with S3 or S8, maybe, but exactly what is not clear from the code (which could do with a few comments).

A modified xio.c to display the HP-55 keyboard is available here, along with revised hp45.asm and hp55.asm:

<http://www.pmonta.com/calculators>

Cheers, Peter Monta

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 19C

Message #1 Posted by [stefan granat](#) on 12 Jan 2003, 12:49 p.m.

I have asked this before but i cant remember. So here it is againe is it ok to use the charger for a hp 41 printer on my 19??? if so how do i connect it right. stefan

Re: HP 19C

Message #2 Posted by [Erik Wahlin](#) on 12 Jan 2003, 2:19 p.m.,
in response to message #1 by stefan granat

Yes it is the same charger. Since it is AC output, it does not matter the direction of the plug.

Re: HP 19C

Message #3 Posted by [stefan granat](#) on 12 Jan 2003, 2:44 p.m.,
in response to message #2 by Erik Wahlin

erik thanks. i found yor earlier replay on the same qustion from me. The calk i working but slowly. i have to take it apart. vi hörs. stefan

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

prices & gossip

Message #1 Posted by [db\(martinez,california\)](#) on 11 Jan 2003, 10:11 p.m.

i stopped in a computer store today. they had new indonesian hp 20's in a plastic packages for \$19 & 39's for \$29. there were 12c's mounted on cardboard for \$35. no manuals came with any of them. i asked the owner and he said that he got them from hp, they were for in warranty replacement. i guess carly's new improved hp doesn't do that any more. i didn't even ask about 32's; i hear that sampson cables got them all.

i didn't get anything. the 20 and 39 hold no interest for me and i have a sufficiency of 12c's. i'm holding out for the fabled new scientific rpn.

Re: prices & gossip

Message #2 Posted by [Raymond Hellstern \(Germany\)](#) on 12 Jan 2003, 4:15 p.m.,
in response to message #1 by db(martinez,california)

Similar in Hannover, Germany. A friend bought his new 20S from store, in plastic package, but no manual nor slide case. They're getting rid of their last replacement units now. BTW: It was the first time I saw the new color schema on the 20S. It looks more stylish, but less expensive, as usual with the latest models.

Raymond

Re: prices & gossip

Message #3 Posted by [Randy Sloyer\(US\)](#) on 12 Jan 2003, 7:19 p.m.,
in response to message #1 by db(martinez,california)

Computer store? What and where is this place? I thought HP stopped distributing through all but the "Big Box" stores. My local "computer store" (Micro Center) stopped carrying HP calcs more than a year ago. I'm curious as to how a "little guy" gets the apparent last batch of HP calcs on the planet?

I have heard a rumor that HP had sold off everything the bean counters considered "excessive" inventory before the Compaq merger to raise cash. Let us not forget the \$96 42S replacements, not that long ago. Perhaps this is result? Bargain prices for those of us who don't need manuals?

As for the Samson Cable connection, if he got a pile of 32Sii service replacements from HP, why is he still buying them on eBay? I think the 32Sii is gone, plain and simple. I referred a person direct to HP about two weeks ago for a replacement, and they reported back that HP offered them a 48GX in place of the 32Sii, as they had none available.

The end is near, with the apparent exception of your bargain find of the LAST BATCH OF HP CALCULATORS AS WE KNOW THEM!

Would you let the rest of the world in on where this is?

Re: prices & gossip

Message #4 Posted by [db\(martinez,california\)](#) on 12 Jan 2003, 8:52 p.m.,
in response to message #3 by Randy Sloyer(US)

this is in california and not too near my town. the place is called surplus stuff. it's at the corner of julliard dr. and folsom blvd. in sacramento. you are east coast, aren't you?

i told an acquaintance about your interest since he is going tomorrow to get a 20. he will probably email you or post if he reads his email again before he goes. i hope connections get made.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

42s batteries

Message #1 Posted by [Bob](#) on 11 Jan 2003, 6:47 p.m.

Just found my old 42s and am wondering what everyone is using for batteries as the px675's (i think) do not seem to be available.

Re: 42s batteries

Message #2 Posted by [R Lion](#) on 11 Jan 2003, 7:01 p.m.,
in response to message #1 by Bob

LR44

Re: 42s batteries

Message #3 Posted by [Glen Kilpatrick](#) on 11 Jan 2003, 8:10 p.m.,
in response to message #2 by R Lion

My understanding is that Alkalines won't last as long as Silver Oxides, but that when they run out, the former will more gracefully decline, and you get a longer low-battery warning, whereas the latter will just about die on you. Others are welcome to give their impressions....

Re: 42s batteries

Message #4 Posted by [Katie Wasserman](#) on 11 Jan 2003, 10:56 p.m.,
in response to message #3 by Glen Kilpatrick

The silver oxide ones (Everyday 357 or Maxell SR44) last many times longer in low drain applications like most HP calculators because they have extremely low self-discharge rates. The storage capacity of the silver oxide cells is about the same as the alkaline cells (A76 or LR44), around 160mah for each. But the self discharge rate makes a huge difference (unless you're running programs on the 42s 24 hours a day). The silver oxide cells cost about twice as much do but in calculators like the 15C and 12C they can last 20 years with nominal use while the alkaline cells will usually not last more than a year or so.

Re: 42s batteries

*Message #5 Posted by [Bob](#) on 12 Jan 2003, 12:25 p.m.,
in response to message #4 by Katie Wasserman*

Wow! Thanks for all of the info.

Bob

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Ebay feedback question

Message #1 Posted by [Don Davis](#) on 11 Jan 2003, 5:04 p.m.

This is somewhat off-topic, but I know many on this forum regularly buy and sell on Ebay. I recently purchased a 41CX there. There was a photo, and only a limited description. I saw the auction at work and I didn't have a lot of time to ask detailed questions, so I just made a reasonable bid.

I just received the calculator, and am unhappy with the condition. Two of the rubber feet are missing on the back, and there is a spot on the front of the unit which looks as if it has been melted by a soldering iron. Neither was visible in the Ebay photo, nor were they mentioned in the ad.

I emailed the seller very politely, stated my concerns, and asked if I could return the unit. I specifically stated that I would not expect a refund of shipping charges, and I would pay \$10 for the seller's trouble, so only a partial refund would be required. The seller responded that the defects were small and to be expected in a calculator of this age, and that he never said that it was mint. I agreed that he never said it was mint, but that these defects should have been mentioned in the ad as they were not visible in the photo. In summary, he refused the request to return the item.

Anyway, I am now about to leave feedback. It was certainly going to be negative had I typed it 2 hours ago when this first happened. However, I'd like to get the opinion of someone who is not personally involved. Given the facts stated above, should it be negative, or neutral?

In case anyone is wondering, the seller is not someone who frequents this forum, at least not that I have seen.

thanks for your views, Don

Re: Ebay feedback question

Message #2 Posted by [Steve Seto](#) on 11 Jan 2003, 5:52 p.m.,
in response to message #1 by Don Davis

As a long time eBay buyer, I've had plenty of opportunities to question seller ethics. I think your case is right on the borderline. The seller should mention defects of any significance. But you are also somewhat responsible. You should always ask the buyer for more details if you are serious.

Finally, the seller's apparent unwillingness to deal with you after the sale is troublesome. I'd suggest NEUTRAL feedback, where you mention only the facts. Item had undescribed defects and seller unwilling to follow-up. That at least raises a warning flag. Be prepared for retaliation, and remember that as a buyer, eBay doesn't care about you at all (only sellers because THEY pay the fees). So don't look to them for any help at all.

Re: Ebay feedback question

Message #3 Posted by [Nick](#) on 11 Jan 2003, 6:26 p.m.,
in response to message #2 by Steve Seto

To me, negative feedback is called for. If the picture is poor, then the description should state any problems with the calculator. As a seller, I go out my way to make clear any defects of my products. And I would take back any item if I didn't make something clear.

Re: Ebay feedback question

Message #4 Posted by [Raymond Hellstern \(Germany\)](#) on 11 Jan 2003, 6:48 p.m.,
in response to message #1 by Don Davis

I had a similar case a while ago, and unfortunately I had given feedback for the seller just after having received the item. Later it came clear that the item was not only in used condition, but with a broken frame, which made it useless for me (it was an OmniBook).

However, please note if you leave negative feedback for the seller, he may leave you a negative feedback in return, so you have to decide between private anger, or an official negative feedback point;-)

If the melted point of your calc is on the keyboard overlay, just put a new one there...

Raymond

Re: Ebay feedback question

Message #5 Posted by [Jürgen \(Switzerland\)](#) on 12 Jan 2003, 6:38 a.m.,
in response to message #4 by Raymond Hellstern (Germany)

Raymond,

you have mentioned an interesting point: if you leave negative feedback you most probably get negative feedback, too. An otherwise perfect feedback gets "dirty" but it's NOT your fault (the seller did not describe the condition properly).

That's the reason why I do not trust in eBay feedbacks too much. eBay is risky: some time ago, I've paid EURO 50.- for some HP-41 stuff and got nothing. That's really annoying! But fortunately, most sellers are honest; and most of the time eBay is fun.

Jürgen

Re: Ebay feedback question

Message #6 Posted by [mark](#) on 12 Jan 2003, 8:03 a.m.,
in response to message #1 by Don Davis

Neg him. I buy stuff on eBay too, and I appreciate the warning if I should ever want to bid on this guy's items.

You may get a retaliatory neg in return but anyone researching your feedback will see that for what it is. Think of it as taking a hit for the team. You also get to comment on the retaliatory feedback right there on your feedback page.

I have 2 retaliatory negs; they haven't hurt me any.

I really hate it when sellers don't list the defects in detail.

I have taken to sending a canned form letter to the seller asking all the relevant questions that a collector would want to know about a calc including branding, scratches, dings, self test results, etc. Also people's definition of 'mint' varies greatly.

Please neg the guy. I wouldn't want to do business with someone who doesn't care a whit about customer satisfaction.

-mark.

Re: Ebay feedback question

Message #7 Posted by [mark](#) on 12 Jan 2003, 12:01 p.m.,
in response to message #1 by Don Davis

I once bought an antique mantel clock off ebay. I wanted something I could just dust off, put on the mantel, wind, and enjoy. The ad said the clock "runs, strikes, and chimes."

Well it runs, fast. It chimes, but 15 minutes out of sync with the time displayed. And it strikes -- CONTINUOUSLY for about 45 minutes until the striker spring unwinds.

So the ad was truthful, and I did not neg the seller because the ad described the behaviour of the clock accurately, but I should have clarified with the seller if it would meet my particular out-of-the-box usability needs.

I have since learned how to repair the clock it to make it do what I require, but it cost me the price of a few evenings research and a couple old clock repair books.

I have also learned to ask a lot of questions before bidding .

Another Approach

Message #8 Posted by [Larry Corrado](#) on 12 Jan 2003, 3:59 p.m.,
in response to message #1 by Don Davis

For what it's worth, I had a recent ebay buying experience that may illustrate a different approach that could be useful in some cases.

I noticed a certain calculator which was described as "excellent." I realized the picture used was taken (stolen probably) from a popular calculator website. (The number displayed gave it away.) However, I bid anyway and won the machine. Upon receiving it a few days later, I found that the unit really did not deserve an "excellent" description, and that I had payed more than It was worth to me.

What to do? I wanted to keep the machine. I didn't have this model, and it wasn't really BAD, just not excellent. Also, I would have to convince the seller to give me a refund and probably would have to pay postage on a return. A lot of hassle.

I knew I would be happy with a partial refund, so I estimated how much I would have paid if I had actually seen the machine. (It amounted to only about \$3 less - It was a rather inexpensive purchase.) I emailed the seller, explaining the reasons for my dissatisfaction and requesting a partial refund. Within 30 minutes, the money was credited to my Paypal account, and an enote reply sent to me. She apologized for not looking at the unit more closely and noticing the faults.

I gave her the benefit of a doubt in my feedback: It was "positive," but I only commented on her quick shipping and good communication. I'm quite sure she's not a collector (and seems to sell mostly clothes), and so she may not actually have looked at the unit closely.

Larry

Try agreements first

*Message #9 Posted by [Pyerre](#) on 12 Jan 2003, 4:09 p.m.,
in response to message #1 by Don Davis*

It's happened to me too.

It was non-working HP calculator (Spice serie). I've seen the auction in the last few minute and of course, didn't have time to ask detailed questions, and won the bid.

The calculator came in. I was not satisfied with its conditions either. The unit has been opened with tinkering inside. There were many scratches on the keyboard label, it has been unnecessary lifted off to open the case, I guess. None of those were specified in the ad.

I've talk to the seller & we've had agreements : I've fixed everything, cleaned and made all setup to make life easier for him relisting the unit before sending the calculator back . A week after returning the item, I've got the full refund and surprising enough,.. an extra \$ as payment for my efforts spent repairing his unit.

It cheers me up to know that there are still some nice honest people in the world and specially on ebay.

HTH,

Pyerre

Re: Try agreements first

Message #10 Posted by [Erich Neubacher \(Germany\)](#) on 12 Jan 2003, 5:59 p.m.,
in response to message #9 by Pyerre

Exactly this is my message....calc-sellers and calc-buyers are marvellous women/men.

This is one of my ebay-stories:

I bought a HP-41CX. When I received the item, I played around....it works....and I give positive feedback. Some minutes later I discovered that one side was open and the machine doesn't work if I pressed this side. Hmmm, got very angry (about myself <g> for buying this calc [because the description said nothing about the condition of the item]. But I decided to COMMUNICATE to the seller. And surprise, surprise, he answered, and he was a very nice man. He refunded a significant amount to me. I send the machine to Daniel Diggelmann, Swiss (well known, I suppose). He was aware of this flaw. Now the machine works like new :)) At last I think, it was a bargain to me.

Don't accuse the sellers for our lust.

(h)appy (p)rogramming.....Erich N.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-17BII and 19BII Applications

Message #1 Posted by [Gordon Dyer](#) on 11 Jan 2003, 4:01 p.m.

For those of you who use these calculators, here is a page of useful applications from HP:

[http://h20015.www2.hp.com/en/documentIndex.jhtml?](http://h20015.www2.hp.com/en/documentIndex.jhtml?reg=nam&cc=us&pagetype=11800568&prodId=hp17biifin81577&lc=en&docparent=11800567&cat=TASK_USE)

[reg=nam&cc=us&pagetype=11800568&prodId=hp17biifin81577&lc=en&docparent=11800567&cat=TASK_USE](http://h20015.www2.hp.com/en/documentIndex.jhtml?reg=nam&cc=us&pagetype=11800568&prodId=hp17biifin81577&lc=en&docparent=11800567&cat=TASK_USE)

Hope it is useful, I grabbed them quickly as I feel the page may disappear!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Petroleum Fluids Pac unt conversion

Message #1 Posted by [David Erdman](#) on 11 Jan 2003, 12:48 p.m.

Hi all. I recently came in possession of a Petroleum Fluids Pac without a manual. I really only purchased it because of the unit conversions. The only problem is I don't know what function starts the unit conversion! Does anyone know how to get it working? Thanks

Re: Petroleum Fluids Pac unt conversion

Message #2 Posted by [DE](#) on 11 Jan 2003, 2:06 p.m.,
in response to message #1 by David Erdman

okay, i found the function! But I want to copy it to extended memory on a 41cx, but (the function is CON) when I try to copy CON to main memory, I get nonexistent? how would I get around this? it must be existant because I can run it from the module.....

Re: Petroleum Fluids Pac unt conversion

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 11 Jan 2003, 2:31 p.m.,
in response to message #2 by DE

Hi;

you can only copy a program from a ROM module to the calculator's RAM. If execute [CAT] 2, you'll see

CON

instead of

LBL 'CON

This means CON is a function and cannot be copied to RAM. That's why you have a [NONEXISTENT] message.

Cheers.

Re: Petroleum Fluids Pac unt conversion

*Message #4 Posted by [DE](#) on 11 Jan 2003, 2:42 p.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)*

So there is no way at all? could I hand copy the code into my hp-41 and save it as a function? I am dshort

Re: Petroleum Fluids Pac unt conversion

*Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 11 Jan 2003, 3:54 p.m.,
in response to message #4 by DE*

Hi;

as a function, instead of a program, CON cannot be listed in the display.

You can list almost everything in the Petroleum Fluid module except for:

CZ
CCR
CON
INCON

All others, since LBL'Z to LBL'INU can be copied into RAM and listed, printed, altered, saved in magnetic cards, etc, as an ordinary program. CON is treated by the calculator's operating system as SIN or LN. They cannot be listed as an ordinary program.

Unfortunately.

Best regards.

Re: Petroleum Fluids Pac unt conversion

*Message #6 Posted by [Juan J](#) on 12 Jan 2003, 11:33 a.m.,
in response to message #5 by Vieira, Luiz C. (Brazil)*

CZ, CCR, Con and INCON are written in 41's M-code, so they cannot be accessed by the user. Regarding CON and INCON, make sur the units are spelled correctlty (i.e., PSI-ATM to convert between psi and atm) and always separated by a dash.

Unless you have a RAMBOX or an HEPAX module, it's better to keep the module plugged to the calculator, as I do with mine. It's a great addition!

Feel free to e-mail me for a units listing and some rules to follow when converting units.

Re: Petroleum Fluids Pac unt conversion

*Message #7 Posted by [DE](#) on 12 Jan 2003, 9:59 p.m.,
in response to message #6 by Juan J*

Darn.....I use 6 modules total, and want to get rid of the petroleum one because all I need from it are the units.

is some sort of copy protection?

Re: Petroleum Fluids Pac unt conversion

*Message #8 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 12 Jan 2003, 10:36 p.m.,
in response to message #7 by DE*

Hi;

do you have an extension for the HP41 ports? I'm a lot curious and I would like to know how does it look like.

Mine are conventional, 4-places ports.

About CON and any other HP41 function: the goal is not to protect the code itself, even if it is a consequence of the use of M-code (machine code). By using M-code, many internal resources are easily and directly accessible, being in some cases, unavailable for programs.

It's a fact that CON could be written as a program, but for sure it's functionality would be sacrificed somehow, and it would probably use resources that would be needed by other programs, like subroutine calls. Also, an equivalent program would be bigger than the function.

Cheers.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-21 CHARGER

Message #1 Posted by [jia](#) on 11 Jan 2003, 11:33 a.m.

I have got a HP-21 in mint condition but the charger is missing.

Could anybody give me any information of the output voltage of the transformer? is it AC or DC?

I have the charger of the hp-33E. Does anybody know if it works with the hp-21 (changing the connector, of course)?

Thanks in advance

Jon

Re: HP-21 CHARGER

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 11 Jan 2003, 12:57 p.m.,
in response to message #1 by jia

Hi;

AC adapters for the HP3x (Spice) series are rated ~9VAC, .8W output and 3W input. I remember I had an original HP25 AC adapter and I compared specs and measured the output voltage (in the 80's, I did not take notes...), but I remember the specs for both adapters were compatible.

I use an original Spice AC adapter in my HP25 for more than 9 years and it works fine, charges fine. But you mentioned a charger: do you mean external charger or AC adapter?

One suggestion: if you are going to use the HP3x series AC adapter, do not cut the connector off. Instead, open the AC adapter, remove original cord and connector, keep it and solder another cord. If later, by any reason, you find an original Woodstock (HP2x series) that fits in the HP25, you can trade it for your "still" original Spice adapter, provided you will restore its original cord and connector. Or even sell it.

Success.

Re: HP-21 CHARGER

*Message #3 Posted by [jia](#) on 11 Jan 2003, 5:47 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Dear Vieira:

Thank's for your fast answer.

I'm afraid my english is not good enough so I will try to clarify my question:

I need charging the NiCd battery inside the HP-21 and I only have a HP-33E adapter 82090B(9VAC 0.9VA). I think I can connect it to the HP-21 plug just changing the connector. I have visited the HPMuseum main page and both calculators are supposed to use the same adapter, but they say both are 10VAC 1.8VA, and as I said I have the original one for the HP-33E and it is 9VAC 0.9VA...

I don't want to destroy my "new calculator". It works great with no rechargeable batteries

Jon

Re: HP-21 CHARGER

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 11 Jan 2003, 7:26 p.m.,
in response to message #3 by jia*

Hi;

I think I understood you in your first post. What you wrote now makes me believe I understood you alright. Maybe I was the one who did not write well... ;-)

I use the Brazilian AC adapter that used to come with the HP3x series sold here (HP31, 32, 33, 34, 38). They all share the same AC adapter model. Mine has ID # 82119B and has a 115 - 230 Vac input select switch and delivers 9.1 Vac (I measured it right now) with a maximum of .9 Watts output power (written on it). I've been using this AC adapter in my HP25 for more than 9 years and the calculator works fine. The HP25 originally uses the same AC adapter that comes with the HP21, so I concluded the HP3x series' AC adapter would work with the HP21 as well.

About the connector: my suggestion was just to keep the original cord for future

restoring.

I remember I measured the output voltage from an original HP2x AC adapter and it looked fine for me using the HP3x series adapter. Maybe I thought, at that time, that the 1 Vac difference from both adapters would not be representative for the internal HP2x (woodstock) charger circuitry.

Is it O.K. for you? My HP25 still charges the batteries (they get a bit warm when charging) and works till they are exhausted. Also, the AC adapter itself works smoothly, gets a little bit warm.

Hope it helps. Anyway, if you still feel you should have more answers (and the best policy is waiting for other posts), wait a little more or post again. I'd do that; this little babe demands caution, it's a rare, reliable and well-featured tool.

Best regards and success.

Re: HP-21 CHARGER

*Message #5 Posted by [David Smith](#) on 11 Jan 2003, 7:20 p.m.,
in response to message #1 by jia*

You should try to get a real Woodstock adapter. They show up on Ebay quite regularly (\$10-\$25). The Woodstock charge circuit is much cruder than the Spice one. The Spice adapter puts out a higher voltage than the Woodstock and could possibly damage it.

Board for printer you find?

*Message #6 Posted by [Frederic](#) on 11 Jan 2003, 8:59 p.m.,
in response to message #5 by David Smith*

Hi there, did you read my post, i have the broken printer and you have a board. The version i have is the chromed timing wheel the same side of the strap.

thank you :)

Re: HP-21 CHARGER

*Message #7 Posted by [Tony Duell \(UK\)](#) on 12 Jan 2003, 6:42 p.m.,
in response to message #5 by David Smith*

Actually, the internal charger circuit (inside the calculator, between the plug and the NiCd battery) is the same for both the Woodstock and Spice models (it consists of a single diode and a 8.2 Ohm resistor in series). The batteries are also electrically the same (2 AA NiCd cells in series), which leads me to suspect that the same AC adapter (charger) can be used on both series. I have done electrical tests on a variety of HP chargers (measuring the output voltage with different load resistors), and the characteristics of the Woodstock and Spice chargers are much the same -- About 10V open-circuit, and an internal resistance of around 13 ohms. (Incidentally, I made these measurements using a 3421 data logger -- the digital output of the 3421 drove some relays to switch in a resistor chain, and the 3421 measured the voltage. All controlled by one of my HP71s...) Finally, I charged my Spice calculators using a modified (changed cable) Woodstock charger for a time, before I got a 240V input Spice charger. My tests, therefore, suggest that these 2 families of chargers are electrically interchangeable.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-42S Versions, ROMs and Bugs

Message #1 Posted by [Gordon Dyer](#) on 11 Jan 2003, 8:17 a.m.

Can anyone give me some details abobut 42S versions, date codes, ROMs and bugs?
I would like to buy one and am not too sure which to go for (if I have a choice).
I prefer the older keyboard feel but dont want any serious ROM bugs, so any info owuld be appreciated.

Re: HP-42S Versions, ROMs and Bugs

Message #2 Posted by [Randy Sloyer\(US\)](#) on 11 Jan 2003, 8:25 a.m.,
in response to message #1 by Gordon Dyer

Rom bug list is here:

<http://www.finseth.com/~fin/hpdata/hp42s.html>

IMHO, I would go for an early Singapore unit (1990-1992) because these have:

1. No double lens to collect dirt. 2. Good keyboard feel.

Good hunting.

Early HP-42S calcs could also run at 2X under program control!

*Message #3 Posted by [Gene](#) on 11 Jan 2003, 9:38 a.m.,
in response to message #2 by Randy Sloyer(US)*

I have a program called "FAST" in my calculator that changes the speed constant to run the HP-42S at 2X speed.

This only works with the first year or so of HP-42S machines.

See:

<http://www.rskey.org/gene/hpgene/hp42fast.htm>

for more information.

Re: Early HP-42S calcs could also run at 2X under program control!

*Message #4 Posted by [Erich Neubacher \(Germany\)](#) on 11 Jan 2003, 1:46 p.m.,
in response to message #3 by Gene*

hurra, it work's on my machine.

More of these hidden features !!!

BTW is it true that this acceleration also speeds up the energy consumption ?

happy programming.....Erich N.

Re: Early HP-42S calcs could also run at 2X under program control!

*Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 11 Jan 2003, 2:23 p.m.,
in response to message #4 by Erich Neubacher (Germany)*

You bet... Nothing comes for free when energy is the issue.

Re: Early HP-42S calcs could also run at 2X under program control!

Message #6 Posted by [Erich Neubacher \(Germany\)](#) on 11 Jan 2003, 3:53 p.m.,
in response to message #5 by Vieira, Luiz C. (Brazil)

If this is the money, I've to pay....so be it.

happy programming.....Erich N.

Re: Early HP-42S calcs could also run at 2X under program control!

Message #7 Posted by [Gene](#) on 11 Jan 2003, 4:47 p.m.,
in response to message #6 by Erich Neubacher (Germany)

You can also set the HP-42S to run as slow as possible too. You wouldn't notice it when doing calculations, but it would really really lengthen the battery life. :-)

Later model HP-42S calculators can do this speed up MANUALLY by entering the debugger and changing the value as indicated, but they must do it every time the calculator is turned on.

The good thing about the early HP-42S is that it can use this program. I made sure that I used the program by putting "SF 11 ; OFF" as the first 2 lines. Then when I turn the 42S off, the first thing it does when I turn it back on is finish running the fast program.

Always at 2X.

Really makes some of the longer HP-41 style programs, such as Othello, really nice to use.

Enjoy. Gene

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

48/49 Programing Question

Message #1 Posted by [Stan \(Sg\)](#) on 11 Jan 2003, 7:39 a.m.

I have written a program that returns a numeric result with a unit attached to it (eg 0.8_yr). I would like to have the program leave the calculator in the units menu under the appropriate type of unit so I wont have to hit "-> Units Time" to convert to some other unit. How can I do this?

PS: I am currently working with an HP 49G with the flags configured to use HP 48GX type menus (ie soft keys not lists). Also, please comment if the programing commands that do this are different on a 48GX.

Re: 48/49 Programing Question

Message #2 Posted by [R Lion](#) on 11 Jan 2003, 8:21 a.m.,
in response to message #1 by Stan (Sg)

46 MENU

Re: 48/49 Programing Question

Message #3 Posted by [Stan \(Sg\)](#) on 11 Jan 2003, 8:43 a.m.,
in response to message #2 by R Lion

Thanks for the quick response. Is there a list of menus in the 49G users guide that I have missed?

Re: 48/49 Programing Question

Message #4 Posted by [R Lion](#) on 11 Jan 2003, 9:16 a.m.,
in response to message #3 by Stan (Sg)

I don't know the 49's docs. Ther is that list in my 48GX AUR. Email me if you are interested. Try this link for download some good info about many 48 commands: <http://www.hp48.org/hp48/docs/programming/hp48gaur.zip>

Raul

Re: 48/49 Programing Question

Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 11 Jan 2003, 9:51 a.m.,
in response to message #3 by Stan (Sg)

Hi;

adding to what Raul posted, I usually go to the 49G's Pocket Guide. The one that came with mine is heavily based (if no copied...) in Coffin's 48G/GX Pocket Guide. At least, the 49G's guide does not have his name, only HP's.

AFAIR, it does not have a list of the 49G's menus as found in the 48G's AUR manual, p. 3-187, under MENU, where the function is described and a list of all menus and their numbers is shown. They are valid for the HP49G as well.

My US\$ 0.25.

Cheers.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

pi sin() on HP-32S?

Message #1 Posted by [K. Crowe](#) on 10 Jan 2003, 8:28 p.m.

When I take the sin of pi on my HP 32S, in RAD mode, I dont get an answer of 0. The answer I get is -2.067154E-13. I also get the same answer with my 49G, but on my 30S i get exactly 0.

Re: pi sin() on HP-32S?

Message #2 Posted by [Daniel Kekez](#) on 10 Jan 2003, 8:39 p.m.,
in response to message #1 by K. Crowe

On my 32SII, the sine of pi is -2.06761537357e-13. Under "Answers to Common Questions" in Appendix A of the manual:

Q: Why does calculating the sine (or tangent) of pi radians display a very small number instead of 0?

A: pi cannot be represented *exactly* with the 12-digit precision of the calculator.

Re: pi sin() on HP-32S?

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Jan 2003, 10:57 p.m.,
in response to message #1 by K. Crowe

Hi;

The HP30S is not an HP original design. The HP32S is.

As correctly mentioned by Daniel Kekez, if you compute $\sin(3.14159265359xxx)$ you should have -2.0671537357E-13 as an answer, and that's what's shown in the HP42S in FIX 11. The xxx were added to remind the HP42S works with 15 digits internally.

The HP30S answer is wrong OR uses an approximation algorithm that is not explicitly shown.

I agree with the HP32S answer. The HP30S chip designers may not care for this. And HP seems not to care, too.

Cheers.

Re: pi sin() on HP-32S?

Message #4 Posted by [Mike Sebastian \(Texas\)](#) on 11 Jan 2003, 12:17 p.m.,
in response to message #1 by K. Crowe

The HP30S appears to perform its calculations in binary, instead of BCD (Binary Coded Decimal), and appears to calculate the results of its transcendental functions to about 24 digits of precision. I believe it also utilizes a more sophisticated rounding process than that found on other calculators.

The HP30S was designed as a calculator for classroom use, and roundoff errors from normal floating point calculations can cause confusion for many students. Hence, the extended precision and more sophisticated rounding algorithms to provide "exact" answers.

For more information on the varying precision and algorithm quality of various scientific calculators, check out the [calculator forensics](#) pages on my web site.

Thank you.

Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 11 Jan 2003, 1:25 p.m.,
in response to message #4 by Mike Sebastian (Texas)

Hi;

I thought seriously about removing my post, but it's a good example of what happens when you do not know actual facts.

I felt a lot bad, but I learnet some new facts.

But I still believe students should know more about precision, mostly in trigonometric computations. It's a fact that the better precision is achieved when working with more internal digits, but do the students know about what happens if only the digits shown in the display are used?

I am a teacher and I call their attention for these facts, mostly for the ones attending classes for Computing Science.

Cheers and thank you for the good posts.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

possible to damage thermal module?

Message #1 Posted by [Richard C.](#) on 10 Jan 2003, 7:00 p.m.

I was fooling around and was trying to copy and modify the unit? program in the thermal pac. Is it possible to break the module? after a memory reset I tried to run the program off of the module and it is giving weird code.

Which calculator is yours?

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Jan 2003, 7:36 p.m.,
in response to message #1 by Richard C.

:~)

Re: Which calculator is yours?

Message #3 Posted by [Richard C.](#) on 10 Jan 2003, 8:25 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

a 41CX.

Re: Which calculator is yours?

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Jan 2003, 10:39 p.m.,
in response to message #3 by Richard C.

Hi;

let's see: you have a 41CX and the Thermal Module and you copied LBL "UNIT?" to RAM so you would change it or print it or whatever you want to. Than you made the changes you needed and, for some reason , you did not get the expected result so you reset the machine: [MEMORY LOST] in the display, right? After that you tried to use the programs in the Thermal Module and it behaves strangely. Is it correct?

The act of copying a program from a ROM module and altering its contents does not

affect the original program in the module. If you had successfully copied the program and the copy was still in RAM, I'd say that the copy is corrupted (by any reason). Also, trying to execute a function or program that exists in a ROM module from the keyboard when there is a program in RAM with the same name will cause the program in RAM to be executed instead of the ROM version. This is an internal rule that AFAIK is never bypassed. You can assign the ROM function or program to a key prior load the program with the same name and call the ROM version in USER mode or the RAM version by the keyboard.

Anyway this is not your case, as I see. What I think that must be done is switch the calculator OFF, remove the batteries, remove the module and wait for about ten minutes. At this time, if you have any, use a small brush with natural bristles and remove any dust inside the 41CX ports compartment and from the Thermal Module's contacts as well.

After this resting minutes, insert the module in another port. If all ports are in use and you can do it, trade places. I think it's a matter of bad connection.

If nothing of this gets your module back, chances are you have a bad connection between the IO/BATT assembly and the calculator's keyboard OR inside the module itself.

Let's first try the ten minutes resting and the cleaning procedure.

Hope you have success.

Luiz C. Vieira - Brazil

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

41CX on without display...

Message #1 Posted by [Michel Beaulieu](#) on 10 Jan 2003, 6:34 p.m.

Hi, my CX have a problem :if i push the on button, nothing appears on the display BUT i can hear the BEEP function and i can send, blindly, some sequence to the printer : what is the problemo?

Thanks!

Re: 41CX on without display...

Message #2 Posted by [David Smith](#) on 11 Jan 2003, 7:25 p.m.,
in response to message #1 by Michel Beaulieu

Probably a bad connection to the display module, some (usually invisible) contamination on the keyboard interconnect etches, or a bad display module itself. Also, does the display appear while a key is held down?

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-41 internal upgrade. ????

Message #1 Posted by [Daniel Sancho](#) on 10 Jan 2003, 6:23 p.m.

When I buyed my actual HP-41CV I find inside a circuit:

I put here two images: <http://www.teclas.org/HP-Question.htm>

Can anybody tell me what is? Thanks.

Daniel

Re: HP-41 internal upgrade. ????

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Jan 2003, 7:49 p.m.,
in response to message #1 by Daniel Sancho

Hi;

I am not sure about it, but the most common "upgrade" is the speed-up circuit. As the IC's are scraped and no ID to confirm, the best shot is to redraw the connections and check with the original (I should dig-in these five PC's and nine hard drives... but I'm needing it, too.)

Anyway, it's also normal to find a switch, usually a magnetic switch or a dip-switch, to "start" the faster clock. Have you found something like this? I also heard that, depending on the speed-up design, turning the calcualtor ON with an specific key pressed would toggle from speedy to normal.

Anyway, let's hear form the others. I'm curious, too.

Best regards.

Re: HP-41 internal upgrade. ????

Message #3 Posted by [Andreas Müller\(GER\)](#) on 11 Jan 2003, 4:24 p.m.,
in response to message #1 by Daniel Sancho

Hi Daniel,

try the hint of Luiz. Do a 'Beep'. Does your HP-41 'Beep' normal or faster? Then try to press 'Alpha' and 'User' at the same time. Do a 'Beep' again. Does the speed of the 'Beep' change? I think it should.

Best regards, Andreas

Re: HP-41 internal upgrade. ????

Message #4 Posted by [Daniel Sancho](#) on 11 Jan 2003, 5:19 p.m.,
in response to message #3 by Andreas Müller(GER)

Muito obrigado Luiz, vielen dank Andreas:

The problem is that I can not test it because I unsoldered this upgrade as you can see in the images. That's because I like to have the machines original. But I had curiosity to know if anybody was able to say me if it is an interesting upgrade.

was it a comercial upgrade, a kit,...?

Daniel

Re: HP-41 internal upgrade. ????

Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 11 Jan 2003, 7:02 p.m.,
in response to message #4 by Daniel Sancho

Hola, Daniel; mi placer poder ayudarle.

I'll post what I heard about it. I never had one of this, but I'll add one "turbo" add-on as soon as I have time to build one.

What I know is that:

- in some cases, it is incompatible with some clock-dependant devices; some 82104A card readers were mentioned as not working correctly with some speedy 41's
- it enhances power consumption, reducing battery life.

Other than these "features", it is harmless for the calculator itself.

About availability, I was also told that it was fairly available in Deutschland (your 41 came from there, right?) as a kit, not exactly as a "commercially available" merchandise. I saw some different "versions", one of them with a magnetic switch mounted inside the calculator, aligned with the middle frame. This way, a small magnet could be used to toggle from "speedy" to normal. Others, as mentioned, used dip switch or key combinations/sequences.

That's all I know from other contributors at the MoHPC.

Hope these informations are accurate (if I did not change them) and helpful.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

News from HP???

Message #1 Posted by [R Lion](#) on 10 Jan 2003, 3:36 p.m.

I copy here a today's post of comp.sys.hp48. Any comment? Raul

Hi all,

Today, after a dialog with my distributor (hp calculators) the last news are:

Well, at this time there is the possibility to get 49G with english manual, but the price is always the same one. There are also 48G+ in inventory as well as 48GX.

With regard to 19BII, aprox. in Julio a new version will come.

And in April the new version of 17BII is expected.

And a 12C Platinum also comes, for May aprox.

As for 49G with Spanish manuals, it is expected that a special production arrives in May.

!!** The one that will replace to 49G, aprox will come for August **!!

Those are the news and HP continues the production of 10BII, 12C, 30S.

Any comments??

Best Regards!! JoGa (joga52001@hotmail.com)

I don't believe it

Message #2 Posted by [gene](#) on 10 Jan 2003, 3:53 p.m.,
in response to message #1 by R Lion

I don't think they've had enough time/resources to really do something aka an HP-49G successor.

They have fewer resources now than they did in the past.

They are buying and rebadging/reselling other maker's calculators as their own.

How ghastly will a "platinum" HP-12C look with keys made like the HP-12C's look today?

I have little to NO hope that HP will ever again produce a calculator we would really want to own.

Sorry for the pessimism, but it's been earned, IMO. Gene

Re: I don't believe it

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Jan 2003, 5:40 p.m.,
in response to message #2 by gene

Hi, Gene;

maybe they are counting on Indonesian OEM... or there is already another OEM producing calculators, like that one who produces the 9G, and 9S, and the SPR400G...

Didn't Dave send those manuals there?

I agree with you if you consider internal resources...

Best regards.

Re: I don't believe it

Message #4 Posted by [Ernie Malaga](#) on 10 Jan 2003, 6:36 p.m.,
in response to message #2 by gene

>Sorry for the pessimism, but it's been earned, IMO.

Paraphrasing the saying, "Keeping up with the industry is like rowing a boat upstream: if you don't go forward, you go backward."

Regrettably, I think HP has been left way, way behind.

-Ernie

Re: I don't believe it

Message #5 Posted by [Stan \(Sg\)](#) on 11 Jan 2003, 7:59 a.m.,
in response to message #4 by Ernie Malaga

The best that I could hope for is a HP 49G repackaged with old style HP keys (like the 48 or better), a better screen (at least remove the screen cover) and less thickness (32/42S depth would be great, but that may be too much to hope for). I would like to shrink the length and width but that would force a complete rework of the keyboard and screen. Next on my list would be a faster processor, USB connection, bigger screen, touch screen, etc... but I think it is really unlikely that any of this will happen.

The 49G is a great machine ex-the physical packaging (keyboard, screen cover, etc...). If they can fix those issues, it would be a great machine.

Oh yeah, one more thing - update the 48 owners manuals and include them with the new machine. Some documentation - any documentation! Heck, put it on a CD rom and charge \$20 for a hard copy - I will pay, just don't sell me a 49G with a 6S users guide!

Re: I don't believe it

*Message #6 Posted by [Randy Sloyer\(US\)](#) on 11 Jan 2003, 8:14 a.m.,
in response to message #5 by Stan (Sg)*

Good point about the thickness. It is one of reasons I never liked the 48 series machines (in addition to the "designer color" keyboards).

The 48G and G+ where artificially fatter than needed to use the same case as the GX. Without the GX expansion module connector, it would have fit in a Pioneer thickness case. Perhaps the batteries still might be an issue, as the 48's draw about 5-7 ma, needing the AAA cells instead of watch cells, but that should be a solvable problem with the newer batteries out there today.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

How do I open HP-32S II Case??

Message #1 Posted by [Bill Hemphill](#) on 10 Jan 2003, 2:53 p.m.

A friend of mine has a 32S II that only works when it's cold. As soon as it heats up, it stops working. He's thinking it might be a bad connection and is wondering how to open the case to check.

Has anyone opened up a 32S II??

Thanks.

Re: How do I open HP-32S II Case??

Message #2 Posted by [Paul Brogger](#) on 10 Jan 2003, 3:53 p.m.,
in response to message #1 by Bill Hemphill

. . . This is where I usually chime in . . .

Article #[199](#) in the MoHPC "Articles Forum" includes detailed instructions on how to open any of the "Pioneer" line of calculators, including the HP-32SII.

No guarantees, but the [article](#) includes perspectives from two relatively experienced folks.

(If you've any questions, you can take the "NoHormel" out of the email address I provided above, and get in touch.)

Good Luck!

Re: How do I open HP-32S II Case??

*Message #3 Posted by [Bill Hemphill](#) on 10 Jan 2003, 4:28 p.m.,
in response to message #2 by Paul Brogger*

Thanks Paul. I could see the four under the battery cover, but I thought their might be some hidden ones. Now to see if we can get up the courage to give it a try.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

run away! run away!

Message #1 Posted by [Christof](#) on 10 Jan 2003, 2:51 a.m.

After a LOT of entertaining, not entertaining, and downright stupid (in some cases) life vents, my abrupt hiatus is over. if anyone is owed email or screws or photocopies or anything please email!

and no sooner do I return to life than a professor over at UC Davis gives me a 41C to fix for him (serno 2049Axxxxx). It's well cared for but heavily used, and I still like the keyboard much better than my late production 41CX machine. it's a very noticeable difference when you put them side by side.

so, when powered on, it most often displays either the X register or a semirandom pattern of something like , ,,,, (1234 PGRM ALPHA)

This does not hurt the function of the machine.

When you press alpha, it will temporarily blacken the right hand side of the lcd a bit. I'm thinking this is a pressure problem, but I'm not sure what the fix is, and I'd like a direction before I open it up.

I also am getting close to done with my "sanity project" - while doing all the travelling and funeraling and stressing I was building a text editor for the 42s with some basic "file" utils. text files are actually matrices in this case, as it seemed best.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

sending files emu48

Message #1 Posted by [lokhin](#) on 10 Jan 2003, 1:41 a.m.

hello all,

I have just installed emu48 1.30. It was configurated to emulate the hp 48gx. I wanted to send some files to it to install hp-42x emulator on it. how can I send files to the hp 48gx in the emulator?

I tried using hp48 explorer and set them up to work in the same port. put hp 48 explorer gave an error message saying that access was denied. what should I do?

thanks

-lokhin

Re: sending files emu48

Message #2 Posted by [R Lion](#) on 10 Jan 2003, 2:02 a.m.,
in response to message #1 by lokhin

If you want to install a library in the emulator, just drag &drop the file to the emu window and you will see the library in level 1. Then do as in the real calc...

Raul

Re: sending files emu48

Message #3 Posted by [lokhin](#) on 10 Jan 2003, 2:55 a.m.,
in response to message #2 by R Lion

thank you very much, it works!

Re: sending files emu48

Message #4 Posted by [HrastProgrammer](#) on 10 Jan 2003, 2:38 a.m.,
in response to message #1 by lokhin

Where did you get the HP-42X? Is it a demo or full version?

Re: sending files emu48

Message #5 Posted by [lokhin](#) on 10 Jan 2003, 2:54 a.m.,
in response to message #4 by HrastProgrammer

it is the demo version you sent to me earlier

Re: sending files emu48

Message #6 Posted by [HrastProgrammer](#) on 10 Jan 2003, 3:01 a.m.,
in response to message #5 by lokhin

OK. I am not sending the demo versions so I don't know to whom they have been sent.
If you need further instructions feel free to contact me ...

Re: sending files emu48

Message #7 Posted by [Chan Tran](#) on 10 Jan 2003, 11:25 a.m.,
in response to message #6 by HrastProgrammer

I have a PC with 2 serial ports. I connect the two ports together and set Emu48 to use one port and the HPExplorer to use the other port. It works very well, exactly like you have a real HP48.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 32SII with the colors of purple and green

Message #1 Posted by [Ashley](#) on 9 Jan 2003, 10:03 p.m.

I am currently on my high school calculator applications team and I was given a HP 32SII calculator but it was different than our other ones. It had the exact same keys but the colors of the wording on it were purple and green. I lost it over the summer and my teacher told me that HP only made it for one year and it was worth over \$400. I find that hard to believe. Could anyone please tell me if that is true? If it isn't, what is the real value? Thanks for any kind of help. Ashley

Re: HP 32SII with the colors of purple and green

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 9 Jan 2003, 11:38 p.m.,
in response to message #1 by Ashley

Hi, Ashley.

In fact, HP kept producing the HP32S for three years and the HP32SII for more than ten years. And the US\$400,00 price was reached when the HP32SII stopped being produced, an artificial, collector's raised price. Average price during the last year of production was around US\$60,00. (the lower I saw for a new machine was US\$39.90)

Purple and cyan letters and corresponding shift-keys colors were added in the last series, same functionality instead. The only difference was the country where it was produced: Indonesia. It is also referred to as "silver-bezel type. Many users also complain for the quality and key-feeling. I did not use it yet, but I believe it's true, based in other Indonesian models I have.

The HP32S, a predecessor, was produced from 1988 to 1991. The HP32SII was introduced in 1991 and ceased production in 2002.

Hope this helps.

Best regards.

Luiz C. Vieira (Brazil)

Re: HP 32SII with the colors of purple and green

Message #3 Posted by [Paul Brogger](#) on 10 Jan 2003, 10:36 a.m.,
in response to message #1 by Ashley

Look on eBay (especially "Completed Items") for recent actual prices of HP-32SII's. I doubt many (if any) have gone for \$400.00 .

The value of a mass-produced item is generally what it takes to replace it, and I think you should be able to replace a 32SII for much less than \$400.

I should think that the colors on the keypad don't affect the calculator's utility for high school math. If your teacher is fixated on \$400, I've got a near-mint unit I'll gladly part with for that price . . .

Re: HP 32SII with the colors of purple and green

Message #4 Posted by [David Smith](#) on 10 Jan 2003, 4:08 p.m.,
in response to message #1 by Ashley

The machines with the purple and green keys were later production models. It is generally agreed that they were of much poorer quality compared to earlier ones.

Re: HP 32SII with the colors of purple and green

Message #5 Posted by [Kelvin Hunter](#) on 10 Jan 2003, 5:58 p.m.,
in response to message #4 by David Smith

I've got a recent HP32Sii, with green and white colours (made in Indonesia). I'm not sure if this is the same as previous references.

I can confirm that the keyboard quality is horrific. I believe this has been mentioned before, 'sticky keys' etc.

I used to have an HP-35, but lost it a while ago. The keyboard was _much_ better.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

virtual HP-41 r7

Message #1 Posted by [Michel Beaulieu](#) on 9 Jan 2003, 9:29 p.m.

I install this emulator and we can use the 41C rom or the 41CX rom. I have no problem yet with the 41C but with the 41CX i'm unable to "off" it with the button or with the XEQ OFF fct.

Another one; how to reset the calculator?

Thanks

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Good news from HP ?

Message #1 Posted by [pyerre](#) on 9 Jan 2003, 7:50 p.m.

Hello,

I've got this info from the comp.sys.hp48 :

<http://lists.handheld.org/pipermail/hhc/2002-October/000008.html>

Any thought ?

Pyerre

Re: Good news from HP ?

Message #2 Posted by [Glen Kilpatrick](#) on 9 Jan 2003, 8:49 p.m.,
in response to message #1 by pyerre

I rather liked <http://staging.porternovelli.com/sanfrancisco/ecards/hpcalc/> (pointed to by your URL).

But still, HP didn't get its "intensely loyal customers" by some web-based flash & sizzle (yeah, yeah, there wasn't a web then).

It's painfully obvious on the forum that we don't care if HP calcs are made on Venus by Martians, so long as they work well, contain RPN (well, maybe RPL), and have the legendary quality they once had. There was a long growth curve of better and more powerful calculators, and then the curve turned downward (we may differ on the year of the inflection point, but nobody says "better" nowadays).

The question is whether HP will earn its glory and top ranking again by creating a superior product, and I'm just not sanguine, not yet. But I am willing to wait, to see what rabbit pops out of the hat. And thanks, Pyerre for the reference.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-34C display problems

Message #1 Posted by [Don Davis](#) on 9 Jan 2003, 7:47 p.m.

I have a 34C in excellent physical condition. Judging by the weight and the very firm key action, I believe it is one of the models which has the chips held in place by a pressure plate or whatever, not soldered into place.

It works fine, except that occasionally one LED segment will go out. The same segment goes out on all digits simultaneously. The calculator still operates properly, and slightly squeezing or flexing the case just a tiny bit brings the segment back.

It seems likely that this could be due to a chip being slightly misaligned, or perhaps having a bit of oxidation or something on the leads.

1. Do the spice experts here think this would be a correct diagnosis?
2. How big a deal is it to disassemble and rectify such a problem?

Any advice is appreciated. Thanks, Don

Re: HP-34C display problems

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 9 Jan 2003, 8:14 p.m.,
in response to message #1 by Don Davis

Hi;

I disassembled a few Spices with bad contact. All of them, no exceptions, where the sandwich, no-solder, pressure type. Simply cleaning and in one case using a metal polisher solved the problem.

The good news for me about your post is that the same segment in all digits appear loose. The process to "lit" them up is called "multiplex(ing)" and the same segment in all digits share one common connection each. This reduces the number of "wires"(connections) for the display

segments (if you already know about this, just think it's for those who don't know, please...). This way, one single bad contact in one terminal of the display assy OR the control IC (CPU) is enough to cause the problem you describe.

If yours is a soldered-chips type (and I do not remember feeling differences from one type to the other... well, long time ago), no matter, too: resoldering terminals is not hard, too.

In both types, two major difficulties for those who have never done it before:

opening the calculators' case AND

disassembling the inside parts

If you already know how to do it, no matter. if you don't, it would be better to count on help from someone who have already done it. Just for making it easier.

Hope you have success.

Best regards.

HP-34C display problems; Spice disassembly

*Message #3 Posted by [Karl Schneider](#) on 10 Jan 2003, 2:35 a.m.,
in response to message #1 by Don Davis*

Don --

Luiz is right about the older-design units with pressed-together (instead of soldered) component leads being problematic. I have two older-design HP-34C's and one newer-design (soldered) unit. The older ones exhibited problems; the newer one has no problems and has a better key feel due to improved snap rings.

Here is a post of mine that tells you how to separate the case halves of a Spice unit without breaking anything:

[Spice disassembly](#)

Re: HP-34C display problems

*Message #4 Posted by [David Smith](#) on 10 Jan 2003, 4:12 p.m.,
in response to message #1 by Don Davis*

Before you open up the sandwich always record the position and orientation of the chips.
Otherwise it may not work when you put it back together.

Re: HP-34C display problems

*Message #5 Posted by [Don Davis](#) on 11 Jan 2003, 5:06 p.m.,
in response to message #4 by David Smith*

Thanks to everyone for the helpful advice. I'm going to try to take this apart and clean it a bit as soon as I have a little time when I won't be rushing through it.

regards, Don

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Here's the Free HP Stuff List!

Message #1 Posted by [Dave Hicks](#) on 9 Jan 2003, 7:10 p.m.

Hi everyone. The final DVD and 7 CD sets are finally done.

For those of you who contributed manual scans for CDs 6 and 7, here is a list of the items I have available. Please send me an email indicating which items you are most interested in. Please do this by assigning 100 points total to any subset of the items below. By total, I mean all of your points should add up to 100. You can assign 1 point to 100 items (in which case you'll get some random subset of those items) or you might assign 50 to one item and be very likely to get it, 30 to another and so on. I'll be deciding who gets what based on a combination of the point scores you've assigned and the amount of material you scanned versus other people with the same desires.

Please don't send me back this entire list - just trim it down to the items you have assigned points to.

Condition varies from NOS but with moderate to significant shelf wear on boxes to outright used. Some items are very heavy and I will ask you to pay the shipping. These are marked [heavy]. Some of these items have HP property tags, labels, and have words like "Technical Support" written on them. I have no idea which items work and which don't. Many of these items were known to work at some time in the past but then they were mixed together. Others came from HP or individuals who believe they worked, but I haven't tested them. Most are likely to work but everything is AS-IS. Any items, which are KNOWN to be dead, are marked.

I'll be shipping these items out anytime between now and March. There will be a lot of sorting and a lot of boxing so please be patient.

Further notes: my decisions final, not all items will be given away, not responsible for typographical errors, void where prohibited, employees of MoHPC or their families are not eligible, Rules of Acquisition may or may not apply, Odds of winning (something) approximately 1 in 1.

HP-65/67 Stuff:

HP-67 Stat pac. Inc. box manual, cards
 HP-65 Stat Pac 1 - cards only
 HP-67 Business pac. Looks complete
 HP-67/97 Standard Pac - bag of mag cards only
 HP-67 head cleaning card
 HP 67 blank cards (bag of 20)
 HP-67 Blank Program cards wallet
 HP 65 Pocket Instruction Card (mag card holder/program instructions)

HP-41C Stuff:

82242 IR module. NOS. (module only)
 82242 IR module. NOS. With Xeroxed (by HP) manual.
 82242 IR module. NOS. With original manual.

82220 HP-48SX overlay kit. Unopened.
82106 HP-41 Memory module
HP-41 Financial module (module only)
HP-41 Real Estate Pac - sealed - assumed complete
HP-41 Securities Pac - sealed - assumed complete
HP-75 Owner's manual (the larger HP-75 manual) (new/shrink-wrapped)
HP-75 Reference manual (new/shrink-wrapped)
HP-41 Navigation pac (module has dot-matrix label and is held together with tape - came from HP\ Includes box and manual. No overlays.
HP-41 3421 Data acquisition pac with box and manual. No overlays. Marked and barcoded HP technical support.
HP-41 Structural analysis pac. Appears complete.
Bunch of HP logos - the kind used on the front of the HP-48SX. About 2 dozen on a card.
HP-41 Surveying pac. Looks complete
HP-41 Surveying pac. Missing MODULE and box
HP-41 Clinical Lab pac Looks complete. Marked and barcoded HP tech support
HP-41 Machine Design pac. Looks complete. Barcoded.
HP-41C Thermal and Transport Science Pac. No overlays
HP-41 Math pac (box, module, manual)
HP-41 Games Pac - sealed - assumed complete
HP-41C Games pac. Looks complete. Barcoded and marked HP tech support.
HP-41C Games pac. Missing Box
HP-41CV Operation in Detail manual (shrink-wrapped)
HP-82161A Cassette Drive for 41C etc. Boxed with power supply, paper
HP-82161A Cassette Drive for 41C etc. All alone - no box, papers etc.
HP-82161A Cassette Drive Manual
Tape for 82161A - several - all used.
HP-82162A Printer. In box with manual.
HP-82143A Printer In box. No manual or power supply
HP 82160A HP-IL Module - looks complete
HP 82180A Extended Functions/Memory. Looks complete. Manual still shrink-wrapped.
HP 9114 floppy disk drive

Loose 41C modules:

Standard module only
Financial 1 module only
Stat 1 module only
Math 1 module only
Stress module only
Real Estate module only
Surveying 1 module only
Memory Module module only
Module Wallet

41C Keyboard overlays & protectors:

Standard Keyboard protector
Standard keyboard protector with BRIGHT orange keys (No frame just the thin plastic)
Golden Programmer (User's Program Library Europe)
Home Management pac overlay only
Math Pac overlay only
Survey Pac overlay only

Stopwatch overlay only
Financial Decisions overlay only
Clinical Lab overlay only
Plotter Module overlay only
Structures overlay only
Real Estate overlay only
Securities overlay only
Light Grey standard overlay
Stress overlay only
Structures/Stress overlay only
Games Pac overlay only
Circuit Analysis pack overlay only
Keypad overlay (I believe this is adhesive backed to repair a keypad.)

Other Keyboard overlays

48S 41C emulator overlay only
Survey Pro (48GX I think) overlay only
HP-41 overlay for HP-71B overlay only
Text Editor for HP-71B overlay only
Chary HP-18C alpha-keyboard overlay

HP-01 stuff – mostly New Old Stock stuff from HP

Black Leather strap with clasp and clasp stylus (NOS)
Brown Leather strap – just the leather pieces – no clasp
Stainless Steel bracelet/clasp/clasp stylus (NOS)
Gold plated bracelet/clasp/clasp stylus (NOS)
Gold plated clasp with clasp stylus
Stainless clasp with clasp stylus
O-ring
Battery replacement case (room for 5 batteries – empty) also opens case back
Set of case tools – used to assemble/disassemble HP-01 case
Set of strap pins
HP-01 assembly rings – these parts hold the case together
HP-01 Manual – used – marked "Please return to the repair station"
HP-01 Pen Stainless
Stainless clasp stylus (not inc the clasp.)
HP-01 pen with refill.

Misc. HP Stuff:

75C Barcode reader ROM
Box of dead 30 series calculators – about a dozen or so. Maybe fixable, maybe not.
HP-110 laptop computer. (worked last time I used it.) Comes with manual. Missing rubber feet and label on bottom.
Series 100 Software Library manual
Series 70 Visicalc.
Box of thermal paper
Loose roll of thermal paper
HP 9000 model 226 Computer. Well used, broken E key on numeric pad, noisy fan, BASIC comes up and runs. (very) [heavy]
Model 20 Math ROM and keyboard overlay (no manual)

Model 20 Peripheral control 1 ROM and keyboard overlay (no manual)
HP 9860 Marked Card Reader I/O Module.
HP 9860 Marked Card Reader[heavy]
HP 9820 Calculator/9862 Plotter I/O Module
HP 82937A HP-IB Interface
30 Series battery door.
41 Series N cell battery holder.
41 charger port cover
Classic Battery Door (olive)
65/67 Battery door (olive)
Classic Battery Door (black)
71B ROM slot cover
75C ROM slot cover
Series 80 ROM drawer cover

Manuals (only)

HP-25 Applications Programs manual only
HP-65 engr pac 1 manual only
HP-67/97 Math Pac 1 manual only
HP-67/97 M.E. Pac 1 manual only
HP-67 Stat Pac 1 manual only
HP-67 Math Pac manual only
HP-67 Standard Pac manual only
HP-41C Standard Applications manual only
HP-41C Math Pac manual only
HP-41 Advantage manual only
HP-41 Circuit Analysis Pac manual only
HP-41C Owner's Manual and Programming Guide
HP-41CV Owner's Manual Basic Operation
HP-75 Reference Manual
HP-75 Owner's Manual
HP 82160 HP-IL Module Owners manual only
HP 82168A Acoustic Coupler Owner's Manual
HP 82180 Extended Functions/Memory Module manual only
HP 82143A Printer Owner's Manual
HP 82104A Card Reader Manual

Chargers (All have US-style AC plugs except where noted)

82059B/C/D
82087B
82010A (European round style AC plug, 110/220V)

Security Cradles

Classic security cradle
Woodstock Security cradle

HP-related Books

Inside the HP-41C
Control the world with HP-IL

Misc non-HP stuff

Big bunch of slide rules [heavy]

Mystery bag of non-HP LED pocket calculators (From serious to amusing)

National Semiconductor Mathematician RPN Calculator

Novus Scientist PR RPN Calculator

Smoley's Five Decimal Logarithmic Trigonometric Tables

Calculating Machines – Spares misc etc. (Some of these machines are duplicates of machines shown in the pre-HP section – but these are typically less "museum quality". Still, they look pretty good for their age.)

Speedee Add-A-Matic (clear function is unreliable)

Bohn Context 55. Missing one plastic lever button cover [heavy]

Addac – big nice dial adder [heavy]

Monroe model 1 electric. Similar to one shown in musem with a few paint scuffs [heavy]

Todd Visible Adding Machine [heavy]

Burroughs... Similar to the one in the museum but has a crack in a glass plate and some paint loss. Still impressive [VERY] [heavy]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 32S Manual.

Message #1 Posted by [K. Crowe](#) on 9 Jan 2003, 5:54 p.m.

I bought a HP-32S off of ebay and the manual that came with it was french. I had no idea of this until I recieved it in the mail. I guess maybe I should have asked, but I didnt even this about it. I would buy the HP Museum cd of manuals but I already spent a lot on this calc and Im a engineering student without a lot of money. I would really like to have a manual. Could anyone send me a pdf file of the manual if they have it? Thanks.

Well I'm an unemployed engineer...

Message #2 Posted by [Dave Hicks](#) on 9 Jan 2003, 6:54 p.m.,
in response to message #1 by K. Crowe

with an ever diminishing investment portfolio who currently depends on CD sales to pay for the website.

I'll just point out here that the scans on the museum CDs are copyrighted and represent at lot of (very boring) work and leave it at that.

Re: Well I'm an unemployed engineer...

Message #3 Posted by [K. Crowe](#) on 9 Jan 2003, 7:17 p.m.,
in response to message #2 by Dave Hicks

Fair enough, thanks.

HP32SII Manual PDF file

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 9 Jan 2003, 8:00 p.m.,
in response to message #3 by K. Crowe*

Hi;

I'd HIGHLY recomend adding the (now) 7 CD pack to your CD library, if you allow me to. I have the earlier 5 CD pack and I'm finding a way out to upgrade it to the 7 CD (or DVD).

I know it's none of my business, but it is a bargain. Anyone who already have it will vouch me. So will you, as you get yours.

Don't blame me, just give yourself a try.

Cheers.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Calendar printing programs

Message #1 Posted by [Michel Beaulieu](#) on 9 Jan 2003, 5:50 p.m.

I read here and there that there was a competition between HP-41 programmers and TI-59 programmers long time ago about printing a one year calendar in less time as possible. I read that the competition, over the time, was won by HP.

I have those 2 units with their respective printer here waiting to replicate the competition final battle : to push the r/s button at the same time on each unit and see 70's in action!!!

But i have a problem, i'm unable to find the listing for the TI-59. I found a listing of the museum site but don't know if it's the "winning" one. Do someone still have these listings so i can start having retrofun!!!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

hp-41C memory modules

Message #1 Posted by [Drew Goodall](#) on 9 Jan 2003, 3:57 p.m.

can additional memory modules be added to an hp-41C with quad-memory already installed?

Thanks

Re: hp-41C memory modules

Message #2 Posted by [David Smith](#) on 9 Jan 2003, 4:38 p.m.,
in response to message #1 by Drew Goodall

No, only 4 mem modules or their equivalent is the max. You can add the extended functions/
memory modules to get a "ramdisk" sort of extra memory.

Re: hp-41C memory modules

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 9 Jan 2003, 4:44 p.m.,
in response to message #1 by Drew Goodall

Hi;

only the Extended Memory Modules can be added to an HP41CV OR an HP41C with the quad
memory; even the HP41CX accepts X-memory modules. Extended memory also needs the
Extended-memory functions set to be accessed. These X(tended)-functions already exist in the
standard HP41CX.

There is more information here, at the museum pages. Try [here](#) and scroll a few pages (6~9)
down under Updating the Architecture and you'll see a brief description of the Extended
Memory managment.

Hope it helps.

Best regards.

Re: hp-41C memory modules - to David

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 9 Jan 2003, 4:48 p.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)*

Hi, David;

as I was writing my post down, you posted yours.

Just to let you know (I write fast, but I have to spell check and verify if the text is readable and understanding... it is a bit time consuming, you know.)

I thought about removing my post, but I decided to keep it as complementary data.

O.K. for you?

Cheers.

Re: hp-41C memory modules - to David

*Message #5 Posted by [David Smith](#) on 10 Jan 2003, 4:15 p.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)*

The more answers to a question, the better.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Two interesting PPC TN articles

Message #1 Posted by [Ex-PPC member](#) on 9 Jan 2003, 7:40 a.m.

Hi, I've just found a couple of very interesting articles, in PDF format, and thought you might like to have a look at them, specially since vintage Australian publication PPC Technical Notes' issues aren't exactly easy to come by.

Chris Rath is the author of both articles, and these are his own descriptions and links. Best regards to all forum participants.

[Tic-Tac-Toe Algorithm & HP-41c Implementation](#) —published in PPC Technical Notes #13, late 1982. *I created this algorithm and code during early 1981 while learning to repair ground RADAR at the Canadian Armed Forces' Electronics School in Kingston. For many months I had been promising the PPC TN's editor that I would write up and submit an article; hence the gap between the writing of the program and the publication of the article.*

[HP-41c Microcode Programming](#) —published in PPC Technical Notes #15, early 1984. *In early 1983 I was invited to give a talk at an upcoming gathering of Hewlett-Packard calculator enthusiasts. Over the preceding couple of years a number of my letters and articles had been published in both The PPC Journal and PPC Technical Notes, and the primary focus of these writings had become microcode programming of the HP-41c calculator. This article is an annotated version of paper I wrote and presented at the Rhode Island conference on 1983/05/07–08 (the annotations are by John McGeachie and Michael Thompson).*

Re: Two interesting PPC TN articles

Message #2 Posted by [andy](#) on 9 Jan 2003, 9:19 a.m.,
in response to message #1 by Ex-PPC member

Do you have the rest of these PPC TN in .pdf format?

Andy

Re: Two interesting PPC TN articles

*Message #3 Posted by [Ex-PPC member](#) on 9 Jan 2003, 9:50 a.m.,
in response to message #2 by andy*

Sorry but no, those materials aren't mine, they reside in the Rath Family's web site, I just happened to find them while browsing the web, and thought it would be nice to share that finding with all the people in this forum.

Perhaps you could try contacting Chris Rath himself and ask him if he would be willing to make available more articles from the mythical and extremely hard-to-find PPC TN issues.

Best regards.

Please, Sir, I'd like some more, too...

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 9 Jan 2003, 2:49 p.m.,
in response to message #3 by Ex-PPC member*

Hi, Ex-PPC member;

good reading your posts again.

After reading briefly the Microcode-related PDF, I could understand some of the ROM listings. As you mentioned here, there is no more of it from the source you grab them, so I'll not ask for it.

Anyway, I'd like to thank you. As a "mysterious" fella, the HP41 internals (SW more than HW) still amuses us all since July 16th, 1979 (D.O.B., right?). And part of this is revealed now.

Best regards.

Re: Please, Sir, I'd like some more, too...

Message #5 Posted by [Ex-PPC member](#) on 10 Jan 2003, 11:05 a.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)

I've seen no other documents on 41C microcode in the web not already present on the usual sites, but perhaps you haven't seen these HPcalc-related .PDF documents yet:

[Introduction to Programming the HP48G/GX calculators](#)

An elementary introduction to programming the HP 48G and 48GX calculators, quite good and extensive. Includes lots of examples and exercise sets, ideal for newbies and teachers wanting to introduce their class to these powerful HP calculators. (25 pages)

[Newton's method on an HP48 calculator](#)

Newton's method on an HP48 calculator, using symbolic derivatives. Demonstrates nicely some of the advanced capabilities of the 48 series, including the use of the stack, symbolic computations, input forms, etc. (9 pages)

[Programs for the HP-28S](#)

An extensive collection of short, mathematical programs and routines in RPL for the HP28C/28S, probably also compatible with other RPL models. (17 pages)

Best regards.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

More shady e-bay behavior

Message #1 Posted by [Dave Mabry](#) on 9 Jan 2003, 7:31 a.m.

I'm just posting this for some opinions from the group here. This has me a bit peeved, but I'm not sure I'm justified. There was a HP-10C on E-bay a few weeks ago that I was interested in (as were many others, no doubt) and I had intended to watch the auction and bid if it didn't get too high. [Here is original auction.](#)

As you can see, the seller ended the auction early stating that there was an error in the listing. When I saw this I sent him an e-mail asking if he would tell me what the error was and if he was going to list it again. No reply.

Then I see one of the big HP calculator sellers list a suspiciously similar looking calculator.

[New listing of same calculator by different seller.](#)

If you look very closely at the photos of the back of this calculator in both auctions you can see a small scratch at the bottom center that looks to be identical. Couple that with the fact that the serial number had been obliterated in the same way on both and I think you will agree this is the same calculator.

Now, in my opinion, there was no error in the original listing. And the seller negotiated an "outside of ebay" sale to this guy who just buys and sells. This buyer's bid in the original auction was listed as \$199 and he "sold it now" for \$325.

I don't know why, but something about this bothers me. It probably isn't anything that e-bay would do anything about, especially since the guy who bought and resold the calculator has a perfect feedback and is one of their larger users. I think he frequents this forum as well. Maybe he has some comments on this.

What do you think?

Re: More shady e-bay behavior

Message #2 Posted by [Rick](#) on 9 Jan 2003, 10:55 a.m.,
in response to message #1 by Dave Mabry

Dave,

Good observation. It will be interesting to see the response from Mike. Also, are you aware of the connection between tomd and cjd55? A lot of shady things going on over on eBay.

One and the same, I suspect

Message #3 Posted by [Mike](#) on 9 Jan 2003, 11:15 a.m.,
in response to message #2 by Rick

I probably shouldn't respond but since I post regularly and because I believe that full disclosure is the key to a good reputation, I replied to the above, about my transaction (see other thread).

I suspect tomd and cjd55 are one and the same business. They are likely legit, different, accounts. I have seen nothing wrong in their bidding to suggest that the use of "shady" is appropriate here.

I, too, have been blocked by cjd55 for no apparent reason other than the emails I get from "tomd" as a reason.

I think we need to be careful with using words like "shady" or "illegal" until we know the facts.

Re: One and the same, I suspect

Message #4 Posted by [Rick](#) on 9 Jan 2003, 11:24 a.m.,
in response to message #3 by Mike

I agree - shady should not be used. Perhaps we should say the situations are interesting to look at. Do you have examples of the "nastygrams" mentioned earlier? I wouldn't mind seeing them.

Re: More shady e-bay behavior

*Message #5 Posted by [Ron Ross](#) on 9 Jan 2003, 11:28 a.m.,
in response to message #2 by Rick*

I have dealt with Tom D and he has ALWAYS been a fair and honest guy. I suspect he may have had to resort to another ebay name to help avoid the competition of bids. I guess (I have never) a name can be tracked and competitive bidding can then be a continual problem. ie. I know that Tom D has the same habit, same tastes, and searches certain models I might overlook. Also, if you visit long enough, you also KNOW their common stopping point. This allows you to do two things. One, just plain outbid them (ie an Hp 15c listed as an HP-15d and Tom finds by thorough search or accident). Or, second, JUST RUN THE BID UP!!! Because I THINK TOMD IS A JERK!!!(I am being sarcastic, to any who may mistake my statement) Both are good reasons for TomD to have another name as he has become so famous.

That is my take on why TomD may have a second name. I cannot say he has or that cjd55 is his or not.

Nothing "shady" at all

*Message #6 Posted by [Mike](#) on 9 Jan 2003, 11:02 a.m.,
in response to message #1 by Dave Mabry*

There was nothing shady about this at all. Certainly, not on my part. Why are you accusing me of something "shady?" If you recall, I was the high bidder at the time. I don't recall the price but it was a little under \$200.

The seller contacted me and asked if I wanted it at that price, since he was satisfied with the current bid. I guess he was in a hurry to get payment. It was just prior to Christmas you know. There is absolutely nothing wrong with ending an auction early. I have the emails, from eBay stating that "if you are satisfied with a bid, you can end an auction early." If if you want to see them.

Anyway, I said "sure." Wouldn't you? Then I paid him and he sent me the calculator the same day. He just ended it incorrectly, by accident I presume. I didn't even check until you posted this. It never was part of the deal that the auction be zeroed out. His emails clearly said "end it early." It should have just been ended. Mistakes happen.

If you have ever tried to end an auction early you will know what I mean about mistakes happening. The page where you end it has an item number field. When the next page comes up, if there are no bids, there is a button that says, "end your listing." That button looks like the one to press, just to end the auction.

But if there are bids, you see the same "End the listing" button. But if you scroll down a bit further, there is another button that says "sell the item." That button is easy to overlook. I did this a few times myself when I first started selling. It took me a while to figure out what was going on.

If you click the "End the listing" ebay's software will cancel all bids. If you click the "sell the item" it will just end the auction.

But, to accuse me of something shady is ridiculous, don't you think? I had no control of ending the auction. I did not end it. I was high bidder and accepted the seller's offer to end it early. I did nothing wrong, in this transaction. If there was anything done wrong, it was that the seller ended the listing incorrectly. Why are you accusing ME?

I paid almost \$200 + \$5 shipping. Added a brand new, never used, still in shrink \$50 manual and a new \$15 case. Everything was disclosed properly. I would have kept the calculator, except that it had the missing serial number, that was not disclosed. Ticked me off when I saw that.

What the hell is shady about this?

Re: Nothing "shady" at all

*Message #7 Posted by [Dave Mabry](#) on 9 Jan 2003, 8:09 p.m.,
in response to message #6 by Mike*

After reading my post I can see why you take offense to it, Mike. Believe it or not, I didn't think that your behavior was anything other than profiteering. And there is nothing wrong with that. So, please accept my apology for inferring that YOU were the shady one. That was not my intention.

The real behavior I was referring to was the seller you bought from. While you are correct that e-bay rules allow the seller to end an auction early, what he did was clearly against the rules. He ended the auction early and "negotiated and offsite sale". That is specifically prohibited.

You asked me if I wouldn't do the same as you, had he offered it to me. Probably I would have. But I doubt that I would have bought it and resold it for a quick profit. So, it is not fair of you to compare your motives to mine. Had I wanted to sell it because of the missing serial number my BIN price would have been what I paid for it.

I noticed the obliterated serial number in the original auction and sent him an e-mail asking

about it. As in my other e-mail, no reply.

I have ended an e-bay auction early, for a different reason, and as I recall I had to cancel each bid separately. This was some time ago, so it may be different now, but I wasn't confused by the rules or procedures. I doubt that the seller was intending anything by his actions other than avoiding e-bays fees. But, again, that is just my opinion.

To repeat, I am sorry to have inferred the shady behavior was on your part. That was not my intention. It was the seller's behavior that was shady.

Re: More shady e-bay behavior

Message #8 Posted by [Bill Wiese](#) on 9 Jan 2003, 1:49 p.m.,
in response to message #1 by Dave Mabry

I have dealt with Tom Drewski, chatted with him several times about calc issues, etc. and found him to be a nice, informed guy. He likes calculators. It IS a free market after all: if the seller decides to end the auction early and use his HP15C to prop up the low corner of his sofa, so be it.

One other comment (and this is NOT to reflect on the particular auctions under discussion): when an EBay auction ends early - other than thru the sanctioned "Buy It Now" expedient - the transaction is no longer protected by EBay rules and whatever protection EBay offers to buyers & sellers. It is essentially a private transaction, where the EBay listing was used to advertise it! (I suspect EBay may crack down on these if frequent enough).

Just read of a story recently in SJ Mercury News about a kid who buys/sells Apple Mac stuff on EBay. Purchaser offered an amount above current auction price (and reserve, etc) and to express a bank check if kid would kill auction early. Kid did that, and got a bogus bank check, not detected til it failed to clear. (Happy ending: kid enlisted a bunch of Mac friends around the country, did some sleuthing, and they caught the guy in IL - he was a serial EBay fraudster.)

Bill Wiese San Jose, CA

Re: More shady e-bay behavior

*Message #9 Posted by [Frank](#) on 10 Jan 2003, 7:34 a.m.,
in response to message #8 by Bill Wiese*

I would agree with the comments praising Tom D., I have always found him very trustworthy and if anything, overwilling to help other collectors at his expense. He is not about profiteering, just collecting as a hobby and an interest. Anything he might happen to make on something which I think is rare, he either later gives away or puts right back in the collection. He is not known to sell alot on ebay, btw. Regards!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 15C

Message #1 Posted by [Keith Ball](#) on 8 Jan 2003, 8:44 p.m.

I left my HP15C unused for several months and now cannot get it to work. I have replaced the batteries but cannot get a display. The batteries had not leaked and there is no physical damage to the calculator. I have tried shorting out the battery terminals as per HP recommendation but this has not worked. Can anyone give any guidance?

Re: HP 15C

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 8 Jan 2003, 9:44 p.m.,
in response to message #1 by Keith Ball

Hi;

the only other "external" procedure, if you did not try it yet, is pressing [ON] and [y^x] simultaneously. You can find this procedure in page 263 (Rev. E, Feb. 1984 edition) under Verifying Proper Operation. The first step is exactly this.

If you have already tried this procedure, it's necessary to open the calculator because it probably need service. BTW, do you know/remember when it was bought? Can you post its serial #? That will help identifying which internal PCB does it have.

In many cases, simply re-soldering IC's terminals is enough to bring it back to life.

Success!

Re: HP 15C

*Message #3 Posted by [OJM](#) on 9 Jan 2003, 11:33 a.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Before opening up the HP15C for surgery, there is one other possibility for this HP15C behavior. A fellow engineer in my office tried to resuscitate his HP15C with new batteries after a long hibernation, but after installing a new set of cells, he couldn't get it to start up, even after trying the various reset keystrokes and shorting the battery terminals. As a last resort, we switched batteries with those from my own HP15C, and his calculator started right up. The only difference we could find was that the new cells he had purchased were silver-oxide cells (SR44) while the cells I had in my calculator were alkaline cells (LR44). There is a slight difference in voltage, with the silver oxide cells having an open-circuit voltage of 1.55 -1.60 volts, while the alkaline cells have the typical 1.50 volts. Apparently his calculator did not like the slightly higher total voltage. My calculator, strangely, didn't seem to mind. We checked to make sure it wasn't a problem with dirty contacts, etc. so this was a little strange. You may wish to check which kind of cell you are using in the calculator, just in case.

Battery voltage

*Message #4 Posted by [Karl Schneider](#) on 10 Jan 2003, 1:53 a.m.,
in response to message #3 by OJM*

I'm not so sure that differing voltages of 1.55-1.60 V versus 1.50 V should make any difference. I've found that any fresh cell, no matter what chemistry, will have a voltage slightly higher than rated value. 1.58 V is about right for a 1.5 V cell.

Re: HP 15C

*Message #5 Posted by [R Lion](#) on 10 Jan 2003, 2:10 a.m.,
in response to message #3 by OJM*

Very strange, because if I'm not wrong, the 15c was sold with silver oxide batteries... The mine is running on this type of batteries.

Raul

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Timer-Problems with virtual 41CX (Stopwatch)

Message #1 Posted by [Simon Strach](#) on 8 Jan 2003, 7:49 p.m.

(Does anyone in this forum has an idea to fix this problem)

Quoting an email to Warren Furlow:

Dear Warren,

the VR7 ist the best emulation of the 41 yet, I tried several different too.

But there seems to be a problem with the Time-Module (all of them, I tried several combinations).

I need to build a countdown-timer for last second bids in EBAY, e.g.

-5 SETSW RUNSW SW

Result on my Real 41CX:

-04:59:59.9 and counting UP

Result on Virtual 41CX:

00:00:00.00 and counting UP

So the timer on the VR7 doesn't seem to carry the negative sign, instead immediatly zeroes the SW and counts up.

You might like to try Yourself.

Is there a fix or a workaround for this?

I'd be looking forward to hear from you soon,

Yours, Simon Strach, Koeln, Germany

P.S: Here is the listing I had to do on the VR7 to circumvent this problem, which of course is not as elegant:

```
01 LBL "EBAY" 02 CLRALMS 03 FIX 04 04 "TIME ENDING?" 05 PROMPT 06 STO 00 07
"DAY ENDING?" 08 PROMPT 09 DATE 10 INT 11 - 12 24 13 * 14 ST+ 00 15 RCL 00 16 .05 17
HMS- 18 STO 99 19 CLST 20 RCL 99 21 "^^" 22 XYZALM 23 "WAIT" 24 AVIEW 25 STOP 26 9
27 STO 70 28 LBL 70 29 TONE IND 70 30 DSE 70 31 GTO 70 32 LBL 01 33 RCL 00 34 TIME 35
HMS- 36 X<0? 37 GTO 10 38 VIEW X 39 GTO 01 40 LBL 10 41 CLX 42 FIX 02 43 " END" 44
AVIEW 45 END
```

Re: Timer-Problems with virtual 41CX (Stopwatch)

Message #2 Posted by [Christoph Giesselink](#) on 9 Jan 2003, 1:40 p.m.,
in response to message #1 by Simon Strach

That

-5 SETSW RUNSW SW

fails is a bug in the V41 rev. 7A/8BETA1 sources.

The bug is in modul *HP41Kernel.cpp*.

In function *A_TimerProc()* the line

if (pThis->a_time>99999999999999)

must be replaced with

if (pThis->a_time>99999999999999)

and in function *B_TimerProc()* the line

if (pThis->b_time>99999999999999)

must be replaced with

if (pThis->b_time>99999999999999)

. After the changes the program above works like expected.

Patching the V41.EXE Release 7A file with a HEX editor:

Addr	old	new
A6E3:	18 ->	F3
A6E4:	09 ->	5A
A6EE:	9F ->	3F
A6EF:	72 ->	7A
A6F0:	4E ->	10
A873:	18 ->	F3
A874:	09 ->	5A
A87E:	9F ->	3F
A87F:	72 ->	7A
A870:	4E ->	10

Greetings from the Champion/Lewis/Clarke/Yorke chip emulation specialist ;-)

Christoph

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

August 1979 PPC Calculator Journal

Message #1 Posted by [Jeff](#) on 8 Jan 2003, 6:30 p.m.

I am looking for the following information from the August 1979 PPC Calculator Journal. Detailed Byte structure to construct compiled GTO's and XEQ's. Is there some place where I can download this document? Jeff

Re: August 1979 PPC Calculator Journal

Message #2 Posted by [Ernie Malaga](#) on 9 Jan 2003, 12:32 a.m.,
in response to message #1 by Jeff

Jeff: You owe it to yourself to buy the PPC CDs. Among other things, they contain the _entire_ collection of PPC journals in PDF format.

Now to answer your question, here's an excerpt from V6N5P21:

- - - - -

Three byte local GTO's and local executes contain one byte from the Postfix Table which specifies the label of interest. The remaining bits are used to remember the address of the label once it has been found by a LBL search. This technique allows improved execution speed since the slow label search process is only done once. On all subsequent executions of the GTO or XEQ function the location of the label is known and no search is needed.

A three byte GTO 22 instruction has the following form immediately after it has been keyed into program memory:

Function Byte 1 Byte 2 Byte 3

GTO 22 D0 00 16

If LBL 22 was the third byte of a register, 30 registers away from the GTO 22 instruction, the GTO 22 would have the following form after being executed:

Function Byte 1 Byte 2 Byte 3

GTO 22 D6 16 16

If the three bytes are put end to end, the entire instruction may be viewed as:

[Diagram comes here.]

Thus the first four bits give the type of instruction (GTO), the next three bits give the location of the LBL within the register where it is stored, the next nine bits give the distance from the GTO to that register, the next bit tells whether the register is before or after the GTO and the last seven bits retain the name of the LBL. The name of the LBL must be retained in case program modifications invalidate the address retained in the first two bytes. Any addition or deletion of program steps sets all address bits in all GTO's and XEQ's to zero.

The local XEQ function is analogous except that the first four bits are hexadecimal E instead of D.

- - - - -

I hope I didn't make any mistakes while retyping that!

X<>Y

-Ernie (6594)

Re: August 1979 PPC Calculator Journal

*Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 9 Jan 2003, 1:26 a.m.,
in response to message #2 by Ernie Malaga*

Hi, Ernie;

my questions go a bit beyond. If someone is building a program for the HP41 and want to record it in a custom ROM module, does the final program keep orginal byte-equivalence with the same program in RAM? As the ALPHA global labels need specific definition, what's the structure needed to record "XROM" labels? How to make them "visible" for the O.S.?

Is this sort of information easy to find?

Re: August 1979 PPC Calculator Journal

Message #4 Posted by [Ernie Malaga](#) on 9 Jan 2003, 9:32 a.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)

>If someone is building a program for the HP41 and want to record it in a custom ROM module, does the final program keep original byte-equivalence with the same program in RAM?

Yes. Byte counts remain the same. That's the reason why HP decided to record distances between GTO and LBL, not absolute addresses.

>As the ALPHA global labels need specific definition, what's the structure needed to record "XROM" labels? How to make them "visible" for the O.S.?

Alpha labels are always searched, as far as I remember, beginning with the .END. and going _upwards_ (i.e., the opposite direction of search for compiled GTOs). Alpha labels in ROM become "visible" automatically when the module is plugged in and the calculator is powered up. At this time, also, all XROM mm,nn instructions reveal their true identity, such as PRPLOT or 7P<>S.

-Ernie

Re: August 1979 PPC Calculator Journal

Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 9 Jan 2003, 9:42 a.m.,
in response to message #4 by Ernie Malaga

Hi, Ernie;

You wrote:

> At this time, also, all XROM mm,nn instructions reveal their true identity, such as PRPLOT or 7P<>S.

That's still intriguing: how does the system connect an XROM mm,nn to a LBL'name inside the module? I know it's the same "procedure" taken when "connecting" an XROM mm,nn to a function name built into a ROM module. For that, the ROM must keep a reference table, with the function name as an ASCII sequence and it's XROM reference, right?

That's why I asked about the ROM structure for a program. If it's the same as the RAM structure, the ROM program would be recognized as a user program, not a

ROM program. I thought all ALPHA global names in programs contained in ROM modules were different, with a different code, so they could be "seen" by the O.S. as an XROM call instead of a LBL call.

Am I reasoning correctly? What did I miss?

Thank you for your answer.

Re: August 1979 PPC Calculator Journal

*Message #6 Posted by [Meindert Kuipers](#) on 9 Jan 2003, 11:35 a.m.,
in response to message #5 by Vieira, Luiz C. (Brazil)*

XROM mm,nn instructions refer to the FAT at the beginning of a ROM Module. If I am correct one bit in the FAT indicates if it is a user program or Mcode (I do not have all the docs at hand). The FAT is actually a collection of pointers to ROM locations, which can be a label in a user program, where the name is read from. Multiple Alpha labels in a single user program can exist in the FAT (the PPC ROM uses this frequently. I am not certain if an Alpha label can be used inside an ROM that does not appear in the FAT. Actually, if you do a CAT 2, the machine runs through all FATs and find the string for it.

There is no cross reference table in a ROM. If you type an XEQ "ROM LABEL NAME" all ROMS are searched for this label using the FAT and will be decoded to an XROM mm,nn. If you have the XROM number, the '41 only has to look at the XROM number (the first entry in a ROM) and the entry in the FAT, and obviously that is much faster.

Bottom line is that a user program in ROM is almost exactly the same as in RAM, but the trick is building the right FAT. It is the HP41 operating system that treats FAT entries for Mcode and User code totally different.

Hope this helps for you.

Meindert

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP25 scary moments

Message #1 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 8 Jan 2003, 3:49 p.m.

Hi;

yesterday night I was testing a Thevenin (single, real components Eth and Rth equivalency) program in the HP55 and I saw it would work in the HP25, too. As I mentioned before, I cannot keep a calculator without finding something to do with it...

The program is 15 steps long, 55 version, and 13 steps long for the HP25 because it uses one register, and STO 0 / RCL 0 in the HP55 use two steps each.

I loaded it in the HP55 and run it: Rth and Eth returned fine. The problem was with the HP25: ON, PRGM mode and the display insisted on an annoying

[nn 13 00]

(keycode for [GTO] 00) for each key pressed! "RAM is gone!" I thought. I tested the memories and they returned 0.00 for any value I stored on them. "RAM IS GONE!!!" I cried out loud inside my brain, reverbs and echoes granted.

Soldering iron plugged and lets try with a magnifying lens to find any "cold-soldering" (I learn fast...). None visible, let's go for plan B: heat-up all terminals in both 16- and 18-pin IC's, I would not touch the CPU. (I have one question in the end of this text). I also heat some passive components' terminals close to the same IC's.

Happy end: the HP25's RAM got back to life, I loaded the Thevenin program on it and results were fine. And I got to bed in the down (about 6:00 AM), but I was relieved. Detail: HP25 runs about two times faster than the HP55, at least in this program.

My question is: the HP 25 and the HP25C share the same AMI 1818-0154 chip. Is this the ACT chip? As both have exactly the same instruction and behavior set, I thought this could be ROM. The other two chips, CPU included, have different numbers: the 25 CPU is an MK6215N, ID 1820-1523

while the 25C's CPU is an MK6217N, ID 1820-1741 (as they deal with different RAM structure, they must handle data bus differently); the other chip, supposedly the RAM, is an MK6220N, ID 1820-1564 in the 25, while the HP25C has an HP5061-0469 2.

All of this is because the HP25C with me has an strange behavior: it lits on, accepts number keys and display control, stores and recalls numbers, stores any program keystroke sequence (key numbers are fine) but returns a [0.000000000] for each attempt of anything else, even stack manipulations, [CHS], [.), [EEX] or [CLx]. I think it's a ROM problem, and I would like to confirm if the common AMI 1818-0154 does it, or if this is the ACT chip and the ROM is inside the CPU.

Can anybody point the differences out?

Thank you in advance.

The THEVENIN listing and coments

The Thevenin prgm computes Rth and Vth equivalent for a single Vcc constant-current voltage source with R1 being the series resistance and R2 parallel to load resistance. The procedure is:

Input	Press	Display
Vcc	[ENTER]	Vcc
R1	[ENTER]	R1
R2	[R/S]	Rth
	[x<>y]	Vth

For testing purposes: suppose you have a 10 Vcc voltage source, R1=5 ohms (series with [+] pole) and R2=10 ohms (parallel with load). What are the values for the equivalent Thevenin Vth and Rth?

Input	Press	Display
10	[ENTER]	10.00
5	[ENTER]	5.00
10	[R/S]	3.33
	[x<>y]	6.67

Solution: Rth=3.33 ohms and Vth=6.67 Vcc

The listing: (keystrokes are for both machines)

	HP25		HP55		Keystrokes
[01	21]	[	01	22]	x<>y
[02	31]	[	02	41]	ENTER^

[03	22]	[	03	23]	Rv (roll down)
[04	15 22]	[	04	13]	1/x ([g][1/x] in the HP25)
[05	21]	[	05	22]	x<>y
[06	15 22]	[	06	13]	1/x ([g][1/x] in the HP25)
[07	51]	[	07	61]	+
[08	15 22]	[	08	13]	1/x ([g][1/x] in the HP25)
[09	23 00]	[	09	33]	STO (STO 00 in the HP25)
		[	10	00]	00
[10	61]	[	11	71]	×
[11	21]	[	12	22]	x<>y
[12	71]	[	13	81]	÷
[13	24 00]	[	14	24]	RCL (RCL 00 in the HP25)
		[	15	00]	00

If you think it's worth, I'll put it in the Programs Library. It works fine in both 11C and 15C too, but their versions do not use registers, just the stack, because they use [R^], not available in the 25 and 55. And in the HP15C it computes complex results, if needed.

Let me know.

Re: HP25 scary moments

Message #2 Posted by [Michael Meyer](#) on 8 Jan 2003, 5:23 p.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

Hi, Luiz! I don't know the answer to your chip question, but I'm glad I'm not the only one..... when I finished "playing" at my workbench, it was 3 am this morning! I can't find it in the articles section, but Katie Wasserman once wrote about things to check when an HP-25 won't program. I'm glad yours is working again!

Remember ages ago I had a HP-67 that burned through two ACT chips? I thought I'd mention.... the third one's been a "charm". No problems since, and I use it daily, if nothing else, to show it off....(Not my only one, but the one I carry.) Even if you have more than one, it's always sad when these things die. Often, as you know and have shared parts, when they do die, their "organs" can bring life to another calculator.

Good luck with your 25C...

Michael

Re: HP25 scary moments

Message #3 Posted by [Michael Meyer](#) on 8 Jan 2003, 5:28 p.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

By the way, Luiz,

For the holidays and my birthday this year, I bought two glass display cases. They arrived just before a I had a few days off for Christmas and New Years. Now my collection is displayed, and I can "pluck" them off the shelves and play with different calcs. Much better than having them stacked in a drawer and on shelves! I like it. (My wife must be very patient, as they're in our family room...)

Michael

Re: HP25 scary moments

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 11 Jan 2003, 9:10 p.m.,
in response to message #3 by Michael Meyer

Hi, Doc;

good reading your posts.

Hey, is there a way to take some pictures for us to appreciate? I'd like very much to see hwo do your babes look like. I mean your calculators, for sure!

If you do not have an e-place to holst your pictures, send them to me, please. You know it's sort of relaxing activity to be prescribed...

Best regards and thank for sharing these moments with us.

(I did not answered "pronto" because I was trying to find the correct expressions)

Re: HP25 scary moments

Message #5 Posted by [Tony Duell \(UK\)](#) on 8 Jan 2003, 5:47 p.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

The ACT (Arithmetic, Control and Timing) chip _is_ the CPU (it's the 22 pin chip). 1818-xxxx numbers are normally memory devices (often ROMs) -- ROM0 in ACT-based machines is an 18 pin chip, and IIRC the RAM is a 16 pin chip in most of these machines. 8 pin chips are ROMs, RAMs, or combination ROM/RAM chips (as in the HP67).

Re: HP25 scary moments

Message #6 Posted by [David Smith](#) on 9 Jan 2003, 4:51 p.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

The -0154 chips is a ROM chip. The ACT chips is the arithmetic-control-timing chip. It is the big one next to the -0154. There is more ROM code stored in the display anode driver chip inder the LED module (the smaller of the two chips). The earliest HP25's had a bug in the code in this ROM chip.

Re: HP25 scary moments

Message #7 Posted by [Gordon Dyer](#) on 11 Jan 2003, 8:09 a.m.,
in response to message #6 by David Smith

Can you give any information about the bug and which date codes of calculator apply?
How can I chaeck to find out which ROM version I have?
Thanks.

Re: HP25 scary moments

Message #8 Posted by [David Smith](#) on 11 Jan 2003, 7:28 p.m.,
in response to message #7 by Gordon Dyer

The date code on the machine is usually earlier ones, although I have seen it in later ones.

Store a number like 1E-14 in a memory register (or do a trig function that returns a result in the range of 1E-10 to 1E-20), switch the machine into PROGRAM mode and back to RUN mode. You see a blank display in PROGRAM and ERROR in RUN.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-19BII manual

Message #1 Posted by [Tony Thimet](#) on 8 Jan 2003, 12:34 p.m.

Hi there! Is there are source for the HP-19BII manual in PDF format? I have the MoHPC CD-ROMs but this manual doesn't seem to be included. Is anybody willing to sell one? (European sellers preferred) Or is it still sold by HP? Btw: What I like best about the HP-67CX is the "Thermal noise random number generator". Definitely a must-have! Tony

Re: HP-19BII manual

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 8 Jan 2003, 3:45 p.m.,
in response to message #1 by Tony Thimet

Hi;

when this calcualtor was available from HP itself, it had a page at HP's stite where you could download it. It is a bit large file (a few tens of megabytes, if I am not wrong) and I have it. I'll try to find out if the page still exists; if not, I'm sending you the PDF (if I am not wrong, I have at least two vresions, I'll check for their languages) late in the night (www is fater), O.K.? If you're in a hurry, let me know.

Cheers.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

I always knew TI's were backwards....

Message #1 Posted by [Michael Meyer](#) on 8 Jan 2003, 11:35 a.m.

At the risk of being the last one to figure this out, and at the risk of admitting I have a collection of TI programmables and calcs:

Last night I pulled out a TI-57 to play with. I had re-built the battery pack, but the circuits were corroded too badly (as they all are). It wouldn't hold a charge. I tried to convert it to a 9v battery, and it wouldn't work. Odd. It had worked briefly when the charger was plugged in. So, I hooked up a 9v supply... it still wouldn't work. Sooo... taking a "plunge" and doing something stupid, I hooked up the power backwards. Yep. It worked.

I then looked in my "box-o-broken-calculators". Two TI-55's. I'd messed with them awhile ago, as they looked as if they should work. I must have never considered hooking a positive supply to the black wire and a negative supply to the red wire. Too many years of following the convention and not wanting to burn out circuits. They both work. I'm even a bit surprised that I hadn't tried this before. I guess I follow the rules too much.

Anyway, if I hadn't figured it out, maybe there's someone else here on the Forum that can use this info and give it a try with calcs they had thrown in the junk box.

Long Live the HP of Old, Michael

Re: I always knew TI's were backwards....

Message #2 Posted by [Randy Sloyer\(US\)](#) on 8 Jan 2003, 12:05 p.m.,
in response to message #1 by Michael Meyer

This probably means TI spent about 20 cents and installed a full wave bridge rectifier in series with the battery supply. No matter how you connect the battery, the proper polarity voltage is seen by the circuits. This was common when the calculator was worth more than the 20 cents it cost. The downside is that it imposes a constant 0.7 volt drop in the supply volt. Means it stops working sooner when on batteries, but it was probably so the power supply plug didn't have to be polarized.

Just my 2 cents worth (A decidedly NON-TI guy...)

Re: I always knew TI's were backwards....

Message #3 Posted by [Paul Brogger](#) on 8 Jan 2003, 2:47 p.m.,
in response to message #2 by Randy Sloyer(US)

??? I thought Mr. Meyer's message was that it **does** matter which way the battery is hooked up . . . Am I missing something?

I admit to having a non-functional TI-55, too -- I removed the leaky NiCads after I got it (*sans* charger). One might infer from my lack of ambition in getting the thing to work again that I'm a non-TI guy, too. But I've been playing with my TI-83+SE more than anything else, lately. (In fact, I may soon be selling my newest HP-42S to help pay for a guitar, but that's another story.)

Re: I always knew TI's were backwards....

Message #4 Posted by [Joerg Woerner](#) on 8 Jan 2003, 4:03 p.m.,
in response to message #3 by Paul Brogger

Oops - TI questions here ?

The Charger of the TI-55 is indeed an AC-type - BUT: The battery pack contains two AA-sized NiCd batteries plus a DC/DC-converter to generate 9V. You could easily replace these BP modules with a 9V battery.

Never forget: 0V is RED and 9V is BLACK or your calculaor is DEAD.

Find more in the www.datamath.org just search the TECHNICAL section and choose Battery Packs or Repair a Battery Pack.

Regards, Joerg

Re: I always knew TI's were backwards....

Message #5 Posted by [Michel Beaulieu](#) on 8 Jan 2003, 4:14 p.m.,
in response to message #1 by Michael Meyer

Yest it's true the black wire is the positive and the red one is the negative. But TI calc don't worry about reverse polarity and if you plug the + to the red, it won't "grill" the calculator...

Re: I always knew TI's were backwards....

Message #6 Posted by [Michael Meyer](#) on 8 Jan 2003, 5:11 p.m.,
in response to message #5 by Michel Beaulieu

I agree. I hooked up all three "backwards", and all are working with the correct polarity. Normally it does "fry" circuits to connect them backwards, so it does appear to be a resilient circuit. But... What is Wrong With Those People to wire it backwards? Red is Red and Black is Black, and I don't think I've ever seen a device except one that is going to blow up in a movie.... wired any other way.

Incidentally: I have a collection of many early LED calcs, from all sorts of brands, including TI's and others, as many collectors do. They're cheap, unlike the HP's, which cost a pretty penny to buy. My HP's are my prized collection, of course.

I do think the competition from TI helped push HP to develop better calcs, but ultimately the mass-produced cheap products also contributed to the demise of the HP calculator. But TI wasn't the only culprit. And that's another story.

But the nerve! I never checked the TI 30's, etc., to see if their 9V connectors are even wired backwards....

Michael

Re: I always knew TI's were backwards....

Message #7 Posted by [db\(martinez,california\)](#) on 8 Jan 2003, 9:54 p.m.,
in response to message #6 by Michael Meyer

on my ti 30 (ser # 8986077) the red is hooked up to the pos side of the 9v. good to hear from you dr mike. i thought you had given us up as incurable.

Re: I always knew TI's were backwards....

*Message #8 Posted by [Michael Meyer](#) on 9 Jan 2003, 12:26 a.m.,
in response to message #7 by db(martinez,california)*

Yes... I am incurable. Unfortunately, "'tis the season" for people to do poorly, so I've been busy. Also, unfortunately, in my business, too busy can be bad. If people can't get in to see me for six weeks, they call after-hours with emergencies. And I'm not allowed to charge for calls....

I forgot to mention: I enjoy bringing calculators back to life, even if they're TI's. I enjoy the restoration of calcs, but I don't use them for my work. Sort of like my days as a bicycle mechanic. I enjoyed building and repairing more than riding....

Michael

Re: I always knew TI's were backwards....

*Message #9 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 9 Jan 2003, 2:22 a.m.,
in response to message #8 by Michael Meyer*

Hi, Doc;

you'd rather be a psychiatrist alright; i.e., you already are! Substitute brains for bykes and calcs and you'll get to the point...

Best regards.

Re: I always knew TI's were backwards....

*Message #10 Posted by [Michel Beaulieu](#) on 9 Jan 2003, 11:50 a.m.,
in response to message #6 by Michael Meyer*

Yes, OLD TI calculator feels very cheep in hand but a vast majority of these LED calculators they done were still fonctionning these days, except some model with key bouncing.. They are "cracky" *except TI-58, 59 series)calculators but the electronic is as good as other brand. I have a lot of old TI and all are working good without prior rebuilt need. The newer graphing one ar not "cracky" calculator and the LCD, keyboard and electronic are good quality comparable to HP 48 or 49 series or even better physical quality with better reading display. Like i said, they lack a RPN scientific and a RPN graphing model to be at the top.

Re: I always knew TI's were backwards....

Message #11 Posted by [Joerg Woerner](#) on 9 Jan 2003, 3:04 p.m.,
in response to message #10 by Michel Beaulieu

NO, NO, NO !!!!

OLD TI calculator feel very strong ! Let us define old. If you ever owned a TI-2500 Datamath or a SR-50, SR-51 - they feel very, very strong.

If you dismantle (like I did often) a SR-50 and a HP35 you won't find ANY difference in quality. TI used that time tons of screws, gold platen contacts, rigid printed circuit boards - like HP did. Unfortunately there was a lot of really cheap competition like APF, Commodore, National Semi and some others and the price war started.

TI made a lot of steps to lower manufacturing costs and starting with the SR-50A/51A the product quality decreased. You know the TI-30 with the bouncing keyboard, the TI-55 II with the rusty contacts, unusable after some weeks of use...

But - they learned a lot - and they learned early enough:

The technology behind the TI-55 III (Far East replacement of the US TI-55 II) is more solid than a HP-30S. A TI-89 has a better look-and-feel compared to ALL Sharp, Casio and even some (newer) HP graphing calculators.

Within some weeks I'll visit Thailand - the home country of Citizen brand. On my shopping list are some Citizen calculators, we discussed already here in the Forum that the HP9 series are rebadged Citizen's. (Side questions: WAS the HP9 EVER AVAILABLE IN US ???).

Later more - if you are interested.

If you need some info about the a.m. TI's - just visit www.datamath.org and search them.

Greetings from Germany, Joerg

Re: I always knew TI's were backwards....

Message #12 Posted by [Michael Meyer](#) on 9 Jan 2003, 4:19 p.m.,
in response to message #11 by Joerg Woerner

Didn't TI invent the first calculator IC? And the cheapo TI's were all on one chip... pretty impressive, if you think about it. Don't get me wrong.... using the classic HP's is a religious experience for me..... I just plain couldn't afford an HP-67, so a TI-59 got me through college. And worked reliably enough.

Now I get to use the HP's I could only dream about. For me, that's the joy of this interest/obsession.

Michael

Re: I always knew TI's were backwards....

Message #13 Posted by [Michel Beaulieu](#) on 9 Jan 2003, 5:33 p.m.,
in response to message #11 by Joerg Woerner

I was thinking about the cracky TI-55, TI-57, TI-MBA or TI-30, or the "one use" TI-55II. But the 30 serie is still fonctionning after all these years.

The TI-59 line and heavy 52 "smell" quality.

You are true, it depend of the meaning of "cheap". If it's "not costing a lot for what you get". TI-55 was less than 100\$ and all i have here still works great after these years so it's cheap!!! ;-).

I mean "reliable" calculator instead. TI are reliable calculators, especially newer models. Casio, HP and Sharp newer's too but unknown for the majority of students. Now that these calculators are a lot programmable, i think all are about the same : I saw a program project for a TI-83 to 100% emulate the HP-48G!!!

Re: I always knew TI's were backwards....

Message #14 Posted by [GE \(France\)](#) on 10 Jan 2003, 4:30 a.m.,
in response to message #13 by Michel Beaulieu

Joerg, Is it conceivable that some extra calculators from Thailand jump aboard your boat for other people interested here ? I think especially of the impossible to find SPR400G. Well, just an idea. I'm also searching for a contact in Japan. Greetings too

Re: I always knew TI's were backwards....

*Message #15 Posted by [Joerg Woerner](#) on 10 Jan 2003, 10:36 a.m.,
in response to message #14 by GE (France)*

Just drop me a line at joerg@datamath.org.

Thanks, Joerg

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Connecting HP-48 to HP-IL

Message #1 Posted by [User48](#) on 8 Jan 2003, 7:32 a.m.

Is it possible to connect HP-48 to the HP-IL loop (HP-41, HP-71, ...) via RS-232 interface? What is needed on each side?

Re: Connecting HP-48 to HP-IL

Message #2 Posted by [andy](#) on 9 Jan 2003, 9:26 a.m.,
in response to message #1 by User48

You might be able to do it with the 82164a hpil-rs232 adapter. You can get the manual to that by purchasing the CD set offered on this site.

It would probably be easiest with the 71b...with the 41 you'll most likely need the "extended i/o" rom as well.

I once heard that there was actually an hpil rom for the 48 (it actually plugged into one of the 48's 2 slots). I've never seen one though.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Quality of new HP48GX?

Message #1 Posted by [Håkan Thörngren](#) on 8 Jan 2003, 4:57 a.m.

I am considering getting a spare HP48GX for my Singapore made machine from -94 (revision R roms).

How does the latest HP48GX compare to it in terms of build quality, especially the keyboard? I am considering a late machine with a black rather than blue LCD, I do not know where they are made.

As a side question, should I also go for a HP49G when they are still available? How are the keyboard on them apart from that it is (shudder) rubber keys?

Re: Quality of new HP48GX?

Message #2 Posted by [Raymond Hellstern](#) on 8 Jan 2003, 9:22 a.m.,
in response to message #1 by Håkan Thörngren

From what I heard the keyboard feel of the newer GX's with the high contrast LCD is somewhat softer, but it should be good enough to have the 'HP kbd feeling'.

As for the 49G, this is a matter of taste.

Please note that the key legends are hardly readable (which id..t chose red and blue on metallic blue...), the layout is cluttered and not too well organized (e.g. the EVAL and tic keys are shifted!!!), and the ENTER key is **not** in the usual position.

Raymond

Re: Quality of new HP48GX?

Message #3 Posted by [Bill Hemphill](#) on 9 Jan 2003, 8:31 a.m.,
in response to message #1 by Håkan Thörngren

I have both the old and new HP-48GX as well as the HP-49G.

The new style 48 seems to be of similar construction quality as the older. BUT, the display is 100% better, in my opinion. I find I need much higher contrast as I get older, and the new display was mainly the reason I purchased a new one a few months ago. I don't really notice much difference in the keys. The newer one seems a little bit stiffer than my older one, but that may just be due to less use.

The 49G is... how can I politely say this, ... The display has a high reflective cover to it, so the contrast is lower. The keys are horrible - I don't mind so much that they are rubber, but hate that I must press directly down on them to activate them. HP keyboards have always (up till the 49G) felt very natural to my fingers - a slight push forward and downward.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Pile of 48GX found

Message #1 Posted by [GE \(France\)](#) on 8 Jan 2003, 4:43 a.m.

Hello,

As usual when I propose to purchase brand new calculators for others here I don't expect any answer whatsoever. This reminds me of my offer to pass a few 32SII at cost one year ago...

So this time I stumbled upon a pile of unopened HP48GX boxes at the price of 180 Eur. These are French models, with manuals (er... user guides) in French. Apart from that, they are brand new.

Is this a bargain or shall I just forget about it ? Anyone wants one ?

Greetings and let's see what comes up in 2003.

Re: Pile of 48GX found

Message #2 Posted by [Dave](#) on 8 Jan 2003, 9:35 a.m.,
in response to message #1 by [GE \(France\)](#)

It is not a bargain now, but with the prices 32SII calcs went to, who knows?

Re: Pile of 48GX found

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 8 Jan 2003, 11:21 a.m.,
in response to message #1 by [GE \(France\)](#)

Hello, GE;

thank you for your kindness. I remember that, at that time, I'd have troubles (I still have) on paying, so I gave up before asking you a favor.

What I am wondering is about the fact that this is the third time we see posts about piles of HP calculators being found in Europe. These are glad news, I am sure, but how come? The first one

was the set of many unopened HP41CX. Despite their price (what allowed some users to buy one) this was a remarkable happening. Now you find NIB HP48GX right after finding some NIB HP32S.

That's always good news. I'm just glad for the geographic coincidence. (I wish it happened in Brazil, too. Europe is too far and the mail is a lot slow...)

Cheers.

Re: Pile of 48GX found

*Message #4 Posted by [Silvio](#) on 8 Jan 2003, 3:41 p.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)*

Hi all. I just came back from a long vacation in South America. I was able to find large quantities of 48GXs for US\$85~US\$90, and 49Gs for US\$110~US\$120 in Paraguay; all Brazilian versions, with Portuguese docs.

Silvio

Re: Pile of 48GX found

*Message #5 Posted by [Dave Shaffer](#) on 10 Jan 2003, 10:51 p.m.,
in response to message #1 by GE (France)*

Yesterday, there were three (until I bought one) 48GX NIB (NIPBP - new in plastic blister pack!) at the Thunderbird Road Frys in Phoenix, Arizona for \$149.99 . These were "made in Indonesia" models. At that price, 180 euros doesn't look too good.

Mais, si vous parlez francais ... !

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP41C does not turn on

Message #1 Posted by [Jonathan Lenton](#) on 7 Jan 2003, 8:30 p.m.

Hi - my son found my 41C and wondered if he could use it. So I bought batteries, installed them and nothing happened, no lights no anything. There was a little corrosion on one of the terminals in the 41C which I flicked off with a pen knife. Is there something else I should do to see if I can get it going?

Note - my son removed the extended functions, quad mem and math module while the unit was turned off. I do not think this should affect the unit actually turning on. Please confirm.

Thanks Jon

Re: HP41C does not turn on

Message #2 Posted by [Karl Schneider](#) on 7 Jan 2003, 9:01 p.m.,
in response to message #1 by Jonathan Lenton

Jonathan --

Check if the connector springs in the battery holder are corroded; if so, clean them in a baking-soda solution.

That assumes it uses disposable batteries. Rechargeable batteries are also used on some units.

Re: HP41C does not turn on

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 7 Jan 2003, 10:12 p.m.,
in response to message #1 by Jonathan Lenton

Hi;

just for checking purposes: can you check if there is any sort of metal available in the batteries connectors? I once had an HP41 in hands with so much oxidation that the metal surface became dust. I had to rebuilt it, and it is time consuming and somewhat risky. Please, verify it when you scraped the oxidation you did not remove the remaining metal contact. It is a golden plated, cooper sheet over a flexible plastic (what makes a flex PCB). Just check it.

Also, removing the modules when the calculator does not turn to ON is harmless. I recommend doing it with the batteries' holder removed, for safety, when the calculator does not lit.

Do you have the skills to open it? If so, let us know. It is not hard to do, just "taking care" is necessary.

Hope you have success.

Cheers.

Re: HP41C does not turn on

Message #4 Posted by [David Smith](#) on 9 Jan 2003, 4:53 p.m.,
in response to message #1 by Jonathan Lenton

You will probably need to open up the machine and clean the internal contacts with 91% isopropyl alcohol. This includes the contacts under the CPU board.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Dead HP33E

Message #1 Posted by [Alessandro](#) on 7 Jan 2003, 9:57 a.m.

Hello all!

I've a dead HP33C I'd like to bring to life again.

I used this calculator for many years, but now I'm not able to power it on since the only sign of life it shows up is the "low battery power indicator" (a small led "dot" on the upper left side of the display).

Apparently, the problem seems related to power supply board inside the calculator.

In more recent years, I bought a 15C but I'd like to repair my old faithful 33E.

Do you have any hint or suggestion ?

Thank you and greetings from Italy!

Alessandro

Re: Dead HP33E

Message #2 Posted by [Pyerre](#) on 7 Jan 2003, 4:31 p.m.,
in response to message #1 by Alessandro

This link would help to repair your Spice :

<http://www.rskey.org/calckb.htm>

HTH

Pyerre

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP41 - PC Gateway & Emulator

Message #1 Posted by [Christoph Klug](#) on 7 Jan 2003, 6:13 a.m.

Realise : The HP41-PC Gateway & Emulator solution is the most surprising and really powerful application for the HP41 scene of last time. Use it for interfacing your HP41 handheld computer to PC, for data and program up/download, and for working with some virtual IL-Devices. EMU41 is the worlds leading HP41 emulator solution, which also gives you the advanced features of the real machine....

Jump below to the interesting HP-Museum forum message from Jean-Francois Garnier about “EMU41, a complete HP-IL system emulator” which was announced at December 2002 to the forum !

There you will find a link to the new EMU41 web page from Jean-Francois which gives you much details including some HP41 software routines for up/download of data, any type of files, NNN's to/from PC world. Furthermore nice solutions exist for creating multi-column program prints and fast HP41 Barcode plots....

More details about the “HP41-PC Gateway & Emulator “ is placed now on the HP-Museum article forum and exist also on the www.hpcc.org web page : Follow the link to HP41 / HP41 Hardware Activities and Interfacing / HP41-PC Gateway & Emulator.

But now realise the surprising news about the worlds leading HP41 emulator solution – which includes the most advanced features of the real HP41, including plug in modules like CCD, HEPAX, and RAM-BOX.

Discover some new virtual IL-Devices like Video Screen, Printer, Floppy Disk Drive, Hard Disk Drive and DosLink (a powerful gateway to the PC world). Control this virtual IL-Devices with EMU41 or alternatively with your real HP41 handheld.

Furthermore EMU41 is able to control your real IL-Devices, for example reading measurement samples from the HP3468 IL-Digital Multimeter, or outputting data to the HP7470 IL-Plotter. Also the data and program exchange between HP41 and EMU41 now is absolutely easy by using the

virtual Hard Disk Drive.

Owners of the HP82973 HP-IL/PC Interface Card now have the chance to replace their existing LINK PLUS or TRANS41 software packages by EMU41, because this acts as “all in one solution” and includes nice gateway and advanced emulator features.

For HP41 enthusiasts who want to start with HP41-PC interfacing, now the second generation rebuilt HP-IL/PC Interface Card is available....

Best wishes from Germany – Christoph Klug

Re: HP41 - PC Gateway & Emulator

*Message #2 Posted by [David](#) on 7 Jan 2003, 11:25 a.m.,
in response to message #1 by Christoph Klug*

I wish i could have one of these, but I do not own a motherboard with an ISA slot. is there any chance to make a pci device? or some other way to interface the HPIL with a modern computer?

Re: HP41 - PC Gateway & Emulator

*Message #3 Posted by [Daniel Diggelmann](#) on 7 Jan 2003, 6:11 p.m.,
in response to message #2 by David*

I just bought the full version of EMU41 to support the HP82973A HPIL PC card. I already had a replica HPIL PC card by Christoph Klug, but hardly ever used it. Recently I discovered the Omnibook 800CT to be very compact Notebook including an ISA docking station. This notebook will now serve for my HP calcs hobby. Tonight for the first time I tried the new EMU41 with the HPIL PC card installed in the doskcing station. And wow it works!!! I was amazed when I could DIR a CASSETTE DRIVE TAPE connected externally to the OB800CT :) The notebook specs are: 166MHz / 80 MB RAM / 4 GB HDD / WIN98SE. Now the HP41 world has really melted together with the world of PCs. Many thanks to you both Jean-Francois Garnier and Christoph Klug for your endless efforts. I just can't wait to connect my IL2000 System by Christoph Klug together with my HP3421A and HP3468A to the PC in order to complete my hobby electronics lab. Again I'm totally amazed...

Re: HP41 - PC Gateway & Emulator

Message #4 Posted by [User48](#) on 8 Jan 2003, 3:07 a.m.,
in response to message #1 by Christoph Klug

Very nice ... but what I really would like to have is an HP-41 emulator (with HP-IL support) running on HP-48 (connected to PC via RS-232) :-)

Re: HP41 - PC Gateway & Emulator

Message #5 Posted by [Christoph Klug](#) on 8 Jan 2003, 8:22 a.m.,
in response to message #1 by Christoph Klug

PCs for the HP-IL/PC Interface Card and EMU41 :

I use the HP-IL/PC Interface Card and the new full version of EMU41 in the following different PC systems. Furthermore I use this systems also for hardware function tests of the HP-IL/PC Interface Card and for testing some beta software versions of EMU41 and for evaluating the HP41-PC transfer software.

286/16MHz PC. This is my "nostalgic" DOS machine. Now I use it only for HP-41 applications. Operating system is DOS6.2. Software packages are LINK Plus, TRANS41 and EMU41. The floppy drive of this machine is also compatible to LIF-Disks for exchange with the HP9114 IL-Disk Drive.

Highscreen 386DX33 Laptop PC with ISA-Bus docking station. This is my mobile system. Display is only monochrome. Operating system WIN3.11. Software packages TRANS41 and EMU41.

1GHz Athlon PC with ASUS K7M motherboard with includes also one ISA-Bus slot. Operating system WIN98SE. This is my advanced multimedia system for office applications, audio applications (playing virtual digital piano and pipe organ), Video DVD player, and last not least HP41 applications with TRANS41, EMU41 and V41.

800MHz HP Vectra PC with ISA-Bus extension board. This is my actual office PC. Operating system WIN2000. For addressing the HP-IL/PC Interface card I use the user port software tool tested by Leo Duran.

This four samples will give you an imagination about the installation of the nice HP-IL/PC Interface Card to your own machine. Follow the idea of Jean-Francois Garnier and re-activate some old PC hardware which exist under your workbench or in your neighbours garage....

Best wishes from Germany - Christoph Klug

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Value of the HP-21S

Message #1 Posted by [Joerg Woerner](#) on 7 Jan 2003, 2:29 a.m.

Hi There,

Recently I received a HP-21S and tried to find out its value. Here in the Museum I found the entry "Easy to get" but the price tag is missing. Searching two weeks the huge eBay auctions I found not even one of the HP-21S. What's on with the HP-21S? Is it very common or just unpopular due to the missing ENTER key ?

HAPPY NEW YEAR !

Greetings from Germany, Joerg

Re: Value of the HP-21S

Message #2 Posted by [Mike \(Stgt\)](#) on 7 Jan 2003, 6:10 a.m.,
in response to message #1 by Joerg Woerner

Seems you like to sell it. If you know it's value just tell me pls off-list: hp41cx@web.de

"Monte Carlo" fehlt noch in meiner Sammlung. Grüße aus Stuttgart

Ciao.....Mike

Re: Value of the HP-21S

Message #3 Posted by [Holger Weihe](#) on 7 Jan 2003, 7:32 a.m.,
in response to message #1 by Joerg Woerner

Hi,

according to my ebay-price-history at <http://www.hweihe.de/hp/preistabelle.htm> only one 21S was sold in the last time. It went for 87 Euro.

I am also interested. So if you want to sell it, please send me a mail...:-)

Holger

Re: Value of the HP-21S

Message #4 Posted by [Frank B. \(Germany\)](#) on 7 Jan 2003, 8:10 a.m.,
in response to message #1 by Joerg Woerner

I got a HP-21S for Euro 21.10 in July 2002 (Ebay Germany). Kind of bargain, I think. There were only 3 bids, although it was described as "Hewlett-Packard Taschenrechner 21 S".

No, I don't want to sell it.

Regards, Frank.

Re: Value of the HP-21S

Message #5 Posted by [Jan \(CH\)](#) on 7 Jan 2003, 4:41 p.m.,
in response to message #4 by Frank B. (Germany)

What is 21S? Mine is 21 without "S" Thanks

Jan

Re: What is the HP-21S?

Message #6 Posted by [Paul Brogger](#) on 7 Jan 2003, 5:59 p.m.,
in response to message #5 by Jan (CH)

The [HP-21S](#) is a low-end Pioneer, a precursor to the HP-20S.

I *don't* think they're talking about the (Woodstock) HP-21 at those prices . . .

Re: What is the HP-21S?

Message #7 Posted by [Joerg Woerner](#) on 8 Jan 2003, 1:26 a.m.,
in response to message #6 by Paul Brogger

That's correct - the HP-21S is sandwiched between the HP-20S and HP-32S. From the HP Database I learned that they all use similar architecture with different RAM / ROM size. Is there a special meaning of the "S" ? I noticed (I'm not a HP expert like you) that some modern calculators carry this designation - e.g. HP-42S, 6S, 30S...). What is your explanation ?

Greetings from Germany, Joerg

Re: What is the HP-21S?

Message #8 Posted by [R Lion](#) on 8 Jan 2003, 2:13 a.m.,
in response to message #7 by Joerg Woerner

You can see it here: <http://www.fbalzer.de/tr/hp21s.jpg>

Re: What is the HP-21S?

Message #9 Posted by [Frank B. \(Germany\)](#) on 8 Jan 2003, 4:12 a.m.,
in response to message #8 by R Lion

Right, that's the one I got for Euro 21.10! Except the small scratch on the faceplate it's in pretty good condition.

Frank.

Meaning of the "S"

*Message #10 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 8 Jan 2003, 3:07 a.m.,
in response to message #7 by Joerg Woerner*

Hi, Joerg;

as always, it's good reading from you in here.

Primarily, the "S" should mean "Scientific", as all of the new-architected calculators are "continuous-memory" based (TI uses the term "constant-memory", right?), so there is no "need" for a "C" suffix. Some earlier models had a "C" instead of an "S" to identify the constant-memory feature: HP41 series, all voyagers, HP28C (later an HP28S). Even the first 48 series was designated as Scientific, at the same time the HP42S and many scientific calcs (Pioneers), as you mentioned in your post.

The same applies to the Business: 10B, 14B, 17BII, 19BII...

There are exceptions, of course: HP12C, being the "C" a remaining constant-memory reference, and the HP27S, a do-everything model, with scientific and financial (business) resources.

Best regards.

Re: What is the HP-21S?

*Message #11 Posted by [David Smith](#) on 9 Jan 2003, 4:58 p.m.,
in response to message #6 by Paul Brogger*

I have bought several HP21 woodstock machines on Ebay in the \$20-\$25 range... secretly hoping that they had some defect which would justify me scrapping them out for the ACT chip. Guess what, all but one were perfectly good and worked fine after a little cleaning. One had a corroded keyboard. Its ACT chip and case back restored two HP25 units to their former glory.

Re: Value of the HP-21S

*Message #12 Posted by [Raymond Hellstern \(Germany\)](#) on 7 Jan 2003, 5:59 p.m.,
in response to message #5 by Jan (CH)*

The 21S is a member of the pioneer series. It looks somewhat similar to the 20S, but with more statistical features.

Raymond

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 41 printer problem

Message #1 Posted by [Frederic](#) on 6 Jan 2003, 9:48 p.m.

I have a HP-41 printer that have a problem : With only batteries or with bat and power supp. when i switch on the 2 lights goes on and i can hear a noize from A PART THAT IS WRITTEN aztec 0905-0408, is about i inch and have the form of a chair. Also the print heat is very hot. No paper feeding at all and on the 41 i get "out of paper" message.

There you are!

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Jan 2003, 10:12 p.m.,

in response to message #1 by Frederic

Hi;

it seems you have a short-circuited current booster OR a burnet-out head "driver".

If you have paper in the right position and pull it up a little, you'll probably see a vertical black line right ounder the middle of the head (the burners are there). If the current boosters are shortened, almost all power supply is over the head burners (do not let the printer ON or the head will be definitely lost), what explains the ZZZZ (from the power supply) and the "there's_something_hot" smell.

If you want to try, open the printer (five screws, one under each rubber feet and another close to the battery compartment) and carefully detach the flex circuit connector that connects the printer head to the mainboard (there is only one flex circuit). You must use something to move the conector's contact (mainboard) away, because they "pinch" the flex circuit connector tabs. I use a small antistatic piece of plastic so it fits between the contacts and the flex circuit connector. I push it in and carefully pull the flex circuit connector, then I pull the plastic out.

Then you can briefly switch the printer ON and simply verify if the BATT LED is off and only POWER LED is ON. Take care not allowing the flex circuit to touch other components and do not attach the printer to any HP41 door.

I can have a look in my 82143A and try to identify the head components, but you should also wait for other posts to help more.

Cheers.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: 82143a printer

Message #1 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Jan 2003, 9:44 p.m.

Hi;

it seems you have a short-circuited current booster OR a burnet-out head "driver".

If you have paper in the right position and pull it up a little, you'll probably see a vertical black line right ounder the middle of the head (the burners are there). If the current boosters are shortened, almost all power supply is over the head burners (do not let the printer ON or the head will be definitely lost), what explains the ZZZZ (from the power supply) and the "there's_something_hot" smell.

If you want to try, open the printer (five screws, one under each rubber feet and another close to the battery compartment) and carefully detach the flex circuit connector that connects the printer head to the mainboard (there is only one flex circuit). You must use something to move the conector's contact (mainboard) away, because they "pinch" the flex circuit connector tabs. I use a small antistatic piece of plastic so it fits between the contacts and the flex circuit connector. I push it in and carefully pull the flex circuit connector, then I pull the plastic out.

Then you can briefly switch the printer ON and simply verify if the BATT LED is off and only POWER LED is ON. Take care not allowing the flex circuit to touch other components and do not attach the printer to any HP41 door.

I can have a look in my 82143A and try to identify the head components, but you should also wait for other posts to help more.

Cheers.

Re: 82143a printer

Message #2 Posted by [Frederic](#) on 6 Jan 2003, 10:15 p.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

I remove the flex near connecting the head and then it stop getting hot. And yes you are true, if i hand throw the paper when on it leave a black trace on it. I change 2 capacitors but i still get the BAT allert and the power on light is not very bright. Without the the flex plug, i can hear the noize only 1 second when i put it on. Another hint : if i push the advance button, the on light get brighter, the bat light get darker and i hear the "capacitor like" noize till i release the button. I think the noize come from the AZTEC "chair like" big part.

Re: 82143a printer

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Jan 2003, 10:59 p.m.,
in response to message #2 by Frederic

Hi;

let's get this thread, then.

I have once my own 82143A with a problem closer to this one. Mine is an earlier model, and it has a problem: if the AC adapter is connected without the batteries (or at least one low-voltage reference), one of the printer's IC (Integrated Circuit) seems to burn out. I found it out by doing it! Inadvertently. I simply connected the AC adapter and turned the printer ON. It worked for less than 20 seconds and stopped with the BAT indicator ON. Then I saw the battery outside the compartment (I used to take it out when I was not using the printer for a long time). Bye-bye printer...

At that time, HP still repaired this model (198x) and I sent it to the Brazilian repair center.

Maybe you have a related problem, because a lot of them appeared as I insisted using the printer that way. After a few minutes switched to ON the BAT LED lit even with the AC adapter plugged in. Then it printed unsual characters and, suddenly, an all-black "banner" in all lines. At that point I switched it off. I believe if I insisted I would have the drivers and/or the current boosters burnt out. Maybe that's what happened to yours.

I'd try an old 82143A and replace one particular IC that seems to be the one that burnt. The IC I'm referring to is right between the Vac input connector and the interface connector and it's code is 1026-0287. At least this was the only component HP repair center replaced. I draw a single PCB layout with all components and compare with the printer after it returned (I waited for twelve months till warranty expired): the only one change was this one. Even the power supply was the same (the little printed circuit board you're probably comparing to

a chair).

You should expect other posts about this subject to confirm what I experienced once. Not too much probable, but maybe it's a big coincidence, who knows.

Hope you have success.

?upgrade???

Message #4 Posted by [Frederic](#) on 7 Jan 2003, 12:08 p.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

I locate the component but there is no replacement for that chip i think :-(

Where can i find a schematic of the electronic for the printer?

It's sad to say but i think i'll need another printer. where can i find one, i really use it often at my job and don't want a Notebook-PC with a battery operated printer it's too big and less programmable... I heard that there is an infrared printer available at HP now, is it plugable to my calc with some sort of hp-41 IR output?

Probably i'll need to upgrade to hp-49 or 48 :-(with the infrared printer But i don't really need all these graph and speciality mode I LIKE MY "vintage" 41 SYSTEM. i have one intensively use CX and one printer now dead :-(.. probably i'm too retrograde and need to evolve! As a proof is i reach help on a museum site for obsolete technology!!! Is Texas instrument, sharp or Casio manufacturing a key-programmable calculator with printer? What other solutions do i have???

Re: ?upgrade???

Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 7 Jan 2003, 1:57 p.m.,
in response to message #4 by Frederic

Hi, Frederic;

does the chip ID # match? If so, maybe yours is already an upgraded 82143A. Let's check for serial #: mine is 2141S40xxx (Singapore, 1981). Is yours earlier or newer? First two digits + 60 gives the tens for the year (21 + 60 = [19]81). You should keep waiting for any other suggestions, my tips are based only in my own printer.

Anyway, have you checked if the IC is getting hot? Any of them? A few (not custom) chips used in some HP equipment have commercial replacements. I doubt calculators have, but let's consider the fact the 82143A is a thermal paper printer. There are other.

About schematics, I'd like having this one, too. If you find it... please?

Cheers. Sorry not helping the way I'd like to.

Success.

Re: ?upgrade???

*Message #6 Posted by [Renato](#) on 7 Jan 2003, 3:53 p.m.,
in response to message #4 by Frederic*

Frederic, Is trying to fix your printer fun for you ? If not, may I suggest you try a upgrade. I am sure Luiz can help you substitute your 41cx+printer for a 42s+IR printer - both are more reliable than what you have now, and programs are compatible. Even if you manage to fix it now, it will sure fail again in the future.

Re: ?upgrade???

*Message #7 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 7 Jan 2003, 6:55 p.m.,
in response to message #6 by Renato*

Hello, Renato;

thak you for the add-on and support

In fact, Frederic, I can also help you even upgrading your system for an HP48 + 82240A or B, it's up to you.

If you have programs written for the HP41 system and need their version for any of the systems, I'll translate them for you. In fact, from the HP41 for the HP42 we can face some difficulties with the X-Functions (mostly ASCII files) and both time functions and some peripheral devices, not available for the HP42S. Anyway, in most cases, tese functions may have their counterparts in the HP42S system (except time functions). If not, they can be simulated by extra programs. There is no I/O facilities in the HP42S, what makes it impossible to emulate a complete HP41 system.

About the HP48... well, if you are willing to upgrade to an HP48, let's talk about it as soon as you want to.

Cheers.

Re: 82143a printer

Message #8 Posted by [David Smith](#) on 7 Jan 2003, 5:21 p.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

The 82143A printers tend to be fairly reliable. You can find them on Ebay almost any day. Typical sell price for a bare machine is around \$25. Most problems found are dirty drive mechanisms, stretched out drive belt, etc. Other common faults can be bad print heads and broken battery contacts. Machines you find on Ebay always have bad or missing batteries and most are missing the power plug and manual.

Is your machine the one type with the silver timing wheel that is driven by the belt, or the black one on the other side of the machine from the belt? I may have a replacement electronics board in the junk pile.

Re: 82143a printer

Message #9 Posted by [Frederic](#) on 7 Jan 2003, 6:00 p.m.,
in response to message #8 by David Smith

2133s40362 is the serial number of my printer. There is a belt and a wheel with metal pinch very cute... Probably for the detector just up these pin wheels.

Board you have

Message #10 Posted by [Frederic](#) on 8 Jan 2003, 4:10 p.m.,
in response to message #8 by David Smith

Yes it's the same board! I you don't need your extra one you can sell it to me!!! :)

Re: Board you have

Message #11 Posted by [David Smith](#) on 9 Jan 2003, 5:02 p.m.,
in response to message #10 by Frederic

I am still looking for my board. It wasn't where it should have been. There are two types of boards used in these printers. One is where the toothed timing wheel is near the belt, the other where it is on the other side of the printer from the belt. Which version do you have?

Re: Board you have

*Message #12 Posted by [Frederic](#) on 9 Jan 2003, 8:03 p.m.,
in response to message #11 by David Smith*

The timing-teeth wheel is attach to the strap to another smaller pulley connect directly to the motor.

Re: 82143a printer

*Message #13 Posted by [Tony Duell \(UK\)](#) on 7 Jan 2003, 6:34 p.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)*

The 82143 power supply is rather complicated. The battery voltage is stepped up to abo ut 18V for the printhead (the actual voltage is set by the intensity switch) by the 0950-0408 module. This voltage is then regulated down again by a switching regulator to give +5V for the logic. The printhead elements are driven by the 75473 (8 pin) chips. Perhaps one of those has failed, or perhaps the custom-programmed 3870 microcontroller is malfunctioning. Disconnect the printhead flexiprint, and try the printer again (it's OK to connect it to the HP41 with the printhead disconnected. If it works (obviously it' won't print, but if the paper feeds correctly, etc) then most of the microcontroller is working. I would then check the 75453 chips, etc (oops, I meant 75453, not 75473, a few lines earlier!)

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Brazilian News about HP/Compaq Merge

Message #1 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Jan 2003, 4:54 p.m.

Hi;

this is what we read at [ItWeb](#) about HP/Compaq merge: (English comments after original text)

"De acordo com Carlos Ribeiro, presidente da HP Brasil, os resultados do segundo trimestre fiscal da empresa após a aprovação da aquisição dão mostras de que o processo tem tido sucesso. "A lucratividade da companhia cresceu mais de 30% no período", afirma o executivo."

In short terms, Brazilian HP President claims a successfull, "30% growth profitability" merging in last three months.

... What to say?

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: I'll try this...

Message #1 Posted by [Stephan \(Germany\)](#) on 6 Jan 2003, 4:22 p.m.

Dear Luiz,

last year I got a battery pack of a 19C back to live by this method. I used 40000 uF and just a few Volts (around 8 Volts from a DC power supply). It worked well. Important is to discharge only on the "dead" cell, not connect the capacitor to the complete pack. As the internal resistance of a shortened cell is almost not present, and also no residual voltage is left, I bet even lower voltages will do. Please do yourself the favor and try it with as small a voltage as possible - even if the thrill is less. By this way you also minimize the ugly burn marks, where the connection closes and the spark shows up.

Best regards and success,

Stephan

Re: I'll try this...

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Jan 2003, 4:40 p.m.,
in response to message #1 by Stephan (Germany)

Hi, Stephan;

thanks for the new guidelines.

I was reading again the original article and I saw one thing I did not notice before: polarity.

As a voltage source, any battery is supposed to have a low internal resistance WHEN fully charged and direct current is considered. I always plugged the battery poles as if the battery is a polarized charge for the capacitor circuit, say, serial connection: (-) pole from capacitor in (+) pole in the battery and (+) pole from capacitor in (-) pole in the battery. This way, the current surge flows the same way as if the battery is connected as the voltage source in a circuit. The scheme when power supply and battery are connected with the same polarity is used only to

charge the battery. Am I wrong?

I agree with you when you mention a lower voltage, but I always thought of a high voltage peak (and current) to "remove" the short-circuit cause, an internal, abnormal connection between both (+) and (-) poles. Will it have the same efficiency with lower voltages? As we are not working with "manufacturers recommended operating conditions", I was reasoning about it.

I still have three 1.5 volt cells from an 82143A batt pack that did not have their internal short-circuit removed and I'll give them a try.

Thank you all for the brainy, valuable guidelines.

Best regards.

Re: I'll try this...polarity

*Message #3 Posted by [Stephan \(Germany\)](#) on 6 Jan 2003, 4:51 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

I connected capacitor to cell + to + and - to minus, as in a charger circuit. It worked well.

BTW, your oil filled capacitor is a real bomb. Fully charged it can make traces similar to arc welding.

Stephan

Re: I'll try this...polarity

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Jan 2003, 4:58 p.m.,
in response to message #3 by Stephan (Germany)*

Hi;

I'm sorry for the misspelled words. It is an "oil-can"-shape, 40.000uF/70Vwv electrolytic capacitor. And it will probably burn the wire tips out...

Cheers.

Re: I'll try this...polarity

Message #5 Posted by [Stephan \(Germany\)](#) on 6 Jan 2003, 5:15 p.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)

Dear Luiz,

Please be careful in any case (you are a too valuable contributor in this forum to be lost). Not every capacitor is capable to withstand impulse loads which would occur in your application. I still can smell the acid spread around in my room when a 2200 uF 16 Volts popped. And I don't want to imagine the effects of your much larger "oil can" on house and health.

Stephan

Re: I'll try this...polarity

Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Jan 2003, 6:47 p.m.,
in response to message #5 by Stephan (Germany)

Hi;

I'm flattered, thanks! And that's enough reason for me to take triple care about this high electrical parameters (everything, except for isolating impedance, is dangerous when more than 1K in Electricity...). I'll experience a bit before going any further.

I'll try to deserve taking place with the valuable contributors (as all actual contributors) by firstly not messing things up!

Thank you.

Re: I'll try this...

Message #7 Posted by [Tony Duell \(UK\)](#) on 6 Jan 2003, 7:44 p.m.,
in response to message #1 by Stephan (Germany)

My experience with 'zapping' NiCd cells is that although it will clear the shorts, and although the cells will charge after 'zapping', they don't have much capacity, and they are liable to short again. I've zapped cells in many battery packs to get a battery pack that works well enough to test the unit in question (and thus to confirm it's worth buying some new cells and rebuild the pack properly), but I wouldn't use a zapped pack in any machine I intended to use regularly.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

RPN and TI

Message #1 Posted by [Michel Beaulieu](#) on 6 Jan 2003, 4:18 p.m.

I wrote this message lower this forum : I agree with you, it's easy to learn, But why is it disappearing? Probably because RPN calculators were not in school or students budget limits no? I learned math with the help of TI calculators so it's difficult for me and a lot of students to change when you don't encounter RPN calculators.

TI should have built a line of RPN calculators at the same price of a TI-30 in the 70' and probably their should be more RPN in school now.

I have a TI-83 and install a flash application call "RPN III"!!! It's fun but not a lot of functions of the calculators are integrated with this application. Someone should try to make a TI graphing completely RPN by doing a new operating system. :-)

Now what's up for the future? I know, HP calc were better quality and are RPN but as i can see now no new models this quality will be on the market soon. The most important thing is not HP but RPN! I think that TI have good quality graphing calculator now (TI-89, TI-86 etc) so i think too keep RPN alive "we" should write RPN operating system of flash application for these calculators this way, a LOT LOT of persons will be able to be in contact with RPN and probably like it and the demand for OEM RPN calculators will grow up.

Look at this link for TI89 :

<http://www.ticalc.org/archives/files/fileinfo/108/10874.html>

For TI-83+ :

<http://www.ticalc.org/archives/files/fileinfo/233/23378.html>

I'm not able to program in flashapp or assembly only basic and a totally integrated TI calculator with RPN will have to be a fast program so that's why i call for you here; it's a big job but the reward

should be a gain in the popularity of RPN system whatever the manufacturer.

I'm a math teacher and if RPN was know by my student, they should do a lot less calculating errors!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Library transfer PC to HP48/49

Message #1 Posted by [Jeffry_G](#) on 6 Jan 2003, 12:05 p.m.

What is the correct procedure for transferring Library files from the PC to the HP48/49?

Thanks,

Jeff

Re: Library transfer PC to HP48/49

Message #2 Posted by [Glen Kilpatrick](#) on 6 Jan 2003, 1:22 p.m.,
in response to message #1 by Jeffry_G

This is from memory, and I haven't done it in over a year, but here goes (and subsequent posters may correct):

[1] Transfer the file to your 48 (I can't advise 49, but strongly suspect it's the same procedure).

[2] Locate to the directory of your choice (the attachment is to a directory, as I've always done mine to HOME, they're always visible everywhere, but I inferred that attachment to a subdir would conceal...).

[3] Recall LIB to the stack (may or may not then PURGE original name).

[4] STORe to the PORT; for 48S & G, use "0 STO" (that's numeric zero then STO), others may have more PORTs to play with.

[5] Turn the 48 off, then on. YOu should see a delay in it coming back on, and you'll be in HOME.

[6] Check the LIBrary to see that it's present, and test as appropriate.

I look forward to corrections....

Re: Library transfer PC to HP48/49

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Jan 2003, 2:29 p.m.,
in response to message #2 by Glen Kilpatrick

HI;

only one (by memory, too) that I remember:

[4] STOr to the PORT; for 48S & G, use **:0:** [STO] (that's numeric zero then STO), others may have more PORTs to play with.

The :: operator is necessary to identify a port address.

Also, if I am not wrong, you can attach more than one library in HOME dir, but only one for each subdir.

My US\$,25.

Cheers.

Re: Library transfer PC to HP48/49

Message #4 Posted by [Glen Kilpatrick](#) on 6 Jan 2003, 7:02 p.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)

Thanks, Luiz!

I just *knew* there was something missing about that zero. So it's not a _numeric_ zero, it's a \->TAG zero. But your other comment about one attach per subdir, that I never knew (not a problem on my 48S, 32_KB just isn't enough memory to worry about scattering LIBraries about like autumn leaves :).

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP LED Demo Unit?

Message #1 Posted by [Larry Corrado](#) on 6 Jan 2003, 10:48 a.m.

An "HP LED Demo Unit in HP-45 Calculator Body" just went for \$305 on ebay (#1948283395).
What is this? What is it used for?

Just curious. Larry

Re: HP LED Demo Unit?

Message #2 Posted by [Mike](#) on 7 Jan 2003, 8:59 a.m.,
in response to message #1 by Larry Corrado

Just what it says. It was a unit that could show working LED products that HP sold. Turn the switch and a different LED lights. Probably even has some in the display area.

I doubt that you'll ever see another on eBay. They have to be very rare.

Re: HP LED Demo Unit?

Message #3 Posted by [Tony](#) on 7 Jan 2003, 5:43 p.m.,
in response to message #2 by Mike

I had a conversation with a former HP Manager, component division. He claims these units were given to their sales folks and their distributors. His guess, they would have made as many as 400 of these. Most were probably trashed.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Rebuilding Posts in the HP41 - Photos

Message #1 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Jan 2003, 8:00 a.m.

Hi, folks;

I did not get the photos yet, but I was informed that only two of them are good, the others have focus problems (new, good digital machines deserve good photographers, too...). If I cannot filter and enhance details, I'll shrink them and add a few graphics to detail whatever is needed.

As soon as my brother send them to me, I'm generating the article for your appreciation.

Thank you.

Re: Rebuilding Posts in the HP41 - Photos

Message #2 Posted by [David](#) on 6 Jan 2003, 10:47 a.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

as always, thanks!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Annoying low bat message on the 200LX

Message #1 Posted by [GE \(France\)](#) on 6 Jan 2003, 7:06 a.m.

As I dug out a 200LX recently, its batteries were gone. I quickly replaced the main ones but not the backup (none at hand). So the machine powered up correctly and all was nice, BUT there is a warning message and beep every 10 seconds, lasting a couple of seconds, saying "Backup Battery Low" or something. I managed to shut off the beeper, but the message keeps on popping up every 10 seconds, and while it's displayed the machine doesn't respond to keystrokes (the graphing of a function even suspends in the calculator application - very weird !). So my question is simply : how do I shut off this nagging message ? (I don't want to purchase a backup battery as this is just for a few days worth of hmmm... playing).

Re: Annoying low bat message on the 200LX

Message #2 Posted by [Katie Wasserman](#) on 6 Jan 2003, 11:32 a.m.,
in response to message #1 by [GE \(France\)](#)

Good question! I just researched this and found that Mack Baggette (one of the wizards of the 200LX) wrote a small BIOS hack to do just what you need. The program is on the SUPER site along with zillions of other 200LX programs.

To get it go here: <http://www.palmtop.net/search.html> and search for: "BIOS Message Killer"

-Katie

Re: Annoying low bat message on the 200LX

Message #3 Posted by [GE \(France\)](#) on 6 Jan 2003, 12:42 p.m.,
in response to message #2 by Katie Wasserman

Exactly on target !

Thank you very much !

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Interesting eBay seller

Message #1 Posted by [Mike](#) on 5 Jan 2003, 2:21 p.m.

He offers hundreds of items and provides NO DESCRIPTION. He requires you to contact him to find out what he is actually selling. Could this be a scam or is he just selling outside of eBay?

I only mention this because he also had a couple of CURTA calculators that have \$2000 price. But you can't actually get a description until you contact him.

[Curta for sale](#)

Re: Interesting eBay seller

Message #2 Posted by [Bill Wiese](#) on 6 Jan 2003, 2:45 a.m.,
in response to message #1 by Mike

Umm,

He could be OK and just a bit too lazy to post full description/pics on EBay listing entry screen, and finds it easier to mail a canned description to buyer. But if he's a volume EBay seller there are low-cost (and perhaps freeware) tools to help you "blast" in your items in bulk and not have to go thru screens onesey-twosey for each item - perhaps he's not aware of these.

However - and I don't know EBay rules for such arrangements - I am not sure such EBay deals have any protection (other than outright fraud with buyer not receiving item) since the terms of agreement, item description/condition, etc. are conveyed outside of EBay. I know that when an EBay auction ends early (other than via their Buy-It-Now feature) and a transaction still occurs by mutual agreement, such a deal is outside of EBay and has no EBay protection, sanction, etc. (Essentially, the auction ended with no bidder, and a non-EBay private sale ensued.)

Bill Wiese San Jose, CA

Re: Interesting eBay seller

Message #3 Posted by [Tom \(UK\)](#) on 6 Jan 2003, 7:12 a.m.,
in response to message #1 by Mike

Well the 'Item has ended' and the list for all his other items for sale is empty. Did ebay catch up with him after a notification???

Buying from a listing with no description is not likely to have even the minimal protection ebay gives.

Re: Interesting eBay seller

Message #4 Posted by [David Smith](#) on 6 Jan 2003, 5:11 p.m.,
in response to message #1 by Mike

I have seen him list those Curtas around a dozen times (or so it seems). Nobody has ever bid on them... gee, I wonder why?

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

15C # notation

Message #1 Posted by [Joyce](#) on 5 Jan 2003, 1:27 p.m.

I have lost my manual and have forgotten how to turn off complex # notation. If someone could tell me the keystroke to switch it off that would be great.

Re: 15C # notation

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 5 Jan 2003, 2:13 p.m.,
in response to message #1 by Joyce

Hi;

you should clear flag 8, meaning you should use the sequence:

[g] [CF] 8

[CF] function is in key [5]

Cheers.

Re: 15C # notation

Message #3 Posted by [Joyce](#) on 5 Jan 2003, 2:52 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

Thanks for the response. I really meant to say scientific # notation on my last post. Fiddling around with it I figured it out by using....

[f] FIX

(hitting FIX twice)

Also is there a way to change the number of decimal places it displays? It's been awhile

since I used this and right now it shows 8 digits and I don't recall that being the default.

Ex... 2 is displayed as 2.0000000

Re: 15C # notation

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 5 Jan 2003, 3:08 p.m.,
in response to message #3 by Joyce*

Hi;

as you have noticed, [FIX] is over the [7] key. After pressing [f] [FIX] you have to specify how many digits you want for fixed decimal places, and you can choose from [0] to [9]. Then, when you press

[f] [FIX] [FIX]

you stabilished 7 decimal places, i.e.,

[f] [FIX] [7]

Try

[f] [FIX] [4]

and you get the default four decimal places. Or try the one you want.

Cheers.

Re: 15C # notation

*Message #5 Posted by [Joyce](#) on 5 Jan 2003, 8:26 p.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)*

Thanks for the help.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

TRAN41 and hp41 files

Message #1 Posted by [andy](#) on 5 Jan 2003, 1:23 p.m.

I'm trying to transfer an hp41 program from my PC (old 286 with an hpil isa card) to my hp41 using trans41.

This site (<http://www.hpmuseum.org/software/41td/41docs.htm#how>) states that .RAW files can be utilized but I haven't gotten it to work yet.

Any advice would be appreciated.

Thanks,

Andy

Re: TRAN41 and hp41 files

Message #2 Posted by [Christoph Klug](#) on 7 Jan 2003, 4:56 a.m.,
in response to message #1 by andy

Dear Andy

Some software routines for uploading data and programs from HP41 to PC by using TRANS41 you find in CHAPTER XV of the I/O-Board manual.

HP41-PC transfer would be easy with new version of EMU41 (full version from Jean Francois Garnier) This replaces TRANS41 and gives you much more power including real and virtual IL-Devices and an advanced HP41 emulator.

And some more good news for HP41 enthusiasts who are searching the exotic HP-IL/PC Interface Card : This is available now as second rebuild version.

For more details refer to "HP41-PC gateway and emulator" at the HP-Museum forum...

Best wishes from Germany - Christoph Klug

Best wishes - Christoph Klug

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Applied Stats 2 Solution Book

Message #1 Posted by [David](#) on 5 Jan 2003, 12:37 p.m.

I am looking at the program for linear regression in the Applied Stats 2 Solution Book on this site.
could anyone tell me something about it, like is it the same one in the stats pac. also how to run it

thanks

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Has anyone successfully connected an HP-41 to a PC?

Message #1 Posted by [Steve](#) on 5 Jan 2003, 11:26 a.m.

I've done a lot of searching since my prior post, and I still can't find anyone claiming to have found a way to connect a 41 to a PC over serial (or anything else for that matter). Am I wasting my time even attempting such a thing?

I recently acquired an HP/IL but I still need to find the IL/RS-232 converter. But will this be enough to move bytes between the 41 and a PC? Is there software for the 41 or PC to facilitate the transfer (e. g. move a program or the entire contents of memory)?

Finally, if a 41 to PC connection is impossible (or too difficult to be practical), what is the preferred way to input (wand?) and output/save (disk, mag cards?) to/from the 41? Thanks!

Steve

Re: Has anyone successfully connected an HP-41 to a PC?

Message #2 Posted by [Michael Tjebben](#) on 5 Jan 2003, 1:09 p.m.,
in response to message #1 by Steve

Steve-

If you search just a bit harder, you'll find that there is a link (given below) on this very site that gives quite a bit of information about transferring programs between a HP-41 and a PC.

What is the best method depends a lot on what hardware you're able to find. An HP-9114 disk drive, I think, is the most convenient. However, you might have to wait some time to find one on ebay.

The HP-IL/RS-232C adapter is better suited to transfer files and data between a PC and the HP41 and not really programs. It's just not straight-forward to do so. Anyway, if one has such an adapter, even the Hyperterminal that comes with Windows will allow one to transfer files.

It is quite easy to print out files to barcode to transfer them from your pc to your HP-41, if you have a wand. The second link, below, will help you learn how to do that.

Good luck!

<http://www.hpmuseum.org/software/41td/41docs.htm#how>

<http://www.hpmuseum.org/software/41uc.htm>

Re: Has anyone successfully connected an HP-41 to a PC?

Message #3 Posted by [Tony Duell \(UK\)](#) on 5 Jan 2003, 1:56 p.m.,
in response to message #1 by Steve

Yes, I do it all the time. There are basically 4 methods that I use : (1) 3.5" disk (HP9114 disk drive on the HP41), (2) RS232 interface, (3) GPIO interface and (4) Wand. If you want to use the RS232 interface to transfer programs, you need an extended I/O ROM in the HP41 (it provides the INP and OUTP commands). Take a look at my LIF Utilities for Linux package (on the HPCC web site). It contains information (and programs as C source, which could probably be ported to other machines/OSes) on connecting the RS232 interface to a PC (warning : HP's use of the handshake lines is crazy!) There's also a little circuit to link the PC's parallel port to the 82165 GPIO interface for program/data transfer from PC to HP41. If you want to use the wand, there are basically 2 things you can do. One is to print out barcodes on the PC and scan them with the wand as usual. The other is to make a small modification to the wand (solder an opto-isolator chip inside the HP41 module), and then simulate scanning a row of barcode by feeding the right pulse train into the opto-isolator. There's a circuit for doing this in the LIF Utilities for Linux package as well.

Re: Has anyone successfully connected an HP-41 to a PC?

Message #4 Posted by [andy](#) on 6 Jan 2003, 9:25 a.m.,
in response to message #3 by Tony Duell (UK)

Another technique is to use an HPIL ISA card (82973A) and some old software like LINK (from southern software). Also, you'll need a 286 to run link. When you finally get all this equipment, interfacing your 41 to a PC is a snap...and a lot of fun too.

You can connect the older PC to a newer PC via the serial port and transfer files from the web, to the new PC, to the old PC, to your 41!

The original 82973A are hard to find and expensive, but Christopher Klug currently sells his own version of the 82973A and it works the same.

Re: Has anyone successfully connected an HP-41 to a PC?

Message #5 Posted by [Christoph Klug](#) on 7 Jan 2003, 5:10 a.m.,
in response to message #1 by Steve

Dear Steve,

Up to now the HP-IL/PC Interface Card is the defacto standard for interfacing the HP41 to PC. And only this solution gives you the most advantage features.

In combination with the new EMU41 full version from Jean-Francois Garnier you control some real and virtual IL-Devices, for up and downloading data, programmes, non-normalised-numbers = NNN's, X-memory files, CCD-Module matrix files

Furtermore you realise fast HP41 Barcode plots, multi column program plots, and last not least you get an advanced HP41 emulator solution which includes CX functions plus advanced modules like PPC, CCD, ZENROM, HEPAX and RAM-Box features....

Please refer to "HP41-PC Gateway & Emulator" at HP-Museum forum which was anounced end of December 2002, there you get somem more details about professional and advanced HP41-PC interfacing including up and downoading data and programs

Best wishes from Germany - Christoph

Re: Has anyone successfully connected an HP-41 to a PC?

Message #6 Posted by [Christof \(the US version\)](#) on 10 Jan 2003, 5:26 a.m.,
in response to message #5 by Christoph Klug

Christoph-

has anyone looked into a method to do and IR to HP-IL hack?

I would dearly love to do HPiL interfacing to my 200LX, and the only way I see to do it wihtout falling back on the mythical pcmcia card or a (really EXPENSIVE) rs232/HP-IL converter would be to use the IR system. I'm not sure, but I think the 200Lx IR can be controlled well enough to generate and read HP-IL frames, at which point you just need to go from IR to the proper voltage and waveform on the wire, no?

With similar facitilites (well controllable IR, that is) on the 95LX, the 48s/x/g/+x and most laptops, it would seem to be very useful.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-91 electronical problems

Message #1 Posted by [Uwe Hoch](#) on 5 Jan 2003, 11:06 a.m.

Hi together,

I have some problems regarding my 91. First the problem description: Connecting the power supply to the calc (yes, full battery inside) does NOT light up the LED's. Removing the power supply and using the battery only let the calculator work just fine. Now for the measurements at the battery cvontacts (battery NOT inside, in brackets I put the values I found on my 97): Switch OFF, power supply connected: 10V (10V), Switch ON, power supply connected 1V (5V). All those symptoms make me think, that this has something to do with a) the charging circuit and/or b) the overvoltage circuit. Unfortunately those two circuits are not the same found in the service manual of the 97 on museum CD5. So my questions: Has anyone encountered the same problem or has anyone a circuit plan or service manual of the 91 or is there anyone, who can help me in any other way. Any help would be very welcome.

Greetings, Uwe

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-16C

Message #1 Posted by [Ernie Malaga](#) on 5 Jan 2003, 5:29 a.m.

I wonder if anyone has noticed a funny coincidence regarding the HP-16C: its model number is 16, very appropriate for a first HP calculator to support hexadecimal integers.

I've always felt sad that HP never created another calculator along the lines of the 16C.

-Ernie

Re: HP-16C

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 5 Jan 2003, 9:39 a.m.,
in response to message #1 by Ernie Malaga

Hi;

I've been wondering a few times about calculator model # and I never got to a "pattern", if there is one. And I saw a few at the MoHPC that end with a "6" other than the HP16C (46, 56, 66 and 86), all old fashioned, desktop models. But this called my attention, too.

It's not a rule, but many companies use the last digit in their equipments' model # as sort of an ID for their particular purpose. Three HP calculators with a "7" as the last digit are financial, but the well known 67/97 counterparts are not. Both HP22 and HP12C have their model # ending in "2" and are financial, but the 32, 32S and 42S are not. There are many model # ending with "1", "2", "5", "7" and "8". A few others with "0", "4" and "9" as the last digit. But I saw only the HP33E/C and the HP83 with a "3" in the end.

The fact is that the HP calculators are split in two major groups: financial and scientific. Both have their graphics versions, so I don't thing a graphic calculator belongs to a graphics group, maybe I'm wrong. But the HP16C is a class by itself, and if we take those three desktop, old fashion 46, 56, 66 and 86 off the score, the "6" in the end is also an exclusive ID number.

Cheers.

Re: HP-16C

*Message #3 Posted by [Ernie Malaga](#) on 5 Jan 2003, 5:47 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Luiz:

Nice analysis, but I wanted to point out the coincidence between the "16" in "HP-16C" and hexadecimal base (base 16).

Was this a mere coincidence, or was it intentional?

-Ernie

Re: HP-16C

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 5 Jan 2003, 6:23 p.m.,
in response to message #3 by Ernie Malaga*

Hi, Ernie.

That's intriguing, isn't it? I wrote previous post thinking precisely on this coincidence. If it is intentional, at least in the Voyager series, they may be sure that some guys noticed that. Unfortunately, it's not usual, so we also consider a coincidence. The only thing I noticed is that in most cases, as the second digit "grows", the equivalent calculator is more powerful. If we think of the Voyager series, both HP15C and HP16C are the ones.

I think the 16 as a hexadecimal reference and the 16 as an ID for the calculator is intentional, but based on what I wrote previously, it's not exactly usual in HP calculator models.

Cheers.

Re: HP-16C

*Message #5 Posted by [Tom \(UK\)](#) on 6 Jan 2003, 7:23 a.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)*

I did a little (text) file of the different HP calcs vs time. From this it looked like the numbers went in little series in a very ad-hoc way. e.g. 28,48,38,49 or 41,42,32 (in date order).

It would be interesting to know how HP came up with the numbers... i.e. Mr H or Mr P?, sales?, engineering??

Re: HP-16C

*Message #6 Posted by [Ernie Malaga](#) on 6 Jan 2003, 10:27 a.m.,
in response to message #5 by Tom (UK)*

>It would be interesting to know how HP came up with the numbers... i.e. Mr H or Mr P?, sales?, engineering??

They must have used a random number generator, for all I know. Otherwise I can't figure out how come their _first_ calculator was number "35".

-Ernie

Re: HP-16C

*Message #7 Posted by [Juan J](#) on 6 Jan 2003, 10:38 a.m.,
in response to message #6 by Ernie Malaga*

If you count the HP-35 keys, you get 35. The calculator prototype had 35 keys, or so the legend goes on, Bill Hewlett christened the calculator as HP-35. The rest is history.

Many classics have a 35-keys keyboard, including the HP-41. Later models had more keys.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: new HP12C CPU...

Message #1 Posted by [Bill Wiese](#) on 4 Jan 2003, 4:40 p.m.

Thanks for all the replies folks.

My curiosity is more whether the new chip is based on a Saturn CPU, or whether they used the standard pre-Saturn/post-Woodstock architecture shared on Voyager & 41C, etc.

Does anyone have an old 12C new (cheapie) 12C to compare numeric results? Might tell us if firmware was changed.

It'd be way cool if this new chip had onboard flash ROM and we knew how to reburn it. Then all we'd need is new keytops :)

Bill Wiese San Jose, CA

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP67 problem

Message #1 Posted by [Chris Migdal](#) on 4 Jan 2003, 1:44 p.m.

I found a HP67 in perfect cosmetic condition. It looks brand new. The problem is that when I turn it on after charging the batteries for a while, all I get are two 0's in random positions, different each time I turn it on. The calculator does not respond to key presses and does not do anything when I put a card into the card reader.

Has anybody seen this ? Does this sound like a loose connection?

Thanks.

Re: HP67 problem

Message #2 Posted by [David Smith](#) on 5 Jan 2003, 1:09 p.m.,
in response to message #1 by Chris Migdal

It could be a bad connection but FAR more likely is a bad chip inside the unit ;(

Re: HP67 problem

Message #3 Posted by [Tony Duell \(UK\)](#) on 5 Jan 2003, 1:59 p.m.,
in response to message #1 by Chris Migdal

Alas it's more likely to be a dead ACT (CPU) or ROM0 (which includes the display driver) chip on the logic board. Both chips are custom and unavailable other than from old HP calculators. The ACT can come from an HP21, 22, 25, 29, 67 or 97 (and possibly a 91 or 92 as well), the ROM0 has to come from a 67.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Need help connecting a 41CX to a PC

Message #1 Posted by [Steve](#) on 4 Jan 2003, 8:58 a.m.

What are my options for connecting a 41CX to a PC? I'm assuming I need an HP-IL module, plus an HP-IL RS-232 adapter? What is the GPIO interface? Finally, what software is available to transfer to/from the 41CX assuming I have the right hardware? Thanks!

Steve

Re: Need help connecting a 41CX to a PC

Message #2 Posted by [Raymond Hellstern \(Germany\)](#) on 4 Jan 2003, 1:52 p.m.,
in response to message #1 by Steve

Hi,

you can do an HP-41 <-> PC connction with either: IL/RS232 Interface IL card for the PC

It could work with an IL/GPIO interface, too, but you'll have to know how to wire the cable from the GPIO side to the PC.

In any case you'll need an HP-IL module for the HP-41.

In the museum forum archives are some discussions about those options.

Christoph Klug could be the man. He's working much on the IL stuff, and has developed a new IL card for the PC.

Regards, Raymond

Re: Need help connecting a 41CX to a PC

Message #3 Posted by [andy](#) on 6 Jan 2003, 9:32 a.m.,
in response to message #1 by Steve

If you go the HPIL module -> hp82164 (serial) then you'll also need the Extended I/O module (somewhat rare).

You should contact Christopher Klug. With one of his cards, you'll only need the hpil module.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

new HP12C CPU...

Message #1 Posted by [Bill Wiese](#) on 3 Jan 2003, 6:09 p.m.

Folks...

Awhile back the HP12C was redesigned (cheapened! - just look at the keys.) Apparently there were some hardware changes too - new CPU. (Or, maybe all this just means it went from a 2-chip to a one-chip design.)

Any idea of these hardware changes? Anyone have pix of innards of HP12C, new-vs.-old??

Regards, Bill Wiese San Jose, CA

Re: new HP12C CPU...

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 3 Jan 2003, 8:23 p.m.,
in response to message #1 by Bill Wiese

Hi, Bill;

All voyagers (I'm not sure about the HP10C and the HP16C) had two HW design: an earlier one with a separate flex PCB (LCD plus IC's) and keyboard, and the other with an integral mainboard, all built on it. These voyagers worked with three LR44-type button batteries.

Later, when only the HP12C was available, it had its internals reduced to only one chip but kept the three batteries. Lately, the HP12C had its internals redesigned so it could work with only one 3-Volt cell.

I have one of each of the last two models and I had once posted a message with IC's numbers and ID's. I may have this text saved as a document, but I'll have to dig my hard disk a bit OR dig Forum archives. No matter; as I have the calculators, I can also open them up and read the ID's again. I just want to know if you are interested on this data. Let me know.

Best regards.

Re: new HP12C CPU...

*Message #3 Posted by [Raymond Hellstern \(Germany\)](#) on 4 Jan 2003, 8:20 a.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Hi,

maybe it could be interesting for the museum pages, too, to be able to see photos of the old and the new 12C PCB for comparison.

Regards,

raymond

Re: new HP12C CPU...

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 4 Jan 2003, 9:03 a.m.,
in response to message #3 by Raymond Hellstern (Germany)*

Hi, Raymond;

There are photos of the the old-fashioned Voyagers "guts", with a flex circuit assy, availabel in the Museum. Look [here](#). The HP15C's structure differs only for an extra RAM PQPF (Plastic Quad Package Flat) chip. Others keep two chips only, and the later versions have one single PCB with all components. I have an opened HP11C and I can open the other two HP12C and scan them (I have no camera). I'll verify final image quality and, if they are fine, I'll offer them to Dave, let's see what he can do. In the meantime, I'll send it to those who are interested on seeing these inner Voyagers.

Cheers.

Re: new HP12C CPU...

*Message #5 Posted by [Raymond Hellstern \(Germany\)](#) on 4 Jan 2003, 1:57 p.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)*

Hi Luiz,

thanks for your response.

Actually I have opened some of my 11C's and 15C's a while ago, and they've all the same single pcb layout. That was helpful then because I could replace the display easily.

What I would be interested in is the new redesigned layout of the 3 volts 12C;-)

Cheers,

Raymond

Re: new HP12C CPU...

*Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 4 Jan 2003, 3:26 p.m.,
in response to message #5 by Raymond Hellstern (Germany)*

Hi, Raymond;

I'll scan both the 3-volts, 1 cell HP12C "guts" and the other, a bit earlier 4.5-volts, 3 button batteries, so you can compare them. Both of them have only one do-everything chip and one of them (I'm not sure which of them) uses an Agilent chip.

I just cannot do it right now, but I'll scan and send the images today. If there is someone else interested on these images, please, let me know so I'll send only one e-mail to many addresses.

Best regards.

Re: new HP12C CPU...

*Message #7 Posted by [Gordon Dyer](#) on 8 Jan 2003, 10:15 a.m.,
in response to message #6 by Vieira, Luiz C. (Brazil)*

Hi Luiz, I would be interested an the scans of the PCBs.
Thanks
Gordon

Uploading right now!

*Message #8 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 8 Jan 2003, 11:07 a.m.,
in response to message #7 by Gordon Dyer*

Hi, Gordon;

They're going to you right now.

Best regards.

Can you please email me the pics too ? nt

*Message #9 Posted by [Harry \(Germany\)](#) on 7 Jan 2003, 4:15 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

No text

They are on the fly by now.

*Message #10 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 7 Jan 2003, 5:48 p.m.,
in response to message #9 by Harry (Germany)*

Hi;

hope you enjoy.

Best regards.

Re: They are on the fly by now.

*Message #11 Posted by [Y K Wong \(Singapore\)](#) on 7 Jan 2003, 6:51 p.m.,
in response to message #10 by Vieira, Luiz C. (Brazil)*

Hi Vieira,

Did the last batch of 12C change to 3V single battery? Can I have some pictures too :-)

Yours are on the fly by now, too.

*Message #12 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 7 Jan 2003, 7:00 p.m.,
in response to message #11 by Y K Wong (Singapore)*

Hi;

the zipped file with the pictures is uploading right now.

Cheers.

Re: Yours are on the fly by now, too.

*Message #13 Posted by [Y K Wong \(Singapore\)](#) on 8 Jan 2003, 12:20 a.m.,
in response to message #12 by Vieira, Luiz C. (Brazil)*

Hi Vieira,

Thank you so much for the pictures...The reason I ask was because I have a few 12C and they were all manufactured in either U.S. or Singapore and I do not own one that made in China. Recently, I have acquired a 12C with really cheap looking printed "keys", one 3v CR2032 battery (similar to your images of those made in China), however, there is no back label and totally without serial number! Since the calc is currently at home, I might open it up tonight to compare against your pictures. By the way, I got this calc from the same gentlemen that sold me the X25 and Xpander and he used to work closely with ACO!

Cheers

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

No HP 12c at Business Depot

Message #1 Posted by [Paul Guertin](#) on 3 Jan 2003, 5:15 p.m.

Business Depot / Bureau en Gros (a Canadian chain of 175 Staples-like office equipment superstore) recently took the HP 12c off their business calculator line. The salespeople told me it was discontinued, but it's still listed on the hp.ca site.

Re: No HP 12c at Business Depot

Message #2 Posted by [Pyerre](#) on 5 Jan 2003, 12:25 a.m.,
in response to message #1 by Paul Guertin

Before Xmas, the salesman told me that they (Bureau en Gros) only have the HP-10BII & the HP-30S available for sale. I've took a chance to insist for other HP models & he's finally found the last HP-12C(1) & HP-39G(2) in their spare stock.

NS. There was also a liquidation section in the corner laying around doing nothing, belong to a mountain of "no people interested"s things, a HP-10B(new) & a HP-42S(NIB). But this is another happy story ;-)

Pyerre

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 67 also an early “Game Boy”

Message #1 Posted by [Masao Kinoshita](#) on 3 Jan 2003, 12:26 p.m.

IMHO, the HP 67 was also* an early “Game Boy.” A real Games Pac was available for it and the most popular program in the HP 67/97 Users’ Library was the amazing 7 mag card Star Trek program. I even bought a checkers program and my 67 really played it, though not very well. Nowadays, there are several chess programs for the 48!

Visit my site comparing the 48GX with the Nintendo Game Boy Color: <http://hometown.aol.com/btsbrighteyes/HP48-CGB.html>

*“Also,” in the sense that it was a real calculating tool first. :-)

Re: HP 67 also an early “Game Boy”

Message #2 Posted by [Mike Sebastian \(Texas\)](#) on 3 Jan 2003, 8:45 p.m.,
in response to message #1 by Masao Kinoshita

Very interesting comparison. The Game Boy has its own fans too. For example, see <http://www.devrs.com/>.

Re: HP 67 also an early “Game Boy”

Message #3 Posted by [Masao Kinoshita](#) on 6 Jan 2003, 12:07 p.m.,
in response to message #1 by Masao Kinoshita

I forgot to mention that the checkers for the HP 67/97 was all on one mag card! That’s pretty amazing in itself.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Removing hard glue from HP-28S?

Message #1 Posted by [Holger Weihe](#) on 3 Jan 2003, 11:19 a.m.

Hello,

I recently got a 28S. It is in good condition except some glue in the cover. It is very hard glue, not like from textile band. The glue is above the alpha-keypad and covers the onprinted documentation.

Do you know any good method of removing such glue without damaging the calculator? I tried to cut it away with a knife, but only some sand-like parts came off. How durable is the printed documentation in the cover? Can I continue scraping on it and try several chemicals or better not?

Are there any chemicals which soften the glue but not the calc?

A bit of the same glue is on the calculators backside. Because of the bumpy surface there, it will be impossible to mechanically remove the glue without removing some of the calculators plastic. What could I do here?

Thanks for any advise...

Holger

Re: Removing hard glue from HP-28S?

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 3 Jan 2003, 4:28 p.m.,
in response to message #1 by Holger Weihe

Hi;

I tested an "all-glue removal" once, from Loctite, the same co. that produces SuperBonder. I still have it, and it is composed by Propylene Carbonate. Maybe you can find it easier, because I bought it in a small supermarket. Also, all inscriptions are in Portuguese, so I do not have the original names in English, just the translations.

Unfortunately it not only dissolved the glue (SuperBonder) but also melted the plastic where it was. Anyway, if I understood it well, your HP28 has glue over the upper left-shell, the one with the ALPHA keyboard, where you read some information about the different object types that the HP28 can deal with, right? This printed portion of the shell is protected by a rugged, transparent coat (acetate?). MAYBE this material is not melted by the all-glue removal, you should try. The worst is that I am not sure about what material is this protective coat made of, so you could test it before using in the calculator itself.

If you have any success, let us know, please.

Best regards.

Re: Removing hard glue from HP-28S?

Message #3 Posted by [David Smith](#) on 3 Jan 2003, 4:42 p.m.,
in response to message #1 by Holger Weihe

I have found that Coleman camping fuel (white gas, cigarette lighter fluid) works very well at removing most adhesives, paint residues, and sticky gunk from calculator cases. It does not seem to affect the case or labels. I can leave some "water marks" on the keyboard backgrounds.

Also strong (91%) isopropyl alcohol works well. Unfortunately it can cause some clouding of clear display windows (which can be cleaned off) and on a few labels it can remove the ink. Whatever solvent you try, first test it in a hidden area.

Re: Removing hard glue from HP-28S?

Message #4 Posted by [Holger Weihe](#) on 4 Jan 2003, 12:15 p.m.,
in response to message #1 by Holger Weihe

Thanks for your hints so far. Until now I tried everything I found at home but no success. (desinfection spray, terpentine, Isopropyl, lighter-gas, barbeque-grill-cleaner, rust-solver... I will buy some acetone next week.

By the way - the HP28 is very durable! The above chemicals did not damage it. (I wouldn't try that with a more valuable calc of course!)

Maybe I should burn it off? ;-)

Holger

Re: Removing hard glue from HP-28S?

Message #5 Posted by [David Smith](#) on 4 Jan 2003, 12:53 p.m.,
in response to message #4 by Holger Weihe

DON'T use acetone. It will definitely remove the label paint and damage the plastic.

Re: Removing hard glue from HP-28S?

Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 4 Jan 2003, 3:30 p.m.,
in response to message #4 by Holger Weihe

I'd say the same about acetone! Do not use it. Definitely will damage the painting (even the cover) or leave watermarks. (cloudy white spots)

But burning it out? Oh, boy! ;-D

Re: Removing hard glue from HP-28S?

Message #7 Posted by [Holger Weihe](#) on 5 Jan 2003, 3:48 p.m.,
in response to message #4 by Holger Weihe

Hello David and Luiz,

UH, thanks for your acetone-warning! I will let it in the shop. Maybe it is the best to leave the calculator as it is.

I have another HP-28S without glue, but with a broken battery compartment. Maybe I'll try to exchange some parts between the two.

Holger

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Predictions for 2003

Message #1 Posted by [Paul Brogger](#) on 3 Jan 2003, 11:10 a.m.

Hey . . .

Check out [Robert X. Cringely's](#) prediction #1.

Not that anyone *here* is going to be very surprised . . .

Re: Predictions for 2003

Message #2 Posted by [Nenad Vulic \(Croatia\)](#) on 3 Jan 2003, 5:44 p.m.,
in response to message #1 by Paul Brogger

Comparing the HP/Compaq merge with a train wreck... Simply, there are not any better words to describe the present situation about the new HP, having in mind that both trains are crashed with a total loss.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP71 -> PC

Message #1 Posted by [Jörg](#) on 3 Jan 2003, 3:53 a.m.

Hello, I need assistance of you. I would like to connect the HP71 by the HP 82401A HP-IL Interface with the PC. I have thereby a problem with the addresses. As I place the address on the HP-IL Interface and as I find the correct address on the PC.

Jörg

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP11C Bedienungs- und Programmierhandbuch - a curiosity

Message #1 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 3 Jan 2003, 12:55 a.m.

Hi;

if there is someone with an HP11C originally commercialized in German, I'd like you to help me satisfying one curiosity of mine. Battery changing is shown on pages 232 and 233 (May 1983, Rev. B). I have an HP11C and its back drawings are different. The ones shown are exactly the same as the HP12C's back drawing. I was told that the HP11C commercialized in German is like this. Well, I cannot say a word about it, but the statistics data in both HP11C and HP12C use different register numbers. In the German HP11C's "handbuch", the back drawing shows the HP12C's statistics registers, what is wrong.

Does anybody know anything about it?

Just curiosity.

Re: HP11C Bedienungs- und Programmierhandbuch - a curiosity

Message #2 Posted by [Holger Weihe](#) on 3 Jan 2003, 6:40 a.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

Hello Luiz,

I have a 11C with german "Handbuch". The backside which is shown in the manual at the mentioned pages is different than the real one. Supposingly they just took the battery-change-photo from the 12C because the battery replacement is the same.

I don't know if my 11C is commercialized in Germany, but since I got it together with a german manual, I suppose that it has been sold here.

My 11C's backside exactly matches the one shown in the museum. It has also U.S.A. stamped beside the serial number.

Holger

Re: HP11C - Thank you!

*Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 3 Jan 2003, 9:50 a.m.,
in response to message #2 by Holger Weihe*

Hi;

Thank you for your answer. I believe that if it was bought in German it must be the one that's commercialized there.

Best regards!

Re: HP11C Bedienungs- und Programmierhandbuch - a curiosity

*Message #4 Posted by [Erich Neubacher](#) on 3 Jan 2003, 12:28 p.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)*

Hi,

don't know if my 11C's were commercialized in Germany, all have the same back drawings, but these are different than the ones shown in the manual (e.g. 00011-90002 German 12.81). That's no surprise, because the drawings in the manual don't show the characteristic functions of the 11C, the drawings look like short functions-charts of 12C.

curious, indeed. (Hmm, first historical appearance of cost reductions by Fiona ?)

thx.....(h)appy (p)rogramming.....Erich N.

(BTW, Luiz, my evil 11C [you remember ?] has - in the moment - the generosity to do the things he is designed for. But he doesn't fool me, I don't trust him anymore < crossing fingers >)

Good news, indeed...

Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 3 Jan 2003, 1:28 p.m.,
in response to message #4 by Erich Neubacher

Hey, Erich;

good to know it is alive. What sort of measures did you take? What did you do? Even if briefly, tell us about it. Maybe others are curious, too... Thank you for remembering.

About the photos in the German HP11C's Programmierhandbuch: mine is dated May, 1983, and I have a Brazilian printout (original) dated 1981. I believe Fiona was not at Hewlett-Packard's office then, because good stuff came from there after this date (if she was there since then, HP was already doomed). Anyway, the Brazilian manual has the HP11C's back drawings (p. 239 and 240) instead of the HP12C's shown in the German version. I had a look at the museum's scan for the HP11C's manual, English version, and the same photos presented in the Brazilian version are there. For now, only the German manual has different images.

Best regards and a better 2003.

Re: HP 11C Good news, indeed...

Message #6 Posted by [Erich Neubacher](#) on 3 Jan 2003, 1:57 p.m.,
in response to message #5 by Vieira, Luiz C. (Brazil)

Hi Luiz,

OK, my best 11C is alive. What measures did I take to achieve this ? Hmmm, nothing special. The usual procedures.....remove batteries...short cut (with [!!!] and without batteries inserted)...keep it in the shelf for some weeks (without batteries)....then some day it starts breathing...until now.

I'm very suspicious about 11C's, I think they all have some 11c-specific major design or production flaw inside, concerning keyboard-control or power-supply.

happy programming.....Erich N.

Re: HP 11C Good news, indeed...

Message #7 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 3 Jan 2003, 2:53 p.m.,
in response to message #6 by Erich Neubacher

Hi;

As I probaby mentioned at the time I read and answered your post, there is a common problem I found in many Voyagers, being them HP11C, HP15C or HP12C (all types): bad soldering contacts. I cannot say anything about the HP10C because I saw only one till now and the HP16C, because the only one I know so far is the one I have.

Anyway, by simply resoldering all IC's terminals in these machines allowed me to bring a dozen of them back to life. In many cases, the symptoms used to come and go from time to time, sometimes weather dependant (metal shrinks and expands with temperature, so bad contacts come and go with temperature variations, if bad contact occurs; in Brazil we call it "solda fria" or "cool-solder", being cool a low-temperature reference, not a good-stuff reference). Have you observed this? Is it cold in Deutschland for these days? You are in Deutschland, aren't you?

Well, time will tell. I do not think the HP11C's are guilty as charged, after all. They are good, reliable calculators. Maybe after more than 12-15 years they allowed themselves to look as normal as other calculators... Who knows?

My best regards.

Happens on 42S/27S/14B too

Message #8 Posted by [Randy Sloyer\(US\)](#) on 3 Jan 2003, 4:59 p.m.,
in response to message #7 by Vieira, Luiz C. (Brazil)

The most common failure in the 42S class machines is solder connections on the 8k ram chip. It seems the case back is in direct contact with the chip and any flexing and twisting of the case imparts stress on the surface mount solder pads.

Over time the solder connections fracture and leave the calculator either intermittent or completely dead. The most common failure point is pin 14, the common pin of the supply.

If you open a calculator with problems, look for the tell-tale rubbing of the chip on the aluminum esd shield mounted in the case back. 5X magnification will reveal cracked connections. Simply resolder all 28 pins for good measure. Don't

attempt to resolder the cpu pins!! The spacing is too tight for manual methods and these don't fail, has there are not under stress loading from the case.

Re: HP 11C Good news, indeed...

Message #9 Posted by [Erich Neubacher](#) on 4 Jan 2003, 7:20 a.m.,
in response to message #7 by Vieira, Luiz C. (Brazil)

Hi Luiz,

[bad soldering contacts]

this would explain the behavior of this species.

[the symptons used to come and go from time to time, sometimes weather dependant. Is it cold in Deutschland for these days? You are in Deutschland, aren't you?]

Yes, I'm living in Deutschland. The term "cold" is a little bit cloudy, e.g I'm living in the Rhineland, here we had 10 degrees Celsius (PLUS !!!) last days. Same time around Berlin they had minus 6 to 10. Generally in the Rhineland we have mild winters. OK in August we had some heat, but you cannot compare this with other regions. In general we have no great changes in temperature and humity here. Beside this the calcs are used inside the house, where the temparature keeps around 18 to 20 degrees Celsius .

["solda fria" or "cool-solder"]

Interesting in german we called this " kalte Lötstelle ", i.e. cold soldering.

happy programming.....Erich N.

Oops! My mistake..

Message #10 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 4 Jan 2003, 9:20 a.m.,
in response to message #9 by Erich Neubacher

Oops!

the correct term is "Cold Solder", not "Cool solder".

Thenk you and sorry...

Re: HP11C Bedienungs- und Programmierhandbuch - a curiosity

Message #11 Posted by [Holger Weihe](#) on 7 Jan 2003, 7:48 a.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

Hi Luiz,

the following auction shows an 11c with german handbook and a photo of the cover:

<http://cgi.ebay.de/ws/eBayISAPI.dll?ViewItem&category=19834&item=752917873>

another prove.

Holger

Curiosity satisfied.

Message #12 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 7 Jan 2003, 9:52 a.m.,
in response to message #11 by Holger Weihe

Hello, Holger;

based on these photos, we can also verify that the HP11C commercialized in Deutschland was made in USA. The back label is, indeded, the same.

Danke.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Rebuilding HP41C and 82143A posts, OOPS and other (good) stuff

Message #1 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 2 Jan 2003, 11:42 p.m.

Hi;

I have seen many people in trouble with the HP41 posts and consequent bad contacts, **MEMORY LOST** and all sort of malfunctions. A few days ago I tried a "new" method when one post definitely broke in many pieces. After getting into panic and restoring my temper, I put my brain to work and it worked, believe me! I had an idea: rebuild the post instead of restoring the broken one.

I dig a bit of my old stuff and found some styrene trees from old plastic models. I took the most resistant and cut a piece of it, the one with a diameter as close as to the original post. In the calculator I cleaned the surface where the post used to be and dig a hole exactly in the same place by using a small, sharp edged screw driver (you can use a better tool, of course), taking care to keep a small plastic ring around the hole. I worked a bit on styrene piece and made a recess in the edge, so it fit in the hole I dig. After cutting the styrene's opposite edge so it reached the original post's size, I used superglue to join the new post to the calculator and used a small modeler wrench to keep it in place. A few hours later I hand drilled (more precision) a small hole in the new post (styrene is somewhat soft) and force a new thread with the original screw and a screw driver. It worked perfectly. I rebuilt five posts in my calculators and today I rebuilt two posts in my 82143A. In the 82143A I also used metal sheets from old alkaline battery, folded as small tubes, to reinforce and keep in place the new styrene post I use to replace a broken one. It was too "tall".

Curiosity: there is an OOPS printed in the 82143A closed to the paper sensor. At the time I first saw this OOPS I could not understand why HP designers would write oops in the paper sensor... Aaah! Out-Of-Paper Sensor! Its O.O.P.S., for heaven's sake...

The good news is that I took some pictures of the rebuilding process (HP41 post only), step by step, but the (digital) camera I used is not mine, and my brother is sending these pictures back to me next week (maybe Wednesday). I'm not sure the pictures are good, mostly because the camera has no zoom lenses, I could not approach too much and used no support except my hands. I'm afraid they will give no good resolution, I cannot promise. If they are viewable, would you like them to be part of an article? I'll add specs like measurements and precautions.

Please, let me know what you think about it.

Oh, yes: I placed the contact leads in the correct position (Dam it!) and recovered the HP55 batteries: it is working perfectly. I used high-voltage capacitor discharge (about 310Vcc) to remove internal short circuit in the original battery pack. The batteries are charging normally.

I rebuilt two 82143A battery packs from three completely exhausted packs after applying this "dangerous" technique. The two remaining 82143A battery packs are working fine for about three months.

Today has been a good day. I think I can share these facts with you, mostly because some of you may be interested on recovering HP41 (and others) posts. About batteries, I can give more details. If this procedure is already known by someone that also knows disadvantages or dangerous consequences, please, reply this post before someone gets hurt or have his batteries damaged. If you have never done this sort of battery recovery before, please, do not try. I will not be responsible for consequential loss.

Cheers.

Re: Rebuilding HP41C and 82143A posts, OOPS and other (good) stuff

Message #2 Posted by [Holger Weihe](#) on 3 Jan 2003, 6:46 a.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

Hello Luiz,

of course I would like this post to become an article, so it does not dissappear. Even without the photos it could help. But it would be nice to see at least a photo of the "styrene trees". Since I am no model builder, I have none at home and must use something similar. :-)

Holger

Re: Rebuilding HP41C and 82143A posts, OOPS and other (good) stuff

Message #3 Posted by [gifron](#) on 3 Jan 2003, 9:20 a.m.,

in response to message #2 by Holger Weihe

The trees are what hold the plastic model parts. You know, you break the parts off the tree.

But, I would like more information on the battery pack recovery. What is the danger that's being referred to?

Thank you.

Re: Rebuilding posts: two points

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 3 Jan 2003, 10:12 a.m.,

in response to message #3 by gifron

Hi;

Yes, the trees are the plastic tubular shape "holders" that people usually throw away. I keep them for many reasons, and sometimes it is a lot usefull. Now more then nevr! And their tubular shape called my attention: I never thought about it before. I was affraid they could not hold the screw thread, but if you go with care, the thread holds it tight and firmly. If the thread looses, you can remove the post and rebuild it again.

I was once told that inverting polarities when submitting rechargeable batteries to high voltage may cause explosion and/or leakage. I though it would happen only if the high voltage is constant, not a pulse from charged capacitors, but as a precaution advice, it must be taken into account. I used the AC input capacitors and rectifier bridge from a disassembled PC power supply plus a regular 60W bulb lamp in series only to charge them (reduce peak current). I could recover about a dozen short-circuited rechargeable batteries, and definitely throw away some others.

I know it's risky, but I have some batteries working in my 82143 for almost three months and they are running fine.

Hope this is what you want.

The two points are:

1) if you use other plastic solvent instead of superglue, think that you should try it with matching plastics, say, try to use the same plastic used in the HP41C's case, so the solvent will melt and fuse the same material; I do not know what's gonna happen if

plastics are different. As I do not have plastic solvent, I thought superglue a good choice, and it worked fine

2) I removed the keyboard so I could work with mre freedon: no keys to glue together, no contacts to care about... it's easier when the keyboard is already removed.

In fact, I have three fullnuts with the keyboard removed and the case screws are enough to keep them in place. I did not rebuild the plastic rivets. I think the Voyager's keyboards are a lot more complicated...

I hope this helps.

Cheers.

Rechargeable battery recovery: fair credits

*Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Jan 2003, 8:55 a.m.,
in response to message #3 by gifron*

Hi;

after wondering around some articles, I found [this](#) very important information. I must say I was not aware of this particular article from Steve (Australia) when I posted my own about batteries.

The information herein is a lot important and precise. Should anyone try to recover their calcualtor's rechargeable pack, do it.

It is important to know, also, that too old packs will not keep the same performance. In my particular case, after some charge/discharge periods (ouside and inside the calcualtor), the oroginal HP55 pack (about 18 y.o.) cannot hold the chronometer for more than 35 minutes (hh.mm.ss display only). I am not sure about how long would the original, fully-charged pack hold it, but I think this is less time then it would if new.

Any additional information?

Cheers.

Re: Rechargeable battery recovery: fair credits

*Message #6 Posted by [Katie Wasserman](#) on 6 Jan 2003, 11:53 a.m.,
in response to message #5 by Vieira, Luiz C. (Brazil)*

This technique for recovering nicads has been around for decades. It's most helpful on nicads that have seen few charge/discharge cycles but have internally shorted just the same. Cells that have had many charge/discharge cycles can be recovered too, but the fix won't last long.

Steve's article recommends using a high voltage capacitor to do the trick, but I don't. You're much safer using a very large value, low voltage capacitor like the kind you'll find in old DC power supplies. Something about 50,000uf at 20 volts works well and is much safer.

The key to zapping old nicads is to feed in enough energy to break the short. Energy storage in a capacitor is given by $\text{volts}^2 * \text{capacitance}$ so the high voltage. In Steve's example he was charging a 160uf capacitor to around 125 volts giving 2.5 joules. A 50,000uf capacitor charged to 15 volts will give 11.25 joules and although you'll get a bigger "bang" it's got little chance of hurting you. But keep in mind that you'll need to use much thicker wires between the capacitor and the nicad cells when you zap.

-Katie

I'll try this...

*Message #7 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Jan 2003, 4:14 p.m.,
in response to message #6 by Katie Wasserman*

Thanks for the tips, Katie. I have a 40,000uF/70Vwv Siemens "oil-can" that will probably be charged soon...

Cheers.

Re: Rebuilding HP41C and 82143A posts, OOPS and other (good) stuff

*Message #8 Posted by [Håkan Thörngren](#) on 7 Jan 2003, 11:20 a.m.,
in response to message #3 by gifron*

You DO NOT break the parts off the tree. You clip it off, peroid. Otherwise you may damage the part you take off (part of the part left on the sprue (plastic tree)).

/Håkan (model builder :-)

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Learning RPN.

Message #1 Posted by [K. Crowe](#) on 2 Jan 2003, 3:58 p.m.

Im trying to become efficient with RPN but I need some practice questions and examples to try, there are only 2 in the 49 manual, and I have also been through the section on this website. Is there a website with a bunch of examples that I could work through?

Thanks.

Re: Learning RPN.

Message #2 Posted by [Paul Brogger](#) on 2 Jan 2003, 6:57 p.m.,
in response to message #1 by K. Crowe

If you're willing to spend some money, you might buy a set of CD's from the [Museum](#). The many manuals (for various RPN models) reproduced therein will contain LOTs of examples.

(And there'll be lots of other good stuff, too.)

Re: Learning RPN.

Message #3 Posted by [Howard](#) on 2 Jan 2003, 8:24 p.m.,
in response to message #1 by K. Crowe

<http://www.hpmuseum.org/rpn.htm>

Re: Learning RPN.

Message #4 Posted by [J Neely](#) on 3 Jan 2003, 12:12 p.m.,
in response to message #3 by Howard

Not to sound rude or anything but why not try using a math book? Most books have the answer answers to the odd numbered questions in the book of the book. That way you could check to see if your calcuation procedure using RPN is correct.

Re: Learning RPN.

Message #5 Posted by [K. Crowe](#) on 3 Jan 2003, 12:58 p.m.,
in response to message #4 by J Neely

Ive been working out of my texts, I was just wondering if there are any websites that have RPN solutions all written out. Thanks.

You already know it! (Now, can someone teach me Algebraic?)

Message #6 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 4 Jan 2003, 9:55 a.m.,
in response to message #1 by K. Crowe

From the point of view of many people here, including myself, RPN is much more natural than any other calculator operating style; that's why we refuse to leave it! That's why I would say you already know RPN...

I would suggest to visit some pages here at the MoHPC web site, and/or obtain some HP calculator manuals dated before 1990, and just try, you will find it very easy to "learn".

Welcome, and good luck!

My name on this list, please!

Message #7 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 4 Jan 2003, 10:16 a.m.,
in response to message #6 by Andrés C. Rodríguez (Argentina)

Hi, Andrés; como estás?

as well known by the others, I am also an RPN addicted, guilty as charged! But Algebraic is nice... to learn math. If Jan L/ukasiewicz had invented math, mankind would have another history.

Please, Algebraic guys: I program in C and C++, so I have, no regrets at all, to use algebraic form. Gladly!

cheers.

RPN

Message #8 Posted by [Michel Beaulieu](#) on 4 Jan 2003, 11:53 a.m.,
in response to message #6 by Andrés C. Rodríguez (Argentina)

I agree with you, it's easy to learn, But why is it disappearing? Probably because RPN calculators were not in school or students budget limits no? I learned math with the help of TI calculators so it's difficult for me and a lot of students to change when you don't encounter RPN calculators.

TI should have built a line of RPN calculators at the same price of a TI-30 in the 70' and probably their should be more RPN in school now.

I have a TI-83 and install a flash application call "RPN III"!!! It's fun but not a lot of functions of the calculators are integrated with this application. Someone should try to make a TI graphing completely RPN by doing a new operating system. :-)

Re: RPN

Message #9 Posted by [Paul Brogger](#) on 6 Jan 2003, 10:39 a.m.,
in response to message #8 by Michel Beaulieu

Imagine how things might have developed had H-P introduced a parallel line of simple, low-cost, minimal-features RPN calculators for entry-level users (read: "students"). H-P could have retained the high-cost, upper-end programmable and HP-IL model lines, while simultaneously offering to even the budget-obsessed the legitimate option of using RPN rather than Algebraic.

If TI could make scientifics for \$30.00, H-P could have as well. Teachers could even have recommended an H-P model for their classes! H-P might have branded them differently, or qualified the series' name somehow, to protect the image of the upscale models.

Once, say, *half* of the emerging user market was exposed to RPN and could appreciate its advantages, the trade-up path to H-P's more expensive models would have been taken at *least* as often as that across to less-expensive Algebraics.

By refusing to compete on price in the entry-level market segment, H-P sowed the seeds of destruction for its calculator product line, and for RPN along with it. Which, by the way, makes their current strategy look all the more brain-dead: a Hewlett-come-lately entry into the no-margin end of the market, with essentially generic products. Incredibly, these models lack the **only** product differentiation which might be offered by H-P via re-branded hardware -- RPN!

I think I'm quoting another MoHPC Forum contributor when I repeat: It's no longer infuriating -- just bloody depressing . . .

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-33E POWER SUPPLY BOARD

Message #1 Posted by [jia](#) on 2 Jan 2003, 12:58 p.m.

I have got an old HP-33E which doesn't work as result of a problem in the power supply board.

I think a transistor is failing (there are four), but it is hard to get a replacement for these components.

May be somebody knows which transistor I can use.

Thanks in advance

Jon

Re: HP-33E POWER SUPPLY BOARD

Message #2 Posted by [Pyerre](#) on 2 Jan 2003, 5:32 p.m.,
in response to message #1 by [jia](#)

I don't but Viktor knows how :

<http://www.rskey.org/calckb.htm>

HTH

Pyerre

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

replacing NiCd packs with std batteries

Message #1 Posted by [Bernhard Haussler](#) on 2 Jan 2003, 11:18 a.m.

I "inherited" an HP 21 from a colleague who cannot resist collecting things that look like they could work. Being in Namibia the chances of laying my hands on a replacement battery pack and charger are slim. So I replaced the NiCd cells with 2 std aa penlight batteries. The calculator works ! ! ! !

However, I am concerned that the higher voltage may cause damage. Can anybody give me advice?

Thanks Bernhard

Re: replacing NiCd packs with std batteries

Message #2 Posted by [DaveJ](#) on 2 Jan 2003, 12:31 p.m.,
in response to message #1 by Bernhard Haussler

You should have few to no problems. many people have done it in the past. You can get individual NiCAD or NiMH rechargeable cells also.

Re: replacing NiCd packs with std batteries

Message #3 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 2 Jan 2003, 5:21 p.m.,
in response to message #1 by Bernhard Haussler

In my experience, alkaline AA batteries are acceptable, the excess voltage is within tolerances. Of course, I cannot offer any warranty. Please never use the AC adapter with non-rechargeable batteries; only use it with proven, good rechargeables and with clean contacts. Failure to do so will damage your calculator in a split second and beyond repairability. If possible, just avoid the AC adapter, and use an external recharger.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Swap Disc Review

Message #1 Posted by [Andy](#) on 2 Jan 2003, 9:39 a.m.

Hello everyone,

Over the past 5 months, I have been going through the PPC and CHHU swap discs (which can be found on this site). There are two version, one containing just the LIF files and another in which someone was kind enough to extract all the individual files from the LIF files.

So far, I have only been able to find references to some of the programs in the PPC and CHHU journals, but there are still many programs which are mysterious.

So, I was thinking that it might be a good idea to start a living document which attempts to document the programs on the swap discs. Hopefully there are folks out there who still remember their favorite programs and some details about them.

Please let me know what you think.

Andy

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

hp75 FORTH

Message #1 Posted by [Andy](#) on 2 Jan 2003, 9:33 a.m.

In PPC V2N1 there is mention of FORTH for the 75C. I found this LEX file in the hpswap archive on this site and have successfully copied it to my 75D. It appears to work but it would be really nice to have a manual.

Does anyone have any information on this intersting 75 LEX file?

Thanks,

Andy

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Willing to pay a lot for shipping from ebay?

Message #1 Posted by [gene](#) on 1 Jan 2003, 7:09 p.m.

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&category=302&item=2083670914>

This is a lot from the oregon police being auctioned off. Comes in at 600 pounds!

Says it includes some HP calculators, but doesn't specify which ones.

Perhaps someone in oregon might want to consider taking a chance? If so, you have to tell me if this is a skid full of HP-70s. :-)

If only we knew an Oregonian....

Message #2 Posted by [Glen Kilpatrick](#) on 1 Jan 2003, 8:11 p.m.,
in response to message #1 by gene

It's too bad we don't know someone in Oregon....

Say, what about Dave Hicks? Salem's less than an hour to the south of the MoHPC, we could all chip in a few dollars to the pot, and send him south. :)

Re: If only we knew an Oregonian....

Message #3 Posted by [Chris Catotti \(Florida -- far from Oregon\)](#) on 2 Jan 2003, 9:33 a.m.,
in response to message #2 by Glen Kilpatrick

Dave, I'll contribute \$100 (maximum) if you are interested. Freight is too much to buy for myself!

1. Summary of Charges
Weight Charge

Gross: 652 \$ 1016.01

Discount: 35% - 355.60
Fuel Surcharge: + 23.11
Total Charges: \$ 683.52

Service Time: Unable to determine service time from Salem OR 97301 to Oviedo FL 32765.

Oviedo FL 32765 is an indirect point.

Please call customer service at (800) 285-6254 for service information
or contact us at CustomerService@oakh.com

Tariff: OAKH500A.020701.011080

2. Shipment Detail

City State Zip Terminal

From: SALEM OR 97303 0

To: OVIEDO FL 32765 0

Ship Date: 01/02/2003

Terms: Prepaid

Class Weight Rate Amount

Item 1: 100 652 155.83 1016.01

Item 2:

Item 3:

Item 4:

Item 5:

Pieces: n/a

I could pick it up in about a week or two

*Message #4 Posted by [Dave Hicks](#) on 2 Jan 2003, 3:23 p.m.,
in response to message #3 by Chris Catotti (Florida -- far from Oregon)*

if that works for someone who wants to bid on it. I would probably have to toss the non-HP items because the whole pile won't fit in my car and I wouldn't know what to do with the excess stuff anyway. In exchange for the service, I'd pick out an item or two for myself.

Also, be prepared to help pay a fee for dumping if I can't find a free way to get rid of the excess stuff. They may not be amused at the idea of me picking up only 2% of the pallet :)

If that's OK then bid and email me.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-41 Synthetic Programming Question

Message #1 Posted by [Jeff Davis](#) on 1 Jan 2003, 6:50 p.m.

Is there a way to obtain the following by using the Byte Grabber? $X \leq M$ Please let me know. Best Regards, Jeff

Re: HP-41 Synthetic Programming Question - I'm curious, too

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 1 Jan 2003, 7:18 p.m.,
in response to message #1 by Jeff Davis

Hi;

you want to compare X-Register contents with M-register (ALPHA set) contents?

You know, when I began dealing with Synth programs I thought a lot of new stuff could be done. Well, I saw many new things being done, but this particular operation is teasing. The HP41CX allows $X \leq NN$ (and all available comparisons), where NN is the number of the register which contents are to be compared with X-register contents. That's the closest I remember.

Now I'm curious, too.

Cheers.

Re: HP-41 Synthetic Programming Question - I'm curious, too

Message #3 Posted by [Jeff Davis](#) on 1 Jan 2003, 8:29 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

I want to make my program as short as possible. Trying to eliminate the RCL M statements and just compare the #'s. I do not need the numbers per say in the alpha registry just the ability to transfer program execution based on the comparison. Any ideas? Best Regards, Jeff

Re: HP-41 Synthetic Programming Question - I'm curious, too

Message #4 Posted by [Gene](#) on 1 Jan 2003, 10:07 p.m.,
in response to message #3 by Jeff Davis

I don't believe this is possible. Sorry.

Gene

Re: HP-41 Synthetic Programming Question

Message #5 Posted by [Ernie Malaga](#) on 2 Jan 2003, 12:57 a.m.,
in response to message #1 by Jeff Davis

>Is there a way to obtain the following by using the Byte Grabber? $X \leq M$

Jeff:

Synthetic programming does wonders, alas, not miracles. Specifically, it cannot create a brand-new instruction (such as $X \leq M$). SP has come up with a few new instructions (such as eGOBEEP and W') but those are exceptions.

Unfortunately, there's no way to code an $X \leq M$ (at least to my knowledge).

By the way, if both X and M contain numeric data, you can use the $X \leq Y$ test; if they contain alpha data, you **must** use $X \leq NN$ (available on the HP-41CX).

x<>y -Ernie

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Install of metakernel

Message #1 Posted by [Megumi Hayashibara \(Japan\)](#) on 1 Jan 2003, 5:53 a.m.

Hi.

I downloaded mk230.zip from hpcalc.org, and transfered RECV.KER and MKRAM.KER to HP48GX. When I tried to execute RECV.KER, HP48GX said, "THEN Error: Too Few Arguments".

What's wrong?

Re: Install of metakernel

Message #2 Posted by [R Lion](#) on 1 Jan 2003, 6:29 a.m.,
in response to message #1 by Megumi Hayashibara (Japan)

Try this:

Merge memory of port 1: MERGE1 Transfer MKRAM.KER and store it: B STO Transfer RECV.KER and store it: A STO

Put the name 'B' on level 1 and run A (press key A)

Raul

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

49g linsolve

Message #1 Posted by [karl](#) on 31 Dec 2002, 5:58 p.m.

I am curious how to incorporate the function "linsolve" into a program. I can use "linsolve" from the menu, but I would like to incorporate this function into a program. What are the arguments, how is the function called, and how are the solutions output? I am most comfortable with RPN programming. Thanks for your help.

Karl

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

hp200lx

Message #1 Posted by [M Neu](#) on 31 Dec 2002, 5:22 p.m.

I am looking for:

1. a utility which will allow importing .dbf or .csv files to .gdb. Importing tables is my objective. 2. a simple macro which will enable use of a database file as a lookup source for calculations within LOTUS 123, or the calculator 3. ir communication with an hp 48?

advice?

Re: hp200lx

Message #2 Posted by [Katie Wasserman](#) on 1 Jan 2003, 3:27 a.m.,
in response to message #1 by M Neu

Take a look at the programs on the SUPER site:

<http://www.palmtop.net/super.html>

GDBLOAD/GDBDUMP will do what you need for (1) and maybe (2). I don't know about IR communication with a 48, but I'm sure that you'll get an answer if you post to this list:

HPLX-L@UConnVM.UConn.Edu

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

IR Transfer 95LX to 200LX?

Message #1 Posted by [Bill](#) on 31 Dec 2002, 1:19 p.m.

hello, i was wondering if anyone knows if it's possible to transfer everything from a 95LX to a 200LX using the IR. I'm considering buying a 200LX. My 95LX has hours of data entry. I'm not sync'ing with my PC.

Bill

Re: IR Transfer 95LX to 200LX?

Message #2 Posted by [bill smith](#) on 31 Dec 2002, 9:25 p.m.,
in response to message #1 by Bill

yes, according to the 200lx manual, any ASCII file, as well as the Phonebook and Appointment Book files can be transferred by the built-in IR and Filer apps. once used in the 200lx though, the book files will not be compatible with the 95lx.

consider getting a PCMCIA card. they make great backup and transfer devices. sometimes really cheap on eBay (\$1>), but not all cards work on every model.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Do you want an X-pander?

Message #1 Posted by [Marx Pio](#) on 31 Dec 2002, 1:08 p.m.

Try the casio one.

http://www.casio.co.jp/edu_e/classpad/

Cheers

Pio

Re: Do you want an X-pander?

Message #2 Posted by [Michael O. Tjebben](#) on 1 Jan 2003, 11:53 a.m.,
in response to message #1 by Marx Pio

Very interesting post, Marx! Thank you for bringing it to our attention. It sure does seem a LOT like the Xpander! Even the form-factor and applications!

Good ideas must prevail...

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 1 Jan 2003, 12:48 p.m.,
in response to message #2 by Michael O. Tjebben

<8-D

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Year; [Enter]; Happy; New!

Message #1 Posted by [Paul Brogger](#) on 31 Dec 2002, 10:42 a.m.

...

;:-)

Re: Year; [Enter]; Happy; New!

Message #2 Posted by [R Lion](#) on 31 Dec 2002, 10:58 a.m.,
in response to message #1 by Paul Brogger

I wish you all the same. Raul

Re: Year; [Enter]; Happy; New!

Message #3 Posted by [Juan J](#) on 31 Dec 2002, 11:03 a.m.,
in response to message #1 by Paul Brogger

Here it goes in Spanish:

Nuevo!; [Enter]; Año; [Enter]; Feliz

Happy New Year to everyone. May the next year bring us more calculators and that much-expected models from HP.

Feliz ano novo...

Message #4 Posted by [Marx Pio](#) on 31 Dec 2002, 12:56 p.m.,
in response to message #3 by Juan J

Happy New year!!

Problems with HP95C

*Message #5 Posted by [Nenad Vulic \(Croatia\)](#) on 1 Jan 2003, 4:32 a.m.,
in response to message #1 by Paul Brogger*

The basic problem is that I don't have one :)

May the New Year bring a HP95C to everyone of you, together with health, happiness and prosperity...

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

random dots generator. . .

Message #1 Posted by [Tal](#) on 31 Dec 2002, 3:32 a.m.

Hi, All!

I would appreciate it if someone could give me a random dots generator program that works as a noise on the whole screen of the HP48.

I need the program as an introduction to another one.

Best regards, Tal

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

ebay as tax conduit

Message #1 Posted by [Bill](#) on 30 Dec 2002, 10:08 p.m.

I've noticed a fair amount of buying of hp stuff by one buyer who only seems to buy and not sell. I've also noticed a seller of similar items who mostly sells and does not buy. I've never seen the buyer buy or bid on any of the items the seller lists. Could these two be linked in some sort of tax scheme where the buyer gives the purchased items to the seller as a way to increase the amount of tax free gifting? Why else would the buyer purchase so many of the same items? There is a ready market for this stuff so it is easy for the seller to convert to cash. Interesting?

No but...

Message #2 Posted by [Mike](#) on 31 Dec 2002, 7:50 a.m.,
in response to message #1 by Bill

I know of one buyer, that often writes nasty grams to others when he is outbid. And for years has been whining about the high prices. He has even gone so far as to question the selling at high prices as dishonest.

Now, it appears he now sells under a different name and is NOW selling at high prices. Technically, I suspect the two accounts are registered under different persons (like a significant other). I see nothing wrong with what he is doing. It's just a little funny (or hypocritical) to challenge others and then do the same thing under a different name.

I'm almost 100% sure that the two accounts are the same person or at least closely related. One account bids but never sells the other sells but almost never buys. I know of only one purchase and a couple of bids.

I have seen one instance where this seller was outbid on one of their rare bids and the bidder account came back within an hour to make another bid. So both are bidding on at least one current auction.

There are four main types of items that this buyer buys and this other seller sells those same items. The categories are very different. And both accounts are from the same geographical

area. I suspect if someone checked the user contact information, they'd see the same city. I have not bothered to check as it is of little interest to me. It's just interesting. Many others have mentioned the connection between the two accounts also.

Further, he bids on almost 90% of all HP items. But his name never shows up on any of this other sellers items. Of course, if the two are related, he can't bid on them legally.

Re: No but...

*Message #3 Posted by [Bill](#) on 31 Dec 2002, 8:50 a.m.,
in response to message #2 by Mike*

would these categories be.. hp calcs, hp palm devices, sandisk memory for digital cameras, and mercedes accessories? Both buyer and seller for these are from the Northeast. I wonder if we're talking about the same people?

I believe we are

*Message #4 Posted by [Mike](#) on 31 Dec 2002, 10:09 a.m.,
in response to message #3 by Bill*

Exactly, at least those items have been bought by the buyer and sold by the seller. I think I have only seen one Mercedes item sold though. And yes, they are both from that part of the country.

At least 4 other people have mentioned the connection as well, on this forum.

Like I said, I don't have any real problem with this. It's just kind of hypocritical of that seller. I know of several people that he has sent nasty grams to, complaining about their high prices as being dishonest. I still have the emails from over a year ago.

Re: I believe we are

*Message #5 Posted by [Bill](#) on 31 Dec 2002, 10:31 a.m.,
in response to message #4 by Mike*

Could this be one of those occasions where both are bidding on the same item? <http://cgi6.ebay.com/aw-cgi/eBayISAPI.dll?ViewBids&item=1948634291>

MoHPC photo being used too!

Message #6 Posted by [Randy Sloyer](#) on 31 Dec 2002, 11:11 a.m.,
in response to message #5 by Bill

I was wondering how long it was going to take for one of Dave's great 3/4 view photos to show up on eBay. Wonder no longer.

While the ad looks like the seller spent quite some time on it, the MoHPC photo was used without the source being mentioned. At least they left the watermark in.

Re: No but...

Message #7 Posted by [David Smith](#) on 31 Dec 2002, 5:10 p.m.,
in response to message #2 by Mike

No only do you get nastygrams, but put a few bids on things he has bid on (hard not to do since he sprays bids across HP items like a cat in heat) and then he apparently starts bidding on items that you have outstanding bids on just for spite.

I have seen him place bids on every item that somebody has bids open on. His bids were placed in the exact order that they appeared in the other bidders list withing minutes of him being outbid on another item. He placed no other bids during that time frame.

And he has the audacity to gripe and moan and send nasty emails when people snipe... such behavior started many people (including me) sniping in the first place. Also his alter ego will ban you from "her" auctions.

From the timing of a lot of his bids he apparently uses an automated system of continually downloading item and bid searches from Ebay and looking for new listings or bids. He manages to snag all the tasty "Buy-it-nows" within minutes of their appearance. I might not like or agree with this tactic, but I certainly don't whine, send nasty emails, or retaliate becuase of it.

Re: No but...

*Message #8 Posted by [Scott](#) on 31 Dec 2002, 7:29 p.m.,
in response to message #7 by David Smith*

And so it seems I've been banned too from "her" auctions. Why else would she ban me - I've got good feedback and never had an opportunity to meet her.

I think their behavior really sucks. How many 12c's, 42s's, 200lx's, Curta's etc. does any one need? Even if he is a legit collector his behavior really turns us off, especially when he bids multiple times in leap-frog style in the early time of the auctions. No wonder we see eBay prices so high, nobody has a fair chance to acquire decent items and sometimes fair prices.

I mentioned this possibility months ago.

*Message #9 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 1 Jan 2003, 10:26 a.m.,
in response to message #2 by Mike*

Hi;

I mentioned this months ago. I do not follow e-bay because it's somewhat expensive having items "flying" to their destiny, so any e-bay deal will be higher when transport is to be considered.

But I was told, at that time, this was "not allowed", but the managers could not check if this sort of arrangement was a fact or just rumor.

If you want to, I can dig the Articles and find my post. About four (+/-) months ago.

Cheers.

Re: I mentioned this possibility months ago.

*Message #10 Posted by [Bill](#) on 1 Jan 2003, 10:27 a.m.,
in response to message #9 by Vieira, Luiz C. (Brazil)*

Please do and re-post. Thanks.

As requested.

Message #11 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 1 Jan 2003, 7:08 p.m.,
in response to message #10 by Bill

Hi;

have a look [here](#) and tell me if this is not the same situation.

Cheers.

This is even better

Message #12 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 1 Jan 2003, 7:10 p.m.,
in response to message #10 by Bill

Please, read [this one](#), also.

Re: ebay as tax conduit

Message #13 Posted by [Ren](#) on 31 Dec 2002, 5:57 p.m.,
in response to message #1 by Bill

Hmmm, you got me thinking, a money laundering scheme perhaps? The bidder really wouldn't need to worry HOW high the price is, and may have a "shill" helping to run them up. Or maybe the battery packs of these HP's are filled with white powder, and I don't mean the powder from corroded NiCd's either! And if the bidder should happen to lose the bid, the seller will actually sell the part and have the bidder find another one to sell. This gives the scheme some "air" of legitimacy. Does Ebay notify the Feds/IRS when certain "trends" surface?

Say what!

Message #14 Posted by [Mike](#) on 31 Dec 2002, 6:31 p.m.,
in response to message #13 by Ren

Look... we may think that there is some hypocrisy here and some may just now figure out what is going between these two accounts. And some may not like the tactics. But this kind of suggestion is simply off-the-wall (capital off-the-wall).

It really isn't even worth commenting on.

Re: Say what!

Message #15 Posted by [Ren](#) on 2 Jan 2003, 1:22 p.m.,
in response to message #14 by Mike

Mike, I meant it as tongue-in-cheek. But think about it, inflated prices could be a cover for laundering money. Ren

Re: Say what!

Message #16 Posted by [bill](#) on 2 Jan 2003, 2:46 p.m.,
in response to message #15 by Ren

money laundering maybe possible but in this case I think it is either a tax conduit or just a case of someone having way too much time and money on their hands. It is most unfortunate that this individual has chosen HP calc's to pick on as his hobby. Maybe this is good for the sellers in that price levels are higher but his and her behavior crowds out the supply of nice specimens for the rest of us more serious collectors and is irksome to say the least. I'm hopeful that T and CJ will pick up on this and just move on.

Re: Say what!

Message #17 Posted by [Dane](#) on 2 Jan 2003, 7:04 p.m.,
in response to message #16 by bill

I also recieved a nastygram, this type of behavior is disgusting. I have also seen several auctions when this person bid below the "buy is now" price with the minimum bid and never make another bid...I haven't figure that out yet but why cheat anyone who may want to buy the item?? I should add "buy it now" price for these items is alway very reasonable. Another one of the ebay "dealers" contacted me after I mentioned in this forum that I had a box of new in the wrapper mini cassetes which he wanted to buy at a reasonable price. He indicated a "hobby" interest so he couldn't afford to pay much for the cassettes. What he didn't know is I had bought one of his items on ebay so I knew his email.....I don't mind someone acting as a dealer, they do help all of us out from time to time....I can't stand a crook or lier. Interesting enough this same dealer is autioning off mini cassettes right now... The sad part of this type of behavior is even though is may be legal, we have no trust in ebay to police their sellers, they only care about the sale and getting their fee.

Re: Say what!

*Message #18 Posted by [db\(martinez,california\)](#) on 2 Jan 2003, 10:06 p.m.,
in response to message #17 by Dane*

on another site i have put a "for trade" list of mostly off brand (non hp) calculators that i find while looking for rpn units. i have gotten a couple of inquiries from dealers. how do i know they are dealers? they always ask "how much for the hp XX?" when it is clearly named a for trade list.

i make it pretty plain that i am not in this to find things for them to overcharge someone else for. one didn't seem too nice but has an honest reputation. he said some interesting things in the notes we wrote back and forth.

according to him; it is mostly engineers and such that are willing to pay the crazy prices that we see. these are invaluable tools to them. he said the collectors usually don't pay more than they are worth. (whatever that is!) i will take his word about that; working people don't always have the time to shop and worry about pennies. this is probably more true about the 32, 42 & 41 and to a lesser extent the 11c, 15c & 16c than other units.

i still think that it is some peoples over collecting that has done more to both drive up the prices and make it hard for others to obtain a single example of a calculator that they are interested in. however, i concede there are many reasons (but probably not money laundering) and my glass case is one of them.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Upgrading HP 11C

Message #1 Posted by [Ben Palmer](#) on 30 Dec 2002, 9:21 p.m.

I'm looking to upgrade my HP11C that I love; I want to have a second calculator for my office and keep the other one at home. I'm not looking to get a graphing calculator (they are too big and I won't use that feature). I'm looking for the calculator that has the most similar features (I don't ever write programs in the calculator but I do use a lot of the different scientific features). Is the 20C the most similar modern calculator (to the 11C) that you can find at stores; how come they don't list that calculator on their (HP's) site? Thanks for any help/advice.

Ben

Re: Upgrading HP 11C

Message #2 Posted by [Karl Schneider](#) on 30 Dec 2002, 10:33 p.m.,
in response to message #1 by Ben Palmer

Ben --

I think you mean "20S", not "20C", and it was discontinued a few months ago.

As far as the closest upgrade/equivalent to the 11C, that's easy -- the 15C! (discontinued 1989, but available for < \$200 on eBay and other resellers.)

They look virtually identical, but the 15C adds matrix functions, *good* complex number support, solve (real rootfinder), numerical integration, more RAM (448 bytes vs. 210), and more programming resources (flags, tests, labels). The 15C has *everything* the 11C and old 34C have, and then some.

Another reasonable alternative is the recently-discontinued 32Sii, which is faster and has alphanumerics and other features, but lacks matrix functions and has pidgin complex-number functions.

Take a look on the MoHPC site.

Re: Upgrading HP 11C

Message #3 Posted by [db\(martinez,california\)](#) on 30 Dec 2002, 10:36 p.m.,
in response to message #1 by Ben Palmer

there is nothing new being sold like you want right now. you can:

1) downgrade (for your use). buy a 12c and put one of the trig function programs that have been posted here in it. none are perfect but there are a couple that are very impressive very tight programming. the problem with them is that they need a couple of more steps than the 12c's memory has.

2) do what most of us are doing and wait till sometime in 2003 when hp will supposedly start marketing an rpn made by a company in taiwan. this may not be as bad as it sounds. good calcs have come out of singapore and indonesia.

3) grab your ankles and pay too much on ebay.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Need some help with trading.

Message #1 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 30 Dec 2002, 6:17 p.m.

Hi;

I have some HP calculators I'd like to trade with other stuff (or calculators, too). They are somewhat valuable items almost only for collectors, and I don't want money for them, only trading. I'd post an add at the Classified Adds, but I want any of the contributors to help me, so I'll have no problems like getting garbage for good stuff. As I always mention, I implicitly trust on all of you in here.

My calculators (three "collectible" items) are fine and original, except for the HP31E I'm figuring out a solution for its "not recharging batteries" (thanks, Katie).

I hope you forgive-me not posting it at the classified YET, because I'd like someone to help me, as I am a bit far from the "trading yard".

If there is someone interested on this subject, e-mail me. I'll list what I have and what I want, so I'll send my stuff and the "elected" one will do whatever he believes is needed, even get some fair profits, for trading the items. The details will be cleared by e-mail, as I believe this is not to be discussed in a wide basis.

Thank you very much.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

looks like the Museum pic of 12c on ebay

Message #1 Posted by [gene](#) on 30 Dec 2002, 12:17 p.m.

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&category=11713&item=1948705868>

No attribution given.

Re: looks like the Museum pic of 12c on ebay

Message #2 Posted by [y](#) on 30 Dec 2002, 2:15 p.m.,
in response to message #1 by gene

? What's this all about?

V

Re: looks like the Museum pic of 12c on ebay

Message #3 Posted by [explanation](#) on 30 Dec 2002, 7:47 p.m.,
in response to message #2 by v

All about?

How's about using copyrighted photos without permission?

This is the source:

<http://www.hpmuseum.org/12c.jpg>

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

What is wrong with the 28C/S?

Message #1 Posted by [Stan \(Sg\)](#) on 30 Dec 2002, 9:10 a.m.

Given how much the 42S and 32Sii have been selling for on E-bay, I am surprised that the 28C/S seem to be selling for relatively low prices. According to Holger Weihe's data set, these calculators have averaged \$40/copy. There are some current auctions in the same range for what look like reasonable quality calculators. These calculators retailed for \$235 (per the museum), almost twice as much as the 42S and much more than the 32S.

I have never used one of these before - when they were selling new I was put off by the hinge (seemed like a reliability problem and difficult to hold in one hand) - but now it seems like this may be a good time to add one to a collection.

PS: Thanks for keeping the ebay price history.

Re: What is wrong with the 28C/S?

Message #2 Posted by [Steve](#) on 30 Dec 2002, 9:46 a.m.,
in response to message #1 by Stan (Sg)

I've wondered the same thing. It's only slightly larger than the 32sii/42s, but has a larger display, and more functions and memory. It's well documented and a great way to learn user rpl before using the 48/49. On the downside, some of the 28s units have battery cover damage (what was HP thinking when they designed the 28/19B battery cover?).

If you can find a good one (I've found 3 "mints" for \$60 or less) they are a keeper!

Steve

Re: What is wrong with the 28C/S?

Message #3 Posted by [Paul Brogger](#) on 30 Dec 2002, 10:13 a.m.,
in response to message #1 by Stan (Sg)

The battery cover weakness is legendary. Another is the overall case construction. I gave one to my son, who usually kept it in his too-full backpack. It was apparently flexed constantly, and most of the little plastic pins holding the thing together broke. It's now in a few dozen pieces in a ziploc bag.

But otherwise a fine device, lacking only an input port. (If I remember correctly, some folks found a way to hook up an RS-232 connector.) It's probably now the least expensive of the HP RPN calculators.

Re: What is wrong with the 28C/S?

Message #4 Posted by [Bill Wiese](#) on 30 Dec 2002, 1:41 p.m.,
in response to message #1 by Stan (Sg)

Umm, it's not a 41C/CV/CX or 42S :)

I'm not a fan of the 28/48, etc that don't have std 4-level RPN stack, etc. They offer more features than I can use, and if I had a problem severe enough (even back in late 80s) I'd use a PC with fullsized keyboard etc. and some math software.

The 42S offered some real improvements to the 41. Unfortunately they got rid of nice keyboard, no I/O for upload/download, printer, etc.

Waiting for my dream successor to the 42S: - original 4-level RPN; - 4 or 5 line x 20 char (approx) alpha LCD; - has slot for SmartMedia flash memory card; - small database mgr to manage data on flash; - orig HP keyboard/keytops (like 11C/25C/41C etc) - non-staked keyboard for ease of cleaning & repair - bidirectional IR/RS232 port - USB port so device acts as a generic bulk USB device

Hell, I wouldn't even mind if this thing had a form factor like a 41C or HP25C! Feels good in my hand.

Bill Wiese San Jose, CA

Re: What is wrong with the 28C/S?

Message #5 Posted by [Glen Kilpatrick](#) on 30 Dec 2002, 2:17 p.m.,
in response to message #1 by Stan (Sg)

For me, the 28's were a major improvement over what came before, especially the 28S (enough memory for subdirectories, lots of object types to use, this wonderful stack that I no longer have to worry about something falling off the top). But there was this battery cover, the hinge, and gee, if only the display were a bit bigger.

So when the 48's came out, they had everything the 28's had, and everything they didn't, and the contest was over.

It's abundantly clear from postings of "wish lists" that there are two camps here, both respectful, but both very positive. If you post here, you almost certainly like either RPN or RPL, and probably not both. The 28's don't do RPN, the 48's do RPL so much better, and thus you have 28-as-collector's-item, not 28-as-favorite-calculator.

Re: What is wrong with the 28C/S?

Message #6 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 30 Dec 2002, 5:38 p.m.,
in response to message #1 by Stan (Sg)

IMHO, the demand for HP32Sii and HP42S is because these are 4-level RPN, simple programmable models. The 28C/S is the first RPL model, and for many people, me included, the operational and programming paradigms derived from the fundamentalistic reverse polish (1 10 FOR syntax), and the "infinite" stack (and things like nagging error messages when you just tried to clear a now-inexistent x register) are VERY unfriendly.

Oh, the simplicity of a "normal" CLx, and the NULL behavior of the HP41...

For those inclined to RPL, etc. (which I don't like), the 48 series is still available, with many newer features than the 28 series. And the hinge and battery door problems are gone, and the I/O is bidirectional...

Wrong? Nothing. It's just not RPN...

Message #7 Posted by [Randy Sloyer\(US\)](#) on 30 Dec 2002, 7:36 p.m.,
in response to message #1 by Stan (Sg)

What they said.

Yes, all valid points and good insight. IMHO, the 28 series represented a shift in thinking away from the classic 4 level stack RPN to RPL. If a 28 series machine was the first HP calculator you ever held in your hands and learned to use, it was great, which made the 48 series even better for you.

But, if you where born in the 40's or 50's and spent years waiting until you could afford an HP and your first machine was a classic, a Woodstock or a 41, the 28 series seemed foreign. Quick, open your 28S and give me the sine of 49.5, without having first reading the manual to find the function on the trig key. It was just, well, different. Too different for me. I didn't need a new calculator, so I just handed it back to the salesman and said "Thanks, but no thanks". Along with the 48 series machines, they were not a calculator to me, but something I didn't want or need to spend the the time to learn. I had 4 level RPN and I was VERY happy. Call me an vacuum tube guy in the solid state world, but I just didn't like it. I had a computer for that stuff. If I wanted to add 100 columns of sales commissions, give me 1-2-3. But , when I wanted to find out how fast to spin a shaft on the plant floor somewhere, give me my 42S any 'ol day.

I think it important to note that the timing of the 28 series also caught HP with their proverbial pants down in the PC market. The paradigm shift that occurred in the mid 80's through the early 90's was so huge, it caught just about every major engineering based company flat-footed. HP was no exception, at least in the PC area. They where always 6 to 9 months behind everyone else, but anything they put into the marketplace always had the proper HP feel and quality. I think that the mindset of the times led to creeping feature-ietus which crossed over to the calculator product line. After all, didn't technology demand new designs every 18 months? Somewhere along the way, the line between computer, calculator and hand-held got very blurry. I can't find an ounce of fault in what they did, or in their products. But somewhere in there is a lesson. The paradigm for a hand-held calculating device has not changed. You cannot ignore the fact that we still have the same ten fingers and two eyes with which to operate the device. Adding more keys with menus only hides the basic functions we use 98% of the time. Why make it harder to do the basics?

I still think the best thing that could ever happen to the calculator product line is for it to be given/sold to the Agilent group. I often imagine the "real" HP engineers with HP-41CX's on their desks wondering to themselves what will they do when their trusty 41 dies. Go buy another on eBay?

Re: Wrong? Nothing. It's just not RPN...

Message #8 Posted by [R Lion](#) on 31 Dec 2002, 5:15 a.m.,
in response to message #7 by Randy Sloyer(US)

My opinion is slightly different, perhaps because I was born in 1966 :-). When I want a sophisticated tool, I love the 48 with MK and CAS (Erable-Alg48). Along years it has been totally customized to fit exactly to my needs. I am surprised almost everyday by its power. But when I want "only" a calculator (a very good one) or a shirt-pocket calculator, I use my 15C or my 32SII with their programs and solvers. They both systems are the best (in my opinion): really I can't say if I like more either RPN or RPL. Only that I prefer them instead algebraic system. Happy new year to you all. Raul

Re: Wrong? Nothing. It's just not RPN...

Message #9 Posted by [Paul Guertin](#) on 31 Dec 2002, 10:23 p.m.,
in response to message #7 by Randy Sloyer(US)

The first HP calculator I owned was a 28S. I liked it, wrote a few programs for it, and it helped me in college. It was an interesting machine. But as a calculator, I didn't find it as well thought-out as my previous calculator, a TI-66 (which I had in high school; in retrospect, it was maybe the best calculator TI ever made). The menu system is not a bad idea, but having to navigate through menus just to compute a sine or log is just **wrong**.

A few years later, I got an HP 32SII and lived happily ever after. Well, almost.

Re: Wrong? Nothing. It's just not RPN...

Message #10 Posted by [Ernie Malaga](#) on 31 Dec 2002, 10:52 p.m.,
in response to message #9 by Paul Guertin

>The menu system is not a bad idea, but having to navigate through menus just to compute a sine or log is just **wrong**.

Actually, you don't have to use menus to compute anything, since you can always type into the command line and press ENTER.

But you're right in one thing -- RPL machines are so full of seldom- or never-needed functions, that remembering how to do stuff is a major undertaking... particularly for people like me, who can't remember what they had for dinner yesterday. 8^(\

-Ernie

Re: Menus on the 28s -- Isn't there a "Custom" feature?

Message #11 Posted by [Paul Brogger](#) on 2 Jan 2003, 9:45 a.m.,
in response to message #9 by Paul Guertin

I think we can all appreciate that "hiding" the trig functions in a menu was a way to reduce the number of keys on the non-alpha side of the keyboard to an almost-manageable number.

Isn't there a "Custom" command (or something like that -- it's been too long) whereby one may create a user-defined menu structure? If I remember right, I was able to bring all of the functions that I used routinely out to a custom menu, and so make access to them relatively convenient . . .

Comparing the layouts of the 28 C/S and 48G models presents a nice case study in some of the difficulties and trade-offs involved in designing feature-packed alphanumeric calculator hardware.

Re: Menus on the 28s -- Isn't there a "Custom" feature?

Message #12 Posted by [Glen Kilpatrick](#) on 2 Jan 2003, 11:47 a.m.,
in response to message #11 by Paul Brogger

Hi Paul,

Yes, there's a CUSTOM feature. How you use it (I *think*, it's been a long time for me too) is to give the MENU command either a number or a list:

1 MENU ---> takes you to the ARRAY menu, I think 23 MENU ---> I'm pretty sure this is the USER menu { SIN COS TAN } MENU ---> but this one "loads" CUSTOM

and until a "reload" (clear, reset, whatever), when you go to CUSTOM, you'll then see the softkeys as:

[SIN] [COS] [TAN] [] [] []

If you use { SIN { } COS { } TAN { } } MENU, you'll then get

[SIN] [] [COS] [] [TAN] []

but I don't think that the other "tricks" of the 48 series (define a shifted function, give a different button label, _etc._) are available.

Re: What is wrong with the 28C/S?

Message #13 Posted by [Steve](#) on 31 Dec 2002, 12:22 p.m.,
in response to message #1 by Stan (Sg)

All good points. The 32sii/42s have a fair amount of computing power in a true shirt pocket size. The 28/48/49 have a lot more power, but increase the form factor. For me, the 28s' size to performance ratio still gives it a sweet spot between the 42s and a PC. I've written several small programs for the 28s that would be more difficult/impossible on the 42s, and a lot more portable than lugging a notebook PC.

I think this discussion has really got to the heart of HP's business decisions. The "high-end" calculator market has been made obsolete by the PC/notebook. The very low end can be solved with \$15 plastic calculators. The few of us caught in the middle don't really matter to a multi-billion dollar corporation's bottom line. I must be getting old...

Steve

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Becareful of seller

Message #1 Posted by [anonymous](#) on 29 Dec 2002, 10:43 p.m.

I post this because of the HP connection.

Be careful of this seller. He is trying to get people to buy his HP list of wholesale items. Probably a scam. He has over 10% negatives.

[cavalierboy2](#)

He is selling useless garbage in hopes of catching suckers. Read some of the feedback. Watch out!

If you are an eBay, you might want to notify eBay. The more that complain, the quicker he will be put out of business.

Re: Becareful of seller

Message #2 Posted by [cavalierboy2](#) on 30 Dec 2002, 1:35 p.m.,
in response to message #1 by anonymous

I dont know who put this on here, but I am not happy. The information I put on there is good information. I have over 75 positive feedbacks and I have only been selling for just over a month. Some people might not like the information cause some people think that my computer wholesale list is for an actual computer for \$5. Those are the people who give negative feedback to me cause they are too stupid to read the title.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

(New) Additions to Some Interesting Later Models (1986)

Message #1 Posted by [Glen Kilpatrick](#) on 29 Dec 2002, 7:11 p.m.

YES! The HP-67CX (& 67C) are now viewable off the MoHPC's homepage :), and there's also a link for the Xpander (a nice photo of it, I'll have to say).

Too bad HP didn't put this one (uhhh, the Xpander I mean) into pro(fit)duction....

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-41C serial number

Message #1 Posted by [Guillermo Castarés](#) on 29 Dec 2002, 12:51 p.m.

Hi:

Today I got an HP-41C.

1) The serial number is "1720A01115". How is this possible? $17+1960=1977$, two years before release date? The Earliest Serial Numbers published in the museum register a "1926..."

2) The keys are more "square shaped" than the keys on my HP-41CV or 41CX. I suppose this is common to all HP-41C. or it doesn't?

Regards Guillermo

Should not be possible

Message #2 Posted by [Gene](#) on 29 Dec 2002, 4:08 p.m.,
in response to message #1 by Guillermo Castarés

You're correct. A S/N of 1720 would date from the time of the HP-67, not the 41c.

Either...the S/N has been altered or you've somehow misread it. :-)

My early model has a S/N of 1932A...

Try typing 49 STO 01 Then Gold SF Gold 01

What happens on the display? Gene

Re: Should not be possible

*Message #3 Posted by [Guillermo Castarés](#) on 29 Dec 2002, 7:09 p.m.,
in response to message #2 by Gene*

The result of the sequence of keys that you told is "NONEXISTENT". What that it means?

I just write a html page with photos in my site, where you can see the S/N: <http://ar.geocities.com/casta1967/calculadoras/coleccion/cal39.htm>

The serial number seems to be "hand made", instead of "typed" as the ones in my other calculators.

Guillermo.

Re: Should not be possible

*Message #4 Posted by [Gene](#) on 29 Dec 2002, 10:56 p.m.,
in response to message #3 by Guillermo Castarés*

Hi. It does look like a previous owner etched the S/N onto the back of the calculator. Brings up an interesting question...why wasn't there a S/N there already? Doesn't seem like it was there to me, unless the person who etched the S/N onto the 41c did it right over the original.

The series of key presses I gave you allows a very early 41c with a bug called "bug 3" to set the system flag for the low battery indicator. This is not normally possible on a 41c, but these early ones could do it in the way I described.

Good looking 41c, regardless! :-)

Re: Should not be possible

*Message #5 Posted by [Renato](#) on 29 Dec 2002, 11:00 p.m.,
in response to message #3 by Guillermo Castarés*

Guillermo, Nice photos. Serial number appearance is quite different from my units (2452S41134, 2133B94184). By the way - it looks like the plastic frame that goes between the two halves of the case is mounted upside down. Saudacoes do Brasil.
Renato

Re: Should not be possible

*Message #6 Posted by [Guillermo Castarés](#) on 9 Jan 2003, 8:05 a.m.,
in response to message #5 by Renato*

Renato you were right! The plastic frame were mounted upside down. I opened the calc, inverted the frame, and mounted all together again. Now it looks as supposed. You are a very good observer.

Saludos, Guillermo

Re: HP-41C serial number

*Message #7 Posted by [db\(martinez,california\)](#) on 29 Dec 2002, 4:17 p.m.,
in response to message #1 by Guillermo Castarés*

my c also has the tall, more box-like keys.

Re: HP-41C serial number

*Message #8 Posted by [David Smith](#) on 30 Dec 2002, 3:36 p.m.,
in response to message #1 by Guillermo Castarés*

The unit is a warranty repair replaement unit. These had blank serial number areas that were filled in by hand with the original unit number. Obviously somebody copied the old number incorrectly.

Re: HP-41C serial number

*Message #9 Posted by [Chris\(FLA\)](#) on 9 Jan 2003, 3:34 p.m.,
in response to message #8 by David Smith*

FWIW I have a low key 41C that has a serial number somewhat like that too. It looks like it was hand heat stamped.

2025A0XXXX

Is the serial number.

My tall key 41C that I bought originaly has the serial number.

2051A0XXXX

So it is somewhat obvious by the serial number sequence and the keys that the first one is a

serviced unit.

Chris

Re: HP-41C serial number

*Message #10 Posted by [Lars Johansson](#) on 9 Jan 2003, 4:18 p.m.,
in response to message #9 by Chris(FLA)*

I also have a 41C with serial number beginning with 20, and the golden balls in the charger tunnel. I know for a fact that this is a repaired unit, since I am the original owner

--Lars

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

41 emulator

Message #1 Posted by [Jim Kimes](#) on 29 Dec 2002, 11:50 a.m.

There was a recent post re a 41 emulator. I would like to know more about these. Do they work as well as a 41? I checked a web site where one is offered free. Why would they offer to give it to you? What's the catch? Does anyone have a particular recommendation for one? If they really work on a handheld, say, like an IPAQ, why wouldn't more HP calc users be using them? Thanks.

Re: 41 emulator

Message #2 Posted by [Mike \(Stgt\)](#) on 29 Dec 2002, 1:37 p.m.,
in response to message #1 by Jim Kimes

The HP-41 emulators are widely used. That's my experience. People, where I did not believe they are interested in this subject.

If you like DOS use JF Garnier's emu41. If you like Windows use V41 from W. Furlow. If you like PalmOS try to find the emulator from Bernd Abel. If you work on VM/ESA (IBM main frame) try to contact me ;-)

Ciao.....Mike

Re: 41 emulator

Message #3 Posted by [Mike \(Stgt\)](#) on 29 Dec 2002, 1:39 p.m.,
in response to message #2 by Mike (Stgt)

O - sorry! If you like HP-48 or -49 use the emulator from Hrast Programmer.

Re: 41 emulator

Message #4 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 30 Dec 2002, 7:26 a.m.,
in response to message #1 by Jim Kimes

eV41 for the Pocket PC (I run it on my iPaq) is all you may want, and it's free.

Re: 41 emulator

Message #5 Posted by [Christoph Klug](#) on 7 Jan 2003, 5:18 a.m.,
in response to message #1 by Jim Kimes

Dear Jim,

may be you need real HP-IL features with your emulator. Than take the new EMU41 (full version) from Jean-Francois Garnier. This is the worlds first HP41 emulator solution which includes some virtual IL-Devices plus the feature to control real IL-Devices. Also data and program exchange to real HP41 handheld is very easy.

And the HP-IL/PC Interface Card is now avaiable again.

For more details please refer to "HP41-PC Gateway & Emulator" at the HP-Museum forum which was annoucned end of December 2002...

Best wishes from Germany - Christoph Klug

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 42S Owners Manual

Message #1 Posted by [Stan \(Sg\)](#) on 29 Dec 2002, 2:32 a.m.

Does anyone know the history of the HP 42S owner's manual? It must have converted from spiral bound to hard bound at some point. I was cleaning out some stuff and realized that I have two owner's manuals for my 42S. One is spiral bound and the other is hard bound (soft cover but bound like a paper back book). One was printed 6/88 (spiral) and the other 3/94. Quite frankly, I am not sure where I got the second one. Was there ever a promotion that provided a spiral manual if you registered the calc or something similar???

Re: HP 42S Owners Manual

Message #2 Posted by [Randy Sloyer\(US\)](#) on 29 Dec 2002, 9:10 a.m.,
in response to message #1 by Stan (Sg)

The spiral bounds where provided early on, with US production and early Singapore units. All of the older Pioneer machines have the spiral bound version of manuals (14b,22s,27s to name a few).

My newest 42S spiral bound copy was printed 3/90 and my oldest paperback was printed 8/91. So somewhere in between those dates, HP changed over to the lousy paperback format. Doesn't lay flat, the pages fall out due to the glue failing, etc. I have compared the original issue with issue 7 and found no substantial changes. They added some notes on the TVM program, but that's about all I could find of interest.

Re: HP 42S Owners Manual

*Message #3 Posted by [Iqbal](#) on 29 Dec 2002, 1:55 p.m.,
in response to message #2 by Randy Sloyer(US)*

Randy, one thing I would also like to add is that on page 3 of my spiral bound manual [edition 4] under the heading Hewlett Packard Quality, point 3 is "The calculator and it's manual has been designed and tested for ease of use. We have selected spiral binding to let the manual stay open to any page, and we added many examples to highlight the varied uses of this calculator"

In my paperback manual [edition 7], it just says "The calculator and it's manual has been designed and tested for ease of use. We added many examples to highlight the varied uses of this calculator"

Re: HP 42S Owners Manual

*Message #4 Posted by [Gordon Dyer](#) on 31 Dec 2002, 2:44 p.m.,
in response to message #1 by Stan (Sg)*

My 42S spiral bound Manual (I am still looking for a calculator to match!) is Edition 4 March 1990, printed 3/90.

And , yes, HP boast about their quality spiral binding on page 3! So I am keeping it in case the calc I find has a paperback glued version, or none.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 25C repair advice

Message #1 Posted by [Alex](#) on 28 Dec 2002, 12:23 p.m.

Hello all, I need some advice on repairing this calculator. I re-built the battery pack (pack works fine in my HP21) and installed it into my 25C and the display shows all zeros "across the board". It does not respond to any keyboard inputs. I swapped the 25C's display with a working HP25 and I get the same response. Any advice would be greatly appreciated. Thank you in advanced.

Re: HP 25C repair advice

Message #2 Posted by [David Smith](#) on 28 Dec 2002, 12:42 p.m.,
in response to message #1 by Alex

There is an over 95% chance that the ACT chip in the 25C is dead. It is the 22 pin 0.4 inch wide chip near the bottom of the calculator. The ACT chip from an HP21/25/67/97/29C will work in the 25C.

Re: HP 25C repair advice

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 28 Dec 2002, 1:49 p.m.,
in response to message #2 by David Smith

Hi;

Maybe I'm wrong, but I remember reading something about these ACT chips having different characteristics. Is it correct? Does it apply only to the 67/97 series? Doc. Mike Meyers had a faulty HP67 that he could bring back to life after some transplantation.

I just would like to be sure about it.

Re: HP 25C repair advice

Message #4 Posted by [alex](#) on 29 Dec 2002, 1:02 p.m.,
in response to message #2 by David Smith

Hello, I replaced the ACT chip and it started to work (I was able to do some calculations). After a little while, the display started to act up- it showed all zeros again (it acted like it was possessed and did not respond to keyboard inputs). I have a working HP 25 and I will use it to try to determine what other componet is bad. I can take voltage readings from different spots, but I think that trouble shooting is going to be difficult without a scope. Does anyone have a rough schematic that I can work against? Thanks for all of you help in advanced and have a happy holiday.

Re: HP 25C repair advice

Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 29 Dec 2002, 5:15 p.m.,
in response to message #4 by alex

Hi;

if you have both HP25C and HP25, they are differnet in some parts, as you have probably seen. A Botu the ACT chip, did you use the same type? I do not know how to identify.

Does anybody know?

Thanks.

Re: HP 25C repair advice

Message #6 Posted by [Pyerre](#) on 28 Dec 2002, 2:11 p.m.,
in response to message #1 by Alex

This may help repairing your HP-25C :

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&category=11713&item=1948301408>

HTH,

Pyerre

Re: HP 25C repair advice

Message #7 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 30 Dec 2002, 7:29 a.m.,
in response to message #1 by Alex

Probably your ACT is not dead, read Katie Wasserman excellent article about Woodstocks (21-22-25-27-29 series) repairs in the Articles Forum, here at the MoHPC.

Re: HP 25C repair advice

Message #8 Posted by [David Smith](#) on 30 Dec 2002, 3:45 p.m.,
in response to message #7 by Andrés C. Rodríguez (Argentina)

I think maybe the new ACT is also bad (probably was on the edge to begin with and heat/static did it in) or the machine has a power supply fault that is killing them.

The problem that Katie described does not match the 000000000 display, but her fix is very easy to try so it is definitely worth a go. My experience has shown that the 0000000000 display has always been ACT related... I have over 20 dead ACT chips that showed the same problem.

Although the various woodstock machines have different part numbers on their ACT chips, only the HP27 chip seems to be internally different. I have transplanted ACT chips among all the other machines without problems.

ACT chip replacements: any suggestions?

Message #9 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 30 Dec 2002, 6:05 p.m.,
in response to message #1 by Alex

Hi;

I have seen (and read) that the ACT chip is the Spice's (and some Classics) owners nightmare.

How is it inside? I have the HP21 block diagram and there are two chips dedicated to the LED assy: one is the 1820-1328J and the other is (what seems to be) a dedicated ROM with MK60025N (Mostek) 1818-0129 as ID. Which of them is the ACT? If it is something like a firmware with some resident logic, why not to emulate it with a uController and a current driver? If it is simple logic, perhaps a single uController would be enough.

Any suggestions? I think many spices and former Classics will be brought to life if we have a replacement solution for the ACT chip.

Cheers.

Re: ACT chip replacements: any suggestions?

*Message #10 Posted by [David Smith](#) on 30 Dec 2002, 7:00 p.m.,
in response to message #9 by Vieira, Luiz C. (Brazil)*

The ACT is a custom HP chip. It is the 22 pin chip (0.4 inch wide) at the bottom of the CPU board. The two display chips at the top are a ROM/Anode driver chip and the cathode driver shift register chip. Other chips on woodstock machines are one or more ROM chips and one or more RAM chips. The RAM chips are particularly prone to failure also.

The spice machines have an integrated CPU/display driver chip (the big 40 pin package) and one or more RAM and ROM chips. All the normal ("E") spice machines use the same CPU chip and the CMOS "C" versions another CPU chip which is not compatible with the "E" version.

There are no off-the-shelf replacements for any of these chips.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Paper not feeding properly

Message #1 Posted by [Bob Belgam](#) on 28 Dec 2002, 11:20 a.m.

The paper is not feeding properly as a result the lines are printing on top of each. If I can grab the paper to exert a little pull on it the printing comes out ok.

Re: Paper not feeding properly

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 28 Dec 2002, 10:42 p.m.,
in response to message #1 by Bob Belgam

Hi;

what printer is yours?

Cheers.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP45

Message #1 Posted by [Stanley E. Payne III](#) on 28 Dec 2002, 10:18 a.m.

Is there anyone that can repair an HP45 or that sells refb. 45s

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

interesting ebay auction

Message #1 Posted by [db\(martinez,california\)](#) on 28 Dec 2002, 2:03 a.m.

i was listening to the news tonight and they had a story about ebay auctioning off the whole town of bridgeville california for \$1,777,877.00. there were two noteworthy items in the broadcast:

the winning bid was placed with a half minute to go. is that a snipe?

the first bid was not by sambonator for \$5.

sorry. i couldnt resist the last one.

The only way to live there

Message #2 Posted by [Mike](#) on 29 Dec 2002, 11:29 a.m.,
in response to message #1 by [db\(martinez,california\)](#)

Well, that would be the only way I would ever own a home in Kalifornia. At least if you owned the whole town, you could make reasonable laws, that weren't so liberal.

The Peoples Republik of Kalifornia has some of the most screwed up laws in the country.

Oh! And you don't know who bid. It was a private auction. Bidders names were concealed.

[California Town on eBay](#)

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

what's up with my hp deskjet 690c printer?!

Message #1 Posted by [kee](#) on 27 Dec 2002, 8:36 p.m.

i am having difficulty using my printer. i tried to print a slide from powerpoint and i was unable to print. a message popped-up saying that my printer is was not responding and thatit may be off-line. i checked my cables and they are fine. can someone please help me. thanks.

Re: what's up with my hp deskjet 690c printer?!

Message #2 Posted by [Glen Kilpatrick](#) on 28 Dec 2002, 11:23 a.m.,
in response to message #1 by kee

You'll be wanting to take your question to the (official) HP Forums, <http://forums.itrc.hp.com/cm/> - this is a _calculator_ forum, not a printer one. And there aren't any HP calculators that run Powerpoint, so you're presumably getting your error from Windows, and forums.itrc is still the better place.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

9121 Disk Drive Problem

Message #1 Posted by [Mike](#) on 27 Dec 2002, 8:13 p.m.

I have three 9121 disk drives. Two of them seat disks just fine. But the third has some sort of physical block that will not let my disks be inserted.

I have determined that what is happening is that the metal cover is not being moved out of the way (opened). But my problem is that I can't even see any mechanism for opening it.

I have posted the description and provided some photos, in hopes that someone who is familiar with these drives might be able to see what is wrong.

[9121 Problem and photos](#)

Thanks

Re: 9121 Disk Drive Problem

Message #2 Posted by [Ellis Easley](#) on 30 Dec 2002, 5:51 p.m.,
in response to message #1 by Mike

I have read in HP manuals that HP's first 3.5" floppy diskettes had manually operated covers that you had to slide open before you insert the diskette into the drive. I believe this only applied to early single sided diskettes. I haven't actually read that early drives needed to use these manual diskettes, but the way HP concentrated on documentation back then, if the early drives needed manual diskettes, the drives would have come with documentation that spelled it out.

If this is the case and you have such an early drive, I guess you will have to remove the covers from some diskettes in order to use the drive.

Bingo!

*Message #3 Posted by [Mike](#) on 31 Dec 2002, 1:25 a.m.,
in response to message #2 by Ellis Easley*

That's it. You have it right. After you posted this, I did a search of the drives inside (OA-D30V). Don't know why I didn't think of that.

But I found this link specifically on the Sony OA-D30V drives.

[Sony OA-D30V Drive \(the first MicroDrive\)](#)

I had never heard of a manually opened disk. Maybe that was a Mac thing that didn't ever appear on PC or others. But, apparently some of the 9121 drives had this version.

So, what turned out to be a non-working drive, is actually one of the earlier models with a somewhat rare OA-D30V drive. I bet you can't find those special disks anywhere, though. Anyone else ever have this version of a 9121?

You can use the more modern 3.5" disks with 3 options.

- 1) Rip the cover off and use it without a cover.
- 2) Remove the spring and use it like the original.
- 3) Tape the cover open, and insert.

Of course the best way is to locate a stash of original Micro Floppydisks (OM-D30V).

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Do you remember HP Omnigo?

Message #1 Posted by [J.Manrique](#) on 27 Dec 2002, 7:03 p.m.

Hello,

I have received a HP Omnigo, and I really love. But I miss the features that nowadays iPAQ have. But I have seen that HP might have done some 'prototypes' with Omnigo on mind:

<http://www.pocketpcthoughts.com/forums/viewtopic.php?t=6317>

All I can say is that it is a real prototype since I've seen it in Jose Tormo (from HP) PowerPoint presentation:

http://www.hp.com/large/events/2002/nsp/sales/images/Jose_Tormo.ppt

Have fun,

J.Manrique

#1077 HPCC Member

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Global Thanks & Alg/RPN/RPL Summation

Message #1 Posted by [Glen Kilpatrick](#) on 27 Dec 2002, 11:19 a.m.

My Global Thanks to all for the clarification on Chebyshev polynomials. I understand that while they do converge faster than more traditional, more familiar polynomials, they aren't suited to calculators (my grad school's professorial speculations were then so much hot air :), and that CORDIC / Comer functions that give you one digit of significance per iteration are the way that was gone.

However, my other point in this Global Thanks is to recognize what I infer as a widespread Forum opinion, that we'd all be perfectly happy with an Algebraic, so long as it did RPN and/or RPL as well, that we don't require a "pure RPN" from HP, and we understand that a mixed ~OS would have much more widespread appeal (to the Great Unwashed with no knowledge of Reverse Polish _yet_ :).

And further, those of us who objected to the 49G (not all, mind you, but I'm one in the objecting camp) did so not because it was Alg/RPL, but because of what we perceived as issues of quality (the easy-scratch screen, the poor feel of the keys, the misplaced ENTER, _etc._). And while I didn't have a problem with galloping featuritis (there are many areas on my 48 that I just ignore, editing an equation is a glaring example), I recognize that many did, the 49G just wasn't a particularly easy calculator.

Re: Global Thanks & Alg/RPN/RPL Summation

Message #2 Posted by [Ed Martin](#) on 27 Dec 2002, 10:42 p.m.,
in response to message #1 by Glen Kilpatrick

Glen,

I agree - most of us on this forum believe strongly in the superiority of RPN. However, we don't believe in RPN so much that we'd rather see it die than combined with AOS in a hybrid.

I think there are a lot of advantages in hybrids. Perhaps previously the constraints of RAM, ROM, and clock speed prevented an economical hybrid. However, a * quality * HP hybrid could introduce a much broader range of users to a decent calculator, and perhaps even win a few RPN converts in the process (my evangelistic streak is showing).

I think it would be great for HP to introduce such a calc along with a well written tutorial comparing RPN and AOS, with some instructive examples. You know, the classic "it takes 15 keystrokes to solve this in AOS, but only 11 in RPN" or something similar.

I have only one demand if HP produces a hybrid - it must have an ENTER key in the right location. Heck, they can even call it something else, but we all know what it's for. Oh yeah, good keys, too. I guess that's two demands.

- Ed

Re: Global Thanks & Alg/RPN/RPL Summation [re: key arrangement for RPN vs AOS]

*Message #3 Posted by [Bill Wiese](#) on 28 Dec 2002, 3:33 p.m.,
in response to message #2 by Ed Martin*

Ed,

Your mention of position of [ENTER] key is important.

I think a dual-mode RPN/AOS calc keyboard layout might be a bit compromised, perhaps for both modes!

And many of us don't give a damn about AOS. (If something like line-oriented BASIC programming were also provided, that's fine, but otherwise I want the primary nonprogrammatic interface to be RPN. And "Classic" RPN at that: 4-level stack XYZT and L register - not the funky HP48 stack.

Using [ENTER] positioned where most [=] keys are located, or placing [=] where most HP's [ENTER] keys are located, would result in operational 'weirdness' for one or other mode. Plus, [ENTER] should be larger key.

I'm really used to [ENTER][EEX][CHS][Clr] placed immediately above the numeric area. I'm used to [=] being 'down south' below the operator keys. I'm ambivalent toward position of [CHS] (or [+/-]) and [EEX] as I'm used to both.

One idea might be to have a vertically-oriented ENTER/= key down in the lower right corner area. Might be livable.

Given that HP has removable/replaceable keyboard covers in different colors, perhaps some keys could also be moved around, or spares supplied with alternate labels. The ultimate hardware-centric version of HP41's [USER] and [ASN] :)

Re: Global Thanks & Alg/RPN/RPL Summation [re: key arrangement for RPN vs AOS]

*Message #4 Posted by [rsenzer](#) on 28 Dec 2002, 11:07 p.m.,
in response to message #3 by Bill Wiese*

I like RPN, but I don't mind having the "equal/enter" key on the bottom right hand corner. It could be, as you stated, a long vertical key. However, there is another alternative which would serve AOS as well as RPN modes, but perhaps not EOS modes.

On many of the HP calculators that handle AOS, the long key is labelled "INPUT" rather than ENTER. In HP's AOS mode as on the 20S, this key separates operands in certain binary operations such as percentage change, combination/permutation, etc. These operations are handled as RPN dyadic operators. Both operands are entered and then the operation is selected.

On the 19BII, when the RPN mode is selected, the INPUT key reverts to the [oops] equivalent of an ENTER key for the most part. The end result in RPN mode is that you can use the "equal/enter" key or the INPUT key. The penalty is some redundancy in the RPN mode, but I don't believe this is particularly problematic. This seems to be a reasonable compromise that would satisfy both sets of users, however, I'm not sure how this affects an EOS mode, which is likely to be the alternative to RPN, rather than AOS.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Is the 30S an HP design?

Message #1 Posted by [Stan \(Sg\)](#) on 27 Dec 2002, 12:27 a.m.

I am sure that this question has been raised before, but I have only been reading this forum for about 1 year, so I will ask anyway: Is the 30S an HP design or a re-badged version of someone else's calculator?

I bought one the other day to keep in my brief case (too high risk service for any of my RPN pocket calculators). It has enough quirks that it feels like an HP design (I mean that comment as good and bad). The relatively innovative use of menus on the two-line display is good. The fact that the transcendental functions are true algebraic is bad (IMHO). Most algebraic calcs allow "90 sin" - this one requires "sin 90 =" - if you have an existing result on the display, I have not found an elegant way to perform an e^x or arcsin. So far I have had to store the result in memory, then press " e^x rcl ="

The physical layout is okay. Add another two lines to the display and RPN and I would buy (and pay more!).

Re: Is the 30S an HP design?

Message #2 Posted by [Raymond Hellstern \(Germany\)](#) on 27 Dec 2002, 10:22 p.m.,
in response to message #1 by Stan (Sg)

Hi,

the short answer is: The 30S doesn't contain any HP parts.

I posted the factory codes last year.

Happy new Year!

Raymond

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

a large HP 9830A system

Message #1 Posted by [RCS/RI](#) on 26 Dec 2002, 3:18 p.m.

The [Retro-Computing Society of RI](#) has just received a 9800 series Model 30 that includes many expansion and interface options. It uses the 9867B Mass Memory which has one fixed disc drive and one removable disc drive, both using 14" platters. It also includes a 2165A terminal. The date code is 1973. The link below is to a web page describing the system along with images. The system has been tested and is fully functional.

<http://starfish.osfn.org/rcs/HP/9830a/system.html>

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Has the HP-49G been discontinued?

Message #1 Posted by [Harry \(Germany\)](#) on 25 Dec 2002, 5:59 p.m.

I looked at the HP website after reading the post below. And I couldn't find the 49G and some older buissines calculators that were still listed a few weeks ago.

Harry...still waiting for help with that HP-21...

Re: Has the HP-49G been discontinued?

Message #2 Posted by [Richard Stanaway](#) on 26 Dec 2002, 12:23 a.m.,
in response to message #1 by Harry (Germany)

The news doesn't look good; check the official HP online catalogue;

http://www.shopping.hp.com/cgi-bin/hpdirect/shopping/scripts/generic_store/generic_subcategory_view.jsp?BV_SessionID=@@@1937090404.1040879794@@@@&BV_EngineID=ccdcadchldjgfkcfngcfkmdfondfgf.0&category=calculators&subcat1=graphing&cat_level=1

A few weeks ago the 48G+ and 49G were available on this site. The GX is probably being retained for the time being, because of the large demand for HP48 RAM card software in the states. The news for RPN looks grim !

I'll bet new high-end Algebraics that also do RP

Message #3 Posted by [Glen Kilpatrick](#) on 26 Dec 2002, 1:01 p.m.,
in response to message #2 by Richard Stanaway

I'm not so sure, that the news for RPN looks grim. Remember that thread of a couple weeks ago, where Dave Hicks mentioned that HP had urgently requested he send RPN manuals to somewhere in the Far East (Taiwan)?

It's not conceivable that contemporary engineering would be needing manuals in order to reverse-engineer RPN. There are still too many "examples" already extant (although I've always wondered if HP used Chebyshev polynomials to calculate transcendental functions, some references to internal specs, *not* in manuals, but HP probably has the originals, might clarify exactly the methods used).

But needing examples of manuals in order to write new manuals, that makes a lot of sense. There should be about as many (RPN) manuals as calculators, but hey, if you lose one of the two, which do you need the most, the calculator or the manual :)? So I read this request from HP to Dave as strong evidence that 2003 will bring us some new _RPN_ calculators.

And considering how easy it would be to implement, it seems likely that they'll be software-switchable, RPN & Algebraic (_aka_ the 49G), if only because that

expands the market.

OK, I can already hear the objection, the 49G runs RPL (my favorite) rather than RPN. But think of such as the 38G and the 27S. They have "history stacks" that look a lot like RPL and RPN, respectively. So in this case, the difference is minimal, maybe these will even have three-way switches: DEG, RAD, or GRAD; xyz, xR {theta}, or x{theta}{phi}; .AND. ALG, RPN, or RPL.

Now whether you call this a Reverse Polish calculator that does Algebraic, or an Algebraic that also does Reverse Polish, is of no consequence. But based upon recent trends, I'll bet any "combos" are marketed as the latter.

Re: RPN, transcendentals, reverse-engineering, etc

Message #4 Posted by [Bill Wiese](#) on 26 Dec 2002, 2:59 p.m.,

in response to message #3 by Glen Kilpatrick

Hi..

>[Glen Kilpatrick wrote:] >It's not conceivable that contemporary engineering >would be needing manuals in order to reverse-engineer >RPN. There are still too many "examples" already extant >(although I've always wondered if HP used Chebyshev >polynomials to calculate transcendental functions, some >references to internal specs, *not* in manuals, but HP >probably has the originals, might clarify exactly the >methods used*

Yes, whether the calc is RPN or Algebraic is independent of the algorithms used for log/trig functions. And any mildly competent programmer can create an RPN-like shell, etc in the C language. The orig challenge in doing the orig HP or even TI calcs was to do a whole calc - including log/trig funcs - in about 1-2 Kwords of ROM. (As I recall, roughly equivalent functionality TI calcs took more ROM space than similar HPs because TI used a kludgy 4-bit microcontroller, while HP's instruction set was designed from the outset to save code space for calc applications.)

Even today, I'd say that a lot of Asian calc mfgs don't necessarily know a whole lot about their algorithms.

HP, at least thru the 41 series, seems to use CORDIC shift/add algorithms for higher-order functions (not square root - that is done via an algorithm that roughly looks like division). Between some pre- and postprocessing steps the CORDIC algorithm delivers one digit of the result (within the internal processing domain) per iteration. There may be range reduction/scaling issues ("unwinding the circle" for trig functions for example), and some postprocessing (say, deriving one trig function from another or change of bases of logs) before the *actual* result is returned. When later calcs (42,32,48, etc) came out that supported a higher dynamic range (+/-9.9E+/-499 instead of +/-9.9E+/-99) there could've been some algorithmic changes. But I don't think so - I think fundamental algorithms have had enough time spent on them, modelling them, testing, etc that a co like HP would be loath to change them. CORDIC was suitable for log/trig functions on older/slow calcs because it wasn't that much more complex than division.

Other methods do exist: rational function approximation and Chebyshev (and other) polynomials. Some of these require use of division. And contrary to what you learned in calculus class, Taylor's/McLaurin's series aren't that useful for accurate & efficient function approximations. These involve approximating the function under question over a VERY LIMITED RANGE and pre/postprocessing results.

X86 and other CPUs with floating-point engines have changed design over time. The 80x87 NPU chip, and its on-board derivatives up thru the 486, used CORDIC methods for log/trig functions: they were controllable algorithms with predictable error behavior and didn't take much microcode space on these NPUs.

However CORDIC is essentially serial in nature: you're delivering one bit, hex or BCD digit per iteration. [I believe, IIRC, if you try to speed things up taking bigger "chunks" (say, 4 digits at a time) there is no gain in internal behavior because, well, "if you bite off too much" on one iteration, you may often "have to spit some back".] And then internal tables of shifted input values that drive CORDIC would have to be large too.

To have faster results - when fast hardware multiply and divide are available, then nonCORDIC methods may be superior (in terms of speed; error behavior may

need some real modelling and analysis). Also some processing steps of these nonCORDIC methods could be parallelized (with additional hardware) if desired. The real art of these designs is to take a system that has an N-bit register set and deliver N bits of result - instead of, say, N-2 result bits with the last 2 bits being "slop". AMD, Intel and Cyrix all have differing methods of doing their transcendentals. There are some papers out there about how Cyrix did theirs, as I recall.

Bill Wiese San Jose, CA

**Re: I'll bet new high-end Algebraics that also do RP
**

Message #5 Posted by [Paul Brogger](#) on 26 Dec 2002, 3:41 p.m.,

in response to message #3 by Glen Kilpatrick

RPN, RPL -- whatever. I just hope they include the 9G's latest innovation: "**4 basic operations (+, -, *, /) to solve wide range of problems ...** " (From [HP's 9G web page](#).)

Indeed, I will go so far as to predict that, with the development of the 9G, those features will become *de rigueur* for makers and users of calculators of all types.

(I couldn't resist . . .)

Now I understand!

Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 26 Dec 2002, 6:58 p.m.,

in response to message #5 by Paul Brogger

HI;

Paul, you got it! That's why they need the old manuals so badly...

(Could not resist, too...)

**Re: I'll bet new high-end Algebraics that also do RP
**

Message #7 Posted by [Les Bell \[Sydney\]](#) on 26 Dec 2002, 4:22 p.m.,

in response to message #3 by Glen Kilpatrick

According to "Scientific Analysis on the Pocket Calculator", by Jon M. Smith (Wiley, 1975), p. 39:

"An interesting aside is that the logarithmic, exponential and transcendental functions and their inverses and hyperbolic counterparts are typically generated in pocket calculators with read-only memories (ROMs). These memories generate the numerical values of these functions using Comer functions. Comer functions do not implement series expansions approximating polynomials. They are hardware functions that generate the numerical values of the mathematical functions in which we are interested. In a word, function evaluation on the pocket calculator is done to high precision using read-only memories and hardware implementations of the mathematical functions".

So: Comer functions.

The same book spends quite some time on Chebyshev polynomials as a way of getting a quickly-converging polynomial equivalent to other power series expansions.

Best,

--- Les

**Re: I'll bet new high-end Algebraics that also do RP
**

*Message #8 Posted by [Bill Wiese](#) on 26 Dec 2002, 5:23 p.m.,
in response to message #7 by Les Bell [Sydney]*

Umm,

Maybe SOME early nonHP/TI sci calcs used these functions. (Some early pocket sci calcs had only 5+ digit accuracy on log/trig functions, perhaps these were the ones. I recall National Semi and early early Casios and Sharps as being a bit doubtful. Even an APF Mark 50 (??) that I had in mid 70s I realized had some compromises in log/trig functions.) And I think some of the folks writing these early calculator 'how-to' books may not really have understood 'under the hood' issues of tolerable speed vs. power consumption vs. chip area (price) vs. accuracy - some books still made noises about Taylor series!

I cannot readily find any reference to 'Comer functions'; perhaps they are referring some kinda multi-ROM table with some feedback.

But I'm sure that ROM tables - even with a bit of structural compression and some numeric processing tricks - would be unsuitable for more than mediocre accuracy. Chip area was just TOO precious, so some sort of stored-program microcode method with only limited ROM-table driven concepts, would be used.

[CORDIC methods typ. require an N-value table for N digits of precision. That is, for 8 digit accuracy, a table of precalculated known values of func(1), func(.1), func(.01), func(.001),..., func(.00000001) is required.]

If CORDIC shift/add methods did not exist, the whole history of the personal pocket scientific calculator, time of introduction, time of mass marketing, the pricing curves, etc would be vastly different - meaning delayed several years. I suspect something like introduction of first basic pocket scientific (say, at the HP35 or TI SR50 level) would've been delayed to about 1976 years to get it to appropriate price point because just too much ROM (chip area = \$\$) would be required. Or compromises would be made: only sin() and atan() would be provided and the user would have to derive others from trig identities.

Chebyshev, other polynomial methods or rational function methods would NOT have been used on mid-70s lower cost calcs due to speed and memory limitations. Some of these methods require divisions. (Though I believe some early-70s nonconsumer desktops - Monroe? - may have used Chebyshev or polynomial approximations for their transcendentals.)

Bill Wiese San Jose, CA

Re: I'll bet new high-end Algebras that also do RPN

Message #9 Posted by [Les Bell \[Sydney\]](#) on 26 Dec 2002, 8:13 p.m.,

in response to message #8 by Bill Wiese

The reference to "Comer functions" has also stumped me, as I've seen no other reference to it. However, I suspect that the author had HP/TI calculators *specifically* in mind in writing that, as the book specifically discusses the HP-35, 45 and 65 (as well as the SR-50). In fact, the Preface states,

"My thanks to the people at Hewlett-Packard who reviewed and critiqued the manuscript, and in particular to the HP-65 chief engineer, Mr. Chung Tong".

Interesting that the reference to Comer functions slipped past the reviewers at HP, as well as Dr. Richard Hamming, at Bell Labs. . .

Sorry if I implied that Chebyshev polynomials might be used in a calculator. Chapter 8 of the book of course discusses the *use* of Chebyshev and rational polynomial approximations by user *equipped with* a calculator, and using economization.

The paragraph I quoted is the only reference in the book to the implementation of transcendental functions in scientific pocket calculators.

Best,

--- Les

Re: I'll bet new high-end Algebras that also do RPN

Message #10 Posted by [GE \(France\)](#) on 27 Dec 2002, 4:40 a.m.,

in response to message #9 by Les Bell [Sydney]

Three relatively recent (80s) TI machines used polynomials (exact kind unknown) : the CC40, then the later TI95 and TI74 - for no known reason. As the CC40 was obviously derived from the TI99/4A home computer (but with very different processors and architecture), this may be related to a more desktop philosophy.

On ROM tables, there are machines which calculate the factorial at far too suspicious speeds, and now that ROM is cheap it is possible that the 70 possible results (for a 20-decade calculator) may be pre-calculated. It's the only function I think which can be a candidate for such an optimization.

A problem with CORDIC is that the *maximum* precision is hard-coded (you can calculate at a lower precision using the same tables - see Sharp's switchable 10 or 20-digit precision Basic machines).

Extending the range of representable numbers seems like a silly idea. Who needs numbers larger than 10^{100} ? This is pure marketing. Note that no transcendent functions have meaning on this extended range : sin can't be computed, atan takes numbers between -1 and 1, exp overflows, and log can be calculated easily with some scaling. It is probably featuritis like hyperbolic functions. Also, who cares about 24-digit precision (like the 30S) ?

Re: ... the 70 possible results

Message #11 Posted by [Paul Brogger](#) on 27 Dec 2002, 11:03 a.m.,
in response to message #10 by GE (France)

Not to quibble, but my HP-32S calculates (for example) the result of $5.2!$ as 169.4061 (to the four decimal places I've currently specified for display).

Try entering a non-integer and seeing how fast it calculates. If it works and it's still fast, there's got to be another explanation . . .

By the way, if the factorial has been generalized to (positive *and* negative!) reals below some practical limit(s) of absolute value(s), is there an inverse of the factorial function? Seems like there ought to be, but for what it might be used is beyond me. Comments?

Re: (That would be the Gamma function . . .)

Message #12 Posted by [Paul Brogger](#) on 27 Dec 2002, 2:20 p.m.,
in response to message #11 by Paul Brogger

Well, surprise, surprise! The ol' memory is slow, but not completely gone. In the Forum's most recent archive, there's a whole [thread](#) on this factorial/gamma function topic -- I even participated.

(I wonder what other gems of knowledge lie archived in those files . . .)

Re: ... the 70 possible results

Message #13 Posted by [GE \(France\)](#) on 27 Dec 2002, 6:42 p.m.,
in response to message #11 by Paul Brogger

You're 100% right, but most calculators only calculate the factorial, which is defined for non-negative integers only.

There's no such thing as an inverse for the gamma function, as some values (here ALL !) can be reached from different inputs (here an infinite number !) *unless* you put a condition on the input.

I have an old family recipe to calculate the inverse of gamma for values greater than 2, like this : 1. Input X 2. Solve ' $Y \cdot \log(Y) = X$ ' for Y 3. Calculate $Z = Y \cdot e - (Y \cdot e)^{-0.076}$ You'll see that $\text{FACT}(Z) = X$ quite closely !! I've been banging my head on the walls for a while to understand why this works. Can anyone help ?

Last, CORDIC can actually calculate all transcendent functions. I think it can also be used for square roots, but don't quote me on this.

Re: ... the 70 possible results

Message #14 Posted by [Katie Wasserman](#) on 28 Dec 2002, 1:15 a.m.,
in response to message #13 by GE (France)

You can easily calculate the inverse of the Gamma function (> 2 or whatever parameters you specify) by using the solver on the 32SII or any of the other HP calcs with a solver and the Gamma function.

With a bit of effort you can even get the solver to compute a sort-of inverse factorial function that returns the closest value on calculators that don't have a Gamma function.

Mathematica has a built-in inverse Gamma function that they "regularize", but I don't know of any calculators that have that function built-in (although I haven't checked the 49G).

-Katie

**Re: I'll bet new high-end Algebraics that also do RP
**

Message #15 Posted by [Bill Wiese](#) on 27 Dec 2002, 4:01 p.m.,
in response to message #7 by Les Bell [Sydney]

Les & gang,

I'm wondering if 'Comer functions' is some little-known broad catch-all term meaning "hardware functions based on shift & add iterations".

Technically, I believe CORDIC really only generates trig functions (sin, cos, atan, maybe a few others). Log and exp use a similar shift and add method but I don't think it's really done in the 'coordinate rotation' sense.

But for practical purposes, we can say the HP calcs - at least the original ones up thru 41C/V/X,10/11/15C - use CORDIC or CORDIClike shift/add iterations to perform the main transcendentals. (We know this, it's been explained by HP and others, and we can see some code examples from ROM.)

If the author of this book is saying that shift/add iterations are not used and only manipulated table-derived functions are used, he is simply wrong, no matter who edited/reviewed the book. [Some CORDIC funcs are *slightly* table derived but only use an N-entry table per function for N digits of mantissa precision.]

As another comment, somewhat related.. back in the early 80s when I was tinkering with Commodore and other 6502-based computers, I was not too happy with arithmetic/ transcendental func performance from the ROM Microsoft BASIC. These machines used 5-byte floating point (32 bit mantissa + 1 byte exponent) for about 9+ digits of precision. (32 divided by 3.32 bits/digit). Disassembly of transcendental code showed some 'warped' (Cheybshev or other) series expansions with range reduction preprocessing and perhaps some output rescaling. As I recall, these FP functions were on average accurate to around 7+ digits except in certain key areas (near 0, 1, etc.) where things could be worse. I just never trusted these BASICs as much as I did my HP calcs. Some versions of this BASIC, IIRC, instead used 4-byte floating pt (24 bit mantissa) which was just atrocious.

Bill Wiese San Jose, CA

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Discount on HP Calcs web site

Message #1 Posted by [Stan \(Sg\)](#) on 25 Dec 2002, 8:40 a.m.

The HP web site just introduced a 10% discount on all of their calculators – even the 9G and 9S, which have never been in stock! Has anyone seen a 9G or 9S in a store or web site?

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Hp-21 problems after battery leak.

Message #1 Posted by [Harry \(Germany\)](#) on 24 Dec 2002, 8:42 p.m.

I just bought a HP-21 that had major corrosion from an oöd battery pack. i cleand it all up and it worked fine for a few minutes. After i turned it off and on again, it didn't. If i turn it on and off several times, it sometimes does wired things like flashing numbers in the display or countin 0-9 at the last digit. Sometimes it works correct too. I thought it might not be producing the 4Volts for the display. Where can i measure those 4 Volts if that part of the circuit works fine?

Sorry for my bad english and thanks in advance, Harry

Sorry, forgot to think about it myself :)...

Message #2 Posted by [Harry \(Germany\)](#) on 24 Dec 2002, 9:35 p.m.,
in response to message #1 by Harry (Germany)

i found 6.2 Volts at the capacitor below the top left IC. So that "step up" (?) regulator is working. Any ideas what to check next?

Thanks, Harry

Re: Hp-21 problems after battery leak.

Message #3 Posted by [David Smith](#) on 26 Dec 2002, 3:55 p.m.,
in response to message #1 by Harry (Germany)

Stand the bottom of the circuit board in a glass of vinegar for around 30 minutes. The vinegar should not get to the level of the small power supply coil. Rinse the circuit board very well, shake off the excess water, and then dry it overnight in a low oven (say 120-140 degrees F). This will remove any battery crud from under the main chips, etc.

Thanks, i will try this tomorrow.

*Message #4 Posted by [Harry \(Germany\)](#) on 26 Dec 2002, 6:30 p.m.,
in response to message #3 by David Smith*

I will let you know if it worked

Regards, Harry

It didn't work :(

*Message #5 Posted by [Harry \(Germany\)](#) on 27 Dec 2002, 8:37 p.m.,
in response to message #4 by Harry (Germany)*

I'm out of ideas. It must be a faulty chip :(

Harry

Re: It didn't work :(

*Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 27 Dec 2002, 9:45 p.m.,
in response to message #5 by Harry (Germany)*

Hi, Harry;

please, send me your e-mail so I can send send you some info (images) I cannot post here.

Best regards.

Re: It didn't work :(

*Message #7 Posted by [David Smith](#) on 28 Dec 2002, 12:49 p.m.,
in response to message #5 by Harry (Germany)*

Well, it sounds like one of two other likely problems. The first (and most likely) is a bad ACT chip (the 22 pin 0.4 inch wide chip at the bottom of the circuit board).

The other is a bad filter capacitor in the power supply. If you have an oscilloscope check the 6V line for a nice DC waveform. A bad cap can cause this voltage to be a square wave. A voltmeter can show a normal looking voltage. You should also check the other two voltages running around the machine.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

33E repair

Message #1 Posted by [Bart Wuest](#) on 24 Dec 2002, 8:10 p.m.

I have a 33E in which the badly corroded battery contacts have finally broken off. Any suggestions on how I might repair it?

Re: 33E repair

Message #2 Posted by [Glen Kilpatrick](#) on 25 Dec 2002, 2:21 p.m.,
in response to message #1 by Bart Wuest

I wasn't able to find an enlightening photo (but <http://www.hpmuseum.org/tech30.htm> has several that are suggestive). However, would this be a candidate for an allegator clip solution, to an external battery pack (or even AC adaptor)? As regards a collector's item, it would look really ugly, but as regards a working calculator, it might have decades of life left.

Re: 33E repair

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 25 Dec 2002, 3:38 p.m.,
in response to message #1 by Bart Wuest

Hi;

Once (not upon a time, instead a long time ago) I replaced an HP34C's corroded, broken contacts with small springs found in many battery compartments. I remmanaged the spring tips in a way I could also replace the metal rivets too. The only matter is the distance, you should check how much of the spring is necessary for good contact and not much pressure, what could bend (deform) the springs.

Unfortunately, the calculator must be opened. At least, I do not know any other way to do what I did with the calculator closed. And opening a Spice requires technique and... patience. Lots of patience.

Success.

Re: 33E repair

Message #4 Posted by [Pyerre](#) on 25 Dec 2002, 10:08 p.m.,
in response to message #1 by Bart Wuest

To replace the battery contacts, the metal clips (used as the ESD purposes) stolen from the computer's cabinets will do. Have to re-solder or re-screw the clips to the small board and rerun the battery wires back to the power supply inside of the calculator. You have to open the calculator though. HTH, Pyerre

Re: 33E repair

Message #5 Posted by [David Smith](#) on 26 Dec 2002, 3:51 p.m.,
in response to message #1 by Bart Wuest

You can make some replacement clips out of springy beryllium-copper alloy strip available at Small Parts, Inc. Attach them with small (#0 or #1) screws or even better small rivets.

I think you will also find that the corrosion has gotten past the little battery contact board and damaged the flex circuit that connects it to the main power board. You will need to use small stranded wire to reconnect it... a task not for the unskilled solderers out there.

Re: 33E repair

Message #6 Posted by [Katie Wasserman](#) on 28 Dec 2002, 1:21 a.m.,
in response to message #5 by David Smith

Here's an old thread where I describe how I fix these:

<http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/archv007.cgi?read=14438>

Re: 33E repair

Message #7 Posted by [Karl Schneider](#) on 28 Dec 2002, 2:04 a.m.,
in response to message #6 by Katie Wasserman

I had taken a similar, but cruder, approach to Katie's when repairing the battery terminals of one of my "old" units. I bought the thinnest strip of brass I could find from a hobby shop, cut it into the approximate size and shape of a terminal, bent it to form a contact, punched a hole in the upper part large enough to surround the rivet, filed the backside down, then soldered it to the broken terminal.

A soldering iron will heat the board and strip quickly, but they seem to be able to take it.

The repair worked, but the metal strip was too thick (20 mil?); it doesn't give.

I now have a "new" unit that needs both terminals repaired. For that job, I then got pieces of "shim stock" from a machine shop. It's available in brass or steel in various thicknesses from 3 mil to 15+ mil. (Katie recommended 0.01" = 10 mil).

BTW, I discovered and use a good, safe, and easy way to separate the case halves of Spice units. I'll dig up the link where I described the method. Sometime, I'll prepare the description with pictures I took.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Someone should be the first one, so... Merry X-mas!

Message #1 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 24 Dec 2002, 2:50 p.m.

Hi;

as we all are here for more than simply talk about HP calculators, I am sure I can take a bit of this place to talk about other important things in our lifes.

Not much to say, what matters is the gesture. I wish I could write this in as many languages as I can, but I'll take my place and write in Portuguese, waiting for you all post in your own languages:

FELIZ NATAL E PRÓSPERO ANO NOVO. (Merry Christmas and a Happy New Year.)

My sincere wishes for you all, folks.

Thanks for the very good moments.

Luiz Claudio Vieira

Brazil

Re: Someone should be the first one, so... Merry X-mas!

Message #2 Posted by [Michel Beaulieu](#) on 24 Dec 2002, 4:24 p.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

In French

Joyeux Noël et bonne année - Peut-être une HP sous l'arbre ce soir?

Michel

Thank you, Luiz, for being the first!

*Message #3 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 24 Dec 2002, 5:37 p.m.,
in response to message #2 by Michel Beaulieu*

In Spanish:

Feliz Navidad y un próspero Año Nuevo

Felices Fiestas - Felicidades

Re: Thank you, Luiz, for being the first!

*Message #4 Posted by [Juan J](#) on 25 Dec 2002, 1:56 a.m.,
in response to message #3 by Andrés C. Rodríguez (Argentina)*

To the best user forum I have seen: Merry Christmas and a Happy New Year.

Thanks Luiz, for suggesting the idea. And thanks Dave, for keeping such a wonderful site.

Re: Someone should be the first one, so... Merry X-mas!

*Message #5 Posted by [Ernie Malaga](#) on 25 Dec 2002, 2:42 a.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)*

Felicxan Kristnaskon kaj Novan Jaron!

-Ernie

Re: Someone should be the first one, so... Merry X-mas!

*Message #6 Posted by [Matthias Wehrli](#) on 25 Dec 2002, 4:16 a.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)*

I will add some german and swiss german words:

German: Ich wünsche euch allen gesegnete Weihnachten und einen guten Rutsch ins neue Jahr.

Swiss german: I wünsch euch alles Gueti, hebet Sorg zu euch und rutschet guet ins neu Joor...

Matthias

Merry X-mas!

Message #7 Posted by [Nenad Vulic \(Croatia\)](#) on 25 Dec 2002, 11:29 a.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

To all the users of this Forum, straight from Croatia, in Croatian:

Sretan Bozic i Nova Godina

Re: Someone should be the first one, so... Merry X-mas!

Message #8 Posted by [Ed Martin](#) on 25 Dec 2002, 12:34 p.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

I have learned how to say (or at least read) several new ways of wishing "Merry Christmas and Happy New Year" among these posts - it's a great thread that Luiz has started here.

I'll add one that isn't well known, from the 3 years I lived in Luxembourg:

Schéi Chrëschtdeeg an e glécklecht Neit Joer

This morning, many of us here in the US (I am in Michigan) woke up to a nice snowfall for Christmas. We have about 15cm, many people have double that.

Merry Christmas to all, and may the New Year bring a new RPN calc from HP!

Blessings of the season

Message #9 Posted by [Tony David Potter](#) on 25 Dec 2002, 2:05 p.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

To one and all, blessings of the season.

Please take this opportunity to reconnect or get together with your family. They're all you really have.

Tony David Potter

Thank you and Happy Holidays to all!

Message #10 Posted by [Dave Hicks](#) on 25 Dec 2002, 4:49 p.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

This year I can SAY happy holidays in Chinese, but by next year, perhaps I'll be able to write it. For now, you'll have to settle for English.

I hope you all have a great new year.

Re: Someone should be the first one, so... Merry X-mas!

Message #11 Posted by [Pyerre](#) on 25 Dec 2002, 10:27 p.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

If could say it in vietnamese for a little more exotic :

Chúc Mừng Nam Moi và Giáng Sinh Vui Ve

(Happy New Year & Merry Christmas)

...to All,

Christmas Omedatou

Message #12 Posted by [db\(martinez,california\)](#) on 25 Dec 2002, 10:54 p.m.,
in response to message #11 by Pyerre

is how they say it in the land of casio, sharp and the rising sun.

Re: Someone should be the first one, so... Merry X-mas!

Message #13 Posted by [Wayne Brown](#) on 27 Dec 2002, 7:04 a.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

In RPN:

CHRISTMAS <ENTER> MERRY <ENTER> + YEAR <ENTER> NEW <ENTER> HAPPY
+ +

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Hey Dave Hicks, if you want the . .

Message #1 Posted by [barry](#) on 24 Dec 2002, 2:06 p.m.

February 1987 issue of Scientific American (w/ the two page HP28C ad) donated to the museum, send me an address to ship. anyone who did not receive a two page scan from me let me know; it's in .jpg format at full resolution to keep the detail.

Hopefully I've emailed you

Message #2 Posted by [Dave Hicks](#) on 25 Dec 2002, 5:00 p.m.,
in response to message #1 by barry

The first bounced with "not our customer". Then I took out one of the "t"s and that didn't bounce, but please email me if you don't receive it.

got it dave, i can't spell my last name

Message #3 Posted by [barry](#) on 25 Dec 2002, 8:38 p.m.,
in response to message #2 by Dave Hicks

correctly, you got it right. i emailed the scans as attachments to the message, hope u can use it that way. tnx, barry carson city, nv

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

has anyone had an ad deleted by someone else?

Message #1 Posted by [barry](#) on 24 Dec 2002, 1:32 p.m.

just had an ad deleted by someone else on the classified board; anyone else have this happen?

Re: has anyone had an ad deleted by someone else?

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 24 Dec 2002, 1:46 p.m.,
in response to message #1 by barry

Hi;

the adds are not protected against this. You will receive an e-mail from the museum with the IP address of the computer from where the deletion occurred. It also helps Dave to get rid of nosy guys who post whatever they want in there. I deleted two off-topic posts in there, and nobody complained (someone even felt relieved). I ensure I did not erase yours. I just want to tell it is possible and easy.

Simply post it again. I know this is not fair, but it allows anyone interested on buying what you offered in a particular basis. If the one is a serious buyer, he/she will contact you with a fair proposition. If you decline, post again.

It's good practice to keep a copy of the text in a TXT format.

Cheers.

I'm not sure I agree; perhaps Dave does

*Message #3 Posted by [Mike](#) on 25 Dec 2002, 4:36 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

But I don't think anyone should be deleting other people's ads. That seems inappropriate.

Perhaps Dave does not mind; I don't know. Certainly it is possible but that should not be taken as approval to do so. If Dave thinks this is a good idea, he should mention in the header that anyone has permission to delete inappropriate ads, as a warning to seller.

Say someone has two different 41CXs and posts two different ads, do you believe you have the right to delete one because of this, "Please do not post ads for the same items or services more frequently than once per week."

Some may interpret that to mean you could.

I think it's best left to Dave unless he states that anyone may delete inappropriate ads.

Just my take on this.

It depends

*Message #4 Posted by [Dave Hicks](#) on 25 Dec 2002, 5:38 p.m.,
in response to message #3 by Mike*

The reason for the low security is that so many people forgot their passwords.

If you see an outright SPAM like "Home Typists Wanted" "Make Money Fast!" or "What's His Name Is Taking Over the Internet" then I don't mind anyone deleting such a thing before I happen to notice it.

If you think there's a problem of any other sort, please report it to me rather than taking action yourself.

Re: It depends

*Message #5 Posted by [george](#) on 31 Dec 2002, 12:51 p.m.,
in response to message #4 by Dave Hicks*

I leave adds up after I have responded to them in case someone else wants to reply. If a second person responds to the add through a faster connection or with a better offer, I feel that's my problem. I am grateful enough to sellers who use this forum (rather than the dreaded you-know-what) that I always try to give them the benefit of our bargain.

Re: I'm not sure I agree; perhaps Dave does

*Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 25 Dec 2002, 5:38 p.m.,
in response to message #3 by Mike*

Hi;

as you, me and many others in here (I'd say all of us in here, but...) are serious people, there is no need for this. Confidence is probably the word that lead Dave to allow this all. I am sure none of the regular contributors in here would do that. I once read two inappropriate adds at the classified and I removed them. My IP was sent to the one who posted them, and I received no complains. They were not correct adds.

But I agree with you: I should not have done that, but I would never delete a serious add. And I'm pleading guilty, because I have already done it.

When I first get into the Museum's sites, I posted and renewed the same add about four/five times a day. Dave previously sent me an e-mail explaining the "rules": avoid applying the same add for more than two times a week. I just erased the old one and post it again, so it was always in the top! Suddenly, my add began to disappear and I complained. Dave once again explained to me and I could finally understand, it was a matter of interpretation: in my readings, the posts would be more efficient if renewed constantly. And I did it. Four times a day. Till they were smashed out of the Classified Adds page.

I felt a lot ashamed for that, and I apologized for what I'd done. I think time took care of showing I am a serious contributor.

If I post an add at the Classified Adds and receive a message it was removed, I'll post it again. If it happens every time I post it, I'll ask Dave to help me keeping it there. For sure if there is someone removing my posts, he does not deserve my worries.

When we are confident with the group, the outsiders are still out there.

Just my thoughts. I'd not worry about that.

Best regards.

my ad was for an original HP11C manual . .

*Message #7 Posted by [barry](#) on 25 Dec 2002, 8:43 p.m.,
in response to message #6 by Vieira, Luiz C. (Brazil)*

and i'm trying to find out if a person who contacted me regarding purchasing it actually deleted it "for me"; it has never happened before, i've kept the IP address that returned on the MoHPC "ad deletion", it's not mine.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Reuse HP97/67 Magnetic Cards

Message #1 Posted by [Martin Baumgartner](#) on 24 Dec 2002, 11:13 a.m.

Could anyone give me advice how to read HP67/97 Magnetic Cards into a PC. Actually I'm looking for the best way how to transfer Programs of about 20 magnetic cards to a newer HP Calculator (with some reprogramming if necessary)

Thanks for your tips!

Martin

Re: Reuse HP97/67 Magnetic Cards

Message #2 Posted by [David Smith](#) on 24 Dec 2002, 12:23 p.m.,
in response to message #1 by Martin Baumgartner

Best bet is to print them off on an HP97 and convert/re-enter manually.

Re: Reuse HP97/67 Magnetic Cards

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 24 Dec 2002, 1:51 p.m.,
in response to message #1 by Martin Baumgartner

Hi;

I think the easiest way is using an HP41 with a card reader. HP67/97 programed cards can be directly used in the HP41 because the 82104A can "translate" any HP67/97 function to its equivalent in the HP41 system.

If you have an 82104A and a card reader it's easy. Otherwise you'll have to do as David mentioned and enter them manually. Hope you have the listings...

If you need more specific advice, e-mail me.

Cheers.

I forgot these words...

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 24 Dec 2002, 3:07 p.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)*

Forgive-me.

The reason I mentioned the HP41 is that one can directly transfer the HP41 programs to a computer via HPIL, or record them in a disk (HPIL disk driver) and read them in a PC with specific software.

After reading my own post I realised that I did not let clear the why to read HP67/97 cards in an HP41 if what is wanted is reading them in a PC.

Thanks.

Re: Reuse HP97/67 Magnetic Cards

*Message #5 Posted by [Martin B](#) on 25 Dec 2002, 7:57 a.m.,
in response to message #1 by Martin Baumgartner*

Thanks for your recommendations, but: I don't have a HP-41, a 82104A and HPIL Bus! (PC, yes..). Could anyone send me all this nice hardware for some dollars? Just a joke - forget about it.

So David's hint might be the only realistic. But .. which calculator. HP39G or 48gx. These Graphic calculators seem to be to only still sold and with programming features (39:HP Basic, 48:???) and PC connectivity. But is their programming language similar to 67/41/42 or is it completely different?

Martin

Re: Reuse HP97/67 Magnetic Cards

Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 25 Dec 2002, 8:25 a.m.,
in response to message #5 by Martin B

Hi;

The HP48 programming language is know as RPL, or Reverse-polish Programming Language. It is conceptually based in RPN and has many "enhancements" that some former HP/RPN users do not like that much.

Are you acquainted with these calculators, say, HP67/41/42? If you are and like programming them, I have HP BASIC as a bit far from their programming structure than HP48's RPL. In many situations, converting from 41's RPN to 48's RPL is somewhat easy, but in some particular cases it's better to rewrite the program from scratch.

I'd try firstly to copy these magnetic cards' contents and save the original, so you'll be able to work with the programs without loosing them.

E-mail me so I can give you other tips that may not apply to general circumstances.

Cheers.

Re: Reuse HP97/67 Magnetic Cards

Message #7 Posted by [Martin Baumgartner](#) on 25 Dec 2002, 9:39 a.m.,
in response to message #1 by Martin Baumgartner

The real problem: The magnetic card reader of my retired fathers HP97 doesn't work anymore and I don't know how to repair it. He's been using this calculator since years (geometrician). I wrote some very helpful programs about 20 years ago for him and now this work is lost (unreadable magnetic cards in the old HP97).

Personally I have a 42S with infrared printer. This unit has no PC interface an I would have to retype (and adapt) every line of code and then make a gift to my father. Quite a lot of work (and I will lose my 42S!). Also, if the batteries are empty and he doesn't realize it, I can retype the code of 20 magnetic cards!

The best and fastest solution would be to repair or replace the card reader of the HP97. I live in Switzerland and I don't know any nice person who could do that for me. Is it difficult the get a card reader for a HP97 and what are the risks when replacing/repairing it? What would be the price for a HP97 card reader?

Second best solution (but probably quite expensive and time consuming) would be a HP41 with card reader, printer and PC interface. But where can I find this combination for a realistic price?

Third best solution: HP48 with serial Interface to PC. But: what would be the effort to translate 20 magnetic cards to RPL?

Cheers.

Re: Reuse HP97/67 Magnetic Cards

*Message #8 Posted by [David Smith](#) on 26 Dec 2002, 3:59 p.m.,
in response to message #7 by Martin Baumgartner*

Check the articles section of this site or the links on RSKEY.ORG for excellent instructions on HP card reader repair. I much prefer the silicone fuel line over the o-rings.

Re: Reuse HP97/67 Magnetic Cards

*Message #9 Posted by [Simon Strach](#) on 9 Jan 2003, 10:31 a.m.,
in response to message #1 by Martin Baumgartner*

Hallo Martin,

Vorschlag:

du schickst mir die Karten, ich lese sie mit meinem Kartenleser über 41CX ein und schicke sie dir als PC-File zurück, sodaß du die unter V41 lesen kannst.

Gruß, Simon Strach, Köln, 0221-9712035

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Interest on collecting Calculators

Message #1 Posted by [Guillermo Castarés](#) on 24 Dec 2002, 9:45 a.m.

Do you think interest on collecting HP and other brands calculators will be increasing as the time passes?

Or the interest will die with us, the generation of collectors that love our calcs because we used them when studing?

What could happen with calc prices? Will they always increase as do prices of others collecting items?

I hope you understand the point. I know my english is very limited!

Merry Christmas.

Guillermo

Re: Interest on collecting Calculators

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 24 Dec 2002, 10:17 a.m.,
in response to message #1 by Guillermo Castarés

Hi;

from someone else with a very limited English, I believe collectors will prevail anytime, as long as mankind exist. For the matter of calculators, it's just the spark that matters. We here, were the spark that started calling attention for them.

Let's think about it: what sort of stuff is ellected to be a collectible item? Stamps? Telephone cards? I was never told about someone who collect, say, clothes, unless they are rare. I was never told, till a couple of years ago, that someone would collect, say... hewlett-packard calculators? They are tools. Oh, no, now they are rare.

That's what make collectibles collectible items: rarity and availability. Which is the stamp collectors would pay as much money as they have? I have no idea of how does it look like, but it is for sure the rarest.

But it must be available, even if it is rare.

What happens is that HP calculators were always available, and at the moment some of us began to search for them as if they were no longer available, the ones who had them decided to make them rare: *I have this item, but it costs that much, because it's rare!*. If, in any moment in time, they are actually unavailable, hunters will search for other collectible items and make them rare. And there is a point we must never forget: who is elected to decide if an item is rare and valuable? In our case, we are the ones that know which is the rarest: an HP10B or an HP10C? If someone that does know there is an HP10-whatever calculator that is rare, so I'll pay 200 bucks for this HP10B and it's a bargain! Who would do that? None of us, for sure.

Another opposite point: what is a rare calculator good for if we cannot buy it, or even find one?

And let's face it: collecting HP calculators is new fashion, it widely started, say, in 2000?...

So, I think collectors will keep this issue for as long as people are interested in doing business. Otherwise, if someone, from now to a couple of years, look at an HP10C and say: *It has no graphics? So, what is it good for? Naa, I'll not pay more than 10 bucks for this...*, you may be sure collecting HP calculators will not be a big deal...

Time will tell.

Cheers.

(I did not spell check this, so, forgive the errors...)

An adding

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 24 Dec 2002, 5:51 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

Hi;

If I am not wrong, Dave Hicks maintains a lot of calculators that are part of history, some are fully mechanic-based, others are electronic, most of them are digital. Maybe I'm wrong, but Hewlett-Packard brand was Dave's choice, as we see Joerg Woerner and Viktor Toth with other algebraic models, mostly from Texas Instruments.

These guys collect the tools, not the itens, as I see. They all have their pages and they all show their models. And they have been collecting them for a long time, not for these days, if I am not wrong.

What I want to mention is the fact that interest on collecting HP calculators widely, EVEN for those who do not even know what C-MOS or V-MOS technology stand for, is something new. And I mention this fact with no offensive meaning, just because a reliable collector knows very well what is he dealing with, its history, rarity, and so, as Dave, Viktor and Joerg themselves know, for sure. The guys who do not know about their collectibles are, in most cases, the profit-guys. Nothing against them, I sincerely hope that they find something else more profitable than HP calculators soon, and begin selling what they have in stock for lower (actual) prices, and all of us, we and them, be happy.

I myself am far from the big HP commerce center, but I am sad for those who are closer and want to have an HP calculator for professional reasons (as I read in some posts here) but can't afford the high prices.

Cheers.

Re: Interest on collecting Calculators

*Message #4 Posted by [Karl Schneider](#) on 24 Dec 2002, 5:02 p.m.,
in response to message #1 by Guillermo Castarés*

I suspect that the traditional HP calculators will retain their value for a good time to come, because they have the fundamentals of high quality, utility, practicality, and relative scarcity. These are tools, not obsolete gizmos, and they are as useable as when new. While newer products (e.g., PC software and more-advanced calcs) may have become available, they lack some of the attributes of the great HP machines of the '80s.

Unless HP goes "back to basics" with the upcoming outsourced line (let's wait and see), there will be a demand for these well-engineered, but not obsolete, products of the not-too-distant past.

Re: Interest on collecting Calculators

Message #5 Posted by [Paul Brogger](#) on 26 Dec 2002, 5:22 p.m.,
in response to message #1 by Guillermo Castarés

Even with limited English skill, the message should be clear:

One person's crap is another's [collectible](#).

There's no way to predict the future of calculator collecting, but I wouldn't bet *against* steadily increasing prices for HPs. (I do suspect that, should HP release a good high-end RPN/RPL model, some of the over-the-top prices being seen for 32SII's and 42S' will be moderated.)

I should have phrased that more clearly . . .

Message #6 Posted by [Paul Brogger](#) on 26 Dec 2002, 6:53 p.m.,
in response to message #5 by Paul Brogger

In my post, I really wasn't suggesting that if one didn't know English, one would have trouble understanding things . . .

I meant that, *in reading the [article about collecting AOL disks](#)*, it should be clear to most anyone that "one person's crap is another's collectible".

It was only in re-reading my hastily-written note that I suspected a possibility of misunderstanding.

(I really should put a delete code on these!)

I'm sorry if I've offended anyone!

Re: I should have phrased that more clearly . . .

Message #7 Posted by [Stan \(Sg\)](#) on 27 Dec 2002, 5:13 a.m.,
in response to message #6 by Paul Brogger

Certainly no offense taken. I hope that you are right about new RPN/RPL models. With the prices seen on ebay and the interest in places like this and the comp.sys.hp48 forum, I am surprised TI hasn't introduced an algebraic / post-fix switchable model. I can understand the potential for a limited (and perhaps shrinking) market for an all post fix model, but why not one that does both?

Re: I should have phrased that more clearly . . .

Message #8 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 27 Dec 2002, 12:44 p.m.,
in response to message #6 by Paul Brogger

Hi, Paul;

I wish I could know some more in English language, and by no means I would understand your words as offensive; I believe others would not. There is no place for this in here.

But... I feel bad about this... I did not completely understand the sentence at the first reading: "one person's crap is another's collectible". After reading it three times I understood: "what you take as disposable may be usefull for someone else".

Some people say English is easier because of the number of (daily used) words available in the language, but there are some combinations of words and sentences that I have to wonder a few till I get it understood.

I think this answers your "question": how can I feel offended (and others, if appilcable) if I really do not get into the actual meaning, sometimes?

Cheers.

Re: I could have used "junk" instead.

Message #9 Posted by [Paul Brogger](#) on 27 Dec 2002, 2:34 p.m.,
in response to message #8 by Vieira, Luiz C. (Brazil)

Luiz:

"Crap" is a coarse slang term often used for "junk" or "stuff", but also used for "excrement". I didn't choose it to be coarse, so much as for its alliterative value. "Alliteration" is the English technical term for the slightly poetic-sounding repetition of consonant sounds. (A little alliteration adds a lot to a slick slogan or pithy *pronunciamiento*.)

But a nicer way of stating the message is the parallel, and more widely used version: "One man's trash is another man's treasure."

Anyway, thanks for taking the time to try to figure out some of my silly words. I consider it an honor, and am grateful!

-- Paul B.

Re: I should have phrased that more clearly . . .

*Message #10 Posted by [David Smith](#) on 27 Dec 2002, 4:05 p.m.,
in response to message #8 by Vieira, Luiz C. (Brazil)*

One should always remember that english is not a proud language... it freely steals from every other language it comes across. We have no need of them stinkin' language police ala France...

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

If you are well versed at programming the 41 and a pocket PC this is for you

Message #1 Posted by [Dave](#) on 23 Dec 2002, 11:03 p.m.

Wanted to run this by you guys.

In the recent developement of Land Surveying data collection the powers that be (except for one) have decided to EXCLUDE a much needed program that many Surveyors use. It is the celestial observation program in which we use either the Sun or select stars along with latitude, longitude and precise time to obtain direction (i.e. bearing or azimuth) with regard to Astronomic North. Many many years ago the firm of Elgin Knowles and Senne Inc. published the program to perform this operation for the 41. Since then they have included the 42 and 48 calculator programs in their yearly ephemerides. Yet for some reason it hasn't made it to the pocket PC format as far as I know--other than the one company. So here is your chance. If you can develop this program to become a stand alone application on a pocket PC, the \$\$\$\$\$ may be very lucrative. Thanks!

Re: If you are well versed at programming the 41 and a pocket PC this is for you

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 24 Dec 2002, 8:43 a.m.,

in response to message #1 by Dave

Hi, Dave;

I sent you an e-mail and received this:

```
*****
**          THIS IS A WARNING MESSAGE ONLY          **
**  YOU DO NOT NEED TO RESEND YOUR MESSAGE  **
*****
```

The original message was received at Tue, 24 Dec 2002 03:33:29 -0200
from [xxx.xxx.xxx.xxx]

----- The following addresses had transient non-fatal errors -----
<msls2739@netdoor.com>

----- Transcript of session follows -----
<msls2739@netdoor.com>... Deferred: Connection refused by
rock.netdoor.com.
Warning: message still undelivered after 4 hours
Will keep trying until message is 5 days old

Reporting-MTA: dns; srv1.quantica.com.br
Arrival-Date: Tue, 24 Dec 2002 03:33:29 -0200

Final-Recipient: RFC822; msls2739@netdoor.com
Action: delayed
Status: 4.4.1
Remote-MTA: DNS; rock.netdoor.com
Last-Attempt-Date: Tue, 24 Dec 2002 07:50:17 -0200
Will-Retry-Until: Sun, 29 Dec 2002 03:33:29 -0200

I thought about posting the e-mail contents, but I'll wait for your reply in my e-mail address, if you may.

Thank you.

Re: If you are well versed at programming the 41 and a pocket PC this is for you
*Message #3 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 24 Dec 2002, 10:56 a.m.,
in response to message #1 by Dave*

There are nice HP41 and HP48 emulators for the PocketPC, (and IMHO any "seriuos" PocketPC user should have one of them resident permanently on such PDA); perhaps the interest on a native version is reduced because of this fact.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Pioneer with no serial number

Message #1 Posted by [Randy Sloyer\(US\)](#) on 23 Dec 2002, 5:38 p.m.

I recently aquired a 14B. It is a 1987 Made in USA unit, according to the case. There is nothing special about the piece other than the serial number area is completly blank. Not even a hint of one, just smooth and blank.

Has anyone ever seen this before on perhaps an early production unit or prototype?

Re: Pioneer with no serial number

Message #2 Posted by [David Smith](#) on 24 Dec 2002, 12:26 p.m.,
in response to message #1 by Randy Sloyer(US)

Warranty replacement unit that was never filled in with the original unit's number.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-71B programs?

Message #1 Posted by [Todd Kessel](#) on 22 Dec 2002, 2:08 p.m.

Is there anywhere I can download some programs for my HP-71B? user progs, etc..... The only one I found was the one on this site.

THanks

Re: HP-71B programs?

Message #2 Posted by [Gordon Dyer](#) on 22 Dec 2002, 3:08 p.m.,
in response to message #1 by Todd Kessel

This one for the 71B calculates PI to the number of decimal places you ask for. The result is written to a text file.

Crazy? Ok, you didn't say what sort of program you wanted!

```

10 ON ERROR GOSUB 'ERR'
20 DELAY 0
30 DESTROY ALL
40 L=11 @ H=10^L
50 INPUT "No. of DP? ";D0
60 T1=TIME @ T9=T1
70 B=INT(D0/L)+2 @ T0=1.66*D0
80 DIM P(B),T(B)
90 T(B-1)=H/2 @ P(B-1)=H/2
100 FOR N=1 TO T0
110 T8=INT((TIME-T9)*(T0-N+1)+TIME)
120 IF N=1 THEN 170
130 D9=INT(T8/(24*3600))
140 T8=MOD(T8,24*3600)
155 IMAGE "TERM:"ZZZZ,XDD"D ",ZZ":",ZZ":",ZZ
160 DISP USING 155;T0-N,D9,INT(T8/3600),MOD(T8/60,60),MOD(T8,60)
170 T9=TIME @ X=N+N-1 @ GOSUB 380 @ GOSUB 380
180 X=8*N @ GOSUB 430

```



```
190 X=N+N+1 @ GOSUB 430
200 GOSUB 480 @ NEXT N
210 C=0 @ FOR i=1 TO B
220 P(I)=P(I)*6+C
230 C=INT(P(I)/H)
240 P(I)=P(I)-C*H
250 NEXT I
260 'SHOW':
270 PURGE PI @ CREATE TEXT PI @ ASSIGN #1 TO PI
280 ! PRINT #1;STR$(P(B))&". "
290 FOR I=B-1 TO 1 STEP -1
300 A$="000000000000"&STR$(P(I))
310 PRINT #1;A$[LEN(A$)+1-L]
320 NEXT I
330 DELAY .5
340 OFF TIMER #1
350 T1=TIME-T1 @ T0$=TIME$ @ OFF
360 DISP "CPU TIME=";T1-60*O0
370 OFF TIMER #1 @ END
380 C=0 @ FOR I=1 TO B
390 T(I)=T(I)*X+C
400 C=INT(T(I)/H)
410 T(I)=T(I)-C*H
420 NEXT I @ RETURN
430 C=0 @ FOR I=B TO 1 STEP -1
440 Z=T(I)+C @ C=0
450 Q=INT(Z/X) @ T(I)=Q
460 C=H*(Z-Q*X)
470 NEXT I @ RETURN
480 C=0 @ FOR I=1 TO B
490 P(I)=P(I)+T(I)+C @ C=0
500 IF P(I)<H THEN 520
510 P(I)=P(I)-H @ C=1
520 NEXT I @ RETURN
530 'ERR': T0$=TIME$
540 OFF
550 DISP "ERROR:";ERRM$;" in line";ERRL;"at ";T0$
560 PAUSE
570 RETURN
```

Re: HP-71B programs?

Message #3 Posted by [lowracer](#) on 23 Dec 2002, 1:53 p.m.,
in response to message #2 by Gordon Dyer

Actually punched this whole thing in and ran it.

It seems to run fine but I don't know how to view the output file. Any hints? -mark.

Re: HP-71B programs?

Message #4 Posted by [Gordon Dyer](#) on 26 Dec 2002, 9:52 p.m.,
in response to message #3 by lowracer

Here is a program to read the PI Text file.

It displays the value 11 digits at a time and then you need to press f CONT for the next 11.

When the end of file is reached you will get an error message. Sorry for the sloppy programing!

```
10 ASSIGN #1 TO PI
20 'READPI': READ #1;P$
30 DISP P$
40 PAUSE
50 GOTO 'READPI'
```

3.14159265358979323846255676732957345731783577961883

Re: HP-71B programs?

Message #5 Posted by [Vassilis Prevelakis](#) on 24 Dec 2002, 12:22 a.m.,
in response to message #1 by Todd Kessel

Try <ftp://ftp.math.jyu.fi/pub/hpil>

**vp

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-16C versus SR-22

Message #1 Posted by [Joerg Woerner](#) on 22 Dec 2002, 7:14 a.m.

Hello to all lucky owners of a HP-16C. Recently I received an oldfashioned Texas Instruments SR-22 and noticed that this rare beauty performs a conversion between a decimal floating point number to OCT, HEX and vice versa. Example:

1.23456789E12 converts to

2.175617660 E17 Base-8 or

1.1F71FB044 E0A Base-16

Highest decimal input is

9.999999999 E99 converts to

1.249AD258D E53

My question: Is the HP-16C - or any other known calculator - able to perform similar (stupid?) calculations ?

A picture is here: <http://www.datamath.org/Desktop/sr-22.htm>

Greetings from Germany, Joerg

BTW: Merry Christmas and Happy New Year plus Great calculator hunting plus all my best wishes that HP returns with a RPN calculator and stops selling rebadged Citizen stuff...

Re: HP-16C versus SR-22

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 22 Dec 2002, 9:22 a.m.,
in response to message #1 by Joerg Woerner

Hello, Joerg;

The HP16C works only with integers when in one of the four basis, i.e., both decimal point/radix mark key [.] and enter exponent [EEX] are even disabled, they work only in floating point calculations. And in this mode, the HP16C works only with decimal numbers.

BTW, I'd send you an e-mail about it: I have a friend who own a PC200 and does not have a calculator to use with it. So, I am telling you that BA55 is travelling to another country, O.K.?

Good reading your posts here.

Best regards.

Re: HP-16C versus SR-22

Message #3 Posted by [Les Bell \[Sydney\]](#) on 22 Dec 2002, 5:56 p.m.,
in response to message #1 by Joerg Woerner

The HP 16C does perform conversions between floating point and the integer modes (and vice versa), though not in the most obvious way.

When converting from integer to float, it takes the values in the X and Y registers and converts them into $y * 2^x$, with the result being left in the FP X register. Switching from float to integer does the reverse calculation.

This is not what most people expect, especially these days. However, the 16C manual does provide a couple of programs for converting between the 16C's floating point decimal format and IEEE 754 single-precision (32-bit) floating point.

Best,

--- Les

Re: HP-16C versus SR-22

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 22 Dec 2002, 10:55 p.m.,
in response to message #3 by Les Bell [Sydney]

Hi;

you're right. There is an IEEE standard for representing binary numbers (not integers) in a 32-bit word like this:

s	e	f	(IEEE proposed format)
31 30	23 22		0 (bit #)

where s is the 1-bit signal, e is the 8-bit biased exponent and f is the 23-bit fraction.

As the HP16C represents floating point numbers in a ASCII fashion, the equivalence between the floating point numbers and the binary integers in the HP16 is accomplished with [FLOAT] n and any of the four base keys: [BIN], [OCT], [DEC] and [HEX]. When toggling from floating point to any of the integer bases, one binary integer is obtained from the values in Y and X registers, like this:

(integer in selected base) = $Y \cdot 2^X$

This equivalence is preserved when toggling back.

The Programs for Format Conversion provided in the HP16C manual demonstrate how to convert from internal HP16C's floating point decimal and IEEE floating point binary (single precision) and back.

None of these operations are equivalent to the ones shown in the SR22, and I believe this is mostly because this calculator seems to allow binary *numbers* to be entered, not supported by the HP16C that only accepts single binary *integers* as input data.

Am I correct or I missed something?

Cheers.

Humor

*Message #5 Posted by [Mike](#) on 23 Dec 2002, 10:56 a.m.,
in response to message #1 by Joerg Woerner*

The HP-16C is a calculator.

The SR-22 is an airplane.

Sorry, couldn't resist. (picture unavailable)

Re: Humor

*Message #6 Posted by [Joerg Woerner](#) on 25 Dec 2002, 6:12 a.m.,
in response to message #5 by Mike*

Sure - a neat one. But as calculator it outdates the HP-16C about 10 years - and the HP perform worse in some kind of your everyday usage:

SR-22 vs. HP-16C

Keyboard: Real keys against Chicklet knobs

Display: Strong red LED readable without glasses at night

Base-16 conversions: Floating vs. Fixpoint

Battery usage: None vs. little bombs

So long, keep your humor ;-))

Merry Christmas and Happy New Year !

Re: HP-16C versus SR-22

*Message #7 Posted by [Chris Randle \(UK\)](#) on 23 Dec 2002, 3:55 p.m.,
in response to message #1 by Joerg Woerner*

Not a calculator, but Derive on my HP200LX can do essential stuff like pi to 1000 decimal places in binary (or any number base up to 36)

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 41 CV not responding

Message #1 Posted by [Daniel CLEMENT](#) on 22 Dec 2002, 5:26 a.m.

Hello,

I am in need of an authorized advice.

My HP 41 CV has suffered a battery leakage last month. The contacts between the battery compartment and the circuitry were all corroded.

I could replace the damaged part with a spare one, and the calc worked for one week. The last time it would turn on, I had some difficulty in turning it off. Then, I was no longer able to turn it on.

It looks like a contact problem with the 'on' key. It seems pretty difficult to access the keyboard... What could I try?

TIA - Daniel CLEMENT

Re: HP 41 CV not responding

Message #2 Posted by [David Smith](#) on 23 Dec 2002, 4:59 p.m.,
in response to message #1 by Daniel CLEMENT

Beneath each HP41 key dome is a small feedthrough hole. Look carefully under a bright light while pressing the key and you can see the key dome flexing.

Place a drop of 91% isopropyl alcohol on the hole, insert a small wire brush made of three bristles of a larger brush inserted in a razor knife holder, twisted together, and trimmed flush. Dip the tiny wire brush in more alcohol, and whisk around in the offending key hole. Be careful not to break a bristle off in the hole and keep the alcohol off the clear LCD window.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

75C and 41C!

Message #1 Posted by [Michel Beaulieu](#) on 21 Dec 2002, 8:33 p.m.

Just for the fun, i plug my newly acquired HP-IL module from my HP-41C to my dislike HP-75C; so still for the fun, can i "hadshake" them or send something from one to the other? A friend of mine told me to plug it in my HP-71B but i can't find the IL connectors on my 71B; is it integrated like my 75C or an option card like my 41C.

Same question for the card reader : on my 75C i found the card reader but no traction was made on my cards; what is the command for reading the cards? Where is the card reader on a 71B an option too???

Thanks again

An HP beginner...

Re: 75C and 41C!

Message #2 Posted by [lowracer](#) on 22 Dec 2002, 12:44 a.m.,
in response to message #1 by Michel Beaulieu

Hi Michel,

I can't respond to all your questions but here are the few I know the answers to:

71B HP-IL is provided by an optional module. There are several for sale on eBay at this time. I just bought two myself. (I only needed one, but the one sure way to get what you want on eBay is to bid for two identical items at the lowest price imaginable; Murphy's law says you're sure to win both, and if you only bid the insanely highest price for one, Murphy says you'll certainly lose it in the last 9 seconds to a sniper)

75C built-in card reader as well as 71B card reader (option) is a manual pull-through type. There is a command to read/write etc, but you must pull the card through by human power. The computer will prompt you when it is time to pull the card.

I also would like to know if there is an HP-IL way to make a 41C series talk to a 75C and a 71B.
-mark.

Re: 75C and 41C!

*Message #3 Posted by [Gordon Dyer](#) on 22 Dec 2002, 10:57 a.m.,
in response to message #2 by lowracer*

I would also like to connect my 41CX with my 71B, I have HP-IL interfaces for both but have not worked out the software required (not enough time to work through the manuals and try things out).

Help with some software for this would be welcome from anyone...

I am not sure why I want to make them talk but it would be fun and interesting, and might stop them feeling lonely!

Re: 75C and 41C!

*Message #4 Posted by [Gordon Dyer](#) on 22 Dec 2002, 11:00 a.m.,
in response to message #2 by lowracer*

Or how about some software to get 2 71B's or 2 41C's to talk to each other?
I have 2 of each...

Re: 75C and 41C!

*Message #5 Posted by [J-F Garnier](#) on 22 Dec 2002, 1:19 p.m.,
in response to message #4 by Gordon Dyer*

A few things to know: To make 2 (or more) HPIL units communicate, one must be controller, and the other(s) are devices. HP41 and HP75 are always loop controller, HP71 can act as controller or device.

It's very easy to make 2 HP71 talk to each other: just make RESET HPIL then RESTOREIO on the first one to take control of the loop, then you can do (for example): COPY anyfile TO :HP71 from the first one, and COPY :LOOP from the second one!

There is no easy way to make 2 HP41 talk to each other. You need either special complex software (using IL dev module for example), or 2 interfaces (GPIO, RS232) connected back to back.

In the case of one HP41 and one HP71, do CONTROL OFF on the HP71, then you can

do OUTA on the 41, and ENTER :LOOP;A\$ on the 71B (only an example!)

HP75 <-> HP71: it's similar to 41 <-> 71, just make 71 give control off.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

use, prices, other-brand rpn

Message #1 Posted by [db\(martinez,california\)](#) on 21 Dec 2002, 4:54 p.m.

- 1) my 41 never even came out of the case at work yesterday. the first time since the early 90's.
- 2) people have been commenting on outrageous ebay prices for a while now. i just read something that will help to put that in context. in 1997 the loincloth that kirk douglas wore in the film "sparticus" was auctioned off at sothebys for \$2990.00. that price makes a \$2300.00 hp65 or a \$170.00 hp32sii look like a good use of ones money. and a more hygenic use too.
- 3) i have been playing with an "allegro" lately. it's a windows ce based coke bottle shaped touch screen handheld. the program this one uses has three "calculators" in it. one is an aos basic calc. another is a specialized curve geometry calculator. the last is the "scientific", it is rpn with an hp style 4 level stack (all visible), replicating t reg, last x and all. it has 4 memories and all 6 trig functions but no p-r. the programmer was a bit unclear on the concept; it converts from D.dddd to dms but not back again and the arithmetic functions are all shifted, but it's rpn and i guess they would not have put it in there if they didn't think that people expected it.

Re: use, prices, other-brand rpn

Message #2 Posted by [Ernie Malaga](#) on 21 Dec 2002, 7:43 p.m.,
in response to message #1 by db(martinez,california)

Please forgive me for saying so, but anyone who pays \$3000 for a piece of dirty underwear should have his/her head examined. It makes no sense absolutely; looking at it, you can't tell it was worn by Douglas -- which would be the prime reason for buying it. I might as well cut a dish rag and claim it's a tampon that Queen Victoria discarded.

A \$2300 HP-65 is okay if (a) money is no object and (b) it is in good working condition. After all, allowing for inflation, the \$800 price tag it had originally would amount to much more than a mere \$2300.

Paying \$170 for a HP-32SII is also okay. It's a useful machine and the price is not too outrageous.

As you can see, I'm not a collector of things. 8^()

-Ernie

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

75C Beep Problem Revisited - Audio this time

Message #1 Posted by [Mike](#) on 21 Dec 2002, 1:56 p.m.

Ok, since I didn't get any solution to my beep problem, I thought I'd provide a sound file so you can hear the problem.

Prior to the beep, the 75 is quiet. After executing the beep, there is a hissing sound (like white noises) after the beep. It continues until the 75 is powered down. When it comes back on, it is silent, until the beep.

The audio: [75C Beep noise](#)

I have seen this on most of the 75s that have been removed from the expansion pod and only on the ones that have had the speaker removed. After reinstalling the correct speaker, this noise is present.

Anyone know what causes this? Does using this external connection with the expansion pod cause this failure?

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

hp-11c - display problems

Message #1 Posted by [Surfguy](#) on 21 Dec 2002, 1:13 p.m.

Hi folks, First post for me here, hope you're all ready for Christmas. But down to the biz at hand.. I've got a couple problems with my HP-11c, circa 1984; 1. "stuck " in scientific notation 2. prior to that, was not displaying a decimal point.

I tried running the tests - off, hold down + turn on, release +

off, hold down "division" turn on, release "division"

off, hold down "multiplication" turn on, release "multiplication"

off, hold down "subtraction" turn on, release "subtraction"

Any ideas where to go next? Stupid question perhaps.. could my batteries be low? I've replaced them within the last 5 years!!

Re: hp-11c - display problems

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 21 Dec 2002, 1:22 p.m.,
in response to message #1 by Surfguy

Hi;

if you want to change from scientific notation to a fixed decimal places' notation, locate the [7] key and you'll see an orange (golden?) FIX over it. Now locate the [f] (orange/golden) key, beside the [ON] key. Now think of how many deciaml places you want: what about 4?

Now press the keys: [f] [7] 4 (think that [f] [7] mean [FIX], O.K.?)

What do you mean for "was not displaying a decimal point"? Does it have a comma instead of a dot as radix mark? If so, do it:

switch the calculator to OFF press AND hold down the [.] key; while [.] is down, turn the calculator ON; release the [.] key

if you repeat this sequence, you'll toggle the radix mark from dot to comma.

Hope this helps.

Re: hp-11c - display problems

*Message #3 Posted by [SURFGUY](#) on 21 Dec 2002, 1:35 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Thanks for the tip on getting back out of scientific notation.. that worked!!

Let me see if I can describe what I mean about "no decimal point"

I have my decimal fixed at 3 places. When I turn on my calc, I see 0 000 in the display instead of 0.000

I think I'll test my batteries!! :-D

Re: hp-11c - display problems

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 21 Dec 2002, 6:22 p.m.,
in response to message #3 by SURFGUY*

Hi;

I'm not sure it will solve the problem, mostly because it happens only with the decimal point. If it is a battery problem, all of the LCD's segments would dim off. It's also possible to be a bad contact in the conductive polymer between the LCD and the mainboard.

Anyway, the flashing asterisk is a good indication of low-batteries condition; at least in the Voyagers it is reliable. But testing batteries is harmless and always a good procedure, go ahead.

Success.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-16C switch-on problem.

Message #1 Posted by [Graeme Hardie](#) on 21 Dec 2002, 7:55 a.m.

I have recently acquired a 16C from someone who had not used it for a long while. It functioned perfectly when I installed new batteries but after a few days would not switch on. I tried all the tricks in the manual and within the archives of this forum. Shorting the battery produced "Pr Error" when subsequently switched on, but it would not then switch off! If I leave the batteries out for a few days it will then work....but not for long and we go around the loop again. Battery voltage is fine and it passes all self-tests when working. However, I have noticed that when entering numbers quickly (esp. repeated digits), the input is sometimes interrupted by the memory status displaying but I don't know if this is normal.

Any suggestions would be appreciated especially since this 16C is in near-perfect condition. Thanks in anticipation.

Re: HP-16C switch-on problem.

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 21 Dec 2002, 9:37 a.m.,
in response to message #1 by Graeme Hardie

Hi;

I have seen this sort of symptom in an HP12C and the problem was that one of the IC's terminals had a soldering bad contact. After resoldering all terminals it worked fine till yesterday (I've been with its owner). More than 8 months are passed.

You're probably find someone that deals with Electronics in a way he'll be able to resolder the terminals and check if they are fine, unless you can do it yourself. If you are skilled in Electronics, you can open the calculator and you'll see two IC's: a big one right under the LCD and a smaller one, at the right side. You can unconditionally resolder all terminals of both IC's, small amount of solder and low power soldering iron. I normally short batteries terminals (+ and -) and use the same wire to connect with the soldering iron metal parts (reduces ESD levels), even if it uses ceramic tip. Just take care not to heat up the terminals too much; also, you can reduce thermal effects by soldering even terminals first, then the odd ones (or the

opposite). Wait for a while after each 8 terminals to cool up the IC package and get back on soldering the other 8.

You can print these tips and show them to the one that's going to do the job, if it's not you the one to do it.

Also, wait for other posts that can give you other solutions. Maybe I have missed something in your explanations and I'm trying an extreme solution.

I've done this with many HP calculators and they got back to normal operation.

Success.

Re: HP-16C switch-on problem.

*Message #3 Posted by [Graeme Hardie \(UK\)](#) on 22 Dec 2002, 12:23 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Thanks Luiz. Info much appreciated. This is a last resort though. Graeme

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Ballistics programs for HP41C or 42S?

Message #1 Posted by [Bill Wiese](#) on 20 Dec 2002, 7:44 p.m.

Hi folks..

Any exterior ballistics programs for HP41C or 42S?

That is, knowing things like ballistic coefficient, muzzle velocity, height of sights over bore, etc., a zero point, I can figure rifle shot trajectories?? Play with zero, watch impact point change?

Thanks, Bill Wiese San Jose, CA

Re: Ballistics programs for HP41C or 42S?

Message #2 Posted by [db\(martinez,california\)](#) on 21 Dec 2002, 10:18 p.m.,
in response to message #1 by Bill Wiese

would air pressure be a factor there? wait a minute. this is for a rifle isn't it? have i pissed you off? is martinez out of cannon range?

Re: Ballistics programs for HP41C or 42S (or 71B?)

Message #3 Posted by [Bill Wiese](#) on 22 Dec 2002, 4:09 p.m.,
in response to message #2 by db(martinez,california)

Hi..

Should've added HP71B to my list of poss targets as well.

> would air pressure be a factor there? wait a minute. > this is for a rifle isn't it? have i pissed you off? > is martinez out of cannon range?

No you haven't pissed me off :) This is for my rifles. And yes, Martinez might be in "cannon" range of San Jose if you count naval guns as such.

Yes, temperature, barometric pressure, altitude, humidity can all play a part. But some of these variables can be quantized into 'bands' since even moderately large variations have relatively small effect on impact at a given range (and if they have larger effects at longer ranges sometimes a better choice of caliber is in order - say, changing from .308 to .30-06 to .300 Winchester Short Magnum).

Bill Wiese San Jose, CA

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Spice construction techniques

Message #1 Posted by [Don Davis](#) on 20 Dec 2002, 5:17 p.m.

I saw elsewhere on the MoHPC site that the Spice-series calculators were originally built with the chips pressed, not soldered to the PCB, and that this was changed later in the production run. Can anyone tell me when this change was affected? I have a 34C which I am curious about.

thanks, Don

Re: Spice construction techniques

Message #2 Posted by [Karl Schneider](#) on 21 Dec 2002, 12:04 a.m.,
in response to message #1 by Don Davis

Don --

I had asked the same question in the MoHPC Forum (what serial # marks the changeover?), but got no responses.

FWIW, I have two "old-style" HP-34C's, the more recent one with a S/N 2110S32559. I also have a "newer" style with a S/N 2225S31419. So, somewhere in that 67-week period spanning March 1981 to June 1982, the changeover in production methods occurred.

One can identify the newer units by their lighter weight (no metal backing plate) and easier keyboard action (resulting from redesigned snap rings). This is fairly well documented in the MoHPC under the [HP-34C](#)

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Why do people paid high price for the 32SII

Message #1 Posted by [Chan Tran](#) on 20 Dec 2002, 11:32 a.m.

I wonder what do the people who bought the 32SII for well over \$150 use it for? For calculation the 32SII is certainly a nice calculator but it's hard for me to say that the 32 is better than the 48GX. I understand that there are things that are better with the 32 but the 48 offers a lot more and we can get one at a lower price now.

Re: Why do people paid high price for the 32SII

Message #2 Posted by [R Lion](#) on 20 Dec 2002, 12:06 p.m.,

in response to message #1 by Chan Tran

I agree: the 48 is "the total-calculator". Some simple things are easier in the 32 and also is smaller. The only reason I find for explaining its high price is... (i don't know what to say :-)
Raul

48 or 49

Message #3 Posted by [Michel Beaulieu](#) on 20 Dec 2002, 1:12 p.m.,

in response to message #2 by R Lion

I don't have a 48 or a 49 but plan to buy one of them. I read here and there about the 48 and "all" says that it's a really good calculator. I read on the HP site that the HP-49G is their "newest" graphing calculator with more functions and memory than the 48; HP says it's their "top of the line" calculator. Why none is praising the 49G isn't a good upgrade of the 48GX?

Re: 48 or 49

Message #4 Posted by [R Lion](#) on 20 Dec 2002, 2:05 p.m.,
in response to message #3 by Michel Beaulieu

Yes it is. If you have a 48GX and install Metakernel in a 128Kb RAM card in slot 1, plug 1Mb Ram card in slot 2, and install Erable and Alg48 for symbolic maths, you get "almost" a 49: the 49 has 1.5Mb instead 1.25Mb, and the versions of the above programs are slightly better. I think is cheaper to buy a 49 and you get the best software and flash ROM instead RAM with batteries...BUT, I will not do it: I don't think the 49 is reliable. Many units have failed, rubber keys, uncomfortable (for me)menus... Just my opinion. Sure there are many 49's fans.

Raul

Re: 48 or 49

Message #5 Posted by [Ron Ross](#) on 20 Dec 2002, 2:06 p.m.,
in response to message #3 by Michel Beaulieu

I have both (actually, I have them all, no, I don't have a 48g+). I like the 48gx best (especially with a RAM card). However that said, it really depends upon what you plan to use it for. Spec wise the 49G walks all over a 48. So why the praise for the 48?

Because the 48g series still looks and feels like an Hp quality calculator. With RAM cards, you can load up all the software you need to make it equal to an Hp49's CAS and other enhancements (graphics, mostly).

Buy the 49G and you get lots of RAM, CAS, LCD screen protection and faster graphics. You also get a frozen Hamster butt blue (marketing calls it ice blue) and Rubber keys which are not nearly as nice as the older Hp keyboards (though they aren't that bad either) and the enter key located on the bottom right (to an old RPN user, the WRONG PLACE).

For lots of number crunching, I know when I hit and feel a keyclick I have entered a number on a 48g without looking, I can't say that with my 49g. However for advanced math, I like the extra built in features of a 49g (though most could be loaded onto a 48gx, hence the RAM card).

As far as cost of a 32 vs a 48, madness, pure madness. Even a low end 48g blows the doors off a 32s. However, the 48g is NOT a pocket calc, and if you need a small RPN pocket calc, well that is why \$\$\$\$\$\$ the 32 probably costs\$\$\$ so much.

Just my 0.05 worth.

Re: 48 or 49

*Message #6 Posted by [M. Neu](#) on 20 Dec 2002, 5:11 p.m.,
in response to message #3 by Michel Beaulieu*

Michael

I love the hullabaloo over the 48 vs. the 49. I own and enjoy both. I am partial to the 49 only because of it's enormous versatility. To take advantage of this, you will have to download the manual, and spend a substantial amount of time learning to use the features you need. Likewise for the 48. Since I have earlier manuals and long experience with a 48S the 48G was a little easier to adjust to. Either calculator has functional capabilities far beyond the average users needs, and intellect. The volume of information available for either is overwhelming and, from my use thus far, interchangeable. I have learned a lot about using the 49 from articles written for the 48. Remember, your just buying a calculator!

Re: Why do people paid high price for the 32SII

*Message #7 Posted by [David Smith](#) on 20 Dec 2002, 4:50 p.m.,
in response to message #1 by Chan Tran*

The HP48 is just too complicated for most uses. It is also very large. A lot can be said for a simple, powerful, easy to use machine that is not cluttered up by a lot of functionality that most people will never use. I still prefer the good 'ole HP41. I have never had the need or desire to draw a graph on a calculator screen.

Re: Why do people paid high price for the 32SII

*Message #8 Posted by [Bill Wiese](#) on 20 Dec 2002, 7:41 p.m.,
in response to message #1 by Chan Tran*

For many of us a 48 is overkill. Plus the 48 doesn't have the traditional 4-level RPN stack.

If I need a 48 to solve a problem, I'll use my PC with Matlab or Excel, etc.

When I want to play with numbers, have quick calculations that don't necessarily need tabular results, etc. then I like an RPN programmable calc.

Regards Bill Wiese

Re: Why do people paid high price for the 32SII

Message #9 Posted by [karl](#) on 7 Jan 2003, 10:59 a.m.,
in response to message #1 by Chan Tran

I have had a 32sII for 10 years. Best calculator that I've ever used. I can shove it in a shirt pocket, go out on the factory floor, and solve problems quickly. It is great for converting binary, hex, and floating point numbers on-the-spot while trouble shooting instrumentation through a-d converters , linearization algorithms, and PID controllers.

Unfortunately, it is getting a little cranky from getting dropped or knocked off of machines too many times. I was shocked to find that HP had discontinued it, and of the prices that the older ones fetch. I am almost tempted to buy another one because it is so easy to use. I have a 48GX, but it is big, it does not really apply easily to factory floor troubleshootong, and it wont do base conversions easily for troubleshooting controllers.

Re: Why do people paid high price for the 32SII

Message #10 Posted by [David Smith](#) on 7 Jan 2003, 6:00 p.m.,
in response to message #9 by karl

If you can find one for an acceptable price, buy it... they don't make 'em like they used to.

Re: Why do people paid high price for the 32SII

Message #11 Posted by [Tom \(UK\)](#) on 8 Jan 2003, 7:35 a.m.,
in response to message #1 by Chan Tran

Because the functionality is just right (remember Goldilocks?)

The '32 has all the functions you need and most of them are on the keyboard. The batteries last for years (not months), the display is nice and big, the manual covers all the features well and the average user can get their head round the calculator.

It seems that marketing people (not only at HP) think by adding more features (and providing poorer documentation) will make any calculator sell better than the old ones - how wrong they are (at least in my case and those willing to pay good money for '41, '42, '32 calculators).

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Changing Interest

Message #1 Posted by [Gordon Dyer](#) on 20 Dec 2002, 5:29 a.m.

My interest in calculators started from a science background when power series and Bessel functions were interesting. At that time when I saw a financial calculator I thought Amort was a dead person!

However, now I have a mortgage and have to buy cars and other expensive things I have found a new interest in financial calculators, my collection has grown to include:

HP-38C

HP-12C (old and new)

HP-10B (old and new)

HP-14B 50th anniversary

HP-17BII (brown bezel)

HP-10BII

Commodore F4902

Car salesmen always look scared when I put one of these on their desk and check the repayments! I would also like to get the financial modules for HP-41CV and HP-71. Can anyone help??

Gordon

Re: Changing Interest

Message #2 Posted by [John Smith](#) on 20 Dec 2002, 7:40 a.m.,
in response to message #1 by Gordon Dyer

As your subject is "Changing Interest", may I suggest you try and get a vintage Sharp PC-1421 Financial Pocket Computer ?

You can have a look at it here:

http://pocket.free.fr/html/sharp/pc-1421_e.html

<http://pocket.free.fr/images/sharp/pc-1421.jpg>

It's a wonderful machine: very slim, lightweight, metallic body, full alphanumeric dot-matrix display, comes with 4 Kb RAM but admits extra RAM Cards, has an I/O port to store/load programs on tape, or connect it to a printer, etc.

But most importantly for your new interest, it features a full array of financial functions (including Internal Rate of Return, mortgages, date calculations, anything) PLUS all usual mathematic functions and BASIC language commands (i.e: trigs, logs, subroutines, for-next loops, two dimensional arrays, long name variables, string variables, etc).

Of course, all financial functions can be used right from the keyboard AND from BASIC programs !! :-) You can even do machine language programming (PEEK, POKE, CALL) on the machine itself (for instance to create and animate graphics on the dot-matrix LCD), no accessories needed.

And, as a big plus, it's very fast, much faster than, say, an HP-12C. Of course, with its memory, expandability, speed, plus its powerful BASIC language extended with financial commands, you can do real wonders with it, specially if attaching a full-size line printer to it. Also, it has continuous memory (of course), but the RAM cards with your financial programs and data on them can be removed from the machine or exchanged without losing their contents, as well.

My advice: get one (eBay ?) fast, and you'll be delighted. I certainly am with mine.

Re: Changing Interest

*Message #3 Posted by [Gordon Dyer](#) on 20 Dec 2002, 2:34 p.m.,
in response to message #2 by John Smith*

WHAT??? IS this heracy, recommending a Sharp maching in the HP site???

Re: Changing Interest

*Message #4 Posted by [Masao Kinoshita](#) on 20 Dec 2002, 9:05 a.m.,
in response to message #1 by Gordon Dyer*

A few years ago, my wife and I were looking for a new car and one deal that a salesman gave us seemed too good to be true. I whipped out my HP 48GX and indeed it was too good to be true. Their deal maker had made an error.

The 48GX is indeed an amazing calculator!

Re: Changing Interest

Message #5 Posted by [gifron](#) on 20 Dec 2002, 1:15 p.m.,
in response to message #1 by Gordon Dyer

One place I like to check occasionally is The Bull Cabinet (<http://members.aol.com/tbcab/private/hewlettpackard.htm>). Having just checked after reading your post, I see that they have the GMAC I, II, and III modules listed - No prices though.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP41C Modules Locations ?

Message #1 Posted by [Pyerre](#) on 20 Dec 2002, 1:14 a.m.

Hello,

This HP-41C came in with 4 non-installed modules :

Two(2)x Memory(HP 82106A), STAT-1(HP 00041-15002), MATH-1(HP 00041-15003)... without manuals.

I really don't know how to use and install them properly. Do they have to go in their specific locations or just really does not matter ?

Many thanks in advance for all helps,

Pyerre

Re: HP41C Modules Locations ?

Message #2 Posted by [Massimo Gnerucci \(Italy\)](#) on 20 Dec 2002, 1:53 a.m.,
in response to message #1 by Pyerre

Put Memory modules in slots 1 and 2, Stat and Math modules need no special arrangement.

Massimo

HP41C Modules Locations general rule...

*Message #3 Posted by [A. G. OZISIK](#) on 29 Dec 2002, 12:41 a.m.,
in response to message #2 by Massimo Gnerucci (Italy)*

Memory modules of the 41s have to be placed always on the first available lower slots.

For example, you can make;

1: memory, 2: memory, 3: stat, 4:math or 1: memory, 2: memory, 3:math, 4: stat,

But never; 1: memory, 2:math, 3: stat, 4: memory, or 1:math, 2: stat, 3: memory, 4: memory,

Re: HP41C Modules Locations more general rule...;-)

*Message #4 Posted by [Raymond Hellstern \(Germany\)](#) on 30 Dec 2002, 5:27 p.m.,
in response to message #3 by A. G. OZISIK*

Hi,

simply don't put an XMem in the physical port above (or below) the other...

Raymond

Re: HP41C Modules Locations ?

*Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 29 Dec 2002, 10:16 a.m.,
in response to message #1 by Pyerre*

Hi;

about the manuals. Have you loocked [here](#)? If you are using these modules' features, you need their manual for detailed and efficient results.

Cheers.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Networking

Message #1 Posted by [Kurt Darling](#) on 19 Dec 2002, 6:55 p.m.

I have an HP laptop with Windows Professional 2000. It is connected via a home network to another computer with Windows ME. The Windows ME computer can access the laptop and copy files from it but the laptop cannot access the files on the Windows ME computer. When I do a search of computers on the laptop, the ME computer shows up but when I click on it the message is "network path not found." The same is true if I try to map a network drive. The ME computer has successfully mapped a network drive to the laptop and even when it doesn't show up under My Network Places, it can connect through the mapping. Sometimes I have to click on it two or three times, but it always connects. The laptop is able to access the Internet through the network but it cannot access the network printers. Any ideas?

Re: Networking

Message #2 Posted by [Julián Miranda \(Spain\)](#) on 20 Dec 2002, 5:37 a.m.,
in response to message #1 by Kurt Darling

I have to say first I don't run Windows ME on any of my computers but I can suppose it will behave similar to Windows 98. I have a small network and when I installed it there was one computer running Windows NT 4 and another running Windows 98. When NT 4 was updated to Windows 2000 the computer running Windows 98 was "isolated" it didn't find anything in the net, the one running Windows 2000 had no problem. What I did was reinstall the network in Windows 98. From the network properties I deleted the network adapter, when Windows 98 rebooted found new hardware, configure it as it was before and everything was running. I repeat this happend between Windows 2000 and 98, perhaps someone has experience with ME.

Possibly better choices for "Networking" Q's

*Message #3 Posted by [Glen Kilpatrick](#) on 21 Dec 2002, 6:16 p.m.,
in response to message #2 by Julián Miranda (Spain)*

Alas, none of my calculators run ethernet (it would sure speed up file transfers). You might find it more useful to take these sorts of questions to the (free, official) HP Forums (where calculators are practically a forgotten topic, not enough profit margin any more).

To do so, go to <http://itrc.hp.com/>, select "Forums" on the left menu, then down the center, choose "-> Microsoft" (<http://forums.itrc.hp.com/cm/FamilyHome/1,,116,00.html>), wherein you'll find subsets for Windows 2000, Windows 95/98/ME, and many, many other things. The only "catch" to use of the Forum is that you'll have to create a (free) login, and then HP will occasionally send you junk, I mean unsolicited, email (that's my case, anyway).

In the limited subsets of the HP Forums that I understand, answers seem to follow questions with frightening speed :), and especially so for HP equipment; so it's the best freebie I can recommend.

Another possibility is Google. My search on ["network neighborhood" "network path not found"] (or <http://www.google.com/search?sourceid=navclient&ie=UTF-8&oe=UTF-8&q=%22network+neighborhood%22+%22network+path+not+found%22> if you want) produced "about 144 hits", but as this isn't my area of expertise, I'm out of my depth in telling you I can spot The Answer somewhere in there.

Just my 0.0200_\$ worth.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Any update on the HP-41C "ram module" project?

Message #1 Posted by [Gene](#) on 19 Dec 2002, 5:54 p.m.

A few weeks/months ago, this was all the rage here.

Someone was working on a prototype for a ram module plug in for the HP-41C (either module or card reader size).

Any update? Any news?

Re: Any update on the HP-41C "ram module" project?

Message #2 Posted by [Meindert Kuipers](#) on 23 Dec 2002, 3:11 p.m.,
in response to message #1 by Gene

I guess you are referring to my project. There is certainly progress, and I will try to make a more detailed update later. The status now is: - new specifications are ready, will post them in a week or so on my website - simulations are getting along just fine, I am adding functionality to make a full functional MLDL - I have the Xilinx CPLD prototyping board on my desk - I have bought a second hand scope/logic analyzer to do hardware debugging - I am struggling with a few features, will ask questions to the forum in a week or so

Merry Christmas

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Wow. Only \$279 buy-it-now on ebay.

Message #1 Posted by [gene](#) on 19 Dec 2002, 3:41 p.m.

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1946531180>

I know HP-32SII calculators have been discontinued, but this seems a little much.

:-) Gene

Re: Wow. Only \$279 buy-it-now on ebay.

Message #2 Posted by [Don Davis](#) on 19 Dec 2002, 5:38 p.m.,
in response to message #1 by gene

I guess it's a good deal for the person who was just about to pay \$300 at Samson Cables! I guess I don't understand the great attraction of the 32SII when an excellent 42S could be had for the same price.

Don

Re: Wow. Only \$279 buy-it-now on ebay.

Message #3 Posted by [lowracer](#) on 19 Dec 2002, 7:59 p.m.,
in response to message #2 by Don Davis

I've always called the "buy-it-now" price the "bend-over now" price... Sometimes you get a good deal this way, often times you don't.

Re: Wow. Only \$279 buy-it-now on ebay.

*Message #4 Posted by [barry](#) on 24 Dec 2002, 1:31 p.m.,
in response to message #3 by lowracer*

many people scan new incoming EBAY auctions, and make lucrative deals by purchasing "buy-it-now", mainly from persons not knowing how valuable an item might be.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Abacus calculators - Dave: A new link?

Message #1 Posted by [Tom \(UK\)](#) on 19 Dec 2002, 12:54 p.m.

I did a search for the ABACUS electronic calculators but found this web site:

<http://www.ee.ryerson.ca:8080/~elf/abacus/>

The scanned abacus manual is nice - I can see where HP might of got some ideas for making their manuals comprehensive! See:

<http://www.ee.ryerson.ca:8080/~elf/abacus/leeabacus/>

I now see how lucky we are to have been given the legacy of the HP35 for pocketable 10+ digit calculators that require only a little knowledge from the operator.

For an amusing story about Richard Feynman getting lucky look at:

<http://www.ee.ryerson.ca:8080/~elf/abacus/feynman.html>

Re: Abacus calculators - Dave: A new link?

Message #2 Posted by [Larry Corrado](#) on 19 Dec 2002, 9:27 p.m.,
in response to message #1 by Tom (UK)

I don't know if this is significant, but the manual for the Lee abacus described in the second URL

<http://www.ee.ryerson.ca:8080/~elf/abacus/leeabacus/>

mentions the "red dot" several times. (see, eg, p.2, bottom paragraph.) Did HP back in the early 70s think that their new handheld should have a red dot?

Larry

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP41-PC Gateway & Emulator

Message #1 Posted by [Christoph Klug](#) on 19 Dec 2002, 4:52 a.m.

May be the HP-Museum forum readers and the world of HP41 enthusiasts do not realise the actual news about HP41 and about interfacing the handheld to PC world : Jump below to the interesting forum message from Jean-Francois Garnier about “EMU41, a complete HP-IL system emulator” !

There you will find a link to the new EMU41 web page from Jean-Francois which gives you much details including some HP41 software routines for up/download of data, any type of files, NNN's to/from PC world. Furthermore nice solutions exist for creating multi-column program prints and fast HP41 Barcode plots....

More details about EMU41 you also will find on www.hpcc.org web page : Follow the link to HP41 / HP41 Hardware Activities and Interfacing / HP41-PC Gateway & Emulator.

But now realise the surprising news about the worlds leading HP41 emulator solution – which includes the most advanced features of the real HP41, including plug in modules like CCD, HEPAX, and RAM-BOX.

Discover some new virtual IL-Devices like Video Screen, Printer, Floppy Disk Drive, Hard Disk Drive and DosLink (a powerful gateway to the PC world). Control this virtual IL-Devices with EMU41 or alternatively with your real HP41 handheld.

Furthermore EMU41 is able to control your real IL-Devices, for example reading measurement samples from the HP3468 IL-Digital Multimeter, or outputting data to the HP7470 IL-Plotter. Also the data and program exchange between HP41 and EMU41 now is absolutely easy by using the virtual Hard Disk Drive.

Owners of the HP82973 HP-IL/PC Interface Card now have the chance to replace their existing LINK PLUS or TRANS41 software packages by EMU41, because this acts as “all in one solution” and includes nice gateway and advanced emulator features.

For HP41 enthusiasts who want to start with HP41-PC interfacing, now the second generation rebuilt

HP-IL/PC Interface Card is available....

Best wishes from Germany - Christoph

Re: HP41-PC Gateway & Emulator: Updated interfaces?

Message #2 Posted by [Michael Tjebben](#) on 19 Dec 2002, 4:49 p.m.,
in response to message #1 by Christoph Klug

This is exciting news, Christoph!

At the risk of "asking for too much," I'm curious: Have you updated the interface to the board in such a way that it could be used with a laptop? That is, could a USB or Firewire port someday be used to access the HP-IL?

It would be really nice to take advantage of the original intention of the loop: to allow a low-power interfacing of portable, battery-powered devices.

Best wishes to you and Jean-Francois Garnier!

-Michael

Answered my own question: Just ISA right now.

Message #3 Posted by [Michael Tjebben](#) on 19 Dec 2002, 5:54 p.m.,
in response to message #2 by Michael Tjebben

Hi again, Christoph:

In further perusing, I found your comments elsewhere about the hpcc.org page and followed the links to the HP41 and HP41 Hardware Activities and Interfacing, # HP-41 - PC Gateway & Emulator where it explained that only the ISA bus card is available right now. I still think it'd be great to have a way to connect a modern laptop to the loop.

Thanks!

-Mike

Re: HP41-PC Gateway & Emulator

Message #4 Posted by [Christoph Klug](#) on 20 Dec 2002, 9:58 a.m.,
in response to message #1 by Christoph Klug

Dear Michael,

remember, the HP-IL/PC Interface card is the long time and actual defacto standard solution for HP41-PC interface applications (beside the IL-RS232 Converter).

Because the number of handheldcomputer enthusiasts working active with this nice applications is limited, there would be no alternative or more modern solution also for future times :
Developing hardware and software for this exotic application needs to much capacity.

But the general problem about adapting ISA-Bus cards to modern PC systems exist for much other professional and industrial applications, because for some exotic ISA Cards exist no replacement hardware.

For solving this, different special solutions exist, for example modern industrial motherboards which assist again some ISA slots, or ISA-Bus expansion boards, or an USB-ISA converter (for this refer to www.pci-card.com / USB to ISA Bus Converter). But all this possible solutions have high prices, no problem for industrial processes, but a great problem for private HP41 enthusiasts.

Therefore follow the practically idea from Jean-Francois and reactivat an old PC machine, you may have avaiable from former times or get for only low costs from second hand market...

Best wishes - Christoph

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

replace hp48(gx) LCD

Message #1 Posted by [Isaac Daniel](#) on 19 Dec 2002, 12:19 a.m.

Hello,

Acidently, I have broken my HP 48 LCD display, and now, hp suport tells me that they don't give suport anymore due to the fusion HP-Compaq comercial politics, excepts for models whit garanty. Does anyone knows were can I found a place that sells LCD displays to the HP 48, and if is possible to change the old broken to a new one. Thank you,

Isaac Daniel

Re: replace hp48(gx) LCD

Message #2 Posted by [Paul Brogger](#) on 19 Dec 2002, 11:38 a.m.,
in response to message #1 by Isaac Daniel

It should be possible to replace the display -- there are any number of web sites offering descriptions of how to take apart the calculator case without external cosmetic damage. ([One excellent example.](#)) Most of these directions concern memory upgrades, however, and don't detail the process of removing & replacing the display.

I've performed a couple of HP-48 memory upgrades myself, and dismantling & reassembly of the case *can* be done. I've never replaced a 48-series display, though I suspect the process is a lot like what I encountered when fixing Pioneer models. (See the "[Pioneer Repairs](#)" article under "Repairs & Batteries".) Though, of course, with a bigger piece of glass, everything will be more difficult, delicate and breakage-prone.

I doubt you'll find a place that supplies the display as a separate component. The best option is probably to find a good HP-48, perhaps on eBay, and use its display. (Maybe someone will sell one that isn't working, but which has a usable display.) In fact, maybe you would want to take your HP-48G circuit board & case back, and put those in a cosmetically sound 48. (That way, you wouldn't risk damage in removing the display from the case front -- a tricky operation on a Pioneer and, I suspect, all the more so on a 48.)

(Maybe someone with more experience in HP-48 repairs would like to add &/or correct things?)

Good luck!.

Re: replace hp48(gx) LCD

Message #3 Posted by [David Smith](#) on 19 Dec 2002, 1:29 p.m.,
in response to message #1 by Isaac Daniel

I think that all things considered you would be better off finding another machine. I have seen nice 48GX's sell for around \$75 on Ebay. I paid \$10 for mine because of some easily fixed corrosion in the battery bay.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: HP-48 series

Message #1 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 18 Dec 2002, 9:28 p.m.

Hi, Michel;

lets go:

48S/SX - scientific expandable graphics calculators; 48SX launched first with PCM-CIA slots (up to 1MBYTES RAM or 4MBYTES with switching banks); 48S launched a bit later, without PCM-CIA slots; both with 32KBRAM, RS232, Kermit and IR I/O capabilities; interface based in RPL, sort of RPN (like the HP41) with multilevel, numbered stack; programming language is like FORTH+LISP recursive; algebraic capabilities with many manipulating resources, like derivatives; may be seen as a "fusion" of the best of two words: HP41 and HP28

48G/GX/G+ - expanded graphics version of the S series (3D plotting and more), all resources above and a few differences: G - 32KBytes RAM G+ - 128KBytes RAM GX - 128KBytes RAM and PCM-CIA slots

There are many other features, these ones I know by heart.

HP49G - I am not aware of these two models, except for the fact the first series had a sort of HW bug with the I/O port; these calculators have FLASH ROM (1MBytes) so you can update the O.S.; also they have user FLASH-ROM (1 MBytes) and user RAM (2 banks with 256KBytes)

If you need more, post again. There are pages (I do not know the links) in the Internet with more info; surely someone will post them here.

Lost contact; read the PDF I sent you?

Best regards.

Re: HP-48 series

Message #2 Posted by [Michel Beaulieu](#) on 18 Dec 2002, 9:39 p.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

Great PDF, thanks! where can i find the HP-41 font like yours? ;-)

Re: HP-48 series

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 18 Dec 2002, 11:08 p.m.,
in response to message #2 by Michel Beaulieu

Hi;

I created those fonts. Look [here](#) and download them. Tehy are free for use anywhere. My US \$0,25 for the community...

About the HP4X series: as I have more info or references, I'm sending you. Were those enough to tease you?

Cheers.

Re: HP-48 series

Message #4 Posted by [Holger](#) on 19 Dec 2002, 3:59 a.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

Hello Luiz,

are you sure that the expansion port of the HP48*X is really a PCMCIA slot? So can I use standard PCMCIA-Ramcards in it? I always thought the HP48 needs special (expensive) RAM-cards.

Since the LX series also use PCMCIA it might be possible... I could have saved a lot of money if I knew that before.

Holger

Re: HP-48 series - Oops!

*Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 19 Dec 2002, 8:53 a.m.,
in response to message #4 by Holger*

You're right.

The HP48SX and GX slot is PCM-CIA "like", not logically compatible. You cannot use a modem, net or other brand's RAM card in an HP48SX or GX.

Also, the 1MBytes up to 4MBytes RAM is a maximum for the GX series. The SX series address a smaller amount of memory.

Sorry. My fault.

Re: HP-48 series - Oops!

*Message #6 Posted by [Raymond Hellstern](#) on 19 Dec 2002, 9:00 a.m.,
in response to message #5 by Vieira, Luiz C. (Brazil)*

Hi,

AFAIK a former standard which the SX/GX cards comply to is JEIDA.

There were other machines using such or similar cards, like the Atari Portfolio.

Raymond

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Not RPN or HP, but interesting.

Message #1 Posted by [Don Davis](#) on 18 Dec 2002, 7:40 p.m.

I have seen Aurora calculators at discount stores and supermarkets for years. They are typically very cheaply made, 4 functions plus percent, and sold at a low end price - lower than a cheap TI or Casio.

In a California electronics store, I saw an Aurora scientific calculator, model SC150X. Since it was only \$5.99, I decided to pick one up just to see what they offered. First, it is a very small clamshell design - smaller than any scientific calculator I have seen in current production. (I do have an old credit card sized solar calc, but they are out of production.) The plastic feels like the cheapest material known to mankind, so I cannot imagine that this would hold up to any sort of rough treatment.

However, the features are remarkably good. It has the trig functions and their inverses. It also has logs (natural and base 10), and their corresponding exponentials. Of course, there is an x^2 and a square root key. There is also a y^x and even a cube root key. Interestingly, the cube root key does allow correct computation of the cube root of negative numbers - I have seen others which do not. It has single variable statistics, polar to rectangular conversions, factorial (integer only), degrees to degrees-minutes-seconds, and a random number generator. It also operates in hex, binary, and octal in addition to decimal.

Now, it's a bit confusing to use (to me) because it is algebraic and operation of $R \leftrightarrow P$ and similar things are not intuitive in that system, but . . . overall, I am pretty impressed. For \$5.99 in a size and weight that can truly disappear in a shirt pocket, it's pretty impressive.

Now, back to HP - where did I put my 42S??

Don

Re: Not RPN or HP, but interesting.

Message #2 Posted by [Bill Wiese](#) on 18 Dec 2002, 9:40 p.m.,
in response to message #1 by Don Davis

Don...

I have seen these around. Not bad for \$5-\$6. Keyboard layout seems similar to Tozai ATC828 which is based on a Toshiba calc chip, IIRC. (you can see <http://www.calcinfo.com> and do a 'forensic test' of numeric processing to identify what chip/calc you have.)

The smallest sci calc currently on the market is prob the TI-25X. Think of a TI-30 (with 5x8 keyboard) shrunk down to a-tad-larger-than-credit-card size.

In the early 80s Casio made the FX-28 (48?) [landscape KB orientation] and FX-68 (portrait orientation) credit card sci calcs.

Bill Wiese San Jose, CA

Re: Not RPN or HP, but interesting.

Message #3 Posted by [Don Davis](#) on 18 Dec 2002, 9:49 p.m.,
in response to message #2 by Bill Wiese

The credit-card sized scientific calculator which I have is a Radio Shack EC-4009, which is a re-branded Casio - probably the FX-28 you mentioned. RPN would make it better, but I would buy another if these were still made. It's nice to have a scientific which is so small. I used to carry it in my organizer all the time.

Re: Not RPN or HP, but interesting.

Message #4 Posted by [Michel Beaulieu](#) on 18 Dec 2002, 10:05 p.m.,
in response to message #1 by Don Davis

I found your calculator on the net with the part number you gave : it's a gift for customers who buy for 50\$!! :

<http://www.math-software.com/gift.html>

I bought an AUREX SC-109P for 10\$ at wal mart: it have 20 physical constants, 28 memories, 38 built in function, logical operation, hex-dec-oct-bin, Dot matrix LCD, 2 lines diaplay etc, etc plus guest what a 100 steps keystrokes programmable calculator. This package in 1970's cost

100 times more!!!

Why our more important manufacturer like HP, TI, sharp or casio don't manufacture programmable calculator except graphing one? I'm sure it just cost a few \$ more to get a calculator be programmable, even less than 1\$ per unit. Why not copying the HP41 with modern parts and sell them for 20\$ - just copy the ROM and put it in a Aurex or Aurora?

Re: Not RPN or HP, but interesting.

*Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 18 Dec 2002, 11:48 p.m.,
in response to message #4 by Michel Beaulieu*

Hi;

wouldn't the SW copyright rise the price too much?

Just a question.

(I'd like to see an HP41CX with the advantage module and a RAM bank...)

Re: Not RPN or HP, but interesting.

*Message #6 Posted by [John \(Norway\)](#) on 19 Dec 2002, 9:59 a.m.,
in response to message #1 by Don Davis*

I picked up an 'ABACUS 268' calculator that sells for \$7. Although non-programmable and non-RPN, it has a wealth of functions, incl. e.g. statistics, binaries, ln and log, hypertrig and complexes. I'm very much into complexes on my 48SX, but I can't figure out how it works on this one - I've tried and tried, nothing significant happens... (The instructions are for the birds. They only say that CPLX is used for complex numbers!) If any of you have this 'ABACUS 268' and have figured out the CPLX function, please let me know! BTW it is so small and slim that it practically disappears in my shirt pocket. Seems to be fairly well made too.

Re: Not RPN or HP, but interesting.

*Message #7 Posted by [Barry Schwartz](#) on 19 Dec 2002, 3:29 p.m.,
in response to message #6 by John (Norway)*

I believe I may have the cheapest scientific calculator yet. I paid \$1.49 for what appears to be a Chinese copy of the Sharp EL-506. It even says EL-506P on the front. It includes all of the usual scientific functions: trig including hyperbolic; logs; coordinate conversions; floating and engineering notation; complex numbers; random numbers; binary, octal, hex and decimal numbers; statistics; degrees, radians and grad modes; memory safeguard (turn the power off and the memory register retains its contents), etc. It displays up to 10 digits in normal format and 8 digits with a 2 digit exponent. It even came with a Operation Manual and a thin plastic folding case. It works quite well although it does not compare to my HP15C.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Bug in 21, 25 - y raised to the x

Message #1 Posted by [Don Davis](#) on 18 Dec 2002, 4:44 p.m.

I came across an interesting bug when playing around with an HP-21 I recently acquired. If I try to square a negative number using the "y raised to the x" key, I get an error message. The same is true on the HP-25 I tried, although using the x^2 key works fine.

I am sure this is probably well-known to HP enthusiasts in this group, but I did not find documentation of it when I searched. Does anyone know more about this bug - i.e., when it was corrected? My 34C handles the calculation just fine. I think the 29C does also, although I cannot verify that at the moment.

best regards, Don

Re: Bug in 21, 25 - y raised to the x

Message #2 Posted by [Ernie Malaga](#) on 18 Dec 2002, 5:05 p.m.,
in response to message #1 by Don Davis

Don:

This "bug" is present in the oldest HP calculators. I suppose it's due to the fact that powers were calculated by way of logarithms, and you can't apply the LN function to a negative number. More modern calculators circumvent this problem by analyzing both numbers, and work the sign of the result based on that. If I'm not mistaken, the HP-67/97 were the first calculators to be able to raise negative numbers to whole powers.

By the same token, the oldest machines allowed you to CHS the number zero, and I think I read somewhere that the HP-35 gave an error message if you tried to calculate the square root of -0. More modern calculators don't change the sign of zero no matter how many times you press CHS.

Ain't life innerestin'?

-Ernie

Re: Bug in 21, 25 - y raised to the x

Message #3 Posted by [Raymond Hellstern \(Germany\)](#) on 18 Dec 2002, 6:04 p.m.,
in response to message #2 by Ernie Malaga

Hi,

I think the low end TI's still can't calculate powers with negative exponents...

Raymond

Re: Bug in 21, 25 - y raised to the x

Message #4 Posted by [Michel Beaulieu](#) on 18 Dec 2002, 8:37 p.m.,
in response to message #3 by Raymond Hellstern (Germany)

no, it's with negative base they have problems... :-)

I would not call it a bug...

Message #5 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 20 Dec 2002, 5:44 p.m.,
in response to message #1 by Don Davis

Certainly y^x was calculated using logarithms, and negative base was not allowed. I think it was around the HP67 time when the internal routines were improved to accept integer powers for negative bases. It was a nice improvement but not more than a sophistication handled before (with no complaints) by the users ...

It works fine on the 29C

Message #6 Posted by [Harry \(Germany\)](#) on 24 Dec 2002, 8:36 p.m.,
in response to message #1 by Don Davis

Just checked it.

Regards, Harry

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Batteries for HP 15C calculator

Message #1 Posted by [Bent](#) on 18 Dec 2002, 5:58 a.m.

I have a HP 15C calculator. But without the 3 micro batteries. Can anybody help with the type ??

Re: Batteries for HP 15C calculator

Message #2 Posted by [JasonG](#) on 18 Dec 2002, 7:27 a.m.,
in response to message #1 by Bent

Hi there,

what you need is a set of SR44, silver oxide, cells. They are available all over the place but, unfortunately, come with a wide range of type numbers...have a look at <http://www.hpmuseum.org/collect.htm#dispbatt> for a bit more information about equivalent types.

The lithium types listed will also work but will not last as long as the silver oxide types.

Regards, and happy hunting...

JasonG

Re: Batteries for HP 15C calculator

Message #3 Posted by [Barry Schwartz](#) on 18 Dec 2002, 3:38 p.m.,
in response to message #1 by Bent

According to the HP15C Manual, the following batteries are recommended:

Alkaline: Eveready A76 UCAR A76 RAY-O-VAC RW82 National or Panasonic LR44 Varta 4276

Silver-Oxide: Eveready 357 UCAR 357 RAY-O-VAC RS76 or RW42 Duracell MS76 or 10L14 Varta 541

Re: Batteries for HP 15C calculator

Message #4 Posted by [Randy](#) on 18 Dec 2002, 10:05 p.m.,
in response to message #1 by Bent

I usually look for everedy 357, then get something compatable to it at radio shack.

Randy

Radio Shack Batteries for Voyager & Pioneer

Message #5 Posted by [Karl Schneider](#) on 19 Dec 2002, 4:28 a.m.,
in response to message #4 by Randy

Just yesterday, I bought three German-made, sealed silver oxide #76 cells at Radio Shack for a Voyager calc. P/N is 23-009; price was \$2.99 each. They didn't seem to have the cheaper alkaline type.

Re: Radio Shack Batteries for Voyager & Pioneer

Message #6 Posted by [David Smith](#) on 19 Dec 2002, 1:34 p.m.,
in response to message #5 by Karl Schneider

Yikes! If you can find them the Vinnic brand of batteries is very inexpensive and actually work rather well. A card of 10 cells sells for \$2.50-\$3.00. They show up on Ebay quite regularly.

Re: Radio Shack Batteries for Voyager & Pioneer

Message #7 Posted by [OJM](#) on 20 Dec 2002, 8:02 a.m.,
in response to message #6 by David Smith

I have also used the Vinnic batteries, and they have worked well for me - a good value at that price. If you can't find them, you can still save a few bucks at Radio Shack by finding and purchasing a 6 volt camera/photo battery they carry by the Radio Shack catalog number 23-469. It's a Duracell alkaline photo battery, and it's listed as being equivalent to a PX28AB, A544, and 4LR44 types. The "4LR44" gives a clue about it's insides, because if you then pry off its outer shell, you'll find that it's just a stack of four LR44 cells, three of which will work just fine in the Voyager calc. At \$3.79, that's less than a buck a cell, a lot cheaper than buying the cells individually at Radio Shack. Just make sure to buy the alkaline version of this battery, as there is also a lithium equivalent out there that won't work.

Re: Radio Shack Batteries for Voyager & Pioneer

*Message #8 Posted by [Math Geek](#) on 20 Dec 2002, 10:30 p.m.,
in response to message #6 by David Smith*

Indeed, there is no need to overspend. But even at 2.99 per, that's still only about \$0.60/year of go-juice.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

hp41 howto do simple linear regression?

Message #1 Posted by [David E](#) on 17 Dec 2002, 7:17 p.m.

HI. I have the stat pac for hp41, and neither of the linear regressions sets seems to do what I need. I need something that I can input my data (x and y) and from that get R, slope, and y (y=mx+b). Thanks for any guidance .

Re: hp41 howto do simple linear regression?

Message #2 Posted by [Dave Shaffer](#) on 17 Dec 2002, 8:02 p.m.,
in response to message #1 by David E

Well, David, you can always do it the semi-hard way - with just the '41 itself.

If you use the sigma+ button (top left on the keypad)(after clearing the summation registers using the CLSigma button - shift x<>y key, just below the sigma+ key), you can accumulate the sums of x, x^2, y, y^2, and xy in memory registers 11 through 15 respectively, while register 16 will get the value of n (the number of x,y pairs). To put in your numbers, enter y first, then "ENTER", and then enter your x value - then hit the sigma+ key.

After you have entered all you pairs of values, you need to remember (or be told - or, left as an exercise for the student, derive!) the least-squares fitting expressions for slope, intercept, and correlation coefficient. In case you are rusty:

the slope is $(n \cdot \text{SUM}xy - \text{SUM}x \cdot \text{Sum}y) / (n \cdot \text{SUM}x^2 - (\text{Sum}x)^2)$

the intercept has the numerator $\text{SUM}y \cdot \text{SUM}x^2 - \text{SUM}xy \cdot \text{SUM}x$ (with the same denominator as for the slope)

r is $(n \cdot \text{SUM}XY - \text{SUM}x \cdot \text{SUM}y) / (\text{SQRT}(n \cdot \text{SUM}x^2 - (\text{SUM}x)^2) * \text{SQRT}(n \cdot \text{SUM}y^2 - (\text{SUM}y)^2))$

I hope my notation is clear. SUMx means the summation of x, and (SUMx)^2 means to square this sum (whereas SUMx^2 means the summation of x-squared).

Have fun.

Re: hp41 howto do simple linear regression?

Message #3 Posted by [David](#) on 17 Dec 2002, 9:45 p.m.,
in response to message #2 by Dave Shaffer

Boy, that scares me just looking at it. lol. maybe i will try to write a prog for that.

thanks

Re: hp41 howto do simple linear regression?

Message #4 Posted by [Mike \(Stgt\)](#) on 18 Dec 2002, 10:07 a.m.,
in response to message #3 by David

Citation from Dave's append: "After you have entered all you pairs of values, you need to remember (or be told - or, left as an exercise for the student, derive!) the least-squares fitting expressions for slope, intercept, and correlation coefficient."

To ease the exercise for the student just take the values of X as free of error. My little (basic) routine is based on this assumption. Next step in students exercise would be to take Y values for true and the fault is in X :-)

And if you have some time and piles of paper left, just take X as faulty as Y ;-)

Ciao.....Mike

Re: hp41 howto do simple linear regression?

Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 17 Dec 2002, 9:40 p.m.,
in response to message #1 by David E

Hi;

Dave Shaffer's post contains ALL information you need, but you can do it in the "easy way" by using the STAT pack programs.

Get your Stat Pack manual and open it on page 32, under "Curve Fitting". On page 33, top left, you'll see your $Y = a + bX$ expression. Now go to page 34 and you'll see that you should [XEQ] [SIGMA]LIN program for a straight line sample (or any of the other three: LOG, EXP or POW), being [SIGMA] the summation symbol. You should enter each pair in the REVERSED orther (why do some applications are against Y and X registers?), say:

X [ENTER^] Y [A]

for each pair; to correct any mistakes:

X [ENTER^] Y [C]

After the last (x,y) pair, simply press [E] and you'll have:

R2 = (corr. coef.) [R/S]

a = (intercept) [R/S]

b = (slope)

Hope this is waht you want. BUT if you really want to know the mechanics, read D. Shaffer's post. It is complete reference.

Success.

Re: hp42s how to operate it, do simple math

*Message #6 Posted by [Kenneth](#) on 17 Dec 2002, 11:10 p.m.,
in response to message #5 by Vieira, Luiz C. (Brazil)*

hi i'm trying to operate my 42s rpn scietific and i can't do a simple problem with it, i don't have a manual or instructions on how to operate it can you help me?

Re: hp42s how to operate it, do simple math

*Message #7 Posted by [Richard Garner](#) on 18 Dec 2002, 1:32 p.m.,
in response to message #6 by Kenneth*

Here is a quick primer

4+5=9

4 Enter 5 +

(4+5)x10=90

4 Enter 5 + 10 x

(4+5)/3=3

4 Enter 5 + 3 /

I hope this helps. Depending on how the numbers are set in the stack, you can load the stack with you numbers and the perform the operations all at once.

As in

$$(4 \times 5) + 7 = 27$$

7 Enter 5 Enter 4 x +

Have fun.

Re: hp42s how to operate it, do simple math - a light hearted response

*Message #8 Posted by [Tom \(UK\)](#) on 19 Dec 2002, 1:02 p.m.,
in response to message #6 by Kenneth*

The HP42S is a tricky beast to master, and much harder without the manual.

Best thing to do is pop it in the post to me and I'll return a much easier to use calculator in exchange... how about a Casio FX580?

But seriously: The HP42S is a nice tool, once you have mastered it (doesn't take long) you will wonder how you got along without it.

To start using it this site has a brief introduction on RPN.

To get a manual buy the DVD/CD's from this web site, it will be well worth it in the long run.

Re: hp41 howto do simple linear regression?

Message #9 Posted by [Mike \(Stgt\)](#) on 18 Dec 2002, 7:34 a.m.,
in response to message #1 by David E

I just did an 'edit/copy-edit/paste' from my emulator on the IBM-host, so the § stands for Sigma:

```
01 • LBL "§"  
02 §REG 10  
03 CL§  
04 MEAN  
05 X<>Y  
06 RCL 10  
07 ST* Z  
08 *  
09 RCL 14  
10 -  
11 X<>Y  
12 RCL 11  
13 -  
14 /  
15 STO 04  
16 MEAN  
17 LASTX  
18 *  
19 -  
20 STO 05  
21 RCL 04  
22 STOP  
23 SDEV  
24 RCL 04  
25 *  
26 X<>Y  
27 /  
28 END
```

That's the minimum code, to make life easier just use the Alpha capabilities of the HP-41 and add some literals and prompts.

Ciao.....Mike

Re: hp41 howto do simple linear regression?

Message #10 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 18 Dec 2002, 9:02 a.m.,
in response to message #9 by Mike (Stgt)

Hi;

I did not load the program and run it, but I am curious about one sequence: CL§ and MEAN. How can you compute MEAN if CL§ clears all statistic data?

As you change the §REGS to R10 instead of original R16 and you execute CL§, I thought you created a buffer to compute partial data and return to §REG 16 before using MEAN. But right after that you clear statistic data and execute MEAN with all registers down to zero.

Is that what you want? Did I miss something?

If I am wrong, sorry. I just want to understand.

Cheers.

Re: hp41 howto do simple linear regression?

Message #11 Posted by [Mike \(Stgt\)](#) on 18 Dec 2002, 9:44 a.m.,
in response to message #10 by Vieira, Luiz C. (Brazil)

No, you did not miss something. I gave no clear explanation. This is my LinReg prgm that fits in every HP-41, independent what other BIG routines use up all memory.

There are no literals and no prompts to ease the user input and result output. After line 03 you may add the two lines "Y enter X §+" PROMPT. Without it you just see DATA ERROR and must know that this is the point to enter data.

Ciao.....Mike

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

11C - Creative Advertizing on eBay

Message #1 Posted by [Joe](#) on 17 Dec 2002, 9:15 a.m.

Watch this auction. It was advertized before. The seller just recently bought it and then found out it had mushy keys. In his first auction, he mentioned the mushy keys. He also mentions that it does not include a manual.

[His auction with mushy keys](#)

It did not sell because he mentioned that it had mushy keys ("softened from use") and was overpriced as it didn't have a manual. So, he relisted the item and removed the notice about mushy keys and left out that it did not have a manual.

[11C leaves out mushy keys and the fact there is no manual](#)

You will also notice that he has recent negatives. These are the kind of people to stay away from. It appears is using deceptive advertizing to sell something defective.

I wonder how many will see his previous auction and see it as deceptive and retract their bid.

Re: 11C - Creative Advertizing on eBay

Message #2 Posted by [Larry Peluso](#) on 17 Dec 2002, 4:06 p.m.,
in response to message #1 by Joe

Hi. I am the seller of this item. A friend who specializes in selling HP's informed me about this notice. Here is a copy of an email response I just sent to describe the calculator to someone who wants to buy it but saw this ad. The calculator, by the way, looks like a nearly new 11c, with no wear whatsoever on the logo, and works perfectly.

"It's kind of true, but not flattering. I bought this calculator and the photo looked like it was dirty. I emailed the seller and asked, and she emailed to tell me the grime was an illusion; just the photo. It wasn't. The keyboard was dirty. She lied to me. I bought a more expensive 15c to use. I also used electronic cleaner and spent an hour carefully cleaning the calculator. It really

does look like a new 11c. It has one very slight scratch on the front and no wear on the emblem. It looks great. The keys on ALL HP 11c's and 15c's are not as punchy as a modern 48 or 49, and they ALL soften with age. My ad was just too honest. All of the keys make a distinct click, which is what you want, except the enter key (which gets the most use) which does not click very loud. But everything works perfectly. It's a good machine, in my view. The keys definitely work better after I cleaned it and I have used it for homework a bit. It looked like someone left it out of the case on a desk all the time and the keyboard got dirty. That may also be why the logo is unworn. Anyway, it looks excellent and the keys work well and better after I cleaned it. I will accept what I paid for it: \$140. There is no manual. These go for about \$190 to \$275 with a manual. This one looks FAR better than 11c's I have seen sell for \$160. That enter key just doesn't make a distinct click. That may or may not matter to you. Thanks for writing. Any other questions, feel free to write or call."

I tried to be a nice guy. I cleaned up the dirty calculator to resell (after I had bought another anyway). I am a lawyer and don't need to litigate a case over \$100. But later I thought that the seller I bought from should not have lied to me. That was really wrong. But after I cleaned the machine, it really does look like new. I think she may be an older person (runs an antique shop) and may not have had good vision. I do not know. I try to think the best about people.

By the way, we should avoid jumping to conclusions about people from a tiny bit of information and from the remarks of others. Assuming another's deception without proof and alleging dishonesty can be a civil wrong called defamation (slander, libel, or libel per se). On the other hand it is good to be careful on ebay. I don't know what negative feedback there is. Let me look. This fellow wants \$20 to ship a pen and did not list the shipping amount clearly on his selling form. I did not renig on the purchase agreement. I simply asked him about it and he flipped out. The time to buy has not even expired and he has left this feedback. I think he is a little sensitive about what he is doing. He should clearly communicate if he wants to charge \$20 to ship an item for which Priority Mail costs \$3. And I do know the law on this. And I believe I am the only one speaking who does.

Larry A. Peluso, J.D.

I believe you, Larry

*Message #3 Posted by [Glen Kilpatrick](#) on 17 Dec 2002, 5:11 p.m.,
in response to message #2 by Larry Peluso*

Larry, FWIW, I believe you. You've gone above & beyond in your attempts to be fair, and I hope that you sell this 11c. It's nice to ~see someone who isn't an eBay shark about it. Alas, it's all too easy to misunderstand & misinterpret when all one has is text.

15C vs. 11C

Message #4 Posted by [Karl Schneider](#) on 18 Dec 2002, 12:42 a.m.,
in response to message #3 by Glen Kilpatrick

Welllll...

As fate would have it, today I was comparing a co-worker's personal 1986 11C with a company-provided 15C used by another co-worker. (My employer provided 15C, 42S, 16C, and 32Sii units to the engineers in the '80s and early '90s.)

I have two 15C's, but no 11C, and I would not buy one unless I found a bargain.

While the seller (Larry) seems honest and upstanding, Joe did make several valid points, and I could add several more:

1. The item **was** overpriced at \$135 with no manual.
2. Larry **did** omit the "no manual" fact in the re-listing (although lack of a manual is evident in the picture).
3. Larry claims, dubiously, in the first listing that 15C's go for \$100 more than 11C's. (I see complete 15C packages for \$150-200 if not MIB; I won a \$137 15C package with Advanced Solutions Handbook but a cosmetically flawed unit. Might 11C's might be even more due to rarity?)
3. Larry is a lawyer, not an engineer, so he might be excused for several of the statements made in the listings:

"like 15C" in the title (See discussion below.)

"all functions of 15C except integration, imaginary numbers and matrices, which you probably don't want to do with this one line display handheld anyway." (Not quite right; the 11C also lacks SOLVE and has only 203 bytes RAM vs. 448 for the 15C. Furthermore, matrix and complex-number support is **very** useful in science and engineering; that's why HP introduced them in 1982 to the 15C when not even the flagship 41C/CV had them. SOLVE and Integrate were available on only the fine-but-obsolete 34C, and are also very useful if one does not have a PC with Matlab handy. How many even had a PC in 1982?)

"The 11C is the Engineer's favorite." (Consensus in MoHPC seems to be that the 15C, 42S, and 41CX are the favorites, and I couldn't agree more.)

Some personal anecdotes: I bought the 15C as a collegian in November 1983 fter comparing it side-by-side with a new, unsold 34C. I liked the conventional looks of the 34C, but saw that the 15C was the better product. Back in college again in 1991, we EE students were asked to solve a 3-loop AC ladder-network circuit on a test. I saw that the 15C was fully equipped to tackle the problem. The 11C was not -- it lacked sufficient memory, functions for linear algebra, and complex numbers. I'm really not sure how the other students got through that problem...

An excellent article about the development of the 15C is found in the May 1983 Hewlett-Packard Journal, scanned on Volume 4 of the MoHPC CD-ROM set. The 15C was a brilliant advancement of the 11C, with its built-in high-level functionality having an ease of use that even a much-costlier 41C with Advantage Pac ensemble couldn't match.

Re: 15C vs. 11C

*Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 18 Dec 2002, 12:54 a.m.,
in response to message #4 by Karl Schneider*

Hi;

I have two HP15C and I'm willing to rebuilt another, plus an HP11C, also one HP16C and two chinese HP12C. I cannot agree more: the HP15C is the Voyager. The most powerfull math tool at the time.

I cannot compare it to the HP16C, mostly because the 16C is almost a "two-in-one" packed calculator: a complete computer scientist tool linked to a simple six-operation (+, -, $\times$, $\div$, square-root and $1/x$) RPN floating point calculator. And it is programmable.

Anyway, I use the HP15C a lot more than the HP11C. But I take the HP11C for a walk sometimes, and I rarely dare doing the same with any of the 15's.

Cheers.

Re: 15C vs. 11C

*Message #6 Posted by [David Smith](#) on 18 Dec 2002, 4:44 p.m.,
in response to message #4 by Karl Schneider*

Actually 15C machines quite often do seem to sell in the \$100 ballpark over 11C machines. Sounds like a good time to check the guy from Germany's Ebay price history....

Re: 15C vs. 11C

*Message #7 Posted by [David Smith](#) on 18 Dec 2002, 4:48 p.m.,
in response to message #6 by David Smith*

I just found the link to the Ebay price history... in Europe the 15C seems to be bringing around \$20 more than 11C's. My experience says really nice 11C's seem to get around \$150, 15C's around \$250. Mint in box can be twice that.

Re: 15C vs. 11C

*Message #8 Posted by [Vlad Hladky](#) on 19 Dec 2002, 7:30 p.m.,
in response to message #7 by David Smith*

I'd like to know that link to e-bay price history if you don't mind. Thanks.

Re: 15C vs. 11C

*Message #9 Posted by [Holger Weihe](#) on 20 Dec 2002, 5:57 a.m.,
in response to message #8 by Vlad Hladky*

I think he relates to my site: <http://www.hweihe.de/hp/preistabelle.htm>

If there is another one, please let me know...

Holger

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

My HP 48gX drains batteries !

Message #1 Posted by [mapet](#) on 17 Dec 2002, 7:43 a.m.

Hi, After installing RAM card with MK, my HP 48gx drains batteries in one week (even if i do not use it !!!)

HELP!!!!

mapet

Re: My HP 48gX drains batteries !

Message #2 Posted by [Raymond Hellstern](#) on 17 Dec 2002, 9:41 a.m.,
in response to message #1 by mapet

It is likely that you did insert the batteries the wrong way (wrong polarity) at some time, maybe after a software crash.

If this is the case, your calc is simply trash, unless you are able (or find someone) to replace the burnt zener diode. NEVER ever put in in the batts the wrong way.

Other possibilites:

Have you checked battery drain w/o the RAM card? Maybe the card is defective.

Do you have activated alarms which perform long running tasks?

Raymond

Re: My HP 48gX drains batteries !

Message #3 Posted by [mapet](#) on 17 Dec 2002, 9:53 a.m.,
in response to message #2 by Raymond Hellstern

Actually, I did insert the batteries wrong way after the software crash. My calc crashed and I was unable to turn it on again. I tried all procedures to reset it (even a hole). Inserting the batteries the other way helped to solve the problem. But now I realized that it was stupid decision...

Re: My HP 48gX drains batteries !

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 17 Dec 2002, 10:35 a.m.,
in response to message #2 by Raymond Hellstern

Hi;

I read that a zener diode is burnt when batteries are inserted in an HP48GX with reversed polarity. I have a crashed (broken LCD, RAM donated to my HP42S+) and I'm taking a look at its components. The negative pole is the chassis, and it has three active contact points that connect the mainboard to the chassis and the negative pole. Positive pole is a tab, firmly soldered to the mainboard.

The HP41 allows batteries to be inserted in reversed order, also clamshells (HP28 and HP18/19). Voyagers and Pioneers don't, because batteries compartment is designed so they do not make contact with input connectors if they are inserted in reverse order.

I have inadvertently inserted batteries in reversed order in my 41's a couple of times without any trouble except for a MEMORY LOST. Also my HP28S suffered a blackout because of distraction. And my HP48SX was once offended by my confused orientation. I once tried to do the same in my HP15C and the last battery simply does not fit inside the batteries compartment.

They are working fine, but now I'm worried about this warning. I'd like knowing a bit more about it, because the only warning that exists in the HP48 manual is that the calculator will not turn on if batteries are inserted in reversed order, not that it will have internal circuits burnt out.

Neither any plugged-in card.

Thank you.

Zener diode

Message #5 Posted by [Raymond Hellstern](#) on 18 Dec 2002, 5:31 a.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)

Hi,

<http://www.hpcalc.org/hp48/docs/hpedia/>

keyword: Zener

There also were some discussions about this topic on comp.sys.hp48 and here in the forum a while ago.

Regards,

Raymond

Re: Zener diode

Message #6 Posted by [mapet](#) on 18 Dec 2002, 6:50 a.m.,
in response to message #5 by Raymond Hellstern

I heard that putting the calc into a fridge might help, is it a joke ?

Re: Zener diode

Message #7 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 18 Dec 2002, 8:47 a.m.,
in response to message #6 by mapet

Hi;

I never heard about it. I'd guess it's a joke, mostly because humidity may condense and cause bad connection on keyboard and other parts of the calculator. There are some specs about storage and daily use temperature ranges, but relative humidity must be taken into account.

I would not do that.

Cheers.

Re: Zener diode: location on board

*Message #8 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 18 Dec 2002, 8:54 a.m.,
in response to message #5 by Raymond Hellstern*

Hi;

there are four SMD diodes easily visible in the HP48G board, two of them are closed to the positive batt pole and the other two are in the mid left of the board, component face.

Which of them is the zenner diode? I tried to follow the copier trails but I do not know how many layers does the board have, so I thought it would be a bit waste of time. And these SMD diodes have nothing but cathode identification.

Thank you for any information.

Re: My HP 48gX drains batteries !

*Message #9 Posted by [David Smith](#) on 17 Dec 2002, 2:50 p.m.,
in response to message #1 by mapet*

Make sure that you have initialized all of the RAM card. Some of them draw lots of power continuously when they are first inserted and not initialized.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP40G ROM

Message #1 Posted by [Axel](#) on 17 Dec 2002, 4:19 a.m.

Hello,

can anybody help me in the following:

I would like to buy the HP40G. Concerning the CAS, does anybody know what ROM version of the HP49G is comparabale (or even identical) to that of the HP40G? Is there any way to check the HP40G ROM version on a real calculator (key combinations) so that I can check it on the store?

Many thanks for any help, Axel from Germany.

Re: HP40G ROM

Message #2 Posted by [Raymond Hellstern](#) on 17 Dec 2002, 7:11 a.m.,
in response to message #1 by Axel

Hi,

this should be mentioned in the manual. AFAIK these can be downloaded, look at www.hpcalc.org .

It's likely that there is only ROM version. Also note that the 40G ROM is *NOT* upgradeable.

Be sure to search google for discussions about 40G bugs...

Raymond

Re: HP40G ROM

*Message #3 Posted by [Axel Bodemann](#) on 18 Dec 2002, 4:47 p.m.,
in response to message #2 by Raymond Hellstern*

Thank you Raymond,

from comp.sys.hp48 I got a respond that the CAS ROM version might be identical with 1.19-1 of the 49G. I think the price of EU 60 will be ok compared to the EU 149 of the 49G.

Best regards Axel.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 49G Symbols stay on

Message #1 Posted by [Farshid Namiranian](#) on 16 Dec 2002, 4:34 p.m.

I did all the resetting procedures recommended (Soft and Hard). I also left the batteries out Over 90 hrs, but still to my surprise, when I replaced the batteries, the Alpha symbol, Battery Low Symbol, The calculator is busy symbol, and Data is being transferred to an external device symbol are all on. They only go off when I turn the calculator off. HP Support could not help me either. What to do now?

Re: HP 49G Symbols stay on

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 16 Dec 2002, 9:28 p.m.,
in response to message #1 by Farshid Namiranian

Hi;

I'd guess a system corrupted FLASH contents. Did you try to get in maintenance mode? I do not know it by heart, but it will allow you to completely load a new version of the O.S.

Have you already done it?

If you want help loading O.S., please let us know. My HP49G runs with one of the latest O.S. version and I'll have to recall how to do it again... Oh, yes; you'll need the connecting cable (HP49G to computer) and connection S.W.

Have all of it?

I'm waiting for your post OR an e-mail.

Success.

Re: HP 49G Symbols stay on

Message #3 Posted by [James M. Prange](#) on 16 Dec 2002, 10:06 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

In case it is a problem with corrupted operating system flash, the latest flash (AKA "ROM") and instructions for installing it are at http://etud.epita.fr:8000/~avenar_j/hp/49.html.

Another possibility might be that you have a misbehaving library installed. To check for this possibility, do an [ON]&[F4] (both keys together) to get to the "Tests" screen, then hold down the backspace key, press [Q], and release the backspace key after the reboot has finished. RightShift LIB (above the [2] key) shouldn't show any libraries in the menu now, just the ports :0:, :1:, and :2:. If this cures the annunciator problem, it's a matter of finding which library is causing the problem and purging it.

My guess is that it's a hardware problem, but it's certainly best to eliminate software problems first.

Please let us know what you find out.

Regards,
James

This is the forum...

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 16 Dec 2002, 10:49 p.m.,
in response to message #3 by James M. Prange

Hi;

That's the kind of behavior that most encourages me to post in here: fellowship.

I feel as surrounded by old fellows when I see my posts are kind and politely added with new and valuable information.

Thank you, James. I appreciate this gesture of yours.

Best regards.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Emu41, a complete HP-IL system emulator

Message #1 Posted by [J-F Garnier \(France\)](#) on 16 Dec 2002, 3:57 p.m.

Dear all,

I'm glad to announce a new version of Emu41: a HP-41C and HP-IL system emulator. Although there were already updated versions for selected people :-)) it's the first "official" upgrade since ... 1997.

This version includes new nice features like support for a lot of interesting modules, from the well-known X-function, Timer and Printer modules to much more advanced ones like Zenrom, CCD, Hepax, MLDL or RamBoxes.

But main feature is the complete HP-IL system emulation. The HP-IL emulation includes 5 internal ("virtual") devices: one display, two mass storage units (DOS image file, floppy), a printer interface (parallel port) and a DOS interface.

All this is available as freeware, like previous versions. Please look at my new home page at:

<http://membres.lycos.fr/jeffcalc> (take care of french "membres" word, not "members")

As an option, I propose an extended version with external HP-IL interface support by using the HP82973A board, or the compatible board rebuilt by Christoph Klug. With it, you can control external devices (HP9114, HP3468, ...) from Emu41, and you can also control the internal devices (display, mass storage, ...) from an external HP-41 (or any HP-IL controller).

For this version (which is targeting serious HP-41 and HP-IL users), I ask for a moderate fee (20 Euros). I hope that you will find it quite reasonable, and it will help me to continue to provide such kind of software.

I have to warn you that Emu41 is still a DOS, text mode program (although it runs well in a DOS box under Windows). The reason is that I developed Emu41 as the core of my personal HP-IL system. It runs well on my old HP Vectra 286 with HP-IL board. I know that many of you have an old 286/386/486 sleeping around, now you can turn it into a powerful HP-IL controller (41 compatible)

or into a multidevice HP-IL unit!

Kind regards from France.

Jean-Francois Garnier

Re: Emu41, a complete HP-IL system emulator

Message #2 Posted by [Christoph Klug](#) on 17 Dec 2002, 3:23 a.m.,
in response to message #1 by J-F Garnier (France)

Dear HP-41 enthusiasts,

the new EMU41 software version make available surprising features, and now EMU41 is the first emulatir which includes HP-IL. For HP-41 users who do not own a HP82973A board I make available the second rebuild HP-IL/PC Interface Card. Some details about the card and about EMU41 you will find in the comming issue of HPCC Datafile Journal and also in short time in the HP-Museum article forum. Much thank for Jean-Francois Garnier for his great work about adding virtual and real HP-IL features to EMU41.

Best wishes form Germany - Christoph Klug

Re: Emu41, a complete HP-IL system emulator

Message #3 Posted by [Mike \(Stgt\)](#) on 17 Dec 2002, 10:06 a.m.,
in response to message #1 by J-F Garnier (France)

Congratulation! Hats off! You are several steps ahead :-) (A result that I'm too occupied by my HP200LX.)

Ciao.....Mike

La prochaine fois que je suis a Olten ou Berne on se voit? Bernd Abel qui avait écrit un emulateur HP-41 pour PalmOS habit pas trop loin d'ici mais on s'a jamais vu. Il faut que les 'emul' >>s'acculent<<. M

Re: Emu41, a complete HP-IL system emulator

Message #4 Posted by [Christoph Klug](#) on 19 Dec 2002, 4:10 a.m.,
in response to message #1 by J-F Garnier (France)

More details about EMU41 you will find on www.hpcc.org web page : Follow the link to HP41 / HP41 Hardware Activities and Interfacing / HP41-PC Gateway & Emulator.

Also the new EMU41 web page from Jean-Francois (link see above) gives you much details including some HP41 software routines for up/download of data, files, NNN's to/from PC world. Furthermore solutions for multi column program prints and fast HP41 Barcode plots....

Realise : This HP41-PC Gateway & Emulator solution is the most surprising and really powerful application for the HP41 scene of last time. Use it for interfacing your handheld computer to PC, and for working with some virtual IL-Devices. EMU41 is the worlds leading HP41 emulator solution, which also gives you the advanced features of the real machine....

Best wishes from Germany - Christoph

Re: Emu41, a complete HP-IL system emulator

Message #5 Posted by [HrastProgrammer](#) on 20 Dec 2002, 1:51 a.m.,
in response to message #1 by J-F Garnier (France)

Great news! Excellent! When can we expect a Windows version of Emu41?

Best regards.

Emu41, MUCH MORE than a complete HP-IL system emulator

Message #6 Posted by [James MacPhail](#) on 22 Dec 2002, 8:35 p.m.,
in response to message #1 by J-F Garnier (France)

The latest Emu41 is a very impressive piece of work.

Using an HP-IL ISA board, Emu41 now provides "virtual IL" devices to an actual IL connection, and can control real IL devices from the emulated 41!

In my opinion, this "bridge to reality" will bring this emulator into a completely new category of usefulness.

Given this substantial improvement, I was eager to submit my 20 euros to encourage further development, and hope that many more will find the concept worth supporting.

Jean-Francois accepted my payment (about US\$21) via PayPal.

Investigate for yourself at <http://membres.lycos.fr/jeffcalc>

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

how to see what programs on a ROM (stat pac)

Message #1 Posted by [David E](#) on 16 Dec 2002, 1:59 p.m.

On a hp-41CX, I am trying see what programs are on the ROM, (i have the manual, but one of the stat programs are not working).

how can I do this? CAT 2 only shows what ROMS are available, not the programs themselves.

thanks

Re: how to see what programs on a ROM (stat pac)

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 16 Dec 2002, 3:42 p.m.,
in response to message #1 by David E

Hi;

the HP41CX's CAT 2 is slightly different.

When you execute CAT 2 in a CX, only the HEADERS appear (to speed up, you press any key except [R/S] or [ON]). When you see the header for the module you want (STAT), you press [R/S] to stop catalog, then [ENTER]. Each available function/program for the specific module is listed. If you want to go back to header listings, press [R/S] again and [ENTER].

In some situations, when you have modules with many funtions, this feature is a lot desirable.

Hope this helps.

Re: how to see what programs on a ROM (stat pac)

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 16 Dec 2002, 3:45 p.m.,
in response to message #1 by David E

Hi;

this info is at HP41CX User's Guide, V. II, p. 394.

Cheers.

Re: how to see what programs on a ROM (stat pac)

Message #4 Posted by [David E](#) on 16 Dec 2002, 3:59 p.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)

Argh... I see the function, but (Im using the math/stat mod) and am trying to run EMLRXY (linear regression), but it says nonexistent. Nonexistent? I see it there!

Am I doing something wrong. This is my first module, and the other functions seem to work ok when I XEQ them.

Re: how to see what programs on a ROM (stat pac)

Message #5 Posted by [David E](#) on 16 Dec 2002, 4:06 p.m.,
in response to message #4 by David E

Oopsa...I forgot to set size. thanks for the help.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP41 Auto off in 10 secs

Message #1 Posted by [Mark Perlick](#) on 16 Dec 2002, 12:57 p.m.

I have several HP41's, both CV and CX. One CV has a strange problem. When I turn it on, it will auto-off in 10 seconds instead of the normal 10 minutes. If I "XEQ ON" it stays on continuously. Any one seen this before?

Re: HP41 Auto off in 10 secs

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 16 Dec 2002, 1:04 p.m.,
in response to message #1 by Mark Perlick

Hi;

I have one with the same problem. Besides the fact it's a lot less power consuming, it's something tricky.

The LCD driver controls the auto-off. I traded the LCD assy with another 41CV (fullnut) with corroded keyboard and now it works great. I saved the LCD, because it's working alright except for this.

Hope this helps.

Re: HP41 Auto off in 10 secs

Message #3 Posted by [Erik Wahlin](#) on 16 Dec 2002, 1:53 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

I saw this problem once when I had a bad connection at the main cpu board.

Re: HP41 Auto off in 10 secs

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 16 Dec 2002, 3:00 p.m.,
in response to message #3 by Erik Wahlin*

Hi;

that's new info! I was not aware of this possibility.

Thank you, Erik!

Re: HP41 Auto off in 10 secs

*Message #5 Posted by [David Smith](#) on 16 Dec 2002, 5:14 p.m.,
in response to message #1 by Mark Perlick*

If I remember right there is a capacitor on the CPU board that connects to a pin on the HP41 display module. The cap determines the time out period. A bad connection between the CPU board and the display will cause the problem. Also (but not as likely) a bad cap. The HP41 service manual is on the HPMUSEUM CDROM set.

CD HP

*Message #6 Posted by [Gina D](#) on 16 Dec 2002, 6:34 p.m.,
in response to message #5 by David Smith*

On wich CD so i can print this manual?

Re: CD HP

*Message #7 Posted by [David Smith](#) on 17 Dec 2002, 2:53 p.m.,
in response to message #6 by Gina D*

I'm not sure which CD it is. I beleive it is labeled "service manuals" or some such. Also has the HP97 service manual which can also be a help with the HP67 and the woodstock machines.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

32SII: Flag11

Message #1 Posted by [R Lion](#) on 16 Dec 2002, 11:46 a.m.

Sure I'm missing something when reading the user guide: perhaps the translation into spanish is not as clear as it would be... When I try to "solve a program" with flag 11 setted, the calculator would stop and ask for the "other" variables, but it does not. I need help about it. Thanks in advance. Raul

Re: 32SII: Flag11

Message #2 Posted by [Joe Panico](#) on 16 Dec 2002, 1:56 p.m.,
in response to message #1 by R Lion

Raul,

I'm going of memory, the 32 and the 32II were different in a few areas. The PSE command on the 32 would stop execution, on the II it was a 1 second pause. Perhaps that's similar here (within the solver, if you are using different manuals). Hope this helps.

Joe

Re: 32SII: Flag11

Message #3 Posted by [R Lion](#) on 16 Dec 2002, 2:13 p.m.,
in response to message #2 by Joe Panico

Thinking in a translation problem, I've looking in the only english version I've found, but this is the 32S's guide: if I'm not wrong, the 32S does not have flag 11. I would like read what the 32SII english manual says about flag 11. Thanks, Joe Raul

Re: 32SII: Flag11

Message #4 Posted by [Ed Martin](#) on 16 Dec 2002, 10:16 p.m.,
in response to message #1 by R Lion

According to the manual for the 32SII (and this is pretty much verbatim from the manual), Flag 11 controls prompting when executing equations in a program, but does not affect automatic prompting during keyboard execution.

When Flag 11 is clear (default), evaluation, SOLVE, and integration of equations proceed without interruption. The current value of each variable in the equation is automatically recalled each time the variable is encountered. INPUT prompting is not affected.

When Flag 11 is set, each variable is prompted for when it is first encountered in the equation. A prompt for a variable occurs only once, regardless of the number of times the variable appears in the equation. When solving, no prompt occurs for the unknown; when integrating, no prompt occurs for the the variable of integration. Prompts halt execution. Pressing R/S resumes the calculation using the value for the variable you keyed in, , or the displayed (current) value of the variable if R/S is your sole response to the prompt.

Flag 11 is automatically cleared after evaluation, SOLVE, or integration of an equation in a program. The status of Flag 11 is also controlled by execution of the SF and CF operations from the keyboard, or by SF and CF statements in programs.

Don't you love the "Old HP's" clear and complete documentation

Re: 32SII: Flag11

Message #5 Posted by [R Lion](#) on 17 Dec 2002, 11:17 a.m.,
in response to message #4 by Ed Martin

Thanks, Ed: I can see my spanish version is as good as it might be. I am the "guilty" of trying apply all those things to a program, not to an equation in a program... Thanks for your time Raul

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Off-Topic: Photo

Message #1 Posted by [Mike](#) on 16 Dec 2002, 11:42 a.m.

I was taking some photos of vintage chips this weekend and this one came out especially nice. I thought I'd just post it to show what is possible with today's newer digital cameras.

This was a handheld photo and could have been sharper, had I used a tripod. It was taken with a Nikon 4500 at about 1" away from the chip. The chip die is 1/8" square.

I'll post it [as a link](#), for anyone that want's to take a look.

Re: Off-Topic: Photo

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 16 Dec 2002, 1:01 p.m.,
in response to message #1 by Mike

Hi;

you should also mention what can be done today with new microtech... and what could wizards do at that time. Amazing.

What is this chip for? By looking at the simetry and geometrical linearity, and considering the fact it's visible and the ID # (1702), I'd guess it's an EPROM (decoding address at left side, cells at right side). Good guess?

Good photo. Congrats.

Intel EPROM

*Message #3 Posted by [Mike](#) on 16 Dec 2002, 1:11 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

It is an Intel B1702A EPROM. The external case is unmarked except for the B1702A. The 1702 (256x8 EPROM) and the 1602 (PROM) used the same die.

The date code puts it in April 1975.

Re: Off-Topic: Photo

*Message #4 Posted by [Y K Wong \(Singapore\)](#) on 16 Dec 2002, 7:50 p.m.,
in response to message #1 by Mike*

Hi Mike,

Just a comment, apparently you have taken the chip indoor under tungsten light (artificial light) without correcting it, hence, giving the golden monochrome finishing. Depending on the purpose of taking this picture, you might want to correct it to show the actual color.... Should the actual chip look like this <http://service.globalarray.net/user/ykwong/1702aa.jpg> ? I have reduced the image quality from 225KB to 92KB to save on band wave.

Regards,

Y K Wong.

Yes, but

*Message #5 Posted by [Mike](#) on 16 Dec 2002, 10:37 p.m.,
in response to message #4 by Y K Wong (Singapore)*

I did take it under tungsten lighting but when you look at the actual die, it looks like gold wires with an overall gold tint. Not quite as gold as in my photo but nothing like what is in the retouched photo.

My only purpose was to see the intel logo.

Re: Off-Topic: Photo

Message #6 Posted by [Vassilis Prevelakis](#) on 16 Dec 2002, 7:55 p.m.,
in response to message #1 by Mike

Is that a picture from the 71B EPROMs you had on eBay?

**vp

Nope! it's an Intel B1702A EPROM

Message #7 Posted by [Mike](#) on 16 Dec 2002, 10:34 p.m.,
in response to message #6 by Vassilis Prevelakis

I got with some s-100 equipment 256x8.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Saturn Specs

Message #1 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 16 Dec 2002, 11:00 a.m.

Hi, everybody.

Does anyone know where to find Saturn internals (specs)? I want to know about registers, units, external connections and pinout... whatever exists. As it is obsolete, I think this is not such a secret, right?

Also the instructions and their descriptions: opcodes, parameters, flags, etc.

Is is possible? Do these info exist and are available?

Any info is appreciated. If you think it's easier, please, feel free sending any information directly to my e-box.

Thanks.

Re: Saturn Specs

Message #2 Posted by [Christoph Giesselink](#) on 16 Dec 2002, 2:29 p.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

The only public available and downloadable file is SASM.DOC from the HPTOOLS package. But this file only describes some software parts of the Saturn CPU.

Another sold document is the HP71 HDS, Part Number 00071-90071, it's the hardware internal design specification of the HP71.

All other internal documents to other HP chips are AFAIK not available.

Christoph

Re: Saturn Specs

*Message #3 Posted by [Raymond Hellstern \(Germany\)](#) on 16 Dec 2002, 7:45 p.m.,
in response to message #2 by Christoph Giesselink*

Hi,

the IDS should be on the Museum's CD's.

And there are many related documents on www.hpcalc.org .

Regards,

Raymond

Re: Saturn Specs

*Message #4 Posted by [Vassilis Prevelakis](#) on 16 Dec 2002, 9:57 p.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)*

There are two aspects to a processor design: the software architecture and the hardware interface. The former refers to the way the processor is programmed. Essentially what happens if the processor tries to interpret an opcode and 0 or more arguments. The latter refers to the connections between the processor and the outside world. Among many other things it tells you, how many pins there are on the processor and what each one of them is supposed to do.

Other info includes processor reset (what to do to ensure that the processor IPLs successfully after a reboot or power cycling), timing diagrams, state diagrams, etc.

If you want to write an emulator you need the software architecture, if you want to design a plug-compatible CPU, or to use a Saturn CPU in your project, you need both documents.

**vp

Re: Saturn Specs

*Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 16 Dec 2002, 11:00 p.m.,
in response to message #4 by Vassilis Prevelakis*

Man, you got it.

It's difficult to do silent movements when good ears surround you.

Yes, I have some ideas in mind. I'm more to HW than to SW. I believe PC emulators are good, but tactile feeling is a must when you have a portable computing device. And a customized keyboard is a lot better than a QWERTY palm.

I wrote something in here a few days ago and it called my own attention for this fact: morph translator. there are many available microcontrollers that are a lot faster than previous HP custom processors, Saturn included. A translating layer, a lot of memory, a fast microcontroller, keyboard and LCD driver... Oh, yes, the new HP calculators are based on this design, right? As posted here, those Citizen machines (SRP400G included) are something like this. What HP is probably doing is to add a translating SW layer, so they can emulate any HP former design. Even an HP48. Why not an HP42?

Just reasoning about...

Cheers.

Re: Saturn Specs

*Message #6 Posted by [glynn](#) on 17 Dec 2002, 12:45 a.m.,
in response to message #5 by Vieira, Luiz C. (Brazil)*

LOL, Viera!!

I got this mental image of Luiz as Ninja, dressed in black, avenging the death of his beloved calculators... stealthy as the wind...

Actually, this might just *SCARE* HP into developing more RPN calcs, if only for their own safety. ;-D

Re: Saturn Specs

Message #7 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 17 Dec 2002, 2:19 a.m.,
in response to message #6 by glynn

(????????)

Sorry, Glynn... I didn't get it.

What's the point?

Re: Saturn Specs

Message #8 Posted by [glynn](#) on 17 Dec 2002, 3:01 a.m.,
in response to message #7 by Vieira, Luiz C. (Brazil)

Sorry, Luis--

Just a reaction by me to something that struck me as funny, the picture painted by your phrase about doing something silently. Ninja warriors in feudal Japan were supposed to be able to sneak up silently on their enemies (and invisibly too). Japanese movies and a barrage of spinoff pop-cultural references made this American visualize your quest in those terms. I of course forgot that many others would be scratching their heads and wondering what was the point. No point-- I had just let myself be tickled by a fancy.

Re: Saturn Specs

Message #9 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 17 Dec 2002, 3:40 a.m.,
in response to message #8 by glynn

Well, what I meant as a silent movement was probably from HP, not me. I was just reasoning about Vassilis answer under design, my own ideas, and what would HP be "silently" doing. Have you been reading previous posts where Dave mentioned HP asked him to send some manuals to their OEM in China? Also about Citizen specs and (I do not remember who) today's uP and calculators? There are Citizen calculators with the same features HP9G and 9S have, but other Citizen models (SRP400G - SRP? Slide Rule Programmable - Graphics?) are a lot more powerful, and they are essentially uController-based calculators (these uControllers are used for industrial applications and can address 128K RAM). That's what new calculators are: powerful, speedy controllers, with a lot of memory. I just joined all these data together with Vassilis' words, which led me to last post: just reasoning

about.

That's why I did not understand what was I doing dressed as Ninja. I thought Chinese HP designers would be dressed as well... but Ninjas are Japanese warroirs, right? Or chinese? Or Hewpackenese? Gee...

Re: Saturn Specs

*Message #10 Posted by [glynn](#) on 17 Dec 2002, 6:04 a.m.,
in response to message #9 by Vieira, Luiz C. (Brazil)*

Luis;

Just a thought about translating layers and morphing code and so on.

I would rather, if *I* were doing an RPN calc, collect a few programmers who knew the microcontroller in my proven design (SRP4000) by heart. I would send them specs and operational detail of what I wanted it to do. And then I would make sure they had any/every resource to understand the programming task they were responsible for. And I would let them code-- without them ever seeing, possessing, emulating, or understanding the Saturn.

You see, the code developed for the Saturn was GOOD-- for the Saturn. But its not the code itself that is necessary for a good RPN implementation. It is instead the craft of the programmers to give the overall product the excellence in user interface, the precision and reliability (code which causes the CPU to have to be reset is NOT good code), and the full utility of the product.

The only reason you would EVER want to do this via an emulation layer or by some intermediate code-translation engine is to maintain code-compatibility-- for the USER. Code internal to the calculator itself is not sacrosanct, nor is it optimal. Native implementations would almost always prove superior.

All you REALLY have to have are programmers who approach their responsibilities as carefully and as creatively as the ones of bygone yore. And I daresay that if you are working for HP you will probably find them, whether they are in Taiwan or Tampa or Trinidad.

What, of the Saturn-based code, can you use? If they developed the SRP4000, they ALREADY know how to eke out sins and antilogs and

matrices and some kind of solver and probably have a library of code that can do math to darn near any precision the client specifies. They know the timing and the tolerances and the inputs and outputs and interrupts... of THEIR machine, not of the Saturn. What, then, IS the difference they need to code? The user interaction. Not being a function of the internal hardware, not the CPU at all, it makes sense to teach and describe the RPN behavior you are aiming for, and let them create a code-set of their own that meshes like the gears in a fine watch to the math and housekeeping code they have already tuned.

Do Taiwanese programmers know of RPN? Shoot, I bet a few of them have had 16c's on their desks since they got out of high-school. And most anybody working as a programmer has an intuitive sense of stack-manipulation and its workings. So I imagine a building-full of Chinese programmers that have probably just been salivating for the chance to implement an RPN SRP4000; waiting for their boss to say, go for it.

Now, WE, the users, are more likely than HP or anybody else to be tied to "Saturn Code". Why? Because it would mean compatibility with old user routines, old calculators and old peripherals and modules and card-readers and such (and maybe let us old users be more expert at the beginning). But HP has a HISTORY of remaking the background scenery-- in their image, not ours. Synthetic programming a la '41 is a hack, frankly, that HP neither intended nor condoned (it was a freight train they hopped once it was rolling, both because to stop it would have angered the user-base AND because they realized the cachet of power given the 41-- that it would go where no calc had gone before.) In designing a new calculator (or SERIES) HP probably would have any extension to the system come from, and be specifically enumerated and sanctioned by: HP. It's pretty certain they would love a whole bunch of development around the new calc. But only if it was user code that used specific, Legal, ways into and out of the system: nothing as unruly as entry via flaws in the internal code. HP had the ACO's 48 and 49 to teach them what could be done with an "open" system; their response, I think, to the TI's open systems and off-the-shelf processors. But as this new series is not likely aimed at the market represented by former 48 and 49 owners, if it WILL be "open", it will be with an "approved" entry-mode, a built-in assembler or such. (Don't count on it though: I think HP feels its product will in essence supply all a user could ever need directly from the keyboard or via menu.)

So. The Taiwanese calculator-factory programmers know controller code. They know math. They know RPN. They will have learned by now

just what HP has in mind. They will implement it in ENTIRELY NEW CODE. It will be good, very good; or HP will find another offshore venture to invest in.

Why would HP contact Dave Hicks for old documentation? The answer is obvious, IF you assume the programmers already have working models by now and the rest of the factory are in the process of tooling up. I have the feeling we shall be seeing paragraphs of the old and familiar instructional stuff accompany the new product. That is my guess, Luiz, and under the assumption, of course, that Dave hasn't been keeping algorithms of internal stack flow for i-matrix transformation under his bed, so much as USER books and USER-orientation materiel that can teach a manuals writer what really needs to be communicated to a new calculator owner.

Now, we STILL need a Ninja Warrior, to make certain they lay out the keyboard right for RPNing, and use colors with decent contrast and in any shade but freakin' TEAL. ;-)

Re: Saturn Specs

*Message #11 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 17 Dec 2002, 1:02 p.m.,
in response to message #10 by glynn*

This is not an answer to Glynn, just my addings. As the original text is a bit long, I preferred to reproduce it in my post (it's lone, now; sorry...). I know this subject has many times been part of long threads, and almost nothing changes. But it is always good to keep this matter alive. My primary interest on Saturn documentation was to be acquainted with technology I just briefly read about. I want to make sure I can comment about Saturn technology in a knowledge basis, not in artificial guesses.

*"I would rather, if *I* were doing an RPN calc, collect a few programmers who knew the microcontroller in my proven design (SRP4000) by heart. I would send them specs and operational detail of what I wanted it to do. And then I would make sure they had any/ every resource to understand the programming task they were responsible for. And I would let them code-- without them ever seeing, possessing, emulating, or understanding the Saturn."*

I think this is a better way, too.

"You see, the code developed for the Saturn was GOOD-- for the Saturn. But its not the code itself that is necessary for a good RPN implementation. It is instead the craft of the programmers to give the overall product the excellence in user interface, the precision and reliability (code which causes the CPU to have to be reset is NOT good code), and the full utility of the product. "

The best code is the one implemented for the system, not necessarily an "imported" code, I agree.

"The only reason you would EVER want to do this via an emulation layer or by some intermediate code-translation engine is to maintain code-compatibility-- for the USER. Code internal to the calculator itself is not sacrosanct, nor is it optimal. Native implementations would almost always prove superior.

All you REALLY have to have are programmers who approach their responsibilities as carefully and as creatively as the ones of bygone yore. And I daresay that if you are working for HP you will probably find them, whether they are in Taiwan or Tampa or Trinidad. "

I think the issue here is not specifically the code itself. We know it works, we know it has gaps, but I feel as a matter of time. Why do we see many programmers uploading internal HP41, HP42 and HP48 code so they can be emulated? This is a Saturn strictly related code. Why not to develop, than, a code for the PC so it runs HP41, HP42 and HP48 with internal Intel code? A matter of time.

"What, of the Saturn-based code, can you use? If they developed the SRP4000, they ALREADY know how to eke out sins and antilogs and matrices and some kind of solver and probably have a library of code that can do math to darn near any precision the client specifies. They know the timing and the tolerances and the inputs and outputs and interrupts... of THEIR machine, not of the Saturn. What, then, IS the difference they need to code? The user interaction. Not being a function of the internal hardware, not the CPU at all, it makes sense to teach and describe the RPN behavior you are aiming for, and let them create a code-set of their own that meshes like the gears in a fine watch to the math and housekeeping code they have already tuned. "

You're completely right, source code for high-level and transcendental math is not "necessarily" written with an specific processor in mind, unless it already has internal floating-point capability. Inner system operation will not change, just user interface. And it's a high-level code.

"Do Taiwanese programmers know of RPN? Shoot, I bet a few of them have had 16c's on their desks since they got out of high-school. And most anybody working as a programmer has an intuitive sense of stack-manipulation and its workings. So I imagine a building-full of Chinese programmers that have probably just been salivating for the chance to implement an RPN SRP4000; waiting for their boss to say, go for it. "

"Now, WE, the users, are more likely than HP or anybody else to be tied to "Saturn Code". Why? Because it would mean compatibility with old user routines, old calculators and old peripherals and modules and card-readers and such (and maybe let us old users be more expert at the beginning). But HP has a HISTORY of remaking the background scenery-- in their image, not ours. Synthetic programming a la '41 is a hack, frankly, that HP neither intended nor condoned (it was a freight train they hopped once it was rolling, both because to stop it would have angered the user-base AND because they realized the cachet of power given the 41-- that it would go where no calc had gone before.) In designing a new calculator (or SERIES) HP probably would have any extension to the system come from, and be specifically enumerated and sanctioned by: HP. It's pretty certain they would love a whole bunch of development around the new calc. But only if it was user code that used specific, Legal, ways into and out of the system: nothing as unruly as entry via flaws in the internal code. HP had the ACO's 48 and 49 to teach them what could be done with an "open" system; their response, I think, to the TI's open systems and off-the-shelf processors. But as this new series is not likely aimed at the market represented by former 48 and 49 owners, if it WILL be "open", it will be with an "approved" entry-mode, a built-in assembler or such. (Don't count on it though: I think HP feels its product will in essence supply all a user could ever need directly from the keyboard or via menu.) "

I do not think this way. HP broke the chain with the HP28C: a new paradigm. What happened? Many kept previous RPN, others supported only RPL and some (me included) use both as well, no

matter which, just a matter of the kind of problem to demand what. HP did not support this turn except for a few docs and a translating HP48 card, with limited capability, that allows HP41 programs (plain 41) to run in an HP48. Hrast gave us the true emulators, with very Saturn code. In a Saturn environment. But old calculators, peripheral devices and even an HP patented serial connection - Interface Loop - was disregarded in the new system; instead, RS232, recursive programming, multilevel stack... things some hate, some love.

"So. The Taiwanese calculator-factory programmers know controller code. They know math. They know RPN. They will have learned by now just what HP has in mind. They will implement it in ENTIRELY NEW CODE. It will be good, very good; or HP will find another offshore venture to invest in.

Why would HP contact Dave Hicks for old documentation? The answer is obvious, IF you assume the programmers already have working models by now and the rest of the factory are in the process of tooling up. I have the feeling we shall be seeing paragraphs of the old and familiar instructional stuff accompany the new product. That is my guess, Luiz, and under the assumption, of course, that Dave hasn't been keeping algorithms of internal stack flow for i-matrix transformation under his bed, so much as USER books and USER-orientation materiel that can teach a manuals writer what really needs to be communicated to a new calculator owner".

That's another point I would really like to understand: have the documentation been sent to R&D or OEM? Who is in charge to developing documentation? Engineers? Writers? Same staff? I'd like to know if these docs were sent to the guys that will rewrite them or read them.

"Now, we STILL need a Ninja Warrior, to make certain they lay out the keyboard right for RPNing, and use colors with decent contrast and in any shade but freakin' TEAL. ;-)"

I'm not suited to wear a Ninja dressing... but I'm flattered with the invitation. ;-)

Thank you for now.

Message #12 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 18 Dec 2002, 8:22 p.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

Hi;

as this thread is about to disappear, I'd like to thank you all who answered my request also through my e-mail.

Please, if there is any other information, I'd be glad having it.

Thank you, guys.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Death of RPN

Message #1 Posted by [Tom \(UK\)](#) on 16 Dec 2002, 7:27 a.m.

Some time ago an ex-employee of ACO said when they closed them down that:

"Unfortunately, the Saturn is becoming obsolete this year, and nothing has been done to redesign it"

All the current (and recent ex) RPN calcs had the operating system running on a Saturn processor. It doesn't take much imagination to see that when stocks run out HP will have nothing to run the RPN software on.

Hence HP is re-badging old calcs, or using AOS based chip sets.

The only chance to use all the good RPN routines is to hire some programmers to port it to another processor, or have an interpreter running on a faster processor (both difficult as the Saturn is a fairly unique bit of hardware)

The only other (minimal cost) option is to use the 11/15c roms in the 'new' 12c - you know, the one with the rubbish keyboard.

Other choices are to design a new calc (remember the Xpander?) or have a good RPN calc on a PDA or using the 48/49..... but the chances of HP doing this are 1 in 10^{42} .

Buy those hp48's while you can...

(well thats my rant for this month)

Re: Death of RPN

Message #2 Posted by [Vassilis Prevelakis](#) on 16 Dec 2002, 9:38 a.m.,
in response to message #1 by Tom (UK)

You are confusing development with production. The intel 8051 is still being used even though decades have passed since the design was fixed. Many companies (e.g. Philips) have made minor extensions to the architecture, but the new designs are essentially compatible (or can be switched to a compatibility mode) with the original 8051.

HP may continue to produce Saturns for as long as there is a demand for the calculators. If there is demand for a specific package (e.g. 12C) then you only need to improve manufacturing techniques (and lower production cost). HP may realize that for certain applications the technology has matured (e.g. ballpoint pens, people still buy expensive ones, not because they have more features, but because they look better, feel better and impress the owner's friends). I would guess that in the case of the 12C, users do not really want something better, what they have is what they need/want. Of course by making these calculators feel cheap HP is going to lose that market as well (its like Parker or Cross making their pens look like plastic BICs).

If you want to use another processor, you can just write an emulator for the saturn architecture. It has been done and the code is generally available. Why do you think that you need to port the source? Users do not care whether their calculator runs native code or emulated code. Saturn can become the p-system of calculators.

The BIG cost is tooling for the calculator itself: keyboard, covers, display etc. This is the limiting factor.

So I would agree with your suggestion that we will end up with a "virtual" calculator running on a PDA. I wouldn't like that, and I would try to hang on to my existing calculators as long as I can, but without replacements, the time will eventually come when I'll have to switch to a new platform.

****vp**

Re: Death of RPN

*Message #3 Posted by [Tom \(UK\)](#) on 16 Dec 2002, 12:44 p.m.,
in response to message #2 by Vassilis Prevelakis*

My understanding is that the Saturn will soon die (end of production) as HP won't port it to an available semiconductor technology (1.2um or smaller). Porting to a smaller geometry (which is almost all that is available now, and 1.2um is getting scarce) would not be cheap and I don't see HP doing that. Hence I don't see production of any of the current RPN calcs lasting very long. HP have not rushed out true replacements for dropped calculators.

HP owns the code that we know and love as being fast and accurate and this runs on the Saturn processor that HP also own. I would love to see an emulator on some of the current fast processors, where have you seen this and what processors does it run on? - perhaps HP are working on this.

The 8051 design is still available because it has been ported to technology that is currently manufactured. Indeed our company has designed our own 8051 core to embed in our own designs, (we also have a DSP of our own design).

Does anyone know what technology the Saturn processor is in? I'd guess >>1.2um technology as it is not very fast (4MHz) by standards of even 5 years ago.

I don't wish production of 'proper' RPN calcs to end but the situation with the Saturn hardware is not good.

PS - My posting was listed as a bit of a rant - so my argument may be a bit leaky - thanks for your constructive criticism - it's made me realise perhaps we may have seen the last of the current crop but hopefully not the end of HP + RPN. However recent HP releases have been very disappointing.

Re: Death of RPN (Reports greatly exaggerated . . .)

*Message #4 Posted by [Paul Brogger](#) on 16 Dec 2002, 10:19 a.m.,
in response to message #1 by Tom (UK)*

The user interface aspects which implement RPN calculator behavior don't need to run at anything like processor speeds, so RPN may be implemented on any reasonably fast CPU, regardless of its architecture and instruction set.

As romantic as the notion of developing on proprietary components may seem, it just doesn't make business sense. Using industry-accepted components increases the talent pool available for development and support, simplifies training, and deepens the developers' toolboxes.

With regard to its RPN calculator offerings, HP hasn't made many decisions lately that I like, even though all of those decisions are presumably supported by something that passes for corporate wisdom. But I don't see how discontinuing the Saturn line will itself *inevitably* preclude the future offering of RPN calculators. (Maybe some developers would care to chime in here?)

I think there's still hope for a legitimate RPN interface. I most regret the ongoing decline in HP structural and appearance qualities. We've not seen the like of the made-in-America Pioneer models (one example) for many years, and are unlikely to ever see that level of care in calculator creation out of HP again.

Re: Death of RPN (Reports greatly exaggerated . . .)

*Message #5 Posted by [Chan Tran](#) on 16 Dec 2002, 12:58 p.m.,
in response to message #4 by Paul Brogger*

Just wondering, with all the spin off and merger does HP still have the semiconductor manufacturing capability to product the Saturn chip?

Saturn processors

*Message #6 Posted by [Randy Sloyer](#) on 16 Dec 2002, 1:40 p.m.,
in response to message #5 by Chan Tran*

One:

You absolutely do not need a Saturn processor to do RPN. RPN was an elegant way to implement a mathematical interface in a limited capability first generation dedicated microchip product. The HP-35 was designed before general purpose microprocessor chips such as the 8008. It would have been much easier for the HP engineers to use an off the shelf micro from a firmware perspective, but the product would not have fared very well in the market due to the costs of the chip and power consumption. I this is why HP developed the Saturn in the first place - it is a low power, highly robust dedicated processor for a single application - calculators. It could be considered a general purpose micro, but it's architecture is optimized as HP saw fit.

Two:

To the best of my knowledge, the Saturn processor has never been manufactured by HP. Nippon Electric (NEC) has been the sole source of supply. HP designed the chip but did not have the CMOS process to manufacture. I don't think HP ever manufactured IC's of this complexity. I am probably wrong on this one, but wasn't opto-electronics their only silicon based products? - Now with the Agilent spin-off.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

The New HP 85

Message #1 Posted by [Vassilis Prevelakis](#) on 15 Dec 2002, 6:00 p.m.

Well not quite, "Hewlett-Packard's New Personal Computer, The HP-85" is the title of the 1980 review of the (then new) HP 85. It was published in the March 1980 edition of BYTE Magazine.

I have received permission from Byte.com to scan it and make it available on the series80.org web site.

For a walk in the past: <http://www.series80.org/ByteArticle>

**vp

PS To give you some context of the age of the article, in the same magazine there is a one page color ad for a 26Mbyte hard drive. The price? only \$4995!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

The Other Models of MoHPC

Message #1 Posted by [R Lion](#) on 15 Dec 2002, 11:05 a.m.

If they were discontinued, why do not add to the Museum some of "the Other models"? Just an idea.
Raul

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Have they no shame... or, why did they kill the 42S?

Message #1 Posted by [Randy Sloyer\(US\)](#) on 14 Dec 2002, 10:24 p.m.

I admit it, I love the 42S. Now, if it only had serial I/O. We have all heard the stories about why the 42S was discontinued. I always thought it just a better "pure" calculator than the 48 series and HP wanted to push the latest. One of the reasons given was that the cpu was obsolete, end of life on components, etc. But I had always wondered how they could keep the 17Bii in production since they were the same calculator, save the keyboard, bezel and rom. It seems to me that the marketing folks just thought more of the 17Bii than the 42S. Now my suspicions have been confirmed. Read on for my surprise of the week:

I recently bought an "organ donor" 17Bii for \$10.00, since I had used up my last LCD for a fellow 42S lover. It was reported to be inoperative, just plain dead. When I got it, it was a very new (year 2000) unit, and it powered up fine with a new set of batteries. It turned out to be intermittent, a tap on the back made it go crazy. Since it was bought to be cannibalized, it was time to bust it open and extract the only valuable piece, the LCD. Twiddle, twiddle, snap, snap and presto...

Ahhhhh! This is not your average run of the mill 17Bii. It is a new hardware version! Click on the link to see a picture of the circuit board.

[New 2000 model Hp-17bii internals](#)

So they did a new board layout for a surface mount device. No more TAB packaging. It is the same package CPU as the 48/49 series machines. So the CPU wasn't obsolete after all, it only needed a new package. And to think they could have used this same board for the 42S with a ROM change. Oh, the agony...

Have we been elected to...

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 14 Dec 2002, 11:32 p.m.,
in response to message #1 by Randy Sloyer(US)

... repopulate species?

I have a thought: whatever it is the RPN calculator HP launches, we are the ones naturally elected to pass this knowledge forward. And when I say "WE" I do not mean only the ones contributing in here, instead I address these words to anyone that knows how to use an RPN/RPL-based calculator and is up to teach how to do it.

Repopulate species.

I'm one of them.

Cheers.

Re: Have they no shame... or, why did they kill the 42S?

Message #3 Posted by [Gordon Dyer](#) on 15 Dec 2002, 8:10 a.m.,
in response to message #1 by Randy Sloyer(US)

Do any of the current HP calculator team read these pages?

If anyone has a contact in HP then please make sure they do read them, even if it means pasting the comments into an email.

It would be a very easy task to make a ROM for the 42S to work in the new electronics. Or how about an enterprising enthusiast buying up a lot of 17BII's and transplanting the ROM?

Re: Have they no shame... or, why did they kill the 42S?

Message #4 Posted by [Christoph Giesselink](#) on 15 Dec 2002, 6:11 p.m.,
in response to message #1 by Randy Sloyer(US)

Hallo Randy,

just a question to the picture. Is this an English version of a 17BII? I'm missing the 32KB ROM of the International version.

TNX

Christoph

Re: Have they no shame... or, why did they kill the 42S?

Message #5 Posted by [Randy Sloyer](#) on 15 Dec 2002, 9:34 p.m.,
in response to message #4 by Christoph Giesselink

Yes, it is an English only version.

Reasons for not killing Pioneers

Message #6 Posted by [Renato](#) on 15 Dec 2002, 6:40 p.m.,
in response to message #1 by Randy Sloyer(US)

At the HP-48 Newsgroup, there is a discussion about running a RPN software in a TI-83. <http://groups.google.com/groups?hl=en&lr=&ie=UTF-8&safe=off&group=comp.sys.hp48>

Thread title is " Has anyone used the rpn program for the ti-83? "

Interesting comments:

1. "our high school math/sci team used 32sii but they're about to be disallowed next year since they are so scarce"
2. "yes, the officials are VERY aware of the HP's superiority. anyone caught using just a TI on the test is almost laughed right out of the competition because literally everyone else knows they have no chance. Most people use a ti-83+ or 86 for graphing or conversions etc but a large portion of the test is straight number crunching where the 32sii's speed is completely unparalleled (because the test is practically written for it). next best thing is the hp 49g which i can beat the average 32sii user at the competition although the good people would just trounce me if i used it regularly. at the state level competitions EVERYONE uses a 32sii. The non-HP-using people simply cower in fear when the Hp-using people show up".

I doubt it!!! 8o)

Message #7 Posted by [Ron Ross](#) on 16 Dec 2002, 8:22 a.m.,
in response to message #6 by Renato

I doubt they cower in fear. Because, they do not know about RPN! They are like sheep before a Lion and think of the Lion (Hp user) as a kitty cat.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

32Sii Games

Message #1 Posted by [Ben Salinas](#) on 14 Dec 2002, 6:02 p.m.

So, curiously, has anybody either written a game, or seen a game written for the 32Sii? The other day a friend and I were talking about making a TicTacToe game (using circuitry), and I decided (well it was a challenge from him who uses a TI-86) to write TicTacToe for my 32sii. I am now about 90% fo the way done with a crude, inefficient but very memory conscious, version of TicTacToe. I like the challenge of programming in 384 bytes. I am planning my next game to be a "hit the button that flashes up on the screen" (where a number or function is displayed on the screen and you have so much time to press the button) The hardest part will be the timing (guess i will use a for loop) -ben

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

"19bii Palm Emulator"

Message #1 Posted by [dennis raphael](#) on 14 Dec 2002, 12:01 p.m.

Dear Friends,

Who knows where can I find a 19BII emulator for my plam divice?

Thank you, Dennis

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Corvallis MicroTechnology MC-II, MCII-POD, MCII-41M & POD-TRAN

Message #1 Posted by [Emmanuel, Normandy \(France\)](#) on 14 Dec 2002, 10:02 a.m.

I would like to run my HP-41CX programs on my recent MC-V but MC-II w/ MCII-POD, MCII-41M & POD-TRAN is better for that. Need help and may be trading my MC-V w/ a MC-II with extensions mentionned above. Thanks!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-41c memory register

Message #1 Posted by [Michel Beaulieu](#) on 13 Dec 2002, 9:33 p.m.

Hi again, still learning RPN and programming the 41c :-). I made some programs and i know how many registers i have left but i want to know how many registers each of my programs takes INDIVIDUALLY - How to know that?

I made some errors on programs naming and did 2 programs with the same name (label); now i want to clear one of them using CLP xxx how can i know wich one will be erase if there is more than one with the same label?

I also made an error i don't understand : I erase on my program the first line (the label naming the program...), i exit PRGM and when back to program all my program was erase :-((even in the CAT 2 no presence of the programs or line - where are all my lines??? - after i PACK i get mor free register so the line were there but i can't saw them - How to get them back the next time i'll do this error (erasing the first line or a program)

Thanks!

Re: HP-41c memory register

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 13 Dec 2002, 10:33 p.m.,
in response to message #1 by Michel Beaulieu

Hi;

1) if you want to know how many bytes each program uses, there are three easy ways: - listing in a printer (82143A or the IL printer 82162A) - having an HP41CX, that shows the number of BYTES (not registers) for each program at each END statement -storing the program in the X-Memory (need X-Functions) and listing with EMDIR; each file is shown with the number of registers used to store it

I know this does not answer your question because each answer assumes you have anything but a plain HP41C or CV. Anyway, if you have one single program, you can set SIZE 000, execute

[GTO] [.] [.] , toggle to PRGM mode and read how many registers remain for programs. Subtract from 319 max (HP41CV) and you have the number of REGISTERS the program actually uses. Remember that you may have 1 to 6 bytes free for other programs, as the HP41 uses 7 bytes for each register.

2) To delete one of two programs with same global label. Execute [CAT] [1] and stop ([R/S] key) when you reach the program YOU WANT TO DELETE. Execute [CLP] and press [ENTER] twice, so you do not type any name. The **current program**, the one shown when you stopped execution, is deleted. The other one prevails.

3) [CAT] [2] only shows functions and programs on modules, never in the main user RAM. You probably have a situation like this:

```
01 LBL P01
02 step
03 step
.
.
.
nn step
mm END
```

and you inadvertently erased LBL P01 with the [<-] key, right? If you use [CLP] [ALPHA] P01 [ALPHA] then you actually erased all program steps from 01 LBL P01 to mm END, and it CANNOT BE RECOVERED.

If you used the [<-] key and deleted only LBL P01, then you execute [CAT][1] and you do not see LBL P01 anytime, right? BUT you will see a lone END without a LBL anything before it. That's your program, showing its "tail" and without a "head" (please, guys, this is just a figure). You should stop CATALOG 1 at the moment this lone END appears and toggle to PRGM mode. You will probably see

```
nn END
```

you don't see mm END, because step # 01 was ripped off. You should execute:

```
[GTO] [.] 000
```

and you will see

```
00 END nnn
```


At this point, you may insert your LBL P01 again and everything will be fine.

Hope this helps.

Cheers.

Typo in my previous post

*Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 13 Dec 2002, 11:15 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Hi;

As I have an HP42S, I sometimes confuse HP41 keystrokes for HP42 keystrokes. Please, in the sentence:

"(...) Execute [CLP] and press **[ENTER]** twice, so you do not type any name. (...) "

in second answer, please read:

"Execute [CLP] and press **[ALPHA]** twice, so you do not type any name. "

The [ENTER] on previous post works fine with the HP42S; in the other hand, the HP42S does not have a [CAT] [1]... forget it!

Forgive my typo keystroke. I could erase the post and rewrite it, but I'm getting used to live with my faults.

Cheers

email adress

*Message #4 Posted by [Michel Beaulieu](#) on 16 Dec 2002, 9:11 a.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)*

I send you new questions to your email but the email was return to me "unknown user..." What is your email adress?

Thanks Michel

Re: email adress

*Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 16 Dec 2002, 11:09 a.m.,
in response to message #4 by Michel Beaulieu*

Hi;

it seems my provider is somewhat confused for these days. Sometimes I cannot connect anything but its own pages, sometimes I'm an unknown user... what the h... is supposed to be going on is my biggest question, and my webmaster asks me to reset my computer and try again. If I do not know him personally, I'd think I'm talking to a virtual "answering machine".

And you are right: I did not receive anything from you. Try the e-mail attached in this message's header; it should work.

It seems its fine for now.

Thank you, Michel. You're welcome.

Cheers.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Has HP stopped making HP-49G?

Message #1 Posted by [Bill Hemphill](#) on 13 Dec 2002, 9:42 a.m.

I was just on the HPShopping.com site, The HP-49G is no longer listed or even referenced. Only the 9G, 39G and 48GX is listed. In past, they would list the entire line even if they weren't being sold on the web stite. They would inform you to check with the dealers for pricing.

Re: Has HP stopped making HP-49G?

Message #2 Posted by [Ernie Malaga](#) on 13 Dec 2002, 9:52 a.m.,
in response to message #1 by Bill Hemphill

Bill:

You beat me to it. I noticed this omission too. I wonder if it is not but an error, and they meant to have the 49G instead of the 48GX listed.

-Ernie

Re: Has HP stopped making HP-49G?

Message #3 Posted by [R Lion](#) on 13 Dec 2002, 12:01 p.m.,
in response to message #2 by Ernie Malaga

There's a thread about it in comp.sys.hp48 titled "HP-49G Discontinued???"

<http://groups.google.com/groups?hl=es&lr=&ie=UTF-8&frame=right&th=310756ecef3d1afb&seekm=phe2vu0etjh0mgfrv0iouogk22f7a8m4kc%404ax.com#link1>

Any new information on the HP-49G?

Message #4 Posted by [Stan \(Sg\)](#) on 23 Dec 2002, 8:17 a.m.,
in response to message #2 by Ernie Malaga

Does anyone have any new information on the HP 49G? It has been off the HP web site since about December 13. The main calculator page still says they have graphing calculators with "32K to 1.5Mb of memory" (I assume 1.5 Mb refers to the 49), but this could be a mistake.

I visited a dealer in Singapore last week and he had an HP 49G on the shelf. He told me that he was not aware that the 49G had been cancelled. Interesting ... he did not have any HP 48GX's and said that they were on back order and he did not know when he could get any new units. I noticed that Amazon.com does not have any stock of the 48 or 49. Both are listed but there is no option to order. You could order them from Amazon until recently.

The certainly feels like the end of HP calculators. The statements at HPCC give some hope that new RPN models are on the way.

Re: Any new information on the HP-49G?

Message #5 Posted by [Y K Wong \(Singapore\)](#) on 23 Dec 2002, 9:03 a.m.,
in response to message #4 by Stan (Sg)

Stan,

If you are in Singapore, you can purchase from Mac-Net, they are the HP Calc distributor since 1999, their web site address is <http://www.educalc.net/> (note: No, they are not related to the EduCalc in U.S.!). Current price for 48GX at S\$260.00 and 49G at S\$320.00.

Re: Any new information on the HP-49G?

Message #6 Posted by [Stan \(Sg\)](#) on 24 Dec 2002, 1:22 a.m.,
in response to message #5 by Y K Wong (Singapore)

Thanks for the web address. I had not seen this site.

I am trying to decide if I should buy a 49G as a back-up in case my 49G gets lost / broken / etc... I don't use my 49G on a daily basis due to its size, keyboard and display (all of which have been discussed here at length). I do, however, enjoy working with the 49 as a hobby. It has a lot more memory than the 48 and it is much faster (I also like the keyboard layout better than the 48). If HP isn't going to make a replacement model, I would like to have a second one so I would not have to buy

one used (like people are doing with 32's) later. If they do come out with a new model (or the 49G isn't cancelled and it shows up on HP's web site next week!), I would consider it a waste of money to have another one sitting around. That is the dilemma.

Re: Has HP stopped making HP-49G?

*Message #7 Posted by [Don Davis](#) on 13 Dec 2002, 3:51 p.m.,
in response to message #1 by Bill Hemphill*

I would say that it is really gone. When the 9G and 9S first went up on the web page, the 49G was not shown in the list of graphing calculators, but a link to it did show up when you went to the 48GX page. Then, the page was modified so that the 49G came up under the list of graphing calculators, so I thought it was back. Now the page has changed again, and it does not show up anywhere I can find. It seems likely that they have been out of production for a while, and the stock has been depleted.

best regards, Don

Re: Has HP stopped making HP-49G?

*Message #8 Posted by [Les Bell \[Sydney\]](#) on 14 Dec 2002, 6:09 a.m.,
in response to message #7 by Don Davis*

And good riddance, too. Too complicated software design, further marred by lousy mechanical design and appallingly bad documentation. The 48GX was already too far down that particular road; the 49 just added insult to injury.

The 41 was the sweet spot: an elegant design, from both a software and a mechanical perspective, backed up by quality documentation and support.

Not like the shockers the ghost of HP past has been producing in recent years.

--- Les

Re: Has HP stopped making HP-49G?

Message #9 Posted by [Ernie Malaga](#) on 14 Dec 2002, 10:39 a.m.,
in response to message #8 by Les Bell [Sydney]

Les:

My sentiments exactly! In latter years, HP engineers must have suffered from chronic expertosis and tertiary featuritis. Personally, I found even the 28C/S too complicated, but at least it included a detailed reference manual. As far as I am concerned, things went steadily downhill ever since, and the 49G was the worst offender.

Just my \$.02. -Ernie

Re: Has HP stopped making HP-49G?

Message #10 Posted by [Ron Ross](#) on 14 Dec 2002, 11:42 a.m.,
in response to message #9 by Ernie Malaga

I really do not mind Hp selling a top of the line feature unit such as the Hp48g series. But I feel HP should also sell a pocket calc also (ie 42s with real serial I/O, customablittie (RAM) and lots of it).

Re: Has HP stopped making HP-49G?

Message #11 Posted by [Les Bell \[Sydney\]](#) on 14 Dec 2002, 6:21 p.m.,
in response to message #10 by Ron Ross

Oh, I don't greatly object to the 48GX (after all, I own one). However, I've come to the view it's (along with the 49G) a specialized device for a specialized market: the science/engineering student who doesn't have enough funds for a computer.

And in these days of relatively low-cost PDA's, low-cost desktop PC's and computer labs all over most campuses, I think that market has gone. Matlab and Mathematica can do it all, far better.

Once in the work-force, we all have a computer on our desks, and we use it for all the non-trivial stuff. To appeal, a calculator has to be much smaller than the 48/49, much simpler and faster to use - something you can grab during a meeting to rough out some numbers.

I really don't see the 49 as being the "top of the line", in the sense that more features is better. To me, the sheer complexity of the 48/49 is an obstacle to use.

I don't use it enough to even remember which of the shift keys to use to store into a variable on the menu line. Perhaps that's because I mostly reach for the 16C or 41CX for my day-to-day needs. Perhaps if the 48GX was the only calculator I had, I would be forced to become more familiar with it, and the pain would be less. . .

But I suspect that many high-tech companies need to learn an important lesson: more is not necessarily better. Often, simpler, more elegant and smaller are more appropriate.

Best,

--- Les

Re: Has HP stopped making HP-49G?

*Message #12 Posted by [Don Davis](#) on 14 Dec 2002, 11:42 p.m.,
in response to message #11 by Les Bell [Sydney]*

I think you are right on about the complexity being an obstacle to use. A few years ago I made a remark in a post that I felt the 48SX (current at the time) may have made some of the hard stuff easier, but it made the easy stuff harder! Several people tried to straighten me out and convince me that I had just not spent the proper time to learn this powerful new tool. Maybe they are right, but I still reach for my 42S, not the 48, when I am off to a meeting. Sounds like at least some others feel the same.

Matlab, Mathematica AND Derive

*Message #13 Posted by [Nenad Vulic \(Crtoatia\)](#) on 15 Dec 2002, 5:44 a.m.,
in response to message #11 by Les Bell [Sydney]*

Les Bell wrote: >>>And in these days of relatively low-cost PDA's, low-cost desktop PC's and computer labs all over most campuses, I think that market has gone. Matlab and Mathematica can do it all, far better.<<<

I agree with Les's opinion. Just would like to add Derive to the list of math software that deserves to be mentioned here. Derive is very easy to use, comes on a single floppy and capable of doing anything I need in maths (from numerical to close form calculations). I was even considering to find a TI92, as it has a built in Derive... (my apologies to all for expressing such a heresy at this Forum :-)

Re: Matlab, Mathematica AND Derive

Message #14 Posted by [J.Manrique Lopez](#) on 15 Dec 2002, 7:09 a.m.,
in response to message #13 by Nenad Vulic (Crtoatia)

Add Giac/Xcas to your list: <http://www-fourier.ujf-grenoble.fr/~parisse/giac.html>

It is free (GPL License) and it runs in several platforms: - Linux x86 PC - MS Windows PC - StrongARM Linux devices (HP iPAQ i.e.)

And its author is Prof. Bernard Parisse, same one, that created Erable (hp48's CAS, and hp49's CAS).

Regards, J.Manrique #1077 HPCC Member

High-Water Mark for top-end HPs

Message #15 Posted by [Glen Kilpatrick](#) on 14 Dec 2002, 11:42 a.m.,
in response to message #9 by Ernie Malaga

I'll board the bus for part of the ride. IMHO, the 48 was the high-water mark. Sure, you only got half a manual, the AUR was on no sense "optional" if you wanted to do serious programming. And nobody but nobody would be using all of the features of even the S's, let alone the equation library _etc._ of the G's (so featuritis certainly fits).

But the HP quality was still there, power up the kazoo, memory to burn (well, in the G+ & GX anyway), IR .AND. wire connection, and that wonderful RPL.

But I don't (didn't) like the 49G either, that was where I drew the line. Now if they could only squeeze the 48's RPL into a Pioneer case....

Re: Has HP stopped making HP-49G?

Message #16 Posted by [Masao Kinoshita](#) on 16 Dec 2002, 5:40 p.m.,
in response to message #9 by Ernie Malaga

I think the 48GX is more user friendly than the 48SX. With the SX, I stuffed a 41CV Emulator ROM card into it and used it as a super-duper 41. (Though, I did use the SX for producing graphs to paste into lab notebooks, before GraphPad Prism. I even programmed the SX to plot dotted lines for enzyme inhibition assays. Also, the Chemistry ROM card, which utilizes the symbolic powers of the 48, is great for bench calculations, e.g. dilutions, molecular weights, etc.)

The most user friendly recent HP that I've used is the 27S (even received the manual months later, but had already figured it out). If only they had produced a 27Sii with RPN (a la 17Bii).

Re: Has HP stopped making HP-49G?

Message #17 Posted by [Bill Hemphill](#) on 14 Dec 2002, 11:43 a.m.,
in response to message #8 by Les Bell [Sydney]

I have to agree. I bought a 49G when they first came out - it has spent most of it's time in my desk drawer. I've tried to use it but it never felt comfortable. It's interesting that they dropped the 49G and kept the 48GX. They must have been selling a lot more 48GX than 49G.

I like playing around with the 48GX and the 28S, BUT I LOVE USING the HP-41CX and the HP-11C. Whenever anyone asks why I like these older HP's, I just have them press the keys. The key action speaks for itself.

Re: Has HP stopped making HP-49G?

Message #18 Posted by [Ernie Malaga](#) on 14 Dec 2002, 1:38 p.m.,
in response to message #17 by Bill Hemphill

Bill:

>Whenever anyone asks why I like these older HP's, I just have them press the keys. The key action speaks for itself.

Right on! The keyboard is a key element (pardon the pun) in a calculator, so it should have as good a quality as possible. The 41CX had an excellent keyboard, while the 48GX didn't, and the 49G most certainly did not.

Besides quality, I also consider the user interface important. This is a very gray area, however. In general, the simpler the interface, the easier the machine is to use. At one extreme we have the venerable HP-35 (simplicity itself), in which each key had one use and no surprises, while at the other end there's the 49G, with a horribly cluttered keyboard and more menus than the HP-45 had functions.

In my opinion, the 41CX contains a happy midpoint between simplicity and complexity of user interfaces, although I'm not quite head-over-heels about having to spell out function names (as in XEQ ALPHA ... ALPHA).

Still, if I had to choose one calculator available today, I'd go for the 48GX. The least of all evils! 8^)

-Ernie

Re: Has HP stopped making HP-49G?

*Message #19 Posted by [David](#) on 14 Dec 2002, 11:45 p.m.,
in response to message #18 by Ernie Malaga*

I agree. I eagerly awaited my hp49, and was excited when it came (I was upgrading from a hp15c). I never owned an hp48, so I was really unfamiliar with the layout, and the manual sucked!! I guess they assumed that you had "mastered" the hp48, so they weren't going to make a good manual for the 49.

Needless to say, I played with it for 10minutes, and have not used it since. I like my hp15C and 41CX :)

Re: Has HP stopped making HP-49G?

*Message #20 Posted by [R Lion](#) on 15 Dec 2002, 3:48 a.m.,
in response to message #19 by David*

David wrote: "I guess they assumed that you had "mastered" the hp48"

I think this is one of the keys... the 49 IS a 48+MetaKernel+Erable+Alg48 +Stat48... Perhaps too many sources, too many authors for doing a well integrated system. I've installed most of these programs in my 48, but they were installed when needed. And every program comes with its documentation I could learn to use the new features gradually... I guess I can use a 49G more efficiently, than if I were to learn that horrible 49's docs I have heard... Raul

Re: Has HP stopped making HP-49G?

Message #21 Posted by [Vassilis Prevelakis](#) on 16 Dec 2002, 7:12 a.m.,
in response to message #17 by Bill Hemphill

I am not using HP calculators produced after the 41 since I consider RPL to be too cumbersome for the available screen real estate. Trying to scroll around the display to see the program, is less convenient than the single line 41. With the 41 you just know that you need a sheet of paper, with the 48, you *still* need the sheet of paper *and* you have to fight with the screen editor.

My rule of thumb is that if you have to scroll the display (esp. horizontally), you are doing something wrong. E.g. take the 71b: long lines are a total pain on that one. Another example: Am I writing this in Dave's little window in the Forum Web page? No, I am using a real editor in a real window. I'll paste this back when I finish.

Finally, I question the intuitiveness of the unbounded stack and the strictly postfix command structure. I think they needlessly complicated both the user and programming interface. I think Wilkes got a little too clever on that one.

Although I have a 48SX and a 48GX (and I did own an HP 28C), I have always preferred my 41C.

The software complexity was always a bit ahead of the hardware capabilities. Notice the cluttered layout of the HP 67 and even the HP 97. The 41 was an improvement in the sense that the complexity of the calculator could be hidden from the user via function key definitions and overlays. But it was a really complex machine. The flat function catalogs (CAT 0,1,2,...) were atrocious (at least the CX two level catalogs fixed that). But you could see that simply having more programs and registers was causing lots of headaches (the synthetic movable curtain was ingenious). HP realized that the son of the 41 would need a different system, but I think RPL suffered from what Fred Brooks call the Second System Effect.

Now that I can afford to have lots of HP calculators, I tend to use a 97 for its printer and superb keyboard, but I have 2 33Cs and one 34C spread around my work area for quick calculations. The LED display and the quality of the construction make them superb tools for everyday use.

As many people have already mentioned, if I really want to solve an integral I'd go to a real computer.

The 42S was crippled by the lack of I/O (it was a missed opportunity not to have a

bidirectional I/R interface or serial interface like the 48SX) and the lack of a real time clock. These failings make it useless to me, although the larger screen is definitely an improvement.

The form factor of the 42S is probably the largest that can reasonably be used comfortably. I'd trade a row of keys for a larger 4+1 level display, but that would be it. I also like the ability to have soft key labels over the function keys, but I wouldn't want to trade the LASTx display for this.

So my dream machine would be a 41CX with 48SX display and I/O, in a 42S form factor.

HP-49G is a loser to TI-89

*Message #22 Posted by [Pocketcom Mania](#) on 16 Dec 2002, 8:54 p.m.,
in response to message #17 by Bill Hemphill*

Many people like to compare HP-49G with TI-89. Actually, I've both. I rarely use HP-49G as it makes your fingers feel tired. In terms of display, user interface design and speed, TI-89 is also a clear winner. If you're not talking about programming, TI-89 just leaves HP-49G in the dust. These powerhouses are already packed with lots of functions and downloadable software. No programming is practically necessary.

How can HP accept the fact that HP-49G eventually loses to TI-89 of its archrival?

Re: Has HP stopped making HP-49G?

*Message #23 Posted by [Christopher Migdal](#) on 4 Jan 2003, 1:40 p.m.,
in response to message #8 by Les Bell [Sydney]*

I have to agree. I have an HP-29C and an HP-41C. I bought an HP-49 last year and was shocked with the poor quality of the calculator and the unbelievably bad manual. It reads like a bad translation from the Japanese original that you used to see years ago.

I returned the calculator after a few days.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-75 Beeper Question

Message #1 Posted by [Mike](#) on 13 Dec 2002, 2:14 a.m.

I have come across several HP-75 over the past couple of years that were mounted with the Expansion Pod.

All of these have had the speaker removed, and wires run out to an earphone connector.

Now, I have taken the speakers out of trashed 75 and replaced the speaker in 75 that were previously installed inside the pods.

In all of these, there is a background noise (hiss) after the beep command is executed. This noise is continually present, after the beep. Only powering down and then back on, turns it off. I have seen this in almost every case where I replaced the speaker (one from a trashed 75).

Has anyone else experienced this?

Was there some other modification that was done for these expansion pod that requires more than just replacing the speaker? What is causing this background noise? Could it be a damaged component inside the 75 as a result of using the earphone connection?

Thanks

Re: HP-75 Beeper Question

Message #2 Posted by [Raymond Hellstern](#) on 13 Dec 2002, 7:15 a.m.,
in response to message #1 by Mike

No answer to your question, but another one: Could it be that you placed the same question a few days ago?

Raymond

Why?

*Message #3 Posted by [Mike](#) on 14 Dec 2002, 5:15 p.m.,
in response to message #2 by Raymond Hellstern*

Why do you answer questions with non-responsive replies? Just curious. Are you really interested if I posted this before?

Re: Why?

*Message #4 Posted by [Emmanuel, Normandy \(France\)](#) on 15 Dec 2002, 4:50 a.m.,
in response to message #3 by Mike*

Dear Mike,
I have somewhere the HP-75 Service Manual.
I will look for in order to solve your problem.
Yours.
Emmanuel

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP future RPN?

Message #1 Posted by [Tony David Potter](#) on 12 Dec 2002, 11:27 p.m.

Please take this with a grain of salt.

One of the students who frequents my website gave me the following e-mail in response to a repair request for a 32SII:

Hello,

Unfortunately, it is not a repairable calculator. There is a website that currently still has some of the 32SII's: www.samsoncables.com, but he also is selling them at an inflated price.

You will be glad to hear that we should be coming out with a new scientific RPN calculator sometime next year. Hopefully it will be comparable to the 32SII.

It is important to me that I resolve your issue. If you need further assistance, please reply to this message. I will be happy to help you personally.

Sincerely, Amanda HP Americas Consumer e-Support

I'm currently trying to look in on this, so mail in questions regarding your HP-32SII with "broken screens" or "nonworking buttons" and see if we can get a bit more information about this new HP RPN calculator

Re: HP future RPN?

Message #2 Posted by [Frank](#) on 13 Dec 2002, 8:11 a.m.,
in response to message #1 by Tony David Potter

Putting this with Dave's request for info it is beginning to sound like a reality for a new scientific RPN hopefully Programmable (Graphics again, I wonder? or two line!) Wonder if the major retailers will stock? I noticed that the Office supply stores are up to \$79.xx on the HP12C since Wal*Mart discontinued HP's for the 3rd or 4th time. Frank

Re: HP future RPN?

Message #3 Posted by [John Ioannidis](#) on 13 Dec 2002, 5:14 p.m.,
in response to message #1 by Tony David Potter

So now we know who one of the reptiles who have been inflating the hp32sii prices is.

Re: HP future RPN?

Message #4 Posted by [db\(martinez,california\)](#) on 13 Dec 2002, 8:56 p.m.,
in response to message #3 by John Ioannidis

john;

this is just my opinion on your post and i would like to hear what you have to say on mine.

i think that since samson cables is a regular business one would expect them to sell the rest of their stock for what the market will bear. i am assuming here that they did not talk hp out of all the remaining units and then jack up the price once they had the market cornered. remember that we lost educalc and all their services not because jim & co lost interest but because they needed to make enough money to eat.

i guess what you class as a reptile is someone who jacks up the price by two or three hundred percent. in my humble opinion, i would class him as a parasite not for making a profit but for sneaking in between the producer and the user, buying every 32 or 42 or whatever he can find and then and extracting his pound of flesh while providing nothing. is part of what got at you that a lot of the same people would have bought the same calcs anyway - and a lot cheaper? if so then me too.

this is of course just human nature - for a lot of humans. you and me don't have to like it though.

- d

Re: HP future RPN?

Message #5 Posted by [James M. Prange](#) on 14 Dec 2002, 2:09 a.m.,
in response to message #3 by John Ioannidis

In my opinion the cause of the inflation of the prices of these calculators is simply that many people are now willing to pay the inflated prices. Should someone (dealer or not) who happens to have the calculators available for sale sell them at the former price? What price would you ask for one?

Regards,
James

32Sii high prices

Message #6 Posted by [Randy Sloyer](#) on 14 Dec 2002, 8:34 a.m.,
in response to message #5 by James M. Prange

It is a business for some, not a hobby. Just because the guy in question is a HP distributor, it does not mean he has an unlimited supply of 32sii's. If you do a eBay search on the buyer "cedmunds", you will find the supply. Yes, they buy (snipe, actually) them on eBay and sell them from their web site as new and refurbished at X2 or more markup.

Supply and Demand. Plain and Simple. Capitalism and the free market at work. Something wrong with that? I don't think it fair to vilify someone who simply recognizes a temporary opportunity.

If you have been following prices, you should know that the 32Sii average price has fallen quite a bit lately. Sure the NIB blacks still fetch a lot of money (Why?? Just because they are new ? IMO it doesn't make them better, give me an old beat up brown Singapore model any day...). I think you will see the price point plummet if HP does a formal announcement.

Re: 32Sii high prices

*Message #7 Posted by [R Lion](#) on 14 Dec 2002, 9:13 a.m.,
in response to message #6 by Randy Sloyer*

I feel lucky in some way: last weekend I found "the last" 32sII (silver bezel:-) for 78 euros in a shop. Although I use daily a 48Gx and a 15C I couldn't resist... I hope these rumours about new good RPN models come truth

Raul

Re: HP future RPN?

*Message #8 Posted by [Eddie Mabillard \(Switzerland\)](#) on 15 Dec 2002, 3:50 p.m.,
in response to message #1 by Tony David Potter*

I'd like to see new RPN calculators, for the basic model, it should be designed like the ten's serie, and the capabilities of the 42, if something like this comes out I would never again be trapped, and I buy ten at the begining, and everybody reading the museum site should be RPN missionaries and make a lot of new disciples in order to put pressure on Carli that we will never be caught again.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: HP-41 bat holder

Message #1 Posted by [David Smith](#) on 12 Dec 2002, 5:37 p.m.

Battery holders have become just about impossible to find. Your best bet is to find a dead calculator with one on Ebay. Expect to pay over \$40 for a dead, corroded, HP41C... make sure the battery holder springs have not dissolved.

Occasionally you find the rechargeable battery packs for sale on Ebay... for big bucks. You might want to avoid them if they have not been rebuilt with new cells. The proper cells are no longer made and are pretty much impossible to find also. With a little shimming, etc you can rebuild them with nickle metal hydride cells or 1/3AAA NiCad cells.

Re: HP-41 bat holder

Message #2 Posted by [Steve \(Australia\)](#) on 12 Dec 2002, 7:33 p.m.,
in response to message #1 by David Smith

> With a little shimming, etc you can rebuild them
> with nickle metal hydride cells or 1/3AAA NiCad cells

Or with a lot of effort and surgery you can replace them with 1/3 AA.

NB This is not recommended for anyone who wants their battery pack to look "as new" :-)

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

telnet in ksh script

Message #1 Posted by [david](#) on 12 Dec 2002, 12:18 p.m.

Hi people,

I need to execute a ksh file in a server A from a ksh file which is located in a server B.

I have tried to make a telnet from server B to server A inside the ksh but I have not succeeded.

Anyone can help me?

TIA,

David

Re: telnet in ksh script

Message #2 Posted by [Math Geek](#) on 12 Dec 2002, 10:08 p.m.,
in response to message #1 by david

Wrong forum, son.

But to not be too negative: isn't there a "rsh" command or something similar for "remote shell"?
A good UNIX reference would be helpful, something like O'Reilly's "lemur" book.

Re: telnet in ksh script

*Message #3 Posted by [Les Bell \[Sydney\]](#) on 13 Dec 2002, 3:29 a.m.,
in response to message #2 by Math Geek*

Good suggestion, but rsh, rlogin and telnet are all deprecated these days because they pass the user's password over an internet as plain text, which can be sniffed by Wiley Hacker. . .

To the original poster: check out the ssh command on your system. If you don't want to have to enter passwords as the script executes, then you should also investigate the ssh-agent command. There's a good O'Reilly book on this, too - the "snail" book.

Best,

--- Les Bell, CISSP

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Help looking for...

Message #1 Posted by [R Lion](#) on 12 Dec 2002, 12:01 p.m.

I know there are some sellers in the web selling hp vinyl cases... but I don't remember them. Can anyone help me? I'm interested in one like the 32S case at reasonable price (not ebay price :-)

Raul

Re: Help looking for...

Message #2 Posted by [R Lion](#) on 12 Dec 2002, 2:11 p.m.,
in response to message #1 by R Lion

Thanks to Ron Ross for his super-speed offering of send me one... Raul

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Electroluminescent Backlighting for Calculator Displays

Message #1 Posted by [Paul Brogger](#) on 12 Dec 2002, 9:32 a.m.

[Here](#) is a description of a backlight modification to a TI-89 (graphic) calculator. Looks pretty cool.

I wonder if any of the -48 or -49 users (or those of any HP LCD calculator, for that matter) might be interested. Would someone hardware-aware comment on whether such an approach should be feasible on the HP's?

Thanks . . .

Re: Electroluminescent Backlighting for Calculator Displays

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 12 Dec 2002, 7:52 p.m.,
in response to message #1 by Paul Brogger

Hi;

I saw the EL Panel page and... I don't know, using an external power converter (EL backlight needs a bit more than a few volts to run) with separate batteries. I saw the TI86 photo and I wondered what was that small connector (left side, between two corners). After seeing the EL Panel page, I understood that would be the power connector. It means we also have to cut calculator's case so we can plug external P.S. for the EL backlight.

I have a disassembled HP48 in hands right now, and I am almost sure there is enough space between the HP48 LCD and the mainboard to insert the EL panel. What worries me is that the metal chassis closes both sides of the LCD, so it must be also cut off to allow power supply connector to be accessed.

Any ideas?

Re: Electroluminescent Backlighting for Calculator Displays

Message #3 Posted by [Katie Wasserman](#) on 12 Dec 2002, 7:57 p.m.,
in response to message #1 by Paul Brogger

Daniel Hertrich (and others) have developed a backlight for the HP-200LX that will likely be available in kit form shortly. Read about it here:

<http://www.daniel-hertrich.de/backlight/>

This is a better solution...

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 12 Dec 2002, 10:17 p.m.,
in response to message #3 by Katie Wasserman

Hi, Katie;

this is, indeed, a better solution. I'm not sure about the specs for both DC-DC converters, but I believe Daniel is a lot closer to portable equipment (how long would HP48's batteries last with an EL backlight?)

Cheers.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

looking for BERND BERNSTEINER from AUSTRIA!!!

Message #1 Posted by [Erwin](#) on 12 Dec 2002, 5:46 a.m.

Hello Bernd,

Your book has arrived, and my computer has crashed!!! All data lost, including yours. I hope you will read this message at some point in time. Please contact me so i can pay you for the book!

Best regards,

Erwin

BEWARE!!!: I also have a NEW EMAIL adress!!!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

PS...

Message #1 Posted by [Sean McNamee](#) on 12 Dec 2002, 2:09 a.m.

Does 'Synthetic Programming' apply to the 15c?

Re: PS...

Message #2 Posted by [Ex-PPC member](#) on 12 Dec 2002, 6:04 a.m.,
in response to message #1 by Sean McNamee

<http://www.jlw.com/~woolsey/15Cnotes.html>

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

15c CPU

Message #1 Posted by [Sean McNamee](#) on 12 Dec 2002, 2:07 a.m.

On the MoHPC's 15C page, there is a link to "Technology and Packing", which then takes you to a 1x series page. This page in turn contains a link to CPU info -> Does this page contain the information for the 15C?? It looks like it does, but it doesn't actually mention the 1x series at all on this page. The reason I'm asking is I'd like to hack the 15c a bit. Has anybody done this?

Re: 15c CPU

Message #2 Posted by [Ex-PPC member](#) on 12 Dec 2002, 6:09 a.m.,
in response to message #1 by Sean McNamee

<http://www.finseth.com/~fin/hpdata/hp15c.html>

Re: 15c CPU

Message #3 Posted by [Sean McNamee](#) on 12 Dec 2002, 7:01 a.m.,
in response to message #2 by Ex-PPC member

Ok... So what's a "1LE2 SACAJAWEA" ? Google doesn't come up with anything - except a newsgroups reference to it being related to a BERT??? What's a BERT???

Re: 15c CPU

Message #4 Posted by [Raymond Hellstern](#) on 12 Dec 2002, 7:51 a.m.,
in response to message #3 by Sean McNamee

1LE2 is the ID of the chip, SACAJAWEA is it's name, and BERT is an HP internal name for some pioneer series calculators (10B,20S,21S), so BERT may not be what you need.

Compare <http://www.hpmuseum.org/collect.htm#series> .

Another source for HP calculator internals is www.hpcalc.org , mainly for the Lewis/Clarke/Yorke chips (HP-48 & 49G), but maybe you should first read <http://www.finseth.com/~fin/hpdata/names.html>

to get an idea how it all belongs together.

Raymond

Re: 15c CPU

Message #5 Posted by [Bill Wiese](#) on 13 Dec 2002, 1:40 p.m.,
in response to message #1 by Sean McNamee

Sean...

You're gonna have a hard time hacking your 15C at the lowest firmware level. In theory it is possible. But in practice you're gonna have to rip things apart and use quite a bit of logic (maybe PLD/FPGA) to interface some other (P)ROM.

SP (synthetic programming), commonly used in 41C series, essentially is the merging of user-level commands/operands not normally possible due to error-checking, etc. for 'safety reasons'. Thru a bit of trickery, access to other user-undocumented registers, modes, etc. is possible; this does not include lowest-level CPU programming at assembler level.

Most HP calculator external RAM/ROM is 'weird' - IIRC, serialized streams, possibly a combined RAM&ROM chip, and the instructions are 10bits wide. It took quite a bit of hardware, etc to do CPU-level code development on the HP41C - and that was a machine with ports!

Bill Wiese San Jose, CA

Re: 15c CPU

*Message #6 Posted by [Sean McNamee](#) on 13 Dec 2002, 4:48 p.m.,
in response to message #5 by Bill Wiese*

Well, I was only interested in seeing what was possible at the software level. I just acquired my 15c, and I'm not really interested in tearing it apart! The question in my post about SP was because, due to the MoHPC CPU page, I wasn't sure if these two calculators shared the same CPU. I have found it's possible to browse the 15c's memory using the tricks found on <http://www.jlw.com/~woolsey/15Cnotes.html> but I was interested in getting further info (ie. whether ROM space is available through this trick, instruction format, etc...). The page does seem to indicate that it's so, but doesn't give the details. This page is the ONLY location I've seen any such details on the 15c, so I thought this would be the next logical place to try... Thanks for your response.

PS

*Message #7 Posted by [Sean McNamee](#) on 13 Dec 2002, 4:56 p.m.,
in response to message #5 by Bill Wiese*

Even if ROM isn't available, it is evident that the programmable memory is shared with the registers, so that "self-modifying" code could be entered using this trick, if the instruction format was known.

Re: PS

*Message #8 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 13 Dec 2002, 5:52 p.m.,
in response to message #7 by Sean McNamee*

Hi;

I've been using an HP15C since 1984/1985 (I'm not sure about the precise date) and I was known about this sort of information only last year, when I found the MoHP. I decided to find as much info as I can, and I'm dealing with HW.

As I find something that's interesting, I'm posting. For now, I'm delving into some programs for the HP41 series I intend to place at the Library for downloading.

Cheers.

Re: PS

Message #9 Posted by [Bill Wiese](#) on 13 Dec 2002, 8:26 p.m.,
in response to message #7 by Sean McNamee

Sean...

> Even if ROM isn't available, it is evident that the > programmable memory is shared with the registers, so > that "self-modifying" code could be entered using this > trick, if the instruction format was known.

Umm, not quite - at least at machine level. Memory space is NOT really "unified" on such calcs; machine code in ROM is in a different 'space' than data (user programs, data memory, stack, display regs) in RAM. Also, machine ROM code, IIRC, is 10 bits wide. There is no mechanism (instruction, data path, etc.) to move data in RAM/regs to ROM space to execute machine instructions.

At 'user code' level - where you program the calculator w/keystrokes - you aren't really programming per se: you're entering *data*. This data is interpreted by a machine code routine that fetches 'tokens' and calling appropriate ML routines. With a lot of handwaving you might be able to 'execute' data. The whole premise of SP is to form normally unpairable commands/operands by using tricks - entering data, then fooling the machine and making it think it's program steps.

Bill Wiese San Jose, CA

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: HP-41 bat holder

Message #1 Posted by [db\(martinez,california\)](#) on 11 Dec 2002, 11:34 p.m.

if that is the double extended memory module that s.o.s. made and educalc sold then you will need a cx or an extended functions mod on your c.

can you really switch an extended memory module fast enough to not loose data?

Re: HP-41 bat holder

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 12 Dec 2002, 12:43 a.m.,
in response to message #1 by db(martinez,california)

Hi;

the worst is not to switch the X-mem modules. If you have two 41C or CV, you must switch the X-Functions, too. And keep the same port position. I know because I have already tried this maneuver.

If you have a CX, you MUST have the first X-Mem's 124 registers completely filled with one or more files, and none of this files should have any bytes beyond the 124 first X-Mem registers. I cannot say you should keep the same information on both basic 124 registers of each X-Functions, but I'll try this configuration later and post results. If, by any reason, one single byte is left OR loose beyond the first 124 extended registers, all remaining information in the X-Mem Module is lost. This means the very first byte of the first X-Mem to be switched must be the very first byte of the first file IN THIS X-Mem module. I also tried this maneuver with success.

Anyway, as 'db' mentioned (Hi, db!), there is no way to get any information from or to any X-Mem module in an HP41C/CV (even an Educalc double) without an X-Functions module. I am not sure HEPAX, or CCD, or HPPC or any other "not regular" HP41 module will have this functionality.

Cheers.

bat holder

*Message #3 Posted by [Michel Beaulieu](#) on 12 Dec 2002, 11:56 a.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Thanks, i tried it and nothing to do with that module in a C. What about the batt holder?
where to find one???

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

In a parallel universe -- far, far away . . .

Message #1 Posted by [Paul Brogger](#) on 11 Dec 2002, 11:04 a.m.

I was fooling with my old slide rule yesterday, pondering its many scales and fine craftsmanship when it struck me:

In some quirky land and time, where/when binary mechanical computing had been developed to a fine art, but the development of pocket calculators was all but precluded by limited knowlege of electronics, one might find a slide rule with an "H" scale for hexadecimal conversions . . .

. . . and I want one!

Re: In a parallel universe -- far, far away . . .

Message #2 Posted by [Masao Kinoshita](#) on 11 Dec 2002, 12:13 p.m.,
in response to message #1 by Paul Brogger

In a galaxy -- far, far away...

K+E also had a symbolic slide rule called the Analon. It would figure out equations. I had one, but gave it to Paul Ceruzzi, of the Smithsonian Institution, years ago (to match his Duplex Decitrig Log Log).

Re: In a parallel universe -- far, far away . . .

*Message #3 Posted by [John Mosand](#) on 11 Dec 2002, 3:35 p.m.,
in response to message #2 by Masao Kinoshita*

The Analon slide rule wouldn't solve regular numeric equations, however. It was made to demonstrate relationships in physics, like $\text{resistance} \times \text{charge} / \text{induction} = \text{current}$ (with symbols). Quite useless in practical terms :-)

Otherwise, slide rules can be remarkably versatile. The most advanced ones had things like eight LogLog scales, incl. negatives - hyperbolic trig scales - scales for special purposes, being a kind of 'programs', e.g. $1 - \cos$, sincos , $\cos^2$ and $1/\tan(a/2)$ for surveying - etc. etc.

Some of these features are actually faster and easier to use than a calculator. And some operators still use slide rules, especially in the open field.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP33C - press #7 but get #4

Message #1 Posted by [Jeffrey A. Walter](#) on 11 Dec 2002, 10:48 a.m.

I recently spilled some coffee on my calculator. I disassembled and cleaned it with some alcohol.

When I ... press #7 I get a #4 press #8 I get a #5 press #9 I get a #6

I was thinking that it might still be wet under the keypads on the circuit board. Would baking the circuit board at a low temp dry it out if that is the problem?

Re: HP33C - press #7 but get #4

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 11 Dec 2002, 12:59 p.m.,
in response to message #1 by Jeffrey A. Walter

Hi;

do these keys also generate double touch?

I want to dare another question, but I am almost sure you're gonna blame for that: did you disassembled the keyboard so you could clean the calcualtor? If so, (God help me!) are there any chances you build... the keys... in... say... dif... ferent... positions?

If not, please, forgive the questions. It's so obvious that they are in the same column and neighborg lines that I could not help myself asking you about it. The numeric keyboard should look like this:

[7]	[8]	[9]
[4]	[5]	[6]
[1]	[2]	[3]
[0]	[.]	[R/S]

As you supposedly rebuilt the keys facing the back of the front half ot the calcualtor, MAYBE you reversed the order (I once did it, but I saw what I'd done before closing the calculator).

If everything is fine, I cannot understand the error, unless you have a short-circuit in the keyboard lines (but I cannot figure out a way it would reverse both lines of the keyboard).

Best regards.

Ooops! I think I should delete previous post, but...

*Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 11 Dec 2002, 5:08 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Hi, Jeffrey;

I assumed the keys have reversed their functions, but I read your post again and you mention a one-way changing, say, you get 4 when pressing [7], BUT you probably get 7 when you press [7], right?

If so, by some reason, there is a short-circuit in two lines of the keyboard: one for the [+] [4] [5] [6] row and the other for the [-] [7] [8] [9] row. In time: please, check for [-]: do you get addition when you try to perform subtraction, too?

Sorry for my previous post; I was about to delete it, but I'll keep it to remind myself I also write silliness, too. Well, at least not everytime.

Cheers.

Re: HP33C - press #7 but get #4

*Message #4 Posted by [David Smith](#) on 11 Dec 2002, 6:22 p.m.,
in response to message #1 by Jeffrey A. Walter*

This is a very common problem in spice and woodstock machines that have some kind of contamination (often invisible) on the keyboard. If you have removed all the gunk, it should go away once it dries out. A low oven (say 120-140F) overnight is a good start for drying out.

On woodstock machines I have seen this when battery spewage gets into the keyboard holes. Often the keys have a dull crunchy feeling when you press them. Try soaking the keyboard in vinegar for a few minutes until any bubbling stops, rinse VERY well, shake it very vigorously, blow with canned air, wipe the keyboard dry, repeat the shake, blow, dry cycle until no more water appears, dry in a low oven. Presto... nice, clean, snappy keys. If any keys have bad contacts clean them through the holes in the keyboard with a tiny wire brush made of three wire brush bristles twisted together and trimmed square.

Re: HP33C - press #7 but get #4

Message #5 Posted by [Jeffrey A. Walter](#) on 19 Dec 2002, 9:46 a.m.,
in response to message #4 by David Smith

I took everything apart and cleaned it thoroughly. I dried it in an oven overnight. However, I still have the same problem. Could I have shorted out something in the chip when I turned the calculator on when it was wet? If so, can I buy a replacement chip for my HP-33C?

Re: HP33C - press #7 but get #4

Message #6 Posted by [David Smith](#) on 19 Dec 2002, 1:40 p.m.,
in response to message #5 by Jeffrey A. Walter

I am still pretty sure that the problem is a contaminated keyboard. I have seen the exact problem many times and this was always the cause. Sometimes the mystery gunk gets under a key dome and shorts out the etches there where you cannot see them. I use 91% isopropyl alcohol to clean my internal circuitry with. Keep it off the case and display lens.

The only source of chips is a scavenged machine.

Re: HP33C - press #7 but get #4

Message #7 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 19 Dec 2002, 3:23 p.m.,
in response to message #6 by David Smith

Hi;

there are two basic types of Spices, as for the inner "guts" (building "blocks", if I may). One type, the one wherew IC's and LED assy is just "sanwiched" without solder, is a lot easier to clean than the other, with soldered IC's. In fact, I have cleand some spices of the "sandwich" type and I have an HP31E that is not this type (I did not disassembled its keyboard "yet").

David, do you have any experience on disassembled the keyboard of soldered-type spices? Are they easy to deal with or not?

Thank you.

Re: HP33C - press #7 but get #4

Message #8 Posted by [David Smith](#) on 20 Dec 2002, 4:46 p.m.,
in response to message #7 by Vieira, Luiz C. (Brazil)

The soldered keyboards have the metal disks that are held down by a big piece of adhesive tape (like the HP41). I don't think there is an easy way to fix them. They do have the little holes under each key where you can do the wire brush trick. Unfortunately, the 4 and 7 holes are under the 40 pin chip. As a last resort effort you could try ultrasonic cleaning followed by a long, low temperature oven dry. Hopefully the adhesive tape will not be damaged by the bath.

Re: HP33C - press #7 but get #4

Message #9 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 20 Dec 2002, 11:03 p.m.,
in response to message #8 by David Smith

Hi;

as you mentioned, MAYBE there is still some gunk right below these keys, and as we have two cooper trails shared with [4], [5], [6] and [7], [8], [9] rows, chances are the problem is under the main IC.

Tips?

Re: HP33C - press #7 but get #4

Message #10 Posted by [David Smith](#) on 21 Dec 2002, 9:29 a.m.,
in response to message #9 by Vieira, Luiz C. (Brazil)

I have not followed the traces, but yes it could be under the chip. It is interesting that in the woodstock machines that show this error that the 4/7 combo is the most common followed by the 6/9.

Re: HP33C - press #7 but get #4

*Message #11 Posted by [Jeffrey A. Walter](#) on 27 Dec 2002, 2:52 p.m.,
in response to message #10 by David Smith*

It's fixed!

I disassembled the calculator [again] today. I peeled the clear adhesive tape with the with the metal spring dots off of the circuit board. I used an acid brush with a water & dish soap solution to gently scrub both sides of the board. I rinsed the board with IPA. I carefully inspected the keypad areas on the board to ensure that they were not covered with any of the residual sticky adhesive. I dried the board for 20 minutes in a low temperature oven [50C]. I also carefully cleaned the metal dots on the clear adhesive tape with IPA and a cotton swab. I didn't put the adhesive tape in the oven for I feared that it might shrink. I reassembled the calculator and everything worked just fine. Thank you Vieira & David for the suggestions.

I do have another question - I have been using 2 AA alkaline batteries connected in series to power the calculator. The supply voltage of the 2 AA batteries is 3.0 volts. Everything seems to work OK. I know that the original battery pack specification was 2.5 volts. Is there a risk of damaging anything with the 3.0 volts supplied by the 2 AA batteries?

Re: HP33C - press #7 but get #4

*Message #12 Posted by [David Smith](#) on 27 Dec 2002, 4:02 p.m.,
in response to message #11 by Jeffrey A. Walter*

Oooh, a lot of risky work there to get it running properly. I'm glad the adhesive remained useable and did not tear, etc.

A lot of people have used alkaline cells in the machines without problem. Just remember to never plug it into the charger.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Hp 12 c

Message #1 Posted by [Steve Lawson](#) on 11 Dec 2002, 9:45 a.m.

I installed new batteries in my HP 12 C and now a small 'c' shows in the lower right hand part of the screen and the numeric display shows one thousand and fifty dollars to look like: 1.050,00

How do I change it back??????

Re: Hp 12 c

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 11 Dec 2002, 9:53 a.m.,
in response to message #1 by Steve Lawson

Hi;

to remove the small "c" use the sequence: [STO][EEX]. It toggles the 'c' on and off (odd periods in compound interest TVM being considered or not).

To change dot for period - say, 1.050,00 to 1,050.00 - switch calculator OFF, press and hold [.] key, while [.] is pressed switch it to ON, then release [.] key. This also toggles periods to dot

It should work. %

Re: Hp 12 c

*Message #3 Posted by [Dorsey Harrington](#) on 11 Dec 2002, 10:57 a.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

I can't believe it! The first time I used this thread, I found the answer in the first message I opened! How often does that happen?

Having purchased my HP-12C in the mid-80s, it laid dormant for most of the 90's until I very recently replaced the batteries, at which time, it came up with the comma as the thousands separator. Having search high and low to no avail for the original manual (I have the box and case, but no manual - go figure), I used it in that state until a few minutes ago.

Thank you very much for supplying the answer to this vexing problem.

Re: Hp 12 c

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 11 Dec 2002, 9:53 a.m.,
in response to message #1 by Steve Lawson*

Hi;

to remove the snmall "c" use the sequence: [STO][EEX]. It toggles the 'c' on and off (odd periods in compund interest TVM being considered or not).

Tp change dot for period - say, 1.050,00 to 1,050.00 - switch calculator OFF, press and hold [.] key, while [.] is pressed switch it to ON, then release [.] key. This also toggles periods to dot

It should work.

Cheers.

Same message twice

Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 11 Dec 2002, 9:58 a.m.,
in response to message #1 by Steve Lawson

Sorry, Folks;

sometimes it seems something weird happens and messages appear in double. The first one is always part of the complete message, that appears in second.

I always try to remove the first, incomplete one, but delete passowrd never matches and both remain.

Hope you don't mind...

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

hp 01 calculator watch

Message #1 Posted by [walter](#) on 11 Dec 2002, 9:20 a.m.

please help me !!

i cant set the time and the date from my hp 01 ! i have the description and follow it but it doesnt work . is there a special trick or is it possible that the watch doesnt work anymore. i dont know - please help me hp fans !!

thanks a lot in advance best regards walter

Re: hp 01 calculator watch

Message #2 Posted by [Andreas Stockburger \(EU\)](#) on 11 Dec 2002, 3:22 p.m.,
in response to message #1 by walter

Hi,

what does this mean: "I can set the time and the date...but it doesnt work "

Is there some "life" in your clock or is it dead ?

Did you check the battery-pack ?

Best regards

Andreas

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Maintenace questions: Spice (HP31E)

Message #1 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 11 Dec 2002, 9:17 a.m.

Hi;

I've finally recovered an HP31E. It works fine, but does not charge batteries, although charger is O.K. (output is 9VAC).

I suspect the flex circuit that connects both PCB's (main and power supply) and batteries/charger contacts is not O.K.; I had a lot of trouble rebuilding what I could in this flex.

What do you think: replace the entire flex for flat cables OR try to locate the problem and fix it? The flex is a lot sensitive (as many users know) and it was not soldered in the power supply board when I was given the calculator. I think previous owner allowed someone to try to fix this very problem, and calculator stopped working.

If I remove the flex circuit entirely and solder a flat cable, will it alter the value of the calculator as a collectible? I intend trading it for HP41 related stuff, but I'll not hide this fact. In other hand, the presumable buyer/trader may claim this is a change in original specs, and doing so, he/she may try to reduce this HP31E value. I'm not thinking of money, just trading; anyway, I'd like it to be fair.

Any suggestions? Where to start solving this problem?

Thanks for any help.

Re: Maintenance questions: Spice (HP31E)

Message #2 Posted by [David Smith](#) on 11 Dec 2002, 6:15 p.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

I have never had a Spice flex cable that could be repaired properly and permanently. The metal traces in them become brittle and corroded. You can fix a break but another one will take it's place.

I have fixed NUMEROUS spice machines by running small stranded wire from the battery contact board to the appropriate solder joints on the power supply board. Never had a failure in one either.

Yes, as a true collectible it could affect the value, but not nearly as much as a dead machine. Since the mod is totally internal to the machine and not detectible unless it is opened up, it should not be much of a problem. Always best to disclose it though. Somebody who wants a useable machine may even prefer it... I suspect all spice flex cables will eventually fail... I doubt the wire fix ever will.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-35 Documentation

Message #1 Posted by [Fred Lusk \(CA\)](#) on 10 Dec 2002, 10:11 p.m.

Greetings...this is long, so please bear with me...

Does anyone out there in MoHPC-land happen to have a copy of an old internal HP document titled (I think) "Error Analysis for the HP-35"??? If so, I would like to get a copy of it - scanned or on paper. And I'm sure the Museum would like a copy too. As I remember, the document covers the accuracy of each mathematical function down to the last decimal place, and shows the results with numerous graphs. This document is probably the basis for the old HP Journal article "Algorithms and Accuracy in the HP-35." [Dave Hicks - BTW, I tried the link to that article and it appears that HP no longer has it available on their web site.]

Here's the background story to my request: about January 1973 (when I was in junior high school) my father's long-awaited HP-35 finally arrived. He was teaching high school chemistry at the time. Because of his math and engineering background, he was interested in how the little beast did its internal calculations. He contacted the local HP rep (they used to have an office here) for information and was rewarded with the document I am asking about. He recently gave me the calculator (no batteries, but still works on AC) and I asked him if he still had the "Error Analysis." He has searched and can't find it. I would like it both for my collection and for a short article I plan to write for my company's internal quality newsletter.

The part that most interests me for my article is the part of the "Error Analysis" that deals with HP's implementation of the "Tests for Reasonableness," which are the simple rules for determining how many decimal places belong in an answer. Thus, for addition and subtraction, the result cannot have more decimal places than the input number with the most decimal places, and for multiplication, the result cannot have more decimal places than the sum of the number of decimal places of the input numbers.

I'll give y'all a hint of what my article will be about because it may save you some grief in using a personal computer for calculations. I won't bore you yet with how I found this (I've bored you enough as it is), but try this in Excel: enter the equation $=100-99.99-0.01$ into a cell and hit Enter. Instead of ZERO, you should see 5.1156995306556E-15 (if you don't see it, format the cell to General and widen the column). As you can imagine, this can ruin a perfectly good test for ZERO,

etc. I have a whole list of similar equations: most produce ZERO, but many don't...shades of the Pentium bug. I have tried this on everything from a 286 on up and in many different software packages, of which only Q&A (the old DOS database) and Word for Windows 1 got the right answer. Q&A had an advantage because it was limited to 7 or 8 decimal places. I even called Mathcad tech support several years ago and asked why they didn't implement the "Tests for Reasonableness" since Intel didn't see fit to do it. I mentioned that HP has been doing it for years. Their recommendation was to use the various rounding functions to fix the problem. I knew that already.

I've done enough damage, so I'll quit now. Thanks for hanging on.

Re: HP-35 Documentation

*Message #2 Posted by [Bill Wiese](#) on 10 Dec 2002, 11:52 p.m.,
in response to message #1 by Fred Lusk (CA)*

Fred...

Your "100-99.99-0.01" example shows exactly why HP and other calculators use BCD floating-point math and not binary floating-point math. It is also why many financial software packages use BCD math, and why BCD math libraries are available for some compilers (and BCD support is built into COBOL, for example).

Negative powers of 10 (.1, .01, .001...) are not exactly representable as a finite series of binary digits and are in fact the binary equivalent of 'repeating decimals' (like $1/3=0.3333333333...$) Since Excel is dealing with numbers and not symbols (not knowing this is really 0.0) there are some slight errors in the least significant bit in the binary floating point expression of 99.99 and 0.01. (100 can be expressed exactly.) The odd 5.11×10^{-15} answer is just showing these numbers weren't expressed exactly (because they CAN'T be). In some cases rounding strategies in midst of calculation can be used to avoid this.

The areas of concern for accuracy for HP calcs wouldn't've been algorithms for +,-,* or / functions - these are known and predictable, and unless there is a bug they work to their specified limits (with some behavior determined by rounding and truncation strategies). Instead they are really interested in performance on log/trig functions and the behavior of the CORDIC-derived algorithms. (You might remember that on the HP41C, new functions $\text{LN}(1+x)$ and $e^{(1+x)}$ were offered because these allowed small values near 1 to have log/antilog performed on them more accurately since a different series approach was used.) Behavior for small and large argument values has to be tested.

With rare exceptions (like the Pentium FDIV bug) hardware & related microcode runs fine; it's just that the math runs out at extreme ranges, so characterization needs to be done.

Floating-point units on big CPUs sometimes use special polynomial approximations (Chebyshev, rational expressions, etc) for speed (since CORDIC is fundamentally serial in nature). The function is approximated over a very small range and transformations are performed on argument & output so that the algorithm is always running in a range for which it's optimized. Care is taken so that pre- processing argument or postprocessing result for this algorithm does not add additional error. One goal for many designs in fact is that an N-bit wide result should be achieved with N-bit (or N+1 bit) wide calculation (instead of say N+5 - so error modelling of internal processes is very important.

If really interested, you might wanna check "Software Manual for the Elementary Functions" by Cody & Waite and "Elementary Functions" by J.M Muller to get a bit of info on such concerns.

Bill Wiese San Jose, CA

Re: HP-35 Documentation

*Message #3 Posted by [Fred Lusk \(CA\)](#) on 11 Dec 2002, 4:40 p.m.,
in response to message #2 by Bill Wiese*

Bill...

Thanks for the detailed explanation. I already knew a few parts of what you wrote, but certainly not all. For instance, I knew about computers using binary math. But, since I'm not a computer science guy, what is the "BCD" in BCD floating-point math. Also, what is "CORDIC"?

I remember that the "Error Analysis" document that I am trying to find included a discussion of the reasonableness of the result (including number of decimal places as I mentioned in my original post) and I think also a discussion of how they implemented the rules. Do you know if HP implement the rules by **using** BCD floating-point math, or did they implement them **after** using BCD math to generate a "preliminary" result?

Now I'll rant for a second, but not at you! I see no excuse for Intel, et al, not to have implemented the reasonableness rules, regardless of the method used to calculate the result. And given the failure of the chip makers to deal with this problem, I see again no excuse for the programmers of math-focused software to have ignored this. In a high-level computer language, it is trivial to count the number of decimal places in the inputs, then use the rules to govern the number of decimal places in the result (in fact, I can do this on an HP-41CX even though it is not necessary on an HP). I suspect it is also trivial at the machine level. Because I know about this problem, I know how to work around it by making use of the appropriate rounding functions in Excel and Mathcad. Unfortunately, I am certain that the vast majority of spreadsheet users do not know about this problem, and no doubt some of

them are unaware that their tests for zero, etc. may be returning incorrect results.

Fred

Re: HP-35 Documentation

*Message #4 Posted by [David Smith](#) on 11 Dec 2002, 6:09 p.m.,
in response to message #3 by Fred Lusk (CA)*

BCD is binary coded decimal. Basically each decimal digit (0-9) is encoded into 4 bit chunks. The arithmetic involves unpacking each digit one at a time, doing the arithmetic on the digit and repacking it into the result. It is very slow and inefficient in terms of memory usage. It's main advantage is it works like "human" arithmetic and gives answers like a pencil and paper calculation would.

As far as Intel's use of floating point arithmetic, this is a standard world wide. Computer science courses are taught on the subject. Any CS student learns about floating point roundoffs and approximations. (try $1 / (1/7)$ on any calculator). It is just part of life with computers. Some spreadsheet programs have a flag you can set or a numeric format for forcing BCD operations. Some do it when you specify a field as "currency" for example.

Re: HP-35 Documentation

*Message #5 Posted by [GE \(France\)](#) on 12 Dec 2002, 4:18 a.m.,
in response to message #3 by Fred Lusk (CA)*

Regarding your rant, there is one small point you didn't fully notice.

Say you give your number cruncher the value 1.4 and you want that it divides it by 3. We are in trouble.

The problem is that the machine doesn't know if 1.4 is "one point four with one known decimal place" OR -for instance- "one point four zero zero zero zero with five known decimal places". To correct this, one should give every number as a couple (value, precision) and we know this is not what happens nowadays.

So the machine conducts its calculations to its full precision, and the responsibility to sort things out falls back on the user...

Note that I wouldn't like to use a calculator which would assume that zeroes are "unknown values".

Not a perfect world...

Re: HP-35 Documentation

*Message #6 Posted by [Fred Lusk \(CA\)](#) on 13 Dec 2002, 1:47 a.m.,
in response to message #5 by GE (France)*

GE...

Thanks for your comments. Regarding your example, division is a tougher nut to crack, and I'm not too concerned with division anyway because some division results go on forever! However, for addition, subtraction, and multiplication it is a trivial matter to determine the correct number of decimal places for a result by looking at the inputs. HP correctly handled this in the HP-35 three decades ago (they documented this in the internal document I am trying to find). For me at least, it turns out that most of the conditional testing I do for zero is related to addition and subtraction. I know how to deal with these spurious digits, it just annoys me!!!

I know there is an issue with handling known trailing zeros as significant digits. As far as I know, none of the software or hardware I use actually preserves and uses input trailing zeros properly. Excel truncates them for inputs so they just disappear. Mathcad, on the other hand, keeps them for inputs, but they don't affect the precision of the result. For what I do (civil engineering), the loss of trailing zeros is less of an issue to me than a bad digit in the 15th decimal place turning zero into not zero. Thus, the way HP calculators handle these issues works very well for me. Why can't my \$2000+ PC? Acutally, you bring up a good point. I wouldn't mind seeing a significant digit mode on the next RPN calculator from HP (???) to along with FIX/SCI/ENG.

Re: HP-35 Documentation

*Message #7 Posted by [Vassilis Prevelakis](#) on 12 Dec 2002, 8:00 a.m.,
in response to message #1 by Fred Lusk (CA)*

The HP Journal Article is available in Jake Schwartz's CDROM set.

<http://www.magpage.com/~jakes>

**vp

Re: HP-35 Documentation

Message #8 Posted by [Fred Lusk \(CA\)](#) on 13 Dec 2002, 1:50 a.m.,
in response to message #7 by Vassilis Prevelakis

Vassilis...

Thanks for the link. I also got a couple of e-mails to a link on the HP web site (they have a section devoted to history and the HP-35 is one of the machines highlighted there). Here's the link:

<http://www.hp.com/hpinfo/abouthp/histnfacts/museum/personalsystems/0023/other/0023hpjournal03.pdf>

I'm still trying to find the internal HP document I mentioned in my first post. Maybe it will turn up somewhere.

Fred

Re: HP-35 Documentation

Message #9 Posted by [Dave Shaffer](#) on 13 Dec 2002, 12:41 p.m.,
in response to message #8 by Fred Lusk (CA)

I learned on day two in Fortran class (almost 40 years ago!) that you never checked for zero from a floating point calculation. You shouldn't write

```
IF( X .EQ. 0.0 ) THEN (do something)
```

You should instead perform a test of the form

```
IF( ABS(X-0.0) .LT. TOLERANCE) THEN (close enough to zero to do something)
```

where TOLERANCE is the floating point amount by which you approximate zero. For most situations, its value was not particularly critical.

I think this emphasizes what some others have said: it is not the job of the CPU to figure out what quality of results the user wants or needs, it is the responsibility of the user/programmer to code his/her requirements properly, including tests for precision, accuracy, and significant figures. Hence, I can not fault INTEL, IBM, etc. for implementing straightforward arithmetic with binary numbers of whatever length the processor handles. As also pointed out, there are many (most!) simple decimal numbers which can not be implemented exactly in binary form.

Re: HP-35 Documentation

Message #10 Posted by [Fred Lusk](#) on 14 Dec 2002, 10:28 p.m.,
in response to message #9 by Dave Shaffer

Thanks for your comments Dave. I must, however, respectfully disagree. When you (and I) took FORTRAN, we would have been classed as knowledgeable or even sophisticated computer users. I remember a similar "warning" to the one you learned. As a programmer, you are working with the computer at a more fundamental level and you are supposed be aware of these types of things, as you correctly pointed out.

On the other hand, the average computer user today is unaware that spurious digits even exist that could ruin a calculation. The expectatation is that results will be correct...witness the typical reaction several years ago when the "Pentium Bug" hit the big time. For most of us, the calculation error was of no importance, but Intel replaced a lot a chips (including mine). Of course, that was an algorithm accuracy issue and mine is not. My issue is actually more fundamental.

I must also take issue with your statement that "it is not the job of the CPU to figure out what quality of results the user wants or needs." I'm not asking the CPU to guess anything. I'm asking the CPU to give me the correct answer, and it's not. The job of the CPU is to return the correct answer within the range it is capable of...that's the quality of result I expect. And regardless of the level of precision the CPU is capable of, for addition, subtraction, and multiplication (and some division), the spurious digits create an inaccurate result, even if it is in the 15th place. $100.00 - 99.99 - 0.01$ is exactly 0 (arithmetically), not 5×10^{-15} , and the CPU can be designed to return this correct answer. Plus, the inability of the CPU to do this has real consequences. Besides, if quality of result is not important, why do we waste our time calculating so many decimal places? We could just as well go back to our slide rules. But of course we can't. We need computer precision for much of what we do today.

This is a real problem and it would be very easy for the chip makers to correct it. I don't buy the argument that just because a calculation is done using floating point techniques that implementing the simple rules I mentioned previously couldn't or shouldn't be done. HP took care of it because they knew the user expected the correct number of decimal places in the answer. Imagine the uproar if the HP-35 would have returned the same type answer my PC does. Condidence in the machine would have evaporated immediately. Computer users should expect no less.

Fred

The chip makers "corrected it" years ago

Message #11 Posted by [Dave Hicks](#) on 15 Dec 2002, 2:01 a.m.,
in response to message #10 by Fred Lusk

" This is a real problem and it would be very easy for the chip makers to correct it."

Every Intel Architecture CPU from the 8086 to the Pentium 4 has/had instructions that support BCD math. Hardly anyone uses them.

Overall though, if I needed super accurate calculations I'd trust 64 bit IEEE floating point over 10 digit BCD.

The "test for reasonableness" I use is the minimum significant figures in my measurements which are always well below what any calculator or computer can handle.

Re: The chip makers "corrected it" years ago

Message #12 Posted by [Fred Lusk \(CA\)](#) on 15 Dec 2002, 3:00 p.m.,
in response to message #11 by Dave Hicks

Dave...

Thanks for your reply. My argument is not BCD vs floating point math. Frankly, as a user, I am more interested in an accurate and precise result than how the machine actually comes up with it. A CPU housing a fast-fingered chimp with an HP-42S would be enough for me!

My argument is that regardless of the method used to make a calculation, the CPU has not finished its job if it returns 5×10^{-15} for zero. I am looking at this from the standpoint of the user, not computer science. The user has the right to expect the correct result, and with vast number of unsophisticated computer users out there, it is even more important. Even with floating point math, it should be very easy to count the number of decimal places going in so the result can be reported properly coming out. Floating point or not, we can't deny that a subtraction problem done with numbers having only two decimal places must return a result with only two decimal places. That's the reality of arithmetic. Even though numbers in the scientific/engineering world often have a tolerance, most of us properly use numbers as exact in the arithmetical sense, not with a +/- after them. I would rather the computer return the arithmetically correct result and let me worry about the tolerances.

I first ran across this problem in a practical way about twelve years ago. Back in the days when this was all my 386 could handle, I built a 1.8 MB spreadsheet to calculate an assessment spread (this is where we take the cost of a construction project and prorate it to the benefiting lots-650 in this case-in proportion to the benefit). The spreadsheet dealt only with dollars and cents and used only addition, subtraction, multiplication, and division. Although some of the division problems did result in fractional pennies, all critical amounts were rounded to the nearest penny. Part of this spreadsheet took data on cash payments from the property owners collected by the County and compared it to my own calculation. I set up an error-check column to ensure that the County hadn't messed up the Q&A data base I made for them. I hadn't included any round-offs here because all three numbers that went into each error-check calculation had been previously rounded to two decimal places or had been directly input to two decimal places. The result of all 650 calculations was supposed to be zero. Imagine my surprise when one of them wasn't. I had long since forgotten the finer points of floating point calculations. As a civil engineer, it is not something I deal with every day. In any event, it took a few minutes for me to find the one offending calculation and several hours to determine that nothing bad had actually happened to either my spreadsheet or the data from the County.

Over the years I have tested many similar equations to the one I posted. Most produce the correct results, but many do produce the spurious digits. I have also tested this on many of the programs I have used. The only two that ever got the correct answer was Q&A 4.0 (which was programmed to use only 7 or 8 decimal places) and Word for Windows 1.0.

In spite of the protests of those who know a lot more about computers than I do (and I know a fair amount for not being in the field), I still maintain that this spurious digits problem is a real problem, an easily fixable problem, and the responsibility of the chip makers and/or the programmers. My first vote, though, is that this should be corrected at the CPU level. It should never be an issue to the user.

On another note: this is one of my two favorite hangouts on the Internet (the other being Astromart) and I appreciate what you have done for the HP community here. Happy Holidays.

Fred

Re: The chip makers "corrected it" years ago

Message #13 Posted by [Dave Hicks](#) on 15 Dec 2002, 4:02 p.m.,
in response to message #12 by Fred Lusk (CA)

"The spreadsheet dealt only with dollars and cents and used only addition, subtraction, multiplication, and division."

Finance is the area where you really want to use BCD. Bankers care about pennies on Billions. For scientists that's usually noise beyond their ability to measure (let alone care.) I'm surprised that common spreadsheets like Excel don't offer BCD math as an option. The last time I worked in BCD on a computer was using PL/I on an Amdahl mainframe in the 70s. I'm really not sure why BCD seems to have become so "de-emphasized" over the years. (Maybe it just seems that way since I don't write finance software.)

Here's [a package](#) you might be interested in.

"Even with floating point math, it should be very easy to count the number of decimal places going in so the result can be reported properly coming out."

That's an interesting idea and you should probably take it to the IEEE. Since computers get data from files, networks etc. you'll want a standard to represent the significant figures. The resulting accuracy will also have to be "readable" by the software so they don't display "4.0000" when they mean "4.00".

I think you'll still have a user training problem though as most users don't expect $1/3$ to result in 0 and are likely to moan and enter 1.000000000/3.000000000 just to force the computer to give the "right" answer as they see it. The most common complaint I see from users is that the answer is not "correct" to some huge number of digits regardless of the number of digits they entered or the accuracy that their inputs really have.

" On another note: this is one of my two favorite hangouts on the Internet (the other being Astromart) and I appreciate what you have done for the HP community here. Happy Holidays."

Thank you! Happy holidays to you too.

Re: The chip makers "corrected it" years ago

*Message #14 Posted by [Ernie Malaga](#) on 15 Dec 2002, 6:43 p.m.,
in response to message #13 by Dave Hicks*

>The last time I worked in BCD on a computer was using PL/I on an Amdahl mainframe in the 70s. I'm really not sure why BCD seems to have become so "de-emphasized" over the years. (Maybe it just seems that way since I don't write finance software.)

From 1983 to 2000 I worked on IBM midrange systems -- namely, the System/36 and the AS/400. These two computers (as well as several others made by IBM) support BCD and, in fact, use it all the time. When I worked on the System/36, writing programs in RPG II, there was no such thing as floating point; every numeric variable was decimal and had a fixed number of decimal places.

I believe there's no point arguing about which is better. Like a hammer and a screwdriver, they are tools with different applications, and one should not use one instead of the other.

But it sure is nice to get 0.00 instead of 7.21E-18 or whatever.

-Ernie

What languages?

*Message #15 Posted by [Dave Hicks](#) on 17 Dec 2002, 1:29 a.m.,
in response to message #14 by Ernie Malaga*

On PCs, the hardware has support but it seems that the common compilers don't support BCD natively. IBM's Visual Age PL/I supports it but at about \$3K per copy, it's not so common.

Re: What languages?

*Message #16 Posted by [Ernie Malaga](#) on 17 Dec 2002, 5:25 a.m.,
in response to message #15 by Dave Hicks*

>On PCs, the hardware has support but it seems that the common compilers don't support BCD natively. IBM's Visual Age PL/I supports it but at about \$3K per copy, it's not so common.

The AS/400 architecture was optimized for packed-decimal numeric storage and crunching. Languages such as RPG IV, COBOL, and CL use packed-decimal numeric variables by default. I'm not positive this is also true for PL/I, C, and FORTRAN (on the same machine).

(Packed decimal format is the numeric format you get in PL/I when you declare a variable as FIXED DECIMAL(m, n).)

-Ernie

Re: What languages?

*Message #17 Posted by [Britt Snodgrass](#) on 17 Dec 2002, 12:59 p.m.,
in response to message #16 by Ernie Malaga*

Ada 95 provides decimal fixed point types. See <http://www.adaic.org/standards/95lrm/html/RM-3-5-9.html#I1703> It is also easy to implement a BCD abstract data type in Ada.

GNAT 3.15p (GNU Ada 95) is an excellent GPL open-source compiler and is available as a free download.

Britt

Thanks for the hints everyone

*Message #18 Posted by [Dave Hicks](#) on 18 Dec 2002, 1:41 a.m.,
in response to message #17 by Britt Snodgrass*

I think it's time to do a little compiler collecting. You can never have too many compilers.

Re: Thanks for the hints everyone

*Message #19 Posted by [Britt Snodgrass](#) on 18 Dec 2002, 1:51 p.m.,
in response to message #18 by Dave Hicks*

GNAT is available at <ftp://ftp.cs.nyu.edu/pub/gnat/3.15p> and <ftp://ftp.cs.nyu.edu/pub/gnat/3.15p/winnt/>.

I just noticed these aren't at the top of a Google search list. Google seems to be less helpful lately :
(

Re: Thanks for the hints everyone

*Message #20 Posted by [Les Bell \[Sydney\]](#) on 18 Dec 2002, 4:48 p.m.,
in response to message #18 by Dave Hicks*

Don't forget Digital Research's PL/I Subset G compiler. There were versions for CP/M-80, CP/M-86 and MS-DOS, which came with terrific documentation - actually a really good textbook on structured programming.

For general PL/I resources, start here: http://www.users.bigpond.com/robin_v/resource.htm

For DRI PL/I-86 for DOS, see <http://www.retroarchive.org/cpm/archive/unofficial/binary.html>

I wrote a lot of code during the early eighties with the DRI compilers, as well as the Access Manager

(really Faircom's c-Tree product) and Display Manager add-ons. Lovely stuff. . .

Finally, decimal arithmetic was also a feature of various "Business" BASIC's, starting with Gordon Eubanks' CBASIC.

Best,

--- Les [<http://www.lesbell.com.au>]

Re: What languages?

*Message #21 Posted by [Massimo Gnerucci \(Italy\)](#) on 17 Dec 2002, 7:44 a.m.,
in response to message #15 by Dave Hicks*

I remember a BCD version of the good old Turbo Pascal for DOS; back in the mid '80s.

Ooops, here it is: <http://community.borland.com/article/0,1410,20792,00.html>

Massimo

Re: Misunderstood Precision

*Message #22 Posted by [Paul Brogger](#) on 16 Dec 2002, 12:01 p.m.,
in response to message #13 by Dave Hicks*

. . . which brings to mind another example of my own naiveté: After using a slide rule for a while, I bought my HP-21. Shortly thereafter, I packed it up & shipped it to Corvallis, complaining about a "four parts per billion error in the SIN function" . . .

I got it back shortly, with a note explaining the algorithm involved and claiming that "the unit operates according to specifications."

. . . and I wonder what other simplistic notions are being formed by generations fed a diet of digital displays, video game virtual worlds, and half-hour sitcom issue-bites with their cute, tidy dénouements . . .

Re: Misunderstood Precision

Message #23 Posted by [Dave Hicks](#) on 17 Dec 2002, 1:23 a.m.,
in response to message #22 by Paul Brogger

I remember when the "Pentium Bug" was discovered - on the HP 48GX. It was a similar level of error.

Pentium Bug jokes!

Message #24 Posted by [Karl Schneider](#) on 18 Dec 2002, 1:12 a.m.,
in response to message #23 by Dave Hicks

Wasn't the Pentium bug discovered around 1993? A Yahoo search revealed a site with compilations of the resulting jokes. Remarkably clever and witty!

[Pentium Bug Jokes](#)

Here's another article I've always liked

Message #25 Posted by [Dave Hicks](#) on 18 Dec 2002, 1:51 a.m.,
in response to message #24 by Karl Schneider

Not about the flaw but...

[John Dvorak PC Computing Magazine March/April Issue](#)

Re: Computer Humor Hall of Fame

Message #26 Posted by [Paul Brogger](#) on 18 Dec 2002, 10:03 a.m.,
in response to message #23 by Dave Hicks

If I may nominate an article, one of my all-time favorites is [this](#).

Re: Computer Humor Hall of Fame

*Message #27 Posted by [db\(martinez,california\)](#) on 19 Dec 2002, 12:47 a.m.,
in response to message #26 by Paul Brogger*

paul; thanks. i needed that.

Re: The chip makers "corrected it" years ago

*Message #28 Posted by [Fred Lusk \(CA\)](#) on 19 Dec 2002, 2:12 a.m.,
in response to message #13 by Dave Hicks*

Dave...

Thanks for your reply. The TurboPower looks interesting, but I'm not sure I actually have a use for it.

I like your suggestion about taking this up with IEEE...but how, exactly, does one do this?

Regarding your 1/3 example, I don't see a need to type in all those trailing zeros. From an arithmetic (rather than scientific/engineering) standpoint, 1 and 1.000000... are identical, so the trailing zeros add nothing (pun intended). On the other hand, it would be nice to be able to specify the desired precision by adding the appropriate number of decimal places.

Fred

Re: Why the extra zeroes . . .

*Message #29 Posted by [Paul Brogger](#) on 19 Dec 2002, 11:55 a.m.,
in response to message #28 by Fred Lusk (CA)*

If I may chime in, I think Dave was suggesting that, with an "intelligent" compiler, adding the zeroes would force greater precision in the intermediate calculation, and in the internal representation of the result.

Some systems decide, for example, to use a floating-point division algorithm rather than a (quicker) integer divide, if a "." is coded after a literal dividend or divisor. For example, "1./3" (or

"1./X") might force a floating-point algorithm and result, whereas something like "1/3" might be compiled as an integer divide.

So, in such a context, the decimal point (and, perhaps, the extra zeroes) DO add "something" -- increased precision. (That was a nice pun, though!)

I thought this was what Fred was proposing

Message #30 Posted by [Dave Hicks](#) on 19 Dec 2002, 1:06 p.m.,
in response to message #29 by Paul Brogger

ie:

"Even with floating point math, it should be very easy to count the number of decimal places going in so the result can be reported properly coming out. "

Now if "1 and 1.000000... are identical" then I don't see what is being proposed, unless 1.00000/3.00000 should still be zero? Would a user have to "add something" like 1.00001/3 in order to get an answer closer to .33...?

I'm probably misunderstanding the idea.

Re: I thought this was what Fred was proposing

Message #31 Posted by [Michael F. Coyle](#) on 19 Dec 2002, 11:28 p.m.,
in response to message #30 by Dave Hicks

No, you wouldn't do 1.000001/3; the idea (if *I'm* understanding it correctly is that:

$x = 1.00/3.00$ would give 0.33 $y = 1.0000/3.0000$ would give 0.3333 etc.

Note that 0.33 and 0.3333 probably don't have exact binary representations, so I'm not sure how well this would work in practice. Also note that the test "if x=y" would fail, even though both variables "ought to be one-third".

And what result should we give for $1.00000000/3.0$?

(I had written a diatribe about how PL/I tries to do it all wrt arithmetic declarations and IMHO, sometimes causes more problems than it solves. But I've mecilfully omitted it here.)

Re: I thought this was what Fred was proposing

Message #32 Posted by [Dave Shaffer](#) on 20 Dec 2002,

10:57 a.m.,

in response to message #31 by Michael F. Coyle

re "And what result should we give for
 $1.00000000/3.0$?"

That one's easy - if you follow the rules for significant figures: it's 0.33 (2 significant figures). I berate my physics students on this subject all semester long - some of them get it, some of them don't.

As to the difference between expressions like $1.00/3.00$ and $1.00000/3.00000$ in an IF test - that's why numerical IF tests should be tests within some tolerance rather than "IS $X = Y$?" (Didn't my comment like that occur w-a-a-a-a-y back in this thread!?!?!)

Re: Precision in "IF" tests

Message #33 Posted by [Paul Brogger](#) on 20 Dec

2002, 2:04 p.m.,

in response to message #32 by Dave Shaffer

Right. I suppose one could implement this "precision-aware compare" as a subroutine or macro that first renders the two numerical arguments to the specified precision, and then compares those temporary results . . .

And, while we're at it, shouldn't a string compare take into account the languages of the values compared? (E.g., "IF 'rojo'(spn) = 'red'(eng) THEN . . ." 8-)

Significant Figures

Message #34 Posted by [Michael F. Coyle](#) on 20 Dec 2002, 2:32 p.m.,
in response to message #32 by Dave Shaffer

Mea culpa. You're right of course about
 $1.00000000/3.0 = 0.33$.

Re: HP-35 Documentation

Message #35 Posted by [Jim Cathey](#) on 19 Dec 2002, 8:43 p.m.,
in response to message #10 by Fred Lusk

The problem is that computers generally work in binary floating-point, not decimal fixed-point. They do this because of speed. Decimal math is slower, and all hardware optimizations have been done on binary math only. The inaccuracies you complain of generally come in in the decimal->binary->decimal conversion process for non-integers, combined with the nature of floating point math. It is criminal that spreadsheets don't offer a BCD math provision, but there it is. It's not the computer's fault, it is the programmer's.

While I was long aware of this, a number of years back I worked at a company that supplied computers to banks. Our prior product line was Z-80 assembler based, and used a BCD library to do all its financial math. No problem. The new line used C on a 68K, and as C had floating point, they attempted to use it for all math. What a disaster! I gave a number of lessons to some programmers at that time. My analogy was that using floating point math for financial calculations was like finding out how much money was in your wallet using calipers. Floating point (and analog measurement techniques) have an inherent plus/minus characteristic that's pretty unwelcome in financial calculations. I think the final solution for the innards of that software was to use floating-point math on pennies or mills (as integers), with a couple of BCD routines to handle the troublesome stuff. This was a compromise that kept most of the speed of FP, without the mistakes.

BTW, these problems were detected during internal development, and weren't ever shipped to customers.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Can a Voyager series Keypad Plate be removed?

Message #1 Posted by [Steve](#) on 10 Dec 2002, 8:43 p.m.

Here's another angle, rather than fix the scratch on the 15c keypad plate, how easy is it to remove and re-attach a clean keypad plate? I'm guessing a little heat (sun light, lamp, and hair dryer) may loosen it up enough to remove it without damaging it. I'm assuming it will be easier than removing the aluminum bezel. Has anyone done this? Thanks,

Steve

Re: Can a Voyager series Keypad Plate be removed?

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Dec 2002, 9:45 p.m.,
in response to message #1 by Steve

Hi;

it's a lot hard, time consuming and, most of the times, the keypad may bend and be definitively deformed. It is firmly glued to the calculator's "body" and the Voyager's keypad is aluminum made, same as LCD's bezel. For me, the best keypad is the HP41's, because it has a softly rugged, transparent cover.

If it is not extremely necessary, don't do it. I tell you as someone with the "tragic" experience of removing this "bezel" from an HP15C so I would trade with the one from an HP11C (different internals). The HP15C's keypad is almost untouched, but the 11C's suffered a lot.

I did not finish the "Franken" calc because the "dead" 11C came to life, so I decided to hold the experiment for a while and balance before continuing. After Xmas, maybe.

If you really want only to remove a scratch, do as Paul Brogger carefully instructed in previous posts. I thought about sort of an HP41's like cover to protect the Voyager's keypad, but it is just a thought.

Success.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-9G architecture comments (to Joerg W's prior post)

Message #1 Posted by [Bill Wiese](#) on 10 Dec 2002, 8:43 p.m.

Joerg & the gang...

I had occasion awhile back to look at some Sunplus ICs. Some ASICs are 8031/8051 derivatives IIRC, but the databank stuff, etc. seems to be 6502 based! (This was a year ago so I might be fuzzy). If you can get a hex dump of some code I'd know right off the bat - each CPUs object code has a bit of 'rhythm' to it: 6800 looks different from 6502 which looks different than Z80....

I LOVE the old 6502 ;-) Fond memories.

Bill Wiese San Jose, CA

Joerg Woerner wrote: > The new HP 9G looks like a rebadged... what ? > Dismantling the HP 9G reveals a CPU not expected: A > Taiwanese "Sunplus SPLB30A" (<http://www.sunplus.com.tw>) > intended for Data Bank applications. You'll find more > data here: ><http://www.sunplus.com.tw/products/pdf/lcd/datasheet/splb/lb30av03.pdf> . > It is a complete system with 2.5kByte RAM, 96kByte ROM > and the display driver, key scan logic. In the typical > Data Bank a huge RAM (128k Byte..) is added with a serial > Bus. This is the way we are doing calculators since the > Texas Instruments TI-68: Take a cheap microcontroller and > add some software... Greetings from [=] key.
Joerg

What is effectively new in uP architecture?,

*Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Dec 2002, 10:05 p.m.,
in response to message #1 by Bill Wiese*

Hi;

this is a general question: what is effectively new after Turing, Von Newman and Harvard architecture? I am trying to figure it out.

Is there anything that we can call as new instead of this ones with a different makeup? I actually would like to know.

I learned how to "assembly" in a Z80, and used 8086, 8051 and (recently) 16F84x. Bill's post called my attention: everything resembles everything in low-level programming. CISC and RISC are more than well sensed when we use a lot of MOV, ADD, ADC, SUB, PUSH, POP, and a few of (senior moment) not so common instructions (forgive-me not finding a good example now). Microcontrollers add a bit of "brand new" sets when dealing with timers, 12-bit coded instructions and the like, but system core is a new implementation.

I just want to mention Transmeta and Crusoe's "morph" translating layer as one innovative design.

Comments?

Re: What is effectively new in uP architecture?,

*Message #3 Posted by [Bill Wiese](#) on 11 Dec 2002, 2:26 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Von Neumann, Harvard, RISC vs CISC concepts etc. have all been around for a long time. Even VLIW concept (very long instruction word) has been around for awhile: there are custom machines where coding is done at the wide-microcode level for parallelism.

On high-end CPUs (Pentiums, etc.) you're going to see more execution units, things like Intel's hyperthreading, etc. You'll prob see extensions to vector-math hardware like MMX (or AltiVec on PowerPC) for more/better/faster math parallelism.

Low-end CPUs/microcontrollers will evolve more by integration with peripherals (onboard flash, more RAM or DRAM, peripherals, etc.) But as overall market grows there will still be huge need for 4- and 8-bit micros.

You might see more regular micros 16 bit and about having some DSP (digital signal

processing) features included. Processors w/DSP capabilities offer both saturating or unsaturating (regular) arithmetic, a fast multiplier, and some of the following: fused multiply-accumulate, zero-overhead looping, bit-reversed indexing for FFT speedups, etc.

Bill Wiese San Jose, CA

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Using the speaker for output

Message #1 Posted by [Andy](#) on 10 Dec 2002, 11:32 a.m.

I recently purchased a beat-up 75D on ebay for \$5.50. When I received it, I noticed a small hole drilled into the side of the 75 with two wires running out of it.

Upon putting in a new battery, the 75D worked (of course). After trying a few commands, I noticed there was no beep upon errors. So I tried the BEEP command and nothing happenend.

So, I hooked the two wires up to my mulitmeter and put the multimeter in Hz mode. I typed 440,5 BEEP on the 75 of sure enough, the multimeter displayed 440 for 5 seconds.

I know the 75d has hpil (but useless without HPILCMDS or the I/O rom (belive it or not, this \$5.50 75 actually had an I/O rom in it ! :) !)). So one could use the speaker output to turn a device on or off...or since it can output a variety of signals, one could have it turn many devices on or off.

Since many hpcalcs have speakers, this technique could be of use on them as well. Has this been done before? I know that the 41's time module has been utilized in a somewhat similar fashion.

Andy

Re: Using the speaker for output

Message #2 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 12 Dec 2002, 5:32 p.m.,
in response to message #1 by Andy

Please take a look at my article in the Memories Forum (<http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/memories.cgi?read=22>), where I mentioned my experiences with the HP41 speaker for output.

Also see the photos at the end of the article.

Best regards

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: HP-75 Beep Question

Message #1 Posted by [andy](#) on 10 Dec 2002, 11:26 a.m.

I don't have an answer to your question but I have a comment that applies to this thread:

I also bought a 75D in a power pod and it had the speaker removed and the wires coming out to a port. I haven't tried repairing it because I see it as a possible I/O feature. When you use the BEEP command with a particular frequency, this signal comes out of the two wires (of course). Well, this opens up some possibilities for using the once speaker output for output. I wonder if that's why it was done in the first place?

Andy

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

NutEm page updated, list of HP-41 ROM added

Message #1 Posted by [Mike \(Stgt\)](#) on 10 Dec 2002, 4:23 a.m.

It's till unfinished, but at least I found the time to update my site at <http://ourworld.compuserve.com/homepages/nutem/>

To make you a bit jealous here my collection of HP-41 ROM images: <http://ourworld.compuserve.com/homepages/nutem/romim.htm>

Ciao.....Mike

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-28C

Message #1 Posted by [Luc](#) on 10 Dec 2002, 3:32 a.m.

Hello,

I have an HP-28C. I would new batteries. But I don't know wich type of ? Wich is the voltage ?

Re: HP-28C

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Dec 2002, 4:31 a.m.,
in response to message #1 by Luc

Hi;

the HP28C, as well as the HP28S and HP19BII use three N-ize batteries, 1.5 Volts each. DO NOT USE the 12VCC batteries! Some will feet in the battery compartment, BUT THEY MAY DESTROY your calculator. Be carefull!

This is the same battery used in the HP41 series calculators.

Cheers.

Re: HP-28C

Message #3 Posted by [Luc](#) on 10 Dec 2002, 6:11 a.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

Thank you very much... Luc

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Calculators Exhibition - Suggestions needed

Message #1 Posted by [Pyerre](#) on 9 Dec 2002, 10:28 p.m.

I've been asked by our local museum participating at an exhibit, (education purpose - student's visits), on the "Calculating Machines "& related devices (slide rules,...).

I'll have to fill a space that includes a large display case (for main things : calculators) & three smaller one (for docs, ads, etc.).

Since, I'm building a modest buty on the HP calculators, the reserved section will be mostly focusing on my Hewlett Packard's collection.

Starting from Ground Zero, I'm looking for suggestions on :

- banners, labelling,...
- how to interest the non-calculator people to the RPN things.
- most asked questions after the famous : "How does it work" ?.
- will be able to control the "don't look with your fingers" of the calculators on display, but also willing to share at least one of them (in circulation) to be playing with.

Would also like to have a "restoration" section with some "before" and "after" casing, inside looked, parts (old and new) and the like.

I really don't want to learn or to appreciate the meaning of the phrase "forgive and forget" after such participation... So any advices & suggestions would be very appreciated.

Many thanks in advance.

Pyerre

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 34C

Message #1 Posted by [Art](#) on 9 Dec 2002, 8:13 p.m.

Anyone know the value of a functional HP34C? Thanks, Art

Re: HP 34C

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 9 Dec 2002, 8:22 p.m.,
in response to message #1 by Art

Hi;

[this](#) page is a starting point; just roll down a little bit and you'll see a table with prices and rarity for all available models. Also, try [here](#) and search for 34C, HP34, HP-34. You may contact people that post adds related to the HP34C and have a good reference.

Are you selling, buying or just interested on prices?

Forgive-me if I'm being nosy...

Success.

Re: HP 34C

Message #3 Posted by [Spice_Man](#) on 10 Dec 2002, 4:05 a.m.,
in response to message #1 by Art

Value depends on condition, and what accessories are included with it (original box, manual, inserts, etc.)

Spicey

Re: HP 34C

Message #4 Posted by [Holger Weihe](#) on 10 Dec 2002, 6:44 a.m.,
in response to message #1 by Art

For orientation you may look here:

<http://www.hweihe.de/hp/preistabelle.htm> (I updated today)

Holger

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Anybody have Cover of May 1975 Automation Magazine

Message #1 Posted by [Bill Hemphill](#) on 9 Dec 2002, 12:05 p.m.

I've been reading the "65 Notes" as furnished on Jake Schwartz's CD set. In the June 1975 Issue, Volume 2, No. 5, on Page 3, there's a photo from the cover of the May 1975 Issue of AUTOMATION Magazine. The photo is of a couple in bed, with the husband busy playing with his HP-65 and his Wife looking a bit annoyed.

Does anyone have a copy of this? I'd love to see a better scan of this photo. Was the original in color? It'd be neat to print out a good quality copy to hang up.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

A new HP calculator group?!?

Message #1 Posted by [Johnny Bjoern Rasmussen](#) on 9 Dec 2002, 9:20 a.m.

I just read the following at <http://www.magpage.com/~jakes/video.htm>: A new HP calculator group based in San Diego announces its intentions to resume calculator development. According to the latter website this was announced at HPCC 2002 Handheld and Portable Computer Club Twentieth Anniversary Conference in London. This is some very nice news... Does anybody out there know more about this (sadly I'm not a member of HPCC, at least not yet...)

Re: A new HP calculator group?!?

Message #2 Posted by [Mike \(Stgt\)](#) on 9 Dec 2002, 10:06 a.m.,
in response to message #1 by Johnny Bjoern Rasmussen

Yep, heard the rumour before the conference. But I do not believe it before it's going live.

Ciao.....Mike

Is this an HP95C?

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 9 Dec 2002, 2:10 p.m.,
in response to message #1 by Johnny Bjoern Rasmussen

Hi;

I belive we have an HP95C's photo (right, 2nd. row) at the page mentioned by JHonny. I read about it and I thought Dave Hicks had the only one existing.

Is this the one?

Just curiosity.

Cheers.

Re: Is this an HP95C?

Message #4 Posted by [Dave Hicks](#) on 9 Dec 2002, 3:39 p.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)

I know of several others besides the one I have. There were either 50 or 100 made and a significant number seemed to have escaped.

Here's an interesting tidbit

Message #5 Posted by [Dave Hicks](#) on 9 Dec 2002, 3:33 p.m.,
in response to message #1 by Johnny Bjoern Rasmussen

I recently received an urgent request from HP to send some manuals to their OEM in Taiwan. Fortunately, no one asked me to keep this confidential, although I think I should avoid specifics. I'll just say that the requested manuals were for RPN calculators and most were scientific calculators. Of course, this could mean... well anything really.

Re: Here's an interesting tidbit

Message #6 Posted by [Ron Ross](#) on 9 Dec 2002, 3:57 p.m.,
in response to message #5 by Dave Hicks

You should have only sent manuals for the higher end RPN's so that they wouldn't benchmark themselves on the lower end units (ie a 42s and/or 28s) so that any new RPN calcs would be comparable to the higher end pocket calculators we all want. 8o).

Re: Here's an interesting tidbit

Message #7 Posted by [rsenzer](#) on 9 Dec 2002, 4:11 p.m.,
in response to message #6 by Ron Ross

Hi Ron,

One of the types of calculators I would like to see IS something equivalent to an hp32sii with RPN without equation storage, and without programming, but WITH equivalent memory storage, and the constants and conversions in the hp30s.

Such a calculator should be inexpensive and would be permitted on a wide variety of tests where more powerful calculators would not be permitted. It would also be an easy entry level into the world of RPN calculators for students.

To be competitive and desirable, this calculator would have to include fraction capability as on the 32sii or as on the 30s.

Of course, I would like the more powerful calculators as well.

Re: Here's an interesting tidbit

Message #8 Posted by [rsenzer](#) on 9 Dec 2002, 4:13 p.m.,
in response to message #7 by rsenzer

Clarification: The same number of memory registers [if not more] as the 32sii.

Re: Here's an interesting tidbit

Message #9 Posted by [R Lion](#) on 10 Dec 2002, 12:10 p.m.,
in response to message #7 by rsenzer

rsenzer: "without equation storage" NOOO, please. The solver of the 32sII is one of its best. rsenzer: "and without programming" Again NOOO, please. With MORE memory for programing. Why shorter memory than in the 15c? I've never understood that. What about 2Kb? 8Kb? Best regards Raul

Re: Here's an interesting tidbit

Message #10 Posted by [rsenzer](#) on 10 Dec 2002, 8:53 p.m.,
in response to message #9 by R Lion

Hi Raul,

This is designed to be a stripped down model not the mainstay for an RPN line. Many instructors will not allow calculators with the ability to store formulas or programs, to be used on tests. This may be a "first" calculator for many students and as the need arises, they would buy the more advanced products. Although I did not mention this, I believe that this low-end machine should be dual powered -- i.e., battery and solar, since it would be used frequently during tests. I would expect it to be cheap and small, i.e., sized like the 6S or 12C.

I suppose you could still allow formula entry, evaluation, integration, and solution of an algebraic equation/ formula entered on the display line, even though it would not be capable of being stored. But this might raise the cost beyond the scope of what I have in mind. In fact, it could be dual mode, allowing for RPN or algebraic, but I know where I want to see the "ENTER" key.

I still wish to see more substantial RPN products similar or better than the recent RPN lines that have been discontinued. Such new models should have more than one line. [I have not used the 2 line 42S, but I do have a 19BII and I like the multi-line display there, although it would have been nice to have 4 lines on that particular model in order to see the T-register.]

Re: Here's an interesting tidbit

Message #11 Posted by [Dave Hicks](#) on 10 Dec 2002, 1:06 a.m.,
in response to message #6 by Ron Ross

I did whine a little about the fact that they didn't request my favorite. The response was "maybe next time".

what is the favorite....

Message #12 Posted by [db\(martinez,california\)](#) on 11 Dec 2002, 11:24 p.m.,
in response to message #11 by Dave Hicks

....of the man who has everything?

Re: Here's an interesting tidbit - one thought

Message #13 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 9 Dec 2002, 5:50 p.m.,
in response to message #5 by Dave Hicks

Hi;

after what I read from Joerg, I think there is no big deal to transform and SRP400G into an RPN calculator. I believe a reversed engineering process begins with the specs of the equipment to be "reversed-engineered". People in Taiwan should first know how does an RPN calculator operate, so they could adapt an existing operating system to do so.

Comments?

Re: one other thought

Message #14 Posted by [glynn](#) on 9 Dec 2002, 10:45 p.m.,
in response to message #13 by Vieira, Luiz C. (Brazil)

Perty sure that the Koreans could lay their hands on some real rpn machines at any moment... HP or Elektronika or some simulation on a PDA... and as most engineers at the OEM are likely familiar with stacks and such, I'd find it INCREDIBLE if anybody working for a calculator factory needed to "bone up" on the user-end elements of an RPN interface.

What I *would* find credible is that HP is looking for the OEM's documentation to reflect some of it's own earlier instructional glory. HP asked for docs it had long mothballed, but as examples of what it wants the documentation to be like on the next models. If HP asked for docs of RPN calcs, HOPE is there... AND the implication that HP itself is taking the idea of instruction books seriously again, after a lull of several years.

This could be VERY GOOD news all around-- thanks Dave. You've made my week.

Re: one other thought

Message #15 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 9 Dec 2002, 11:46 p.m.,
in response to message #14 by glynn

Hi, Glynn;

I agree with you an RPN-like device operates much like any average uP, and developing a calculator's RPN-based O.S. is, I think, easier than and A.O.S.-based. What I've been wondering about is that the HP interface is brilliant, because it bonds simplicity to power. And I think that this is something they are probably trying to rescue, too. As you mentioned:

"(...)the implication that HP itself is taking the idea of instruction books seriously again, after a lull of several years."

Do the Koreans have this feeling? Anyway, Dave mentioned *Manuals to their OEM in Taiwan*, not *OEM manuals to Taiwan*, right? Is it correct, Dave?

It's a fact that programs developed in an RPN-based O.S. machine are hard to debug, but daily use has proven it's not hard to use and understand (see HP12C's still). Maybe they want the new models to have classic RPN interface, and the best way to develop the interface is learning how does it work and what it can do.

Maybe.

Cheers.

The Calculator OEM

Message #16 Posted by [Dave Hicks](#) on 10 Dec 2002, 12:57 a.m.,
in response to message #15 by Vieira, Luiz C. (Brazil)

Yes Taiwan - [these folks to be exact](#)

They also make:

(picture unavailable)

Re: The Calculator OEM

Message #17 Posted by [J.Manrique](#) on 10 Dec 2002, 1:28 p.m.,
in response to message #16 by Dave Hicks

Yes, Kinpo works with Citizen, Casio and TI too:

<http://www.kinpo.com.tw/English/products.asp>

Is it me, or under CE appears a TI 30X after a time?

'Clone war, began has'

J.Manrique

Re: The Calculator OEM

Message #18 Posted by [Joerg Woerner](#) on 11 Dec 2002, 6:59 a.m.,
in response to message #17 by J.Manrique

Indeed, a TI-30X IIS: Compare this one <http://www.kinpo.com.tw/images/114.jpg> and that one: <http://www.datamath.org/Sci/Modern/TI-30X-IIS.htm> Regards, Joerg

Re: Here's an interesting tidbit - one thought

Message #19 Posted by [Michael F. Coyle](#) on 10 Dec 2002, 2:55 p.m.,
in response to message #13 by Vieira, Luiz C. (Brazil)

If the calculator OEM needs help with RPN, "compatability testing" perhaps, I'm sure that some of us here could lend them a hand :)

Beta testers, anyone?

Re: Here's an interesting tidbit - one thought

Message #20 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Dec 2002, 6:33 p.m.,
in response to message #19 by Michael F. Coyle

I am a volunteer!

Re: Here's an interesting tidbit

Message #21 Posted by [db\(martinez,california\)](#) on 9 Dec 2002, 10:46 p.m.,
in response to message #5 by Dave Hicks

dave; did you send them the product specs for the 67c/cx or (be still my beating heart) the 68wx? humor doesn't translate... you never know; they might just build one.

seriously, thanks for being there for them to ask info from. you may have helped get us what we want. still; it's a good sign but a strange one that the company that invented the genre has to ask a collector for help to start building them again.

glad they did. glad they are. - d

Now THERE'S a thought ;-)

Message #22 Posted by [Dave Hicks](#) on 10 Dec 2002, 1:04 a.m.,
in response to message #21 by db(martinez,california)

I should have sent that and pointed out that some people tried to order it at \$399, [26" magnetic cards](#) and all ;-)

Re: Now THERE'S a thought ;-)

Message #23 Posted by [Ernie Malaga](#) on 10 Dec 2002, 1:21 p.m.,
in response to message #22 by Dave Hicks

Dave:

We can always dream -- can't we? 8^)

-Ernie

Re: A new HP calculator group?!?

Message #24 Posted by [Matthias Wehrli](#) on 10 Dec 2002, 5:13 p.m.,
in response to message #1 by Johnny Bjoern Rasmussen

I really don't know about this Video, but the clear cover of the HP-9x and the Classic one is cool. Where can I buy such a cover?

Matthias

Re: A new HP calculator group?!?

Message #25 Posted by [Raymond Hellstern \(Germany\)](#) on 10 Dec 2002, 5:31 p.m.,
in response to message #24 by Matthias Wehrli

Maybe ask Mike (ipscone@msdsite.com) or another mass reseller with good sources;-)

Raymond

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Source for paper for HP-19C printer?

Message #1 Posted by [Don Davis](#) on 9 Dec 2002, 12:17 a.m.

Does anyone know of a convenient source for thermal printing paper to fit the HP-19C?

thanks, Don

Re: Source for paper for HP-19C printer?

Message #2 Posted by [Katie Wasserman](#) on 9 Dec 2002, 1:34 a.m.,
in response to message #1 by Don Davis

Staples sells it on their web site, not in their stores. It's their part number: PMF5228. \$4.76 for 5 rolls.

It works fine but is only 14 feet versus HP's 30 feet.

Re: Source for paper for HP-19C printer?

Message #3 Posted by [David Smith](#) on 9 Dec 2002, 6:58 p.m.,
in response to message #1 by Don Davis

Another thing you can do is buy wider rolls and cut them to the proper width. It helps to have good tools to get a nice even edge. If it is not rather even, the paper tends to wander around a bit and may even jam. I saw a gizmo that a guy built that looks like a flat bottom "U" with a razor blade in the middle. It had a spindle for holding the roll and a flat piece for holding the paper flat against the bottom of the "U". It was build out of hobby shop balsa and plywood. With it he could split three inch wide rolls into two perfect 1.5 inch wide ones... I've been threatening to build one for quite a while now... but my HP19 paper has not run out yet and I'm lazy.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Learning RPN - joke

Message #1 Posted by [Renato](#) on 8 Dec 2002, 9:08 p.m.

If your are learning RPN, or trying to explain to someone:

<http://www.userfriendly.org/cartoons/archives/99aug/19990826.html>

Re: Learning RPN - joke

Message #2 Posted by [Pyerre](#) on 8 Dec 2002, 9:36 p.m.,
in response to message #1 by Renato

A good one this is. How master Renato this found did ? (Jedi style)

;-)

Re: Learning RPN - joke

Message #3 Posted by [Renato](#) on 9 Dec 2002, 7:35 p.m.,
in response to message #2 by Pyerre

Don't remember. I was browsing around and found it.

Re: "HP + {customer} = . . . " ads

Message #4 Posted by [Paul Brogger](#) on 9 Dec 2002, 10:30 a.m.,
in response to message #1 by Renato

(I don't know whether I'm the first to mention this, but . . .)

Sort of on the same line, and perhaps as a sign of the shift in HP corporate culture, take a look at the recent " HP + " ad series. One in a recent issue of Time shows progressive animation of a Shrek character with the caption, "HP + Dreamworks = Entertainment" (or something like that). Note that it DOESN'T say "HP {Enter}; Dreamworks {+}; x: Entertainment " . . .

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Can a scratch in a keypad plate be fixed?

Message #1 Posted by [Steve](#) on 7 Dec 2002, 9:49 p.m.

I have a 15C that has a small scratch (short but deep, down to the metal) on the keypad plate just above a key, but not affecting the label. I'm inclined to leave it alone, but I thought I'd ask if anyone has found a good way to touch up the black (a little brownish?) paint of the Voyager series keypad plate. Thanks in advance,

Steve

Re: Can a scratch in a keypad plate be fixed?

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 7 Dec 2002, 10:21 p.m.,
in response to message #1 by Steve

Hi;

here was a time, before the so-called DataShow, that mankind used overhead projectors, right? Remember that kind of "definitive marker" people used to write on the transparent sheets?

I use both black and brown, thin brush. They leave a small, thin coat, but it is translucent enough to shade small scratches.

Did I describe it in an understanding way?

Hope so.

Success!

Re: Can a scratch in a keypad plate be fixed?

Message #3 Posted by [Paul Brogger](#) on 9 Dec 2002, 10:36 a.m.,
in response to message #1 by Steve

Take a look at a good art supply store -- they'll have fine point markers in a variety of shades. I bought a slate blue once for touching up my 48G. It doesn't match *exactly* but is close enough to improve a workhorse (as opposed to a collectible).

For a 15C (certainly collectible!), you may wish to consider whether the "fix" may be worse than the problem . . . Also, if you could get another (maybe a 12C) to test the color on, that might help.

Re: Can a scratch in a keypad plate be fixed?

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 9 Dec 2002, 2:27 p.m.,
in response to message #3 by Paul Brogger

Hi;

I believe the worst part is finding a flat-black marker, because the Voyager's keypad is painted with flat colors (I believe most keypads are; the only one I know that's covered is the 41's keypad).

The marker I use is regular black, and retouched parts are easily identified (glossy). If I may, I'd suggest the following: try retouching and "breathe out" two, three times over the fresh ink and let it dry naturally. It will be a lot less glossy, and if you take care not spreading the ink too much, it's gonna be almost invisible over the scratch. You should softly clean the surface (swab?) to remove the residual water after the ink dries out.

As Paul suggested, try in another calculator (new HP12C are really a good choice, Paul) and refine the method.

Success!

Re: Can {glossiness} be fixed?

Message #5 Posted by [Paul Brogger](#) on 10 Dec 2002, 10:03 a.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)

Any hobby shop should have Testor's "Dullcote" matte enamel spray coating available, and art supply stores will have a matte fixative spray product. Either, applied by spray or brush, may help to even out the appearance of the finish.

(I've not tried this on a calculator, so DO test the color and coating combinations on a less-valuable article before applying them to your favorite!)

Re: Can {glossiness} be fixed?

Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Dec 2002, 11:03 a.m.,
in response to message #5 by Paul Brogger

Hi;

thank you, Paul, and forgive-me, Steve. We do not find these sort of art-finishing products around here (in my home town, I mean). Maybe in bigger citties, a bit far from here.

This is what I've done with my calculators when a small retouch is needed: use low-cost, ordinary products. As you mentioned before, if it's a collectible, special care must be taken! Mine are "on-the-road"...

Thank you. Now I have another suggestion to make.

Best regards.

Re: Can {glossiness} be fixed?

Message #7 Posted by [Renato](#) on 10 Dec 2002, 7:46 p.m.,
in response to message #6 by Vieira, Luiz C. (Brazil)

Dear Luiz, If you need art-finishing or model itens, please let me know. I just bought a Revell Contacta liquid glue, for repairing a 41cv, and have some Testors paint set (i've used black+green to fix scratches on a workhorse 20s).

Re: Can {glossiness} be fixed?

*Message #8 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Dec 2002, 10:00 p.m.,
in response to message #7 by Renato*

Hi, Renato;

thank you! It's good info knowing you have access to this sort of retouching material. I'll call you (not today!) and ask for more info.

Thank you again. (anything about broken HP41's?)

Best regards.

Dull-cote

*Message #9 Posted by [Karl Schneider](#) on 11 Dec 2002, 1:04 a.m.,
in response to message #5 by Paul Brogger*

I actually did use Testors Dull-cote on a mildewed HP-34C whose face was not vibrant, and probably made it look worse. I did remove the face, put several layers on, and sanded a bit, but it's tough to get the coat even.

The calc quit working anyway (mildew?), so I'll probably offer it cheap in MoHPC as a parts machine.

Re: Dull-cote

*Message #10 Posted by [Hans Brueggemann](#) on 11 Dec 2002, 3:44 p.m.,
in response to message #9 by Karl Schneider*

karl, plz drop me a line, if you are living in germany. i am in need of parts for a 34c.

cheers, hans

(remove the ".nospam" from my address)

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-41CV (+) asnd (-) side

Message #1 Posted by [Gina D](#) on 7 Dec 2002, 8:36 p.m.

Hi! I got a HP-41CV from a friend but there is no battery holder ;-(. Ireally want to try it (...) so i'll plug 6V directly on the contact to try it. I konw that i need to jump the 2 central connectors but Where is the positif terminal - Left or right??? OR can i plug a AC adaptor in that kind of plug covered by a plastic on the side of the calculator (without batteries) - What is the voltage, ac or dc? These are "just a try" solution; where can i find a battery holder? Thank you, Gina.

Re: HP-41CV (+) asnd (-) side

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 7 Dec 2002, 9:53 p.m.,
in response to message #1 by Gina D

Hi;

the central connectors are used only to "close" the circuit when battery holder is used. There is no connection with both central connectors and internal circuitry.

If you hold the calculator in it's "normal" position, say, NOT upside down, and face its back side, the leftmost battery connector is the negative (and the rightmost is the positive) for a 6Vcc power supply. You should use batteries, no AC adapter of any kind; these connectors are DIRECTLY connected to all internal digital IC's, including LCD controller. When I want to read magnetic cards or use the wand (barcode reader) I use four N-size, series connection. I have read at least 300 sides (about 150 cards; I do not have so many cards, I read and write in the same pack). That's one of the most current-consuming operation. The HP41 alone will use a few milliamps to operate, no need for huge current amount.

If your calculator has two golden-plated contacts in the button face of the square hole you mentioned, it's a bit more easy to connect a power supply (still batteries). Keeping the calculator in the same position, I use the topmost (LCD as a reference) as negative, and the other as positive. That's the actual place I connect the external batteries assy, and when I do it, I remove the original battery holder.

Hope this info will help you. If you need something more, post again.

Success.

thanks for tips it works

*Message #3 Posted by [Gina D](#) on 8 Dec 2002, 5:05 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Hey thanks i have a working HP41!

Thanks again for tips

Re: HP-41CV (+) asnd (-) side - One mystake in previous post

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 8 Dec 2002, 5:30 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Hi;

Please, there is an incomplete stence in my previous post; intead of

I use four N-size, series connection.

, read

I use four D-size instead of four N-size, series connection.

N-size is the standard HP41 battery size. Sorry...

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

what options do a UK customer have?

Message #1 Posted by [barry](#) on 7 Dec 2002, 4:26 p.m.

what payment options does a UK customer have to forward payment for my goods? I usually require International Postal M.O., Western Union M.O., or PayPal. how much does an International Postal M.O. for USD cost? any other options? we're talking in the \$45.00 range total. tnx, barry carson city, nv

Re: what options do a UK customer have?

Message #2 Posted by [Gordon Dyer](#) on 7 Dec 2002, 7:04 p.m.,
in response to message #1 by barry

The easiest payment methods for UK customers are PayPal or BillPoint. Both work fine from here.

Re: what options do a UK customer have?

Message #3 Posted by [David Smith](#) on 8 Dec 2002, 3:26 p.m.,
in response to message #1 by barry

The problem with international money orders for most countries in Europe is that the post office does not actually sell them. They sell you a voucher that you have to send to the federal reserve bank in New York, who then sends it to Europe, who sends them a money order, who then sends it to you. Takes around two months. To make matters worse, most post offices don't even sell the vouchers. You have to find the proper post office that handles your country. To make matters even worse, only certain clerks do the vouchers... and they are ALWAYS gone.

Re: what options do a UK customer have?

Message #4 Posted by [Vassilis Prevelakis](#) on 9 Dec 2002, 3:38 a.m.,
in response to message #3 by David Smith

How about Western Union? I haven't actually used them, but I did check the procedure last year when I wanted to send some money to the US from Greece. You pay them in your own currency and they send a cheque to the recipient. Since they have offices all over the world they only need to wire the details to the office nearest the recipient, so that the check arrives without significant delay.

Of course within the EU you can always use Eurochecks.

**vp

Re: what options do a UK customer have?

Message #5 Posted by [David Smith](#) on 9 Dec 2002, 7:04 p.m.,
in response to message #4 by Vassilis Prevelakis

Western Union can be rather expensive for sending smaller amounts of money... the one time I checked it would have cost \$40 to send \$50. The amount charged becomes a more manageable percentage for larger amounts.

For smaller amounts US currency in a registered or express letter works well. It seems much easier for overseas people to convert US currency into their preferred currency that the other way around. Currency conversion in most places in the US is a real hassle and can also be expensive.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 41 magnet card reader- mechanical problems-

Message #1 Posted by [Martin Wahlich \[GER\]](#) on 7 Dec 2002, 4:19 p.m.

A few days ago a colleague gave me his 20 years old card reader for my HP 41. As I started trying it, there was an dull sound, like the e-motor got stuck, the inserted card was not pulled through the reader anymore.

After I get some informations about repairing the card reader, I disassembled it, removed the rubber from the rubber-gear-wheel compenent (because the rubber got a jelly like feeling, an the tiny white roll was sticked on the rubber roll), I cleaned the whole mechanisim in put two small o-rings on the shaft, assembled everything and was very happy, that it worked fine, but only for a few moments. After a short time there was the same dull noise, like the motor or the gear was blocked.

So here are me questions: 1. Are there any recommendations for the o-ring size? 2. are there any alternatives for using o-rings? 3. Is it necessary to grease the whole mechanisim, and if yes, with what kind of lubricant? 4. Do you guys had similar problems with the card reader and how did you solve them?

I know this are many questions, but it would help me a lot if I can get my card reader back to work (there are some nice progams on the cards ;-)).

Thanks a lot in advance.

Re: HP 41 magnet card reader- mechanical problems-

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 7 Dec 2002, 10:14 p.m.,
in response to message #1 by Martin Wahlich [GER]

Hi;

my answers would be:

1)yes, there are o-rings that fit in. If you have a measuring instrument, simply take the inner and outer diameters of the metal gearwheel where the o-rings are built. The closest measure of the o-ring, the best (try o-rings slightly tighter in the inner hole). If you feel confident, you can use a very, very, very small amount of silicon-based glue to fix the o-rings in the gear. This leads to the fourth answer I'm placing right now:

4) Yes, I had a problem like this: stuck cards. I disassembled the reader and saw that the o-rings simply moved out of the gear and touched the plastic structure. At this point I decided to use silicon-based glue: a very thin layer only where the o-ring would touch the gear, and another thin layer between them both. No more problems.

2) the other alternative shown here is fuel tubes used in modeling (planes). There are several inner and outer diameters. Many guys in here prefer these tubes; I simply did not find any of these closer to where I am.

3) I would not use lubricants. I do not remember seeing any, mostly because it's a slow-movements mechanism, moving gears are plastic over metal, and the magnetic card itself has a lot of contact points when being read or write.

I have one working reader with silicon-glued o-rings, no lubricants at all (they may leak and touch cards' surface, right?), working perfectly fine after more than fifteen years with me.

Success!

Re: HP 41 magnet card reader- mechanical problems-

Message #3 Posted by [David Smith](#) on 8 Dec 2002, 3:31 p.m.,
in response to message #1 by Martin Wahlich [GER]

If you do use O-rings (not recommended here) you need size 005... 15/64 OD. You probably cant find them... and normal size 006 (1/4 OD) are too big can cause the mechanism to bind. I always use silicone rubber fuel line. The problem is finding it that is actually truly round with a centered hole.

Anothe problem that can develop is the worm gear coupling to the motor drive shaft comes loose. It was origianlly friction fit. Cure here is to make a new coupling (you need a precision mini-lathe), glue the coupling with a drop of rubberized super glue (my recommendation), or shim the motor shaft with thin plastic (like a grocery store bag). I have found that shimming often causes the couling to break into several pieces that can't be repaired.

Re: HP 41 magnet card reader- mechanical problems-

Message #4 Posted by [Gordon Dyer](#) on 8 Dec 2002, 8:25 p.m.,
in response to message #1 by Martin Wahlich [GER]

You can try this repair kit, it includes the instructions and a pack of O rings.
<http://cgi.ebay.co.uk/ws/eBayISAPI.dll?ViewItem&item=1944011797>

Re: HP 41 magnet card reader- mechanical problems-

Message #5 Posted by [Gordon Dyer](#) on 8 Dec 2002, 8:29 p.m.,
in response to message #1 by Martin Wahlich [GER]

Have you removed the motor from its plastic mounting plate?
You should do this and check if the cog and drive wheel is free to spin. If it does not turn very easily then you need to dismantle it completely and clean oput any gum which is deposited in the pivot.

Re: HP 41 magnet card reader- mechanical problems-

Message #6 Posted by [Andreas Müller\(GER\)](#) on 10 Dec 2002, 12:39 p.m.,
in response to message #1 by Martin Wahlich [GER]

Hi Martin, I know it sounds very silly, but is it possible that you did not use fresh batteries when you tried to get the reader to work? Sorry, but I am asking this question because you are saying you got the reader a few days ago. I understand it as you never had any before. If I am wrong, please forgive me, if I am not, use fresh batteries (the motor draws really high currents). I often have a motor stuck when I use the reader without recharging my NiCds before using the reader. Regards, Andreas

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Thermal Printer 82143 -Problems to operate the printer-

Message #1 Posted by [Martin Wahlich](#) on 7 Dec 2002, 4:05 a.m.

A feew days ago a colleague of mine gave me his old (20 years?) HP 82143 Printer, which was not in use for minimum the last 15 years.

After I connected the printer to my HP 41 I wanted to insert the thermal paper (original HP 20 years old as well).

Putting the paper in, switching it on and pressing the paper advance button, no paper advance took place, the printing head, which is in a right hand side position moved a little leftwards (ca. 1cm) returned to its old position and a funny noise could be heard.

So finally here is my question: Can anybody give me a hint what to do? Do I have to clean the mechanical parts and how?

Re: Thermal Printer 82143 -Problems to operate the printer-

Message #2 Posted by [Hans Brueggemann \[GER\]](#) on 7 Dec 2002, 5:42 a.m.,
in response to message #1 by Martin Wahlich

Martin, the printhead is driven by a worm gear, which itself is driven by a motor via a small rubber pulley. If your printer makes squealing noises (which come from the tormented pulley), then the worm gear is blocked. Check the following: try a paper advance with no paper inserted. If that works, you most likely did not properly align the paper when inserting it into the printer. If the printer is still protesting, open the printer and check the worm gear. Try to turn it manually. Maybe the bearings are congested with aged oil. Send me a mail if you are unsure about the location of the gear. I will be sending you a photo.

Hope, that helps

Hans

Re: Thermal Printer 82143 -Problems to operate the printer-

Message #3 Posted by [David Smith](#) on 7 Dec 2002, 1:00 p.m.,
in response to message #1 by Martin Wahlich

The worm gear and intrnal mechanism certainly needs to be cleaned. Also the rubber drive belt may be bad. A replacemnt is the Projector Recorder Belt Company SCX2.4 (see www.russellind.com)

Re: Thermal Printer 82143 -Problems to operate the printer-

Message #4 Posted by [Tony Duell \(UK\)](#) on 7 Dec 2002, 1:48 p.m.,
in response to message #1 by Martin Wahlich

After 15 years, the first thing I'd suspect would be the NiCd battery pack. You must have a good, charged, battery in this unit for the motor to work correctly. If you're using a known-good battery, then I'd open up the printer. Take out the battery, peel off the feet, and undo the 5 screws (4 under the feet) on the bottom. Seprate the case halves. You can now inspect the mechanism. Check the drive belt, and turn the pulleys by hand to see what's happening. Maybe you'll have to take it apart further to do the actual repair, but this should give you a clue as to what's happening.

Re: Thermal Printer 82143 -Problems to operate the printer-

Message #5 Posted by [Martin Wahlich](#) on 7 Dec 2002, 4:01 p.m.,
in response to message #1 by Martin Wahlich

Thanks to all of you for your good hints.

Finally I connected the printer for about one hour to AC-adapter and all of a sudden it works like tha last 15 years have not been ellapsed.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Part Numbering at HP, Grapevine and EduCALC

Message #1 Posted by [Chris Catotti \(Florida\)](#) on 7 Dec 2002, 2:17 a.m.

I catalog and file all my documentation by HP Part Number, EduCALC Catalog Number, Sequential Index number for everything else.

I am confused by books published by Grapevine, such as "An easy Course In Programming The HP-41" by Ted Wadman and Chris Coffin, Illustrated by Robert Bloch, ISBN 0-031011-00-0.

EduCALC cataloged it as "Stock #P-193". HP gave it a part number "92234T" in their insert booklet "A Wealth of Accessories to Complement HP Calculators, the HP-71 Handheld Computer and Peripherals". "92234T" is printed on the back cover of this paperback, spiral-bound book ("An easy Course In Programming The HP-41").

Can anyone explain the part numbering?

Re: Part Numbering at HP, Grapevine and EduCALC

Message #2 Posted by [kim](#) on 8 Dec 2002, 6:56 a.m.,
in response to message #1 by Chris Catotti (Florida)

There is no logical logic :-(

The 92xxxY are just a catch all set of numbers that HP used for 3rd party vendor stuff. Like the cowhides for Clams (18C, 28S) and so on.

Hope that helps

Kim

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

My own page

Message #1 Posted by [Emmanuel, Normandy \(France\)](#) on 7 Dec 2002, 1:11 a.m.

Please visit my page. I'm building a site for HP-41, ...
<http://pageperso.aol.fr/xeq41/>
 Thanks for interest.

Re: My own page

Message #2 Posted by [Dubois](#) on 7 Dec 2002, 1:59 a.m.,
 in response to message #1 by Emmanuel, Normandy (France)

AWESOME! Keep up the good work

Re: My own page

Message #3 Posted by [Emmanuel](#) on 7 Dec 2002, 11:19 a.m.,
 in response to message #2 by Dubois

Thanks! ;o)

Re: My own page

Message #4 Posted by [Vassilis Prevelakis](#) on 8 Dec 2002, 12:05 a.m.,
 in response to message #2 by Dubois

> AWESOME! Keep up the good work

OK the cartoon is funny and the PANAME info is interesting, but the link to the PANAME page is wrong (how many times must I repeat it: spaces in URLs are **not** allowed - just because the Micro\$oft browser fixes the mistake, it doesn't make it OK).

How about some pictures of your collection? Some scans from the PANAME manual? etc.

Re: My own page

Message #5 Posted by [Emmanuel](#) on 8 Dec 2002, 1:57 a.m.,
 in response to message #4 by Vassilis Prevelakis

Dear Vassilis,
 I have a lot of things... too many according to my wife. There will no scan of the user's manual, too heavy. Each function will be available by clicking on each word.
 Yours. Thanks.

Re: My own page

Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 7 Dec 2002, 9:17 a.m.,
in response to message #1 by Emmanuel, Normandy (France)

Hi;

you are doing great, Emmanuel. Congrats.

I know many people are probably asking for an English version, so I'll not ask for it. Anyway, will you allow me to suggest one small adding? About the PANAME module page, would it be too hard to include the XROM numbers for the available functions?

I'd make Dubois' words as mine: keep up the good work.

(Have you considered asking Dave Hicks to include a link to your page at MoHP's "Links to Other Sites"? Just a suggestion...)

Re: My own page

Message #7 Posted by [Emmanuel](#) on 7 Dec 2002, 11:21 a.m.,
in response to message #6 by Vieira, Luiz C. (Brazil)

Thanks, Luiz. There will be 3 languages: French first, English and Spanish. And may be German. Dave will certainly mention it.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

xhpcalc - another HP calculator discontinued...

Message #1 Posted by [Britt Snodgrass](#) on 6 Dec 2002, 10:24 p.m.

HP recently discontinued another of my favorite calculators: xhpcalc. xhpcalc is a tri-mode (SCI, FIN, PROG) X-windows simulation of HP-11C/12C/16C that HP bundled with the HP-UX (Unix) operating system on their HP 9000 series workstation.

See <http://devrsrc1.external.hp.com/STK/impacts/i188.html>

Why discontinue something like this?

I found a HP workstation at my office today that still has HP-UX 10.20 so I could run xhpcalc remotely and have it display on my desktop PC. Clicking the HP logo in the upper right corner makes it cycle through the three modes (keypad faces).

xhpcalc, as a genuine HP product, is certainly worthy of a hpmuseum exhibit. Does anyone have a contact at HP who might be convinced to freely release the source code under some suitable license or at least build and release a free binary for Linux on x86?

Britt

Re: xhpcalc - another HP calculator discontinued...

Message #2 Posted by [Renato](#) on 7 Dec 2002, 2:27 p.m.,

in response to message #1 by Britt Snodgrass

There is a manual at: <http://www.doc.ic.ac.uk/~mac/manuals/hpux-manual-pages/hpux/usr/man/man1/xhpcalc.1.html>

This simulator is not listed in the museum simulator pages.

Can you post a screenshot ?

Re: xhpcalc - another HP calculator discontinued...

Message #3 Posted by [Vassilis Prevelakis](#) on 8 Dec 2002, 9:02 a.m.,
in response to message #2 by Renato

Here is a screenshot of another HP calculator. This one runs on the HP Integral PC, a lunchbox sized Unix workstation with an electroluminescent screen (that is why the picture has an orange colour).

(picture unavailable)

Notice that the function keys on the bottom of the screen are used to redefine the top left group of 10 keys.

The calculator as shown is in Trig mode (you can see the asterisk next to the F2 label), but by pressing (say) the F3 key you can enable the Statistics functions. The key labels will change to reflect the new functions.

More information on the HP IPC may be found in <http://www.coho.org/~pete/IPC/integral.html>.

**vp

Re: xhpcalc - another HP calculator discontinued...

Message #4 Posted by [Renato](#) on 8 Dec 2002, 9:18 p.m.,
in response to message #3 by Vassilis Prevelakis

This one looks like a character mode program. Is that so ? What is the name of the sw? IMO it deserves to be listed in the museum. Maybe if you send man page and some information to the museum, it may be listed in the simulations page.

Re: xhpcalc - another HP calculator discontinued...

Message #5 Posted by [Vassilis Prevelakis](#) on 9 Dec 2002, 3:51 a.m.,
in response to message #4 by Renato

This is all the documentation there is:

HPCalc. This is the standard HPCalc program that we used to sell. Also a very nice implementation, and it should be self-explanatory to operate. (If you store HPCalc on another disc, make sure you store all its "dot" - invisible - files with it, (.HPCalc.fnt and .HPCalc.hlp). You can find these dot files using the "ls -a" command (ls is on your CommandsI disc). HPCalc will not run without these associated 'dot' files.

The program has on-line help, but apart from changing the display mode (FIX, SCI, etc) the rest is rather intuitive.

It seems to me that the command to change the display mode has given the HP engineers a lot of headaches, since they were always changing it. E.g. on the earlier models (HP 67, 97), there was a mode key (FIX, SCI, ENG) and a DSP key that defined the number of displayed digits. Then that number was made an argument to the mode command (e.g. FIX 2 on the HP 41C). There were also variations like the HP 21 where DSP 2 would select SCI 2 and DSP . 2 would select FIX 2).

The HPCalc adopts yet another approach where DSP 2 selects FIX 2 and DSP EEX 2 selects SCI 2. (Yes I had to use the on-line help to find this).

**vp

Re: xhpcalc - another HP calculator discontinued...

Message #6 Posted by [Vassilis Prevelakis](#) on 9 Dec 2002, 3:59 a.m.,
in response to message #4 by Renato

Oops I forgot:

Renato wrote:

> This one looks like a character mode program. Is that so?

character mode? As in it runs on an ASCII terminal? In this case the answer is no, as you can see from the screendump, it uses the GUI interface.

> What is the name of the sw?

HPCalc for the HP Integral Personal Computer (IPC).

As you can see in my previous posting HP were initially *selling* this program, but in the end they gave up and bundled it with a free OS upgrade diskette.

**vp

Re: xhpcalc - another HP calculator discontinued...

Message #7 Posted by [Britt Snodgrass](#) on 9 Dec 2002, 11:13 a.m.,
in response to message #2 by Renato

I would post a screenshot but I'm not sure how to post it to this forum. I'll ask if I can get is added to the simulation page somehow. As far as I know, xhpcalc was never sold. HP included the executable file with their HP-UX (workstation Unix) operating system and it never ran on anything else. Now that they have dropped it in HP-UX 11.00, I'd like to ask if they would release the source code so it could be ported to any OS with an X-Windows server (Linux, FreeBSD, M\$Windows+cygwin, etc.)

Britt (b r i t t @ a c m . o r g)

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Should I open NIB HP-42S??

Message #1 Posted by [Bill Hemphill](#) on 6 Dec 2002, 8:53 a.m.

I'll be receiving in a few days a NIB HP-42S from my nephew. He bought it new for college and never even opened it. When he heard I like HP's, he said he'd send it to me.

Now for the big question --- Should I keep it in the box or open it up and play with it???? I know it'd be worth more money if it stays NIB, BUT I really enjoy playing around with the calculators. I guess I just answered my question - I'll open it up.

What do other people do in this situation??

Re: Should I open NIB HP-42S??

Message #2 Posted by [Raymond Hellstern](#) on 6 Dec 2002, 10:30 a.m.,
in response to message #1 by Bill Hemphill

Hi,

I'd buy a second one (maybe used) to play with, and let the NIB one as is;-)

Another option would be to simply open it and play with the machine. If you don't need the box and it's inlets, you could sell it to me w/o the calc and manual.

Regards,

Raymond

Re: Should I open NIB HP-42S??

Message #3 Posted by [Paul Brogger](#) on 6 Dec 2002, 10:34 a.m.,
in response to message #1 by Bill Hemphill

The few Pioneer models I've seen have been packed with batteries installed. For that reason alone, I suspect you'll want to open it & remove the old batteries.

If the batteries are not included (doubtful) or are packaged separately, then this should not be an issue.

But (again, if it's like the few I've seen) the clear plastic packaging is re-sealable (it simply pops apart and back together again), so opening it shouldn't affect the value all that much.

By the way, does your nephew have any idea what these things are worth?

Re: Should I open NIB HP-42S??

Message #4 Posted by [Don Davis](#) on 6 Dec 2002, 10:42 a.m.,
in response to message #1 by Bill Hemphill

Despite the somewhat elevated price of vintage HP calculators, I still think of these as tools and toys, not an investment vehicle. I suspect from your post that you do, too. If the value is diminished by \$50 or even \$100 by opening the shrink wrap, is that really a lot of money in the overall scheme? For a starving student, maybe. For the rest of us, probably not.

So, I say open the calculator and have a little fun. If guilt persists, put \$1000 into a presently undervalued stock of an otherwise good company, and tell yourself that the real investment far outweighs the hobby/collectible one. (It may not be true, but you'll feel better.)

best regards, Don

Re: Should I open NIB HP-42S??

Message #5 Posted by [Pyerre](#) on 6 Dec 2002, 11:08 a.m.,
in response to message #1 by Bill Hemphill

Even old, I don't know if the unused stamps are worth something to the stamp's collector ?

As a collector, I love items with stories behind them. (Remember those good'O tube radios, wall clocks,...antique things).

If it's mine, I'll take it out and have fun with it for a while, taking care about everything (box, manuals, case....) of course.

IMHO though,

Pyerre

Re: Should I open NIB HP-42S??

Message #6 Posted by [Glen Kilpatrick](#) on 6 Dec 2002, 12:00 p.m.,
in response to message #1 by Bill Hemphill

I'd follow the herd on this one :), and open it. In fact, is this an investment (forget the percentage, just how much _money_ could you ever make on it?), or is it a gift out of the blue? It's obviously not the former....

As Paul mentioned, you'd be wanting to remove the batteries for long-term storage, and it might be perfect for many more decades than you will be (so why not enjoy it while you can?). Now if *I* only had a cousin like that....

Re: Should I open NIB HP-42S??

Message #7 Posted by [Renato](#) on 6 Dec 2002, 12:11 p.m.,
in response to message #1 by Bill Hemphill

I would sell to a collector, and share the money with the relative - remaining money would be enough for buying a used 42s.

IMHO the issue here is *value*. Being NIB unoped has no value to you, but is very valuable for someone else. I don't think it is ok to destroy such a value. I myself bought two 32sII NIB NOS, but sold both after buying a used 32SII to play with.

Your logic is Flawed for this case??

*Message #8 Posted by [Ron Ross](#) on 6 Dec 2002, 12:29 p.m.,
in response to message #7 by Renato*

While your advice is very practical, a used Hp42s often gets \$150 on ebay while a NIB may only get \$180-220. And there is no guarantee these numbers are fixed. What could easily happen is selling the NIB unit for \$180 and then having to pay \$160 for a beat up, barely working Hp42s. The \$20 can easily be eaten up in shipping and insurance.

What do you end up with? A beat up 42s and \$5. Hp32s's are still in limited retail circulation but the Hp42s has been discontinued for over 8 years.

Re: Your logic is Flawed for this case??

*Message #9 Posted by [Renato](#) on 6 Dec 2002, 2:31 p.m.,
in response to message #8 by Ron Ross*

Hmmm... My logic was about value, and I stand for it. In my case, I sold the 32s without making any money, but I would certainly loose money if I opened them. In this 42s case, selling on ebay, but buying offline *could* make the math work.

Sometimes it "sounds" like a fever...

*Message #10 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Dec 2002, 1:54 p.m.,
in response to message #1 by Bill Hemphill*

Hi;

open it, play with it (I'm expecting a New-In-Blister HP32SII and I'm gonna open it) and keep it in the best conservative look. Then, after, say, 45 years, you give it to your grand-grandson and tell him: "If you don't want to keep it, sale it, and don't forget to ask for a good amount of money." And hope this fever goes on...

I don't.

Re: Sometimes it "sounds" like a fever...

*Message #11 Posted by [Renato](#) on 6 Dec 2002, 4:17 p.m.,
in response to message #10 by Vieira, Luiz C. (Brazil)*

Two months ago I opened a 12c blister. It is a China unit, with all the known issues. One thing was remarkable - the smell. Last time I felt this smell was in 1980, when my parents gave me a 34C. It is not quite as a brand new car smell, but I like it best.

Re: Sometimes it "sounds" like a fever...

*Message #12 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Dec 2002, 5:31 p.m.,
in response to message #11 by Renato*

Hi;

This is definitely something we cannot find in already used calculators. And I agree with you one hundred percent: this smell is never forgotten. The closest one is from brand new automobiles; just closed to, not equal to.

I felt this new calculator's smell at least 12 times. I consider myself a lucky guy, but I used to "taste" it when I was alone; what would people think of it?

Best regards, Renato.

Re: Sometimes it "sounds" like a fever...

*Message #13 Posted by [Renato](#) on 6 Dec 2002, 5:37 p.m.,
in response to message #12 by Vieira, Luiz C. (Brazil)*

A lonely pleasure... This is getting much beyond fever. In another post someone longed for a HP given to a "old girlfriend". He mentioned the HP, but not the girlfriend...

Re: Sometimes it "sounds" like a fever...

*Message #14 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Dec 2002, 11:04 p.m.,
in response to message #13 by Renato*

This is very understanding among us here... (I hope Doc. Mike Myers is not reading)

Re: Sometimes it "sounds" like a fever...

*Message #15 Posted by [Pocketcom Mania](#) on 9 Dec 2002, 5:23 a.m.,
in response to message #12 by Vieira, Luiz C. (Brazil)*

Sure! The smell of a brand new HP simply drives you crazy. It's exactly like the smell of a perfume used by your beloved one!

Re: Sometimes it "sounds" like a fever...

*Message #16 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 9 Dec 2002, 10:04 a.m.,
in response to message #15 by Pocketcom Mania*

You bet!

Re: Should I open NIB HP-42S??- It's open!!!

*Message #17 Posted by [Bill Hemphill](#) on 7 Dec 2002, 8:12 a.m.,
in response to message #1 by Bill Hemphill*

Just got the package & opened it up. The batteries haven't leaked. - New batteries installed & works like a champ. First time I've been able to play around with a 42S. Seems like it was intended to be a transistional calculator from the HP-41 (which I love & use every day) and the HP-28/HP-48 series (also use both).

I'm glad to see that most of you are like me - HP's are just too neat to sit on a shelf - even if the value goes down by using them.

Just some additional information - when my nephew told me he'd give me the calculator, I went on e-bay and printed out several that had sold & told him that he could sell it himself on e-bay. He declined and told me that he'd rather I enjoy it than make a few bucks on it. Thus, I would not feel right in selling it. Needless to say, Uncle Bill will be sending nephew a very nice Christmas gift!!

I like the suggestion someone made - play with them, enjoy them - and then pass them on to the grand children.

I firmly believe that the value is in the enjoyment - not letting them sit on a shelf gathering dust.

Re: Should I open NIB HP-42S??- It's open!!!

*Message #18 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 7 Dec 2002, 9:12 a.m.,
in response to message #17 by Bill Hemphill*

I'm glad you opened the pack. And be sure I'd feel the same if you had decided to keep it closed. Your decision, our suggestions, right?

Anyway, you can count on us (do you allow me, folks?) to support you on using this nice calculator (I'd write magnificent, but this is something the user must feel, not read about). I believe it was designed to those who wanted the most of the HP28 with the classic RPN interface. Symbolic algebraic and object types are not supported, but almost all numeric resources (if not all) available in the HP28C/S are also available in the HP42S. And classic RPN prevails

You bet I'm saving mine to my grand-grandson, too. I'd like very much having some old, usable, collectible stuff like this from my grand-grandfather (books, 78 RPM vinyl, slide rules, whatever).

Enjoy your new tool (not a toy).

best regards.

Re: Should I open NIB HP-42S??- It's open!!!

*Message #19 Posted by [Pyerre](#) on 7 Dec 2002, 9:47 a.m.,
in response to message #17 by Bill Hemphill*

I have two circular slide rules (Mear's Water Flow & Pipe Flow Calculator, made by M.H. Mear & Co. England) in excellent condition with cases & manuals, heritage from my grand father. He've used them daily and I've played a lot with these slide rules and bothering him some times when I was a kid visiting him.

Today, I really don't care about their values... They just mean so much to me.

Fond memories grand'Dad,

Pyerre

Re: Should I open NIB HP-42S??- It's open!!!

Message #20 Posted by [Renato](#) on 7 Dec 2002, 2:17 p.m.,
in response to message #19 by Pyerre

Great! I hope it smells like a brand new HP. By the way, I keep two things from my grandparents (both were born in Japan): a vintage soroban (japanese abacus - older than any calculator or slide rule), and a vintage japanese pocket watch (i used it daily, one day the glass fell, and the hands broke when I pulled it out of the pocket - ouch!). This is a great forum - different opinions and (almost) no flames.

I was also given three HPs, that belonged to the late father of a co-worker. A 11c was ok, a 32E needed work, and a 21 beyond repair. My friend did not ask me to keep them, but I will

Re: Should I open NIB HP-42S??- It's open!!!

Message #21 Posted by [Pyerre](#) on 8 Dec 2002, 1:19 a.m.,
in response to message #20 by Renato

"Smell new car ? Yuk!" - as so Larry said (the Three Company show).

Joking (nothing to do with calculator)

; -)

Re: Should I open NIB HP-42S??- It's open!!!

Message #22 Posted by [David Smith](#) on 8 Dec 2002, 3:34 p.m.,
in response to message #21 by Pyerre

Acutally new car smell comes in a bottle and the manufacturers spray it in their new cars. You can buy it at some auto parts store. Please don't confuse it with "US Government Standard Bathroom Malodor"... a completely different product all together.

Re: Should I open NIB HP-42S??

Message #23 Posted by [Gordon Dyer](#) on 7 Dec 2002, 12:08 p.m.,
in response to message #1 by Bill Hemphill

I opened my NIB HP-41CX I couldn't resist!

I didn't buy it to make money and wanted the fun of using one.

Of course if you don't want yours then post it to me and I will open it for you!!!

Re: Should I open NIB HP-42S??

*Message #24 Posted by [Daniel Diggelmann](#) on 7 Dec 2002, 7:17 p.m.,
in response to message #23 by Gordon Dyer*

Yes Gordon, I share your experience. A few weeks ago I bought two new HP41CX and one of them I just opened. It feels a lot different than a used one. That's my personal HP41CX which I'm now going to use. I always take good care about such things. Even after many years they seem like new. That's the way I like it. But on the other hand I also enjoy repairing used calculators like a HP 67 wich I restored this weekend with the help of the restoration article at MoHPC. The cardreader had a gummy wheel and most of the keys were bad. Now both issues are resolved and it works like a charm. I really enjoy our common hobby. Cheers Daniel

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Inside the HP 9G

Message #1 Posted by [Joerg Woerner](#) on 6 Dec 2002, 8:32 a.m.

The new HP 9G looks like a rebadged... what ? Dismantling the HP 9G reveals a CPU not expected: A Taiwanese "Sunplus SPLB30A" (<http://www.sunplus.com.tw>) intended for Data Bank applications. You'll find more data here: <http://www.sunplus.com.tw/products/pdf/lcd/datasheet/splb/lb30av03.pdf> . It is a complete system with 2.5kByte RAM, 96kByte ROM and the display driver, key scan logic. In the typical Data Bank a huge RAM (128k Byte..) is added with a serial Bus. This is the way we are doing calculators since the Texas Instruments TI-68: Take a cheap microcontroller and add some software... Greetings from [=] key. Joerg

Re: Inside the HP 9G

Message #2 Posted by [Juergen Rodenkirchen \(GER\)](#) on 6 Dec 2002, 12:30 p.m.,
in response to message #1 by Joerg Woerner

Joerg, do you have any information where one can purchase an HP9G in Germany? Retailers like Cynox do not yet offer them as far as I know ...

Juergen

Re: Inside the HP 9G

Message #3 Posted by [Joerg Woerner](#) on 6 Dec 2002, 4:59 p.m.,
in response to message #2 by Juergen Rodenkirchen (GER)

Juergen, unfortunately not yet available.... Regards, Joerg

Re: Inside the HP 9G

Message #4 Posted by [Joerg Woerner](#) on 9 Dec 2002, 11:14 a.m.,
in response to message #2 by Juergen Rodenkirchen (GER)

Juergen,

In US-market the HP 9G is already out of stock. But you may get the original product much easier, it is a rebadged CITIZEN calculator. Just go to: http://www.jcbm.co.jp/eng/consumer/calc/cpdf/np2002_vol1.pdf and open the SRP-325G. HP - quo vadis ???
Greetings, Joerg Interested in the HP 9S ? Just view the SRP-280 :-((

Re: Inside the HP 9G

Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 9 Dec 2002, 2:15 p.m.,
in response to message #4 by Joerg Woerner

Hi, Joerg;

Good reading your posts here (I'm gonna have the time to finish the manual in December, O.K.?)

If you allow me, the SRP-400G is a better choice, with a lot more memory...

What am I doing? Suggesting a Citizen Calculator instead of an HP?

YES, that's exctly what I am doing! And I'll try to find an SRP-400G. As long as they do not become a collectible, too...

Cheers

Re: Inside the HP 9G

Message #6 Posted by [Joerg Woerner](#) on 9 Dec 2002, 4:30 p.m.,
in response to message #5 by Vieira, Luiz C. (Brazil)

Greetings to Brazil !

You are righth with the SRP-400G - what I expected when I read the Datasheet of the microcontroller of the HP 9G - just add a cheap serial RAM and you get memory space... During my last visit in Bangkok I searched some programmable Citizen's for my friend Viktor in Canada and noticed these beasts. To me they seem to be a great alternative to the Texas Instruments calculators you know from the little www.

datamath.org Museum. You know that we are all waiting for the TI-68 follower, not everybody needs the TI-89 to add three numbers and the two-liners aren't the best choice... Cheers, Joerg

Re: Look at ALL the alternatives . . .

*Message #7 Posted by [Paul Brogger](#) on 10 Dec 2002, 11:02 a.m.,
in response to message #5 by Vieira, Luiz C. (Brazil)*

At the risk of sounding like a broken record, don't rule out the TI-83+ (or maybe TI-89/92/Voyager). My 83+ Silver Edition looks ugly, but that's the ONLY drawback. (Well, O.K., there's no clock, and no sound output of any sort . . .)

The 83+'s "TI-BASIC" is quirky, but acceptable, the speed is decent, the big screen offers plenty of room for a fancy, multi-line display, the key feel is *at least* as good as my son's HP-30s (which appears to be kin to the Citizen models and new HP-9G's) . . .

And it's a general-purpose, programmable, stored-program digital computer. It's OS provides hooks so Z-80 assembly programs can make use of all the mathematical, memory, keyboard and display functions. The development environment and emulator seem to support creation of low-level programs of arbitrary complexity, and the development platform is Windows, with a quick, reliable link to & from the calculator's flash memory and RAM. (And there's lots of documentation that appears quite complete.)

I've pushed the BASIC to its limit, and have just begun assembly programming (with an annoying illness lately holding up progress). It all looks (like I say) definitely quirky, but *very* usable.

HP may come out with something RPN-ish. It may be actually what many of us are looking for, in an off-the-shelf package with an acceptable level of quality. But for the would-be "handheld hacker", the flexibility apparent with the 83+ (and 89, etc.) does seem to provide for a level of customization & configuration that is unlikely to be beaten by anything else.

Re: Inside the HP 9G

*Message #8 Posted by [David Smith](#) on 9 Dec 2002, 7:07 p.m.,
in response to message #4 by Joerg Woerner*

Gag, gag... sob, sob... oh, the humanity...

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

4 fonctions calc

Message #1 Posted by [Michel Beaulieu](#) on 5 Dec 2002, 9:23 p.m.

I read about the entire site here and never saw that HP did a 4 fonctions calculator- is it true?

Re: 4 fonctions calc

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 5 Dec 2002, 9:36 p.m.,
in response to message #1 by Michel Beaulieu

Hi;

did you see [this one](#)?



Except for the [%] key, it has only the basic four functions, although it's a printing machine...

Is it what you're searching for? I'm not sure HP have produced any other calculator that is simpler than this one.

Best regards.

Re: 4 fonctions calc

*Message #3 Posted by [Masao Kinoshita](#) on 6 Dec 2002, 12:14 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Outside of APD and Corvallis, there was the HP 01, a more than just a 4-banger on your wrist watch. The HP 01 was really algebraic, whereas the HP 10(A) used the arithmetic entry system.

Re: 4 fonctions calc

*Message #4 Posted by [Mike \(Stgt\)](#) on 6 Dec 2002, 3:49 a.m.,
in response to message #1 by Michel Beaulieu*

Many use their calc only as 4-banger, even HP-41 owners.

Ciao.....Mike

Re: 4 fonctions calc

*Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Dec 2002, 4:24 a.m.,
in response to message #4 by Mike (Stgt)*

Tell me about it...

Re: 4 fonctions calc

*Message #6 Posted by [David Smith](#) on 6 Dec 2002, 5:50 p.m.,
in response to message #1 by Michel Beaulieu*

One should note that although the HP10 is a very simple four banger, if you want to buy one it is one of the hardest machines to find and one of the most expensive models (\$350-\$750).

Re: 4 fonctions calc

*Message #7 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Dec 2002, 11:18 p.m.,
in response to message #6 by David Smith*

Hi;

a two-years production line (1982-1984), just a few available (I'd say many of them are hidden somewhere OR have just been thrown away), all Voyagers good characteristics, among other reasons... no better bait to call a collector.

I believe at the time it was released, the HP11C was the most "rational" choice: a lot more

functions and user memory (2* +). The only 10C I saw in my life was a gift offered by Xerox do Brasil to their salesmen. One of my classmates was the youngest son of one of these salesmen.

The calculator itself is not expensive, the collectors' piece is.

Cheers.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

15C emulator interest?

Message #1 Posted by [Math Geek](#) on 5 Dec 2002, 8:15 p.m.

A "SW" add in the classifieds asked if any 15 emulator was available. Not that I have even the meager beginnings, but sound like an interesting challenge. Would anyone be interested, or does the lack of 15 emulators and the large number of 48/49 and 41 emulators tell the story?

Re: 15C emulator interest?

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 5 Dec 2002, 9:28 p.m.,
in response to message #1 by Math Geek

Hi;

you probably know about it, but there are simulators for these: HP12C (some), HP16C (wrote by Mr. Cameron Paine, one of our contributors), HP11C (I saw a shareware once, I am almost sure I still have it) and I have a vage, vage memory of seeing or reading about an HP15C emulator.

The point is: I think it is very interesting, mostly if memory limits are expanded, say, a 99 X 99 matrix limit instead of 64 elements total.

The HP15C Advanced Functions Hnadbook has a lot of good information about accuracy and how numeric integration and SOLVE work. I tried some of the examples in the HP42S and, as expected, the 15 digit internal representation enhances accuracy, but still leave an unpleasant amount of error, smaller than the ones in the HP15C, but they exist.

I'm posting this because I believe an HP15C simulator running on a PC may have the precision enhanced (# of mantissa digits) OR keep the original accuracy, so procedures on both simulator and calculator would result exactly the same.

Are you interested on going any further? I do not even know how to scracth a simulator, I'll be of no help for it, but I have been programming in C, C++, TCL/TK, Kylix (repeating examples so far) and I'm starting with Java (I'm begining to read a book about it). I'd like to go along with

this.

Hope you keep posting whatever you are doing about this subject.

Cheers.

Re: 15C emulator interest?

*Message #3 Posted by [Karl Schneider](#) on 6 Dec 2002, 12:15 a.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

When I was a grad student in the mid-to-late 1990's, I remember trying out a Unix-based X-windows application called "xhpcalc" (I think). It displayed a 15C face, and one could click the virtual keys or use the numerical keypad.

Re: 15C emulator interest?

*Message #4 Posted by [Raymond Hellstern](#) on 6 Dec 2002, 3:55 a.m.,
in response to message #3 by Karl Schneider*

Hello,

even HP had at least a version of a voyager emulator. I remember seeing it at the HP stand on one of the CeBIT fairs in Hannover, Germany, at least a decade ago.

Raymond

Re: 15C emulator interest?

*Message #5 Posted by [Sean McNamee](#) on 9 Dec 2002, 10:55 p.m.,
in response to message #4 by Raymond Hellstern*

I would DEFINITELY be interested! I just bought an Hp 15C, and I'm interested in 'hacking' it. BTW: You CAN create a larger matrix than 6x6, through a trick given here: <http://www.jlw.com/~woolsey/15Cnotes.html> Pretty neat trick! I'd like to know more about how to create instructions and what-not, so an emulator would definitely help!

Re: 15C emulator interest?

Message #6 Posted by [Torsten Manz](#) on 22 Dec 2002, 11:05 a.m.,
in response to message #1 by Math Geek

Years ago I started writing an HP-15C simulator in Tcl/Tk which I have now finished (almost). Matrices and complex numbers are not yet supported. An HTML documentation is also available.

I am sure it still needs some testing; it has been tested on UNIX/Linux and Windows NT4/2000/XP. So I am especially interested in people working on Mac systems and Windows 95ff.

Everybody who is interested in testing may send me an email.

Torsten

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 41 C connect to a PC

Message #1 Posted by [Gunnar](#) on 5 Dec 2002, 4:47 p.m.

Hello

It is possible to connect a HP 41C to a normaly PC without (!!) a HP-IL?

Best regards Gunnar

Re: HP 41 C connect to a PC

Message #2 Posted by [Emmanuel, France](#) on 5 Dec 2002, 5:18 p.m.,

in response to message #1 by Gunnar

Yes, all is possible.

I read somewhere in a PPC Journal of Corvallis that someone built an interface for Apple II. You wrote HEX program codes on it and they were sent through this interface and read by HP-41 via optical wand.

Jean-Pierre Magnan wrote MCode routines in order to get HP-41 'beeps' on PC via sound card and microphone.

I have an IR/RS232c built by Hook-up that turns your PC into a printer. HP-41 has an HP82242A IR module.

Re: HP 41 C connect to a PC

Message #3 Posted by [Tony Duell \(UK\)](#) on 5 Dec 2002, 6:24 p.m.,

in response to message #2 by Emmanuel, France

My LIF Utilites for Linux distribution contains scheamtics and software for an interface between a parallel printer port and an HP41 barcode wand (which you have to modify by soldering an opto-isolator to 2 of the wires between the wand and the HP41 module). The interface takes care of all the timing of the 'barcode' data, so this should work with any machinewith a parallel port. There's software for luinux to transfer HP41 programs and data files (but only 'normal' numbers and text strings), provided as C source code. It shouldn't be too hard to port it.

Re: HP 41 C connect to a PC

Message #4 Posted by [Mike \(Stgt\)](#) on 6 Dec 2002, 3:55 a.m.,

in response to message #1 by Gunnar

Scotch-tape it. But is that your intetion? What do you try to do?

Ciao.....Mike

Re: HP 41 C connect to a PC

Message #5 Posted by [Christoph Klug](#) on 6 Dec 2002, 4:50 a.m.,
in response to message #4 by Mike (Stgt)

Best solution for HP-41/PC Interfacing is working with HP-IL ! The needed IL-Module is easy available on ebay for low prices, and by using HP-IL your HP-41 works as powerfully system controller - you will get much new applications.

Furthermore you need an IL-RS232 interface box plus the Linux software from Tony Duell - or the HP-IL/Interface Card plus belonging software (the last solution is available from me).

Some surprising news about HP-41 /PC interfacing would be published in the now comming HPCC Datafile Journal and later in HP-Museum...

Best wishes from Germany - Christoph

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-85 --- 82972A Upgrade ?

Message #1 Posted by [Mike](#) on 5 Dec 2002, 4:36 p.m.

I have two HP-85 computers that were installed in a piece of government data-logging equipment. Consequently, they are very nice condition.

The odd thing is that they are both marked HP-85 rather than 85B. They are, in fact, fully B equipped. Mass Storage ROM built-in, 32K RAM, Electronic Disc, etc.

Inside the printer compartment of both it says, "82972A Upgrade Installed."

I can find nothing on this "82972A upgrade." Could this be an "A" to "B" upgrade? It doesn't make sense that they would just put an "A" case on a "B" so I'm guessing that this is some sort of upgrade from A to B.

Re: HP-85 --- 82972A Upgrade ?

Message #2 Posted by [Raymond Hellstern](#) on 13 Dec 2002, 7:14 a.m.,
in response to message #1 by Mike

Ever thought about a factory repair, at which they replaced the old boards with new ones from B machines?

Raymond

But that doesn't address my question

Message #3 Posted by [Mike](#) on 14 Dec 2002, 5:12 p.m.,
in response to message #2 by Raymond Hellstern

Good reply but it does not address my question. I'm trying to find out what "82972A Upgrade Installed" means. I can find nothing on this (82972A) upgrade.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 35/45 competing with main frame computer

Message #1 Posted by [Jan \(Switzerland\)](#) on 5 Dec 2002, 2:24 p.m.

It was in the 70's. As a young student of engineering I had to undergo a 3-month practical training in a well-known Swiss machine building company.

My assignment was to investigate why same machine parts revealed different properties after a heat treatment and what the relevant parameters were. Pretty soon I have figured out, that I would require a multiple linear regression.

So I gathered quite large number of data, tabulated them carefully on a big sheet of paper and went to the COMPUTER CENTER to have the regression calculated.

I entered a new and different world was deeply impressed by the rows of tape machines moving back and forward their large tape-wheels, by the busy men and women moving from one to the other terminals, by the many blinking lights and noisy printers. I felt small, behind the large windows.

Then I presented my tabulation to the man, who served as an interface between us the common engineers and the higher caste of the people who understood and could even talk to computers. After 5 minutes, I had to realize, that my humble request really insulted the man. He explained me in the precise language of a computer expert, how I was supposed to present my case in order to get a chance to be considered for a calculation. I did not understand a word of what he was saying in his computer language, so left the place with deep admiration for a world from which I would remain excluded for the rest of my life.

Still I had to run my regression. I took my HP-35 and went around and collected another 11 calculators from other engineers, some of them HP35 and some the latest and spectacular HP45. I arranged them on a large table around my data sheet. And, 3-4 hours later my regression was calculated and double-checked.

I would not need that again, but this experience helped me a lot in my later career.

Jan

Re: HP 35/45 competing with main frame computer

Message #2 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 6 Dec 2002, 6:41 a.m.,
in response to message #1 by Jan (Switzerland)

Would you consider posting this in the Memories forum...?

Re: HP 35/45 competing with main frame computer

Message #3 Posted by [Jan \(Switzerland\)](#) on 6 Dec 2002, 10:12 a.m.,
in response to message #2 by Andrés C. Rodríguez (Argentina)

Sure, why not

Jan

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Thanks! 9114A working!!

Message #1 Posted by [Daniel](#) on 5 Dec 2002, 12:58 p.m.

Thanks to all who replied with help and comments while I tried to get my 9114A disc drive to work. After Tony's invaluable help in tracing a fault on the main board, I replaced a power transistor and the drive powered up. I was able to format a disc with my 41CX, write the status, dir the file and read the status! This was using an old Mac disc that a colleague gave me.

This forum is an invaluable resource for HP calculator collectors and lovers!

Re: Thanks! 9114A working!!

Message #2 Posted by [Tony Duell \(UK\)](#) on 5 Dec 2002, 6:19 p.m.,
in response to message #1 by Daniel

I assume you replaced Q101, the pass transistor in the +5V regulator. What did you use to replace it?

Re: Thanks! 9114A working!!

Message #3 Posted by [Daniel](#) on 5 Dec 2002, 6:47 p.m.,
in response to message #2 by Tony Duell (UK)

I replaced it with a TIP42 PNP power transistor.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Voyager Cosmetics

Message #1 Posted by [Steve](#) on 5 Dec 2002, 8:57 a.m.

I have a 15C that has a small scratch (short but deep, down to the metal) on the faceplate just above a key, but not affecting the label. I'm inclined to leave it alone, but I thought I'd ask if anyone has found a good way to touch up the black (a little brownish?) paint of the Voyager series faceplate. Thanks in advance,

Steve

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Praise for the HP-34C

Message #1 Posted by [Don Davis](#) on 4 Dec 2002, 9:28 p.m.

I was an undergrad when the HP-34C and the rest of the Spice series were released. I had purchased a 29C about a year earlier, which I was very impressed with, and somehow I thought the spice series calcs looked cheaper than previous HP's. I distinctly remember passing over the new functionality because I thought the build quality had gone to pot at HP. (Strange to think of that now, knowing what HP passes for calculators these days!)

Anyway, I recently obtained one of these from a surplus house, dirty and in unknown operational condition. Happily, it cleaned up pretty well and works perfectly with a rebuilt battery. I've been playing around with it, and I think this must be a really under-rated calculator, at least by me. The solver and integrate functions work very well - not as fast as the most modern calculators, but quite acceptable. It has a ton of nice features, including a factorial function which works with non-integer numbers, so it can be used to compute the gamma function. My 41C can't do that!

It's a lot of fun in a small package, and I wonder if there are other fans of this fine little calculator out there. I perceive that it doesn't get a lot of attention, but I am enjoying mine... and by the way, the build quality seems just great!

best regards, Don

Re: Praise for the HP-34C

Message #2 Posted by [Katie](#) on 5 Dec 2002, 12:35 a.m.,
in response to message #1 by Don Davis

I really like the 34C too and agree with you that it's somewhat underrated. I've got two of them and the build quality on both is excellent, but that seems to be an exception to the rest of the Spice line. The 34C was the last of that line so perhaps HP had learned enough from the poor reliability of the earlier ones to make the 34C consistently better.

My only complaint is that it's hard to remember the location of all 3 shift functions of each key without looking at them. I suppose that if I stuck to this machine and didn't switch calculators

every few days, I'd remember them :)

Re: Praise for the HP-34C

*Message #3 Posted by [Renato](#) on 5 Dec 2002, 7:06 a.m.,
in response to message #2 by Katie*

A 34c was my first HP, at university. I fell in love with it. I knew all four functions of each key, without looking at them. Knowing key codes for each function, and with aid from the led display allowed programming in darkness. My unit was a very early brazilian made. It developed defects from the first construction technique, but HP traded it for a later design. I praise the 34c, but I also felt woodstocks look and feel better.

Re: Praise for the HP-34C

*Message #4 Posted by [R Lion](#) on 5 Dec 2002, 2:32 a.m.,
in response to message #1 by Don Davis*

This was the first scientific calc I learnt to use in 1982. Although I prefer the 15c now, really it's a great calculator.

Raul

Re: Praise for the HP-34C

*Message #5 Posted by [Steve](#) on 5 Dec 2002, 7:05 a.m.,
in response to message #4 by R Lion*

It is a great calculator, and one of the best LEDs ever made. In some limited side by side testing, it was faster (computational loop, solver) than the 15C by a good 25%.

Steve

Re: Praise for the HP-34C

*Message #6 Posted by [Spice_Man](#) on 5 Dec 2002, 3:13 a.m.,
in response to message #1 by Don Davis*

Of course I'm a great fan of the spice series. My only complaint is that the battery terminals are very weak. Spicey

Re: Praise for the HP-34C

Message #7 Posted by [Pyerre L.](#) on 5 Dec 2002, 8:32 a.m.,
in response to message #1 by Don Davis

I've got one recently, came in dead. Someone has opened the case playing with the hard plastic backbone and mixed the logic chips up. The battery flexcable has been ripped off also. It's a real pain to make it works again.

But seemed to be a little bit fragile due to the mechanical design on early models. Without a battery pack in place, the battery cover falls off easily and lost.

The HP-34C is a great calculator. However, my favorite still be the HP-25 (not C)- I don't know why.

Thanks to all who helped me to wake the HP-34C up again.

Pyerre

Re: Praise for the HP-34C

Message #8 Posted by [Chan Tran](#) on 5 Dec 2002, 1:39 p.m.,
in response to message #7 by Pyerre L.

I bought the 34C in 79 to replace my broken 25. (It was my fault that the 25 went dead). I like it pretty much but after a week I returned for the 41C with full credit.

Re: Praise for the HP-34C

Message #9 Posted by [Art Litka](#) on 11 Dec 2002, 9:40 p.m.,
in response to message #1 by Don Davis

Just read your praise for the 34C and could not agree more! I had one in the early '80s and loved it. Moved up to a 41c and sold the 34(now with regrets). Recently I've come across two "dead" 34Cs and have managed to make one fully functional again (by swapping out keypads, cleaning contacts and making a new battery pack.) I'm proud of myself for being able to sucessfully perform such delicate surgery! I even have a manual with I bought from a local calculator store. However, I need a charger for it. Anyone know where I can get one for a reasonable price (\$25 or less)?

Re: Praise for the HP-34C

*Message #10 Posted by [David Smith](#) on 12 Dec 2002, 5:30 p.m.,
in response to message #9 by Art Litka*

Chargers show up regularly on Ebay. Finding one for \$25 or less should not be a problem.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

TIPS : HP-11C

Message #1 Posted by [Michel Beaulieu](#) on 4 Dec 2002, 8:39 p.m.

I follow your tips for a complete overview of HP calculators (i already have a 35, 75, 41, 38G, 30S) and find a HP-11C in hummm... "marché au puces" :-). I put new batt and cleaned it well. It works good but looks bad; is it possible to "sand" the silver around the display, it have a lot of small scratch.

Is it possible to have more than one program in the memory like the 41 (that i just began learning too...) or i need to put programs in the same big one with number labels?

It's just a feeling but i think i prefer the 41; excuse me if i "offense" someone :-) but the 11C seems to have less possibility than the older 41 no? Is the 15C "better" than the 41 so? ha i still have the problem : which one should i learn deeply!?

Re: TIPS : HP-11C

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 4 Dec 2002, 10:09 p.m.,
in response to message #1 by Michel Beaulieu

HI;

I believe that "flea market" is something world-wide., comme le marché aux puces, n'est pas?

Maybe the HP11C does not fit your needs, but some few advantages must be emphasized.

[] all available resources are printed in the keyboard; you do not need to search for a particular command spelling in any catalog. You look at the keyboard and see what you need (except for a few shortcuts I'll post below)

[] you have gamma function (x!) in the HP11C instead of factorial (FACT, or n!) in the HP41; you do not need to program these;

[] all hyperbolic and their inverse are ready to use in the HP11C; they are not available in the HP41 as standard catalog 1 functions (you need to program) [] probability -Py,x- and combination -Cy,x- in the HP11C (same as above) [] longer battery life [] (subject note:) the HP11C is easier to learn to use, mostly because it has less resources, although the 41's

equivalents are as powerful as the ones in the HP11C)

[] they are one of the most reliable series of calculators HP has ever offered to the users (except for some well known vintage bulldozers)

Some disadvantages are: (against the HP41, not absolute disadvantages)

[] program listings are keycode based, the same way you'd find in some vintage calculators (HP25, TI57/58/59, HP67/97, and many others); it is not a bad thing, it's only time consuming and a bit awkward for users not used to this sort of coding

[] no I/O facilities

[] no ALPHA resources in the HP11C's display, except for a few error messages

[] the HP11C has only 210 bytes of memory available, about half the HP41C's standard memory (1/8 the CV)

I have all Voyager models BUT the HP10C, also the three different HP41 (C, CV, CX), and there are moments I prefer one of the Voyagers (brief calculus, brief SW development, advanced HP15C and 16C ready-to-use functions) instead of one of the HP41. Just a matter of what to do with.

Wouldn't you like to try the 11C a bit more?

Would someone else add other advantages/disadvantages?

Cheers. (I'd never feel offended when someone express his own preferences... Mostly when it's done rationally, as you have surely done)

Re: TIPS : HP-11C - the shortcuts

*Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Dec 2002, 4:21 a.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Hi;

sometimes I read my own posts and realize I promise to do something and simply forget it..
Senior moments?

Both HP11C and 15C have some "hidden" shortcuts, and some are not emphasized in their manuals.

The ones most known are related to the USER mode. The primary functions of the first five keys (left-to-right) of the first row are traded with their shifted functions [A] to [E]. When USER mode is active, pressing any of these keys mean [GSB]A to [GSB]E, run or program

mode.

The sequence [RCL][SIGMA], where SIGMA is the summation symbol used in Statistics function, retrieves the contents of both [SIGMA]Y and [SIGMA]X respectively to the Y- and X-registers. I believe this is the only keystroke sequence that places two values in two different stack registers in one single operation.

Suppressing [SHIFT] key in many situations is rational and valid. As an example, [I] is printed over [TAN] key, and [RCL][I] is a valid sequence. If one use [RCL][SHIFT][I] in a program, the recorded keycode is 45 25, instead of 45 42 25, meaning [RCL][SHIFT][I] is shortened to [RCL][I]

In the 11C only, if you press [SHIFT][I] or [SHIFT][(i)] you are performing [RCL][I] and [RCL][(i)]; this does not work with the HP15C, because [SHIFT][(i)] is not programmable (review imaginary part contents) and [SHIFT][I] is indeed a valid sequence, meaning create a complex number

If I missed some, please folks, complete my post.

Best regards.

Re: TIPS : HP-11C

Message #4 Posted by [db\(martinez,california\)](#) on 5 Dec 2002, 10:36 p.m.,
in response to message #1 by Michel Beaulieu

i like the 41 better than any other calc i know of, but: the voyagers are very robust and likely to be working even if you find one at the "mercado de pulgas". they were designed and built very well. a dozen years on a set of batteries is normal. you might get some "scotch brite" and carefully polish the bezil (always paralel with the existing polish-horizontally) after taping off the plastic parts and "11c" button to hide the scratches. the silver is just aluminum and is solid-not plated.

btw; an 11 was my first hp back in 81. i gave it to an old girlfriend when i got my first 41cx in 83. god, i miss that 11c.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

1.2V NiCd for HP-41?

Message #1 Posted by [Jürgen Keller](#) on 4 Dec 2002, 5:15 p.m.

Does anybody know if I can also use 1.2V NiCd disposable batteries instead of the recommended 1.5V Alkaline batteries for the HP-41? I currently do not have a rechargeable battery pack :-)

Re: 1.2V NiCd for HP-41?

Message #2 Posted by [Emmanuel, Normandy \(France\)](#) on 4 Dec 2002, 5:44 p.m.,
in response to message #1 by Jürgen Keller

Dear Jürgen,
Good idea!

I use 4 Sanyo Cadnica N-150N 1.2V 150mAh
If you want to replace batteries inside a pack,
please use Sanyo Cadnica N-50 AAA.
Good luck!

Re: 1.2V NiCd for HP-41?

Message #3 Posted by [David Smith](#) on 4 Dec 2002, 6:01 p.m.,
in response to message #1 by Jürgen Keller

Yes nicads work fine, so do NiMH cells if you can find them. HP once sold a nicad kit for the machine.

Sure

Message #4 Posted by [Mike](#) on 4 Dec 2002, 6:27 p.m.,
in response to message #1 by Jürgen Keller

Sure, NiCads work just fine. That's what's in the rechargeable pack.

Re: Sure

*Message #5 Posted by [Jürgen Keller](#) on 5 Dec 2002, 2:40 a.m.,
in response to message #4 by Mike*

Emmanuel, David, Mike: Thanks for your advice. Just wasn't sure if 4.8V is enough for the 41. Don't know much about electricity and was confused that Alkaline batteries are 1.5V, but NiCd/NiMH batteries are 1.2V. And, of course, I didn't want to misfeed my calc.

Re: 1.2V NiCd for HP-41?

*Message #6 Posted by [Andreas Müller\(GER\)](#) on 5 Dec 2002, 6:04 a.m.,
in response to message #1 by Jürgen Keller*

I am using NiCd Cells 1.2V/150mA, for over 20 years. One 'Quartet' (manufacturer: Varta) is still working for 23 years in my 41-CV. No corrosion at all. But I have used another 'Quartet' (manufacturer: Panasonic) that showed leakage and began to produce corrosion after using them 5 years. Since I made this experience I only use Varta NiCds for my 41-CV. I actually have 2 'Quartets' in use. Best resgards, Andreas

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-10Bii's for sale cheap

Message #1 Posted by [Dan M](#) on 4 Dec 2002, 1:53 p.m.

I don't know what it means, but a local large retailer has a peg filled with "Mint NIB" HP-10Bii's marked down to \$13.00 from \$30.00

If anybody wants one or more of these at this price plus postage, let me know. I'd be happy to pick up some of these on my next trip through town.

Dan

Re: HP-10Bii's for sale cheap

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 4 Dec 2002, 3:40 p.m.,
in response to message #1 by Dan M

Hi;

Maybe, just maybe, this is the sign of the arrival of the announced (and so expected) two new financial models HP promised in London's meeting. At least for me, the HP9G and HP9S are not the ones...

Cheers.

(Hey, Dan; have you been reading my posts about 9114B? Any comments? Best regards.)

HP.COM

Message #3 Posted by [Michel Beaulieu](#) on 4 Dec 2002, 8:45 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

I read here and there since a lot of months tha HP won't release anymore calculator and they stop recherc; i read here that they will show 2 new scientific calculators and now it is another 2 business one? Did "they" change their mind and still "built" new models?

Re: HP.COM

*Message #4 Posted by [Spice_Man](#) on 5 Dec 2002, 8:38 p.m.,
in response to message #3 by Michel Beaulieu*

I'm not sure, but they might have begun outsourcing other manufacturers to design/build calculators for them...

Spicey

Re: HP.COM

*Message #5 Posted by [Michel Beaulieu](#) on 5 Dec 2002, 9:18 p.m.,
in response to message #4 by Spice_Man*

For THEM??? Usually it's FROM them no ;-(

Re: HP.COM

*Message #6 Posted by [Frank Wales](#) on 6 Dec 2002, 1:31 p.m.,
in response to message #5 by Michel Beaulieu*

At the HPCC conference in London, Fred Valdez, who is now in charge of HP's calculator product line, stated that HP now sub-contract the design as well as the manufacturing on their calculators. HP now just define what features a new calculator should have, and then get their outsourced design company to design it, as well as produce it. From its peak of several hundred staff in the 1980s, HP's calculator 'division' now employs fewer than 20 people, and, as far as I am aware, none of them are R&D staff. I'd be pleased to be corrected on this point.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-71B System ROM Revision History

Message #1 Posted by [Philip](#) on 4 Dec 2002, 12:55 p.m.

Has there been a thread discussing the various ROM revisions for the HP-71B? If not, could someone provide me some information regarding the ROM revision history? I have several 71's with different ROM versions and I'm curious about the revisions what the bugs were. It got my curiosity because the Text Editor manual indicated some issues with certain versions of the system ROM if the editor was called from a BASIC program. It indicated that the earlier versions could cause corrupted files if you didn't follow a certain procedure.

Thanks

Re: HP-71B System ROM Revision History

Message #2 Posted by [J-F Garnier, France](#) on 5 Dec 2002, 6:34 a.m.,
in response to message #1 by Philip

There are three public ROM versions:

1BBBB is the first public version, and the most common,

2CCCC is a rare version with a lot of minor bugs corrected, but it also adds a extra major bug,

2CDCC, which replaced soon the 2CCCC version fixing the major bug.

In this forum, it was also mentionned a prototype version (1AAAA), or even earlier developement versions, but I don't have any information on them.

J-F

Re: HP-71B System ROM Revision History

Message #3 Posted by [Philip](#) on 6 Dec 2002, 9:52 a.m.,
in response to message #2 by J-F Garnier, France

Thanks for the info.

Re: HP-71B System ROM Revision History

Message #4 Posted by [Gordon Dyer](#) on 7 Dec 2002, 12:35 p.m.,
in response to message #2 by J-F Garnier, France

I have a 71B date code 2401A00135 with software 1AAAA.

It is definitely NOT a prototype.

Look back to the forum archives 20th August 2002, I posted info about this and had several interesting replies.

Regards,
Gordon

Re: HP-71B System ROM Revision History

Message #5 Posted by [J-F Garnier](#) on 8 Dec 2002, 7:23 a.m.,
in response to message #4 by Gordon Dyer

Sorry Gordon, I remembered this thread, but didn't check before replying.

How did you come across this machine? Did you get it from HP at this time, maybe as a preproduction machine, or for evaluation purpose?

J-F

Re: HP-71B System ROM Revision History

Message #6 Posted by [Gordon Dyer](#) on 8 Dec 2002, 8:17 p.m.,
in response to message #5 by J-F Garnier

Hi, I bought the 1AAA machine from another person in England in July this year. It is in poor condition and was sold as not working, but I bought it for the ROMs and card reader which were together with it.

When I cleaned up the 71B and battery contacts it worked!

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP1000CX Usr Mnl

Message #1 Posted by [Mike \(Stgt\)](#) on 4 Dec 2002, 11:04 a.m.

Is the HP1000CX Users' Manual somewhere online? As PDF??

TIA

Ciao.....Mike

Re: HP1000CX Usr Mnl

Message #2 Posted by [Raymond Hellstern \(Germany\)](#) on 4 Dec 2002, 6:07 p.m.,
in response to message #1 by Mike (Stgt)

Hi Mike,

I don't know if it's online somewhere, but you won't miss much.

The manual (F1203-90001) is a relatively thin white paperback, not like the LX manuals: no front picture, etc...

All features of the 1000CX are handled through the built-in setup program.

Regards,

Raymond

Re: HP1000CX Usr Mnl

*Message #3 Posted by [Mike \(Stgt\)](#) on 5 Dec 2002, 5:04 a.m.,
in response to message #2 by Raymond Hellstern (Germany)*

Hi Raymond!

I know (see <http://www.hp-collection.org/Rechner/hp-1000cx.htm>), but I'm just curious if there are some hints about IR. I don't like LapLink and with InterLink I have to use loooong cables to go a short way :-(To connect my 200LX to the PC I prefere IR, at least for small files.

Ciao.....Mike

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

My HP48sx may be dead--Help!

Message #1 Posted by [Jacob](#) on 4 Dec 2002, 9:14 a.m.

My HP48SX won't wake up after I changed batteries. Only thing I see on the screen is (((*))) and hourglass. It won't respond to any keys either. Advices are welcome. Thanks.

Re: My HP48sx may be dead--Help!

Message #2 Posted by [Emmanuel, France](#) on 4 Dec 2002, 1:56 p.m.,
in response to message #1 by Jacob

Did you test ON/C? ON/D? Reset w/ Memory Lost?

Re: My HP48sx may be dead--Help!

Message #3 Posted by [Joe Panico](#) on 4 Dec 2002, 2:14 p.m.,
in response to message #2 by Emmanuel, France

Jacob, And, remember the paper-clip wire "reset" through the hole under the footpad! Joe

Re: My HP48sx may be dead--Help!

Message #4 Posted by [David Smith](#) on 4 Dec 2002, 5:58 p.m.,
in response to message #1 by Jacob

Make sure the batteries are in properly...

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

50 HP-12C - only \$3150.00 on ebay :P

Message #1 Posted by [Tony David Potter](#) on 3 Dec 2002, 9:41 p.m.

...and free shipping.

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1942395385>

Perfect for that holiday season.

--Tony David

Re: 50 HP-12C - only \$3150.00 on ebay :P

Message #2 Posted by [Glen Kilpatrick](#) on 4 Dec 2002, 1:25 p.m.,
in response to message #1 by Tony David Potter

This looks like only 10% off list, and they MUST be the new Chinese ones. This doesn't look like any kind of deal at all (and I suspect I'm not the only one drawing this conclusion, as there are no bids for it so far...).

Re: 50 HP-12C - only \$3150.00 on ebay :P

Message #3 Posted by [Gordon Dyer](#) on 4 Dec 2002, 7:31 p.m.,
in response to message #1 by Tony David Potter

Selling at \$63.00 per unit.

Av. eBay selling price for last 30 units has been \$64.04 !! Seems like a lot of effort to make \$1 per unit, IF the price holds.

Hasn't everyone who wants one already got a 12C ?? I have an old one in A1 condition, but are the new Chinese ones as good on quality and keyboard feel?

Re: 50 HP-12C - only \$3150.00 on ebay :P

*Message #4 Posted by [Pyerre L](#) on 4 Dec 2002, 8:01 p.m.,
in response to message #3 by Gordon Dyer*

Well, I have one s/n CN1250xxxx. Dad also has one made in sept,1981 and he's laughing about mine.

Means it all,

Pyerre :-(

Re: 50 HP-12C - only \$3150.00 on ebay :P

*Message #5 Posted by [Gordon Dyer](#) on 4 Dec 2002, 8:20 p.m.,
in response to message #4 by Pyerre L*

Tell me more about the differences in quality and keyboard feel?

Do you agreee with your dad? My only experience of old and new was with 10B calcs and I didn't like the new one... keys didn't have a nice positive click and the finish on the bezel was poor, also the colour of the key markings was yuk!

Re: 50 HP-12C - only \$3150.00 on ebay :P

*Message #6 Posted by [Pyerre L](#) on 4 Dec 2002, 9:39 p.m.,
in response to message #5 by Gordon Dyer*

Hi,

Talking about mine :

- The blue labels printed on the keys were dark and are almost illegible because they're painted on a dull surface not sharply stood out on the shiny surface like on the older units.
- The bezel does not have the same rich black color.
- The keys had none of the snappy feel like on dad's 12C and give multiple inputs for the same keystroke.
- The body is not really aligned on the table surface and it rocks while hitting fingers on it.

I don't know how to explain it well in a good english way but my new HP-12C turns out to be such a \$50 sorry piece of work.

He's still laughing about me & got my 10C that pleased him too. Sniff!

Re: 50 HP-12C - only \$3150.00 on ebay :P

*Message #7 Posted by [Gordon Dyer](#) on 4 Dec 2002, 10:17 p.m.,
in response to message #6 by Pyerre L.*

I agree with everything you say!

It aligns exactly with my experience of the newer 10B, so I found an older 10B and bought that...much better!

So I suggest you look out for an older 12C and invest, you can sell seel your new one.

Re: 50 HP-12C - only \$3150.00 on ebay :P

*Message #8 Posted by [Pyerre L.](#) on 5 Dec 2002, 2:51 p.m.,
in response to message #7 by Gordon Dyer*

Hi,

Have you ever seen & got in touch with the new HP-10BII ? Our 10B & 12C still be far better than those. Great consolations anyway.

IMHO though !

Pyerre

Re: 50 HP-12C - only \$3150.00 on ebay :P

*Message #9 Posted by [Raymond Hellstern](#) on 6 Dec 2002, 4:33 a.m.,
in response to message #8 by Pyerre L.*

Hi,

sorry to invade in your conversation;-)

I've (amongst many others) a 10BII. My experiences in short:

It looks what it is: cheap (only the price is too high).

The front finish only looks somewhat nice if you view it at a specific angle; from all other views you'll see the waves on the surface of the housing. The keyboard legend colors could have been more ergonomic, but that's a problem with *all* ACO calculators, the designers are simply

color-blind (Reference: 32II,49G...)

The 10BII keys have tactile feedback, more than you would want to. It makes a loud 'knack' when you press a key, and you have to press the key with heavy force. The force needed to press a key is comparable to that needed on a brand new HP-34C, which is very much compared to the HP-41's keys.

However, the 10BII occasionally loses key strokes, and sometimes displays more digits than I have entered...

The best (joke) of it all: The housing edges are surrounded by a rubber frame, so the calc won't slide off your hands. BUT: The back case of the 10BII is nearly plane, and the battery door looks some parts of a millimeter out the plane, and the very small (like hamster shit) rubber feet don't even have contact to the desk surface due to that outstanding batt door!

Conclusion: The calc is full of rubber, but vanishes if you try to use it on a desk. Good to have a litter can nearby.

The 10BII is the worst HP/ACO calc, the 6S, 9g, 9s don't count here, because they're only relabelled calcs from other brands.

Regards,

Raymond

(Sorry for my bad english, I'm just somewhat tired)

Re: 50 HP-12C - only \$3150.00 on ebay :P

*Message #10 Posted by [Pyerre](#) on 6 Dec 2002, 10:39 a.m.,
in response to message #9 by Raymond Hellstern*

Agree,

Too much expensive (\$49.99 CAD + taxes) for a such poor quality calculator made (by HP?). Got one too and then sent it back to store for the full credit.

Pyerre

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Thanks -- HP-41 Card Reader Saved!

Message #1 Posted by [Gordon Dyer](#) on 3 Dec 2002, 8:05 p.m.

Thanks to Tony Duell, Steve and Luiz Claudio for their help in getting my card reader fixed - saved from oblivion...

I had a lot of fiddly fun fixing it but couldn't have done it without their help and spare parts.

It's all thanks to the contacts made in this forum.

Gordon.

Re: Thanks -- HP-41 Card Reader Saved!

Message #2 Posted by [David Smith](#) on 4 Dec 2002, 5:57 p.m.,
in response to message #1 by Gordon Dyer

What was the final solution to the problem?

Re: Thanks -- HP-41 Card Reader Saved!

Message #3 Posted by [Tony Duell \(UK\)](#) on 4 Dec 2002, 6:13 p.m.,
in response to message #2 by David Smith

IIRC, one winding of the head was open-circuit.

Re: Thanks -- HP-41 Card Reader Saved!

Message #4 Posted by [Gordon Dyer](#) on 4 Dec 2002, 7:22 p.m.,
in response to message #3 by Tony Duell (UK)

Yes, it was an open circuit winding in the head.

Hard to imagine why it should go o/c when the unit had never been opened. Is this a common problem?

The unit I repaired was Ser. No. 2051S45265

The unit used for spares was Ser. no. 2058S45914

I noticed that the repaired unit had some mods with wire links to the circuit board and the spares unit had a new design of board with fewer components and no wire links, so the design was cleaned up between these dates.

Also the potting compound used in the head was different in the newer spares unit, it is black.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 11C

Message #1 Posted by [Marty](#) on 3 Dec 2002, 7:01 p.m.

A friend of mine has a HP 11c that displays "ERROR 4" when turned on. Does anyone know what this means and how to fix it?

Re: HP 11C

Message #2 Posted by [Raymond Hellstern \(Germany\)](#) on 3 Dec 2002, 7:47 p.m.,
in response to message #1 by Marty

Does your friend have a manual for his 11C? If yes, he should look there first (RTFM), otherwise here's an excerpt of it.

The 11C manual says:

Error 4: Improper Line Number or Label Call. Line number called for is currently unoccupied, or nonexistent (>203), attempt to load more than 203 lines of program memory, or label called does not exist.

Or in other words: Clear that buggy program...

Raymond

Re: HP 11C

Message #3 Posted by [Marty](#) on 3 Dec 2002, 8:40 p.m.,
in response to message #2 by Raymond Hellstern (Germany)

Thanks for the tip! I'll pass it along to him and let you know how it turns out.

Re: HP 11C

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 4 Dec 2002, 12:02 a.m.,
in response to message #1 by Marty

Hi;

I'm sorry to ask, but does the ERROR 4 appears instantly? Say, at the very moment he turns the calculator ON? Or he turns the calculator ON and try to run a program, say, press [A] key with USER active?

As you told it's a friend of yours, maybe you'll have to ask him about this. Also, Raymond's tip is the best one: purge the program out.

I am asking for this because I had in mind that the only message that appears in a Voyager when it is turned on is Pr Error. I'm curious about it... I have an HP11C and I have never seen such behaviour.

Cheers.

Re: HP 11C Stuck key ?

Message #5 Posted by [Renato](#) on 4 Dec 2002, 7:08 p.m.,
in response to message #1 by Marty

Maybe it is a stuck key. IF user mode is on AND a label key is stuck this WILL happen, IF there is not a label corresponding to the stuck label key. You can try clearing memory with ON - (Turn off, hold minus key, turn on, release minus key), then run a keyboard test (turn off, hold divide key, turn on, release divide key, press each key starting from top left). Anyway, if the key is stuck, this will not correct the problem, but at least you will know what the problem is.

Re: HP 11C

Message #6 Posted by [MARTY](#) on 9 Dec 2002, 2:16 p.m.,
in response to message #1 by Marty

I have not heard from my friend with the 11c to see if it is fixed. I will update ya'll when I hear from him. Thank all of you for the responce. This is a great web site!

Marty

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

LED in HP 82104A

Message #1 Posted by [Gunnar](#) on 3 Dec 2002, 4:01 p.m.

Hello!

Do you know some things about the funktion of the LED in the HP 41 card reader?

Best regards.

Gunnar

Re: LED in HP 82104A

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 3 Dec 2002, 4:14 p.m.,
in response to message #1 by Gunnar

Hi;

I have one working card reader and I have seen at least 15 of them. I have never seen a LED in any.

I'm somewhat curious; does it work alright? What is the possibility it's not a card reader inside? I read in this forum that a sort of MLDL was built inside a card-reader's box.

Anybody know anything about it? Is it possible that you have an MLDL (machine-language development l...(??)) instead of a card-reader?

If it is indeed a card reader AND if you, one day, open it, please, take pictures so we can figure out what is this LED for./

Cheers.

Re: LED in HP 82104A

*Message #3 Posted by [Gunnar](#) on 3 Dec 2002, 4:48 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Hi!

I'm sure that it is a LED, but i have never seen it lighting (IR ?). I have an normaly card reader (I hope).

Best regards Gunnar

Re: LED in HP 82104A

*Message #4 Posted by [Raymond Hellstern \(Germany\)](#) on 3 Dec 2002, 4:16 p.m.,
in response to message #1 by Gunnar*

Hi,

I don't know exactly, but I think it's some kind of light barrier ('Lichtschranke')

Regards,

Raymond

Re: LED in HP 82104A

*Message #5 Posted by [Michel Beaulieu](#) on 3 Dec 2002, 4:53 p.m.,
in response to message #1 by Gunnar*

I think it a IR LED that, with a receptor, "sense" the presence or the card insted or a dip switch activate with the card

Re: LED in HP 82104A

*Message #6 Posted by [Gunnar](#) on 3 Dec 2002, 5:13 p.m.,
in response to message #5 by Michel Beaulieu*

I think, that the "sense" is a electrical contact. I don't see a photodiode or something else. Only a stand alone LED (no colour).

Gunnar

Re: LED in HP 82104A

Message #7 Posted by [Gunnar](#) on 3 Dec 2002, 5:13 p.m.,
in response to message #5 by Michel Beaulieu

I think, that the "sense" is a electrical contact. I don't see a photodiode or something else.
Only a stand alone LED (no colour).

Gunnar

Re: LED in HP 82104A

Message #8 Posted by [David Smith](#) on 3 Dec 2002, 5:16 p.m.,
in response to message #1 by Gunnar

It is an IR led used to detect when the card edge has passed by. I've never had to figure out if it is for start-of-card, end-of-card, or write-protect. There is a tiny photodiode mounted on the little circuit board that forms the switch contacts. The card passes between the LED and the photodiode.

Re: LED in HP 82104A

Message #9 Posted by [Tony Duell \(UK\)](#) on 3 Dec 2002, 5:38 p.m.,
in response to message #1 by Gunnar

There is a photodiode (or maybe a phototransistor) on the switch contact PCB on top of the reader mechanism. This LED (which is an IR one, so you won't see it glow) forms a light barrier with that detector to sense the clipped corner of the card for write protect. Somewhat surprisingly, the card-inserted and card-at-head functions are still performed by mechanical switches. The LED is driven by the 1826-0322 sense amplifier chip -- the part of that chip that was used for motor control in (e.g.) the HP67.

Re: LED in HP 82104A

Message #10 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 3 Dec 2002, 11:54 p.m.,
in response to message #1 by Gunnar

Hi, Gunnar.

I understood the LED was outside the card reader, as you did not mention your card reader was opened. I gave my thoughts wings and they have gone far, far away...

Indeed, the card reader has an inner tiny light-sensitive device.

Sorry for the bad clues...

Cheers.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

71b 41 translator has Forth?

Message #1 Posted by [Andy](#) on 3 Dec 2002, 9:29 a.m.

The following auction (<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&category=11713&item=1942200049>) claims that the 41 translator ROM for the 71b contains Forth and the Assembler.

Is this true?

Andy

Re: 71b 41 translator has Forth?

Message #2 Posted by [Philip](#) on 3 Dec 2002, 10:21 a.m.,
in response to message #1 by Andy

Well, yes the 82490A HP41 Translator ROM does contain FORTH because the emulation is based on FORTH. It also contains an editor. Both FORTH and the editor are accessible with the Translator ROM. However, the FORTH system in the Translator ROM is not identical to the FORTH/Assembler ROM. The Translator ROM does NOT contain the Assembler. According to the Translator Manual on page 74, "The HP-41 Translator Pac does not contain an assembler, but its built-in word set contains additional floating-point words and other HP-41 words not found in the FORTH/Assembler ROM."

So, unless the ROM listed is a modified version of the 82490A, it doesn't support Assembler.

Re: 71b 41 translator has Forth?

*Message #3 Posted by [Andy](#) on 3 Dec 2002, 2:04 p.m.,
in response to message #2 by Philip*

So is it possible to have both the 41 translator ROM and the FORTH/ASSEMBLER ROM plugged in at the same time?

What happens when you type "FORTH" ?

Thanks,

Andy

Re: 71b 41 translator has Forth?

*Message #4 Posted by [Philip](#) on 3 Dec 2002, 2:45 p.m.,
in response to message #3 by Andy*

No, they will not coexist. In fact the manual says, "Never install the HP 82490A HP-41 Translator Pac module and the HP 82441A FORTH/Assembler ROM Module into the HP-71 at the same time. The presence of both modules can cause the system to operate incorrectly."

If you have either module in the HP71 and you type FORTH, you will be in the FORTH system and have access to all FORTH commands.

Re: 71b 41 translator has Forth?

*Message #5 Posted by [Raymond Hellstern \(Germany\)](#) on 3 Dec 2002, 4:20 p.m.,
in response to message #4 by Philip*

A small addition:

The 82490A and the 82441A can't coexist in the same machine at the same time because they both have a portion of ROM which uses the same fixed address range.

Raymond

Re: 71b 41 translator has Forth?

Message #6 Posted by [Andy](#) on 4 Dec 2002, 2:59 p.m.,
in response to message #5 by Raymond Hellstern (Germany)

So, what happens if you plug in the 41 translator rom, type "forth" and then "bye" so the FORTH RAM file is created in ram. Then remove the 41 translator rom and plug in the forth/assembler rom?

Will the FORTH RAM file created by the 41 translator rom have the forth words needed to run the 41 emulator but now using the forth/assembler rom?

Re: 71b 41 translator has Forth?

Message #7 Posted by [Raymond Hellstern \(Germany\)](#) on 4 Dec 2002, 6:21 p.m.,
in response to message #6 by Andy

The Assembler ROM creates and uses a file called FORTH RAM (2947 bytes), whereas the Translator ROM creates and uses a file called FTH41RAM (1114 bytes).

Does this answer your question?

Raymond

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

strange power-on of HP41C

Message #1 Posted by [Holger Weihe](#) on 3 Dec 2002, 7:12 a.m.

Hello,

my HP-41C behaves somehow strange. If it is off for more than a few minutes, I have to press the ON-Button _exactly_ 3 times for switching it on.

Did anyone see this before? Is it a sign of aging (or dying :-O) of the calculator?

Holger

Re: strange power-on of HP41C

Message #2 Posted by [Emmanuel, Normandy \(France\)](#) on 4 Dec 2002, 5:49 p.m.,
in response to message #1 by Holger Weihe

Please press ENTER, ON and keep the first key down up to NULL. What's up?

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Updated: Calculator sales prices on ebay.de

Message #1 Posted by [Holger Weihe](#) on 3 Dec 2002, 7:05 a.m.

Hello,

today I updated the price-table:

<http://www.hweihe.de/hp/preistabelle.htm>

Holger

Re: Updated: Calculator sales prices on ebay.de

Message #2 Posted by [David Smith](#) on 3 Dec 2002, 5:26 p.m.,
in response to message #1 by Holger Weihe

Keep up the good work.

It is interesting that HP21 and HP25 machines bring about the same money. The HP25 is so much more capable. Also somebody got a nice deal on the HP46 and HP65 (unless they had problems).

An interesting number would be the average selling price of all the HP machines.

Re: Updated: Calculator sales prices on ebay.de

*Message #3 Posted by [Holger Weihe](#) on 4 Dec 2002, 3:10 a.m.,
in response to message #2 by David Smith*

No problem: The average selling price in the moment is: 90,22 Euro.

The HP-46 was in good condition. The HP-65 I have classified as B which normally means working but in no good shape. (I have to rely on the descriptions at ebay for the classifications).

Holger

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

First calculators...

Message #1 Posted by [first calculators...](#) on 2 Dec 2002, 4:09 p.m.

Since Michael Beaulieu started the "first calculators" thread I'll put my two bits in as well...

I was in thrd grade in Dec. 1973. (Maybe this calc was acquired in a post-Christmas sale in Jan 74) and my dad acquired "for us" a Sears LED four-banger calculator after a summer of me continually wandering by the Bowmar Brain and HP demo calcs at Macys, Sears, etc while we were on shopping outings. IIRC, we paid \$129.95 which wasn't bad at the time. This calc was quite well made, had built-in NiCd rechargeables, etc. However, it had the "+=" and "-=" adding machine logic keys. The keys were of a square design, rounded corners, with a raised circle keytop on it. I was cautioned to wash my hands before using the calc by Dad, so "my greasy fingerprints" wouldn't wear the "logos" off the key. [Perhaps he'd already had experience w/non-double-injected keytops on other devices ;-)] IIRC, at least some of the key legends were "in negative": round keytop all black, w/ white symbol legend. Very good click keyboard.

I believe this Sears calc was really an older TI design under the hood. The calc was fairly thick and had 2 PC boards, IIRC - we had it open once (checking innards after a coffee spill) and I recall it being far from a one-chip design: lotsa discretes, driver transistors, etc. The style and appearance *may* have been indicative of a Melcor design as those were private-labelled by Sears but the Melcor may've been a tad later.

My dad just used it for adding tax stuff, receipts, etc. But as I grew a tad older we argued in circles about "MDAS" order of operations and what $6+4 \times 5$ really equalled - I said 26, he said 50, and we each had half my math teachers backing us up ;-)

In late 75 we also got a Casio "Pocket mini" calc which became "Mom's calc". Had flourescent display, used two AA batteries, was a little bigger than a pack of Marlboros, easier to use than Sears calc, better on batteries. It had ordinary +, -, X, / keys but IIRC not MDAS algebraic logic. After a year of moderate use there was some keybouce. In 1979 it went haywire - terrible bounce on many keys. We took it apart to clean keypad but did no good. The KB internals were a sheet of springy stainless with punched springy tabs; these contacted wire 'jumpers' on PCB when keys depressed. IIRC, calc used Hitachi IC and I think one NEC IC as well (display driver?).

In summer of '76 I was just outta sixth grade; we were both taking some classes for to get ham radio licenses, and a sci calc was nice for some log & trig operations. Plus I was picking up a bit of trig for some triangle problems my dad would pose to me (summers were not just layabout affairs). Again Sears had a calc on sale for us: an APF Mark 50 (?) sci calc for \$29.95. I wanna say this used a GI (Gen'l Instrument) chip (but can't remember rightl now.) Most of the sci functions were shifted functions of the basic number + four-banger keys. It did NOT have base-10 logs/ 10^x - only $\ln(x)$ and e^x . And I don't think it had a y^x or xth-root-of-y key either - hadda use log/antilog. But at least you could do SOMETHING. I soon became aware that log/trig functions were approximations - esp on this calc! (I'd trot over to Macy's with a sheet of APF results and compare them to HP's.) Was quite power hungry and ate 9V batteries.

In summer of 1977 while on vacation in Oregon we saw a TI30 "Student Math Kit" on sale for \$25 (+/- a few bucks). My dad liked the book, thought it'd be good for me (though I knew much of the ground anyway) and liked the fact that it had direct log & trig functions without a lot of shifted keys. Plus my dad figured it'd be easier on 9V batteries.

For Christmas 1977 (8th grade) my folks got me a Commodore PR100 - dad's friend had one, liked it, and I'd been jumping for a programmable. (Folks had NO idea why ANYONE needed to do a 'program'.) We got it from Mr. Calculator in Town & Country Village shopping ctr in Palo Alto. But after a few days' use the keyboard was real bouncy, the instruction manual had missing pages, etc. so pops took it back for credit toward a TI58. I really REALLY wanted an HP25C (maybe 29Cs were out then; 55s/67s were way out there pricewise) because I *knew* RPN was better. But pops thought RPN was some kinda fad/marketing thing, and besides, "...the Air Force Academy math program recommends TI and AOS...", which of course hooked my dad, the one controlling the purse strings for such items.

Getting an unexpected upgrade to a "big boys' programmable" was better than I ever expected so I kept my mouth shut about HPs and RPN. I did like the TI system concept - there was a multipage spread in the Aug. 1977 Scientific American (kinda a famous issue about semiconductor trends) on the TI58 and TI59 and I was impressed.

For the next couple of years I did quite a bit of programming on the 58, got wondering about the innards and why a calc did what it does. For some reason I got interested in gamma function and factorials of big numbers, etc. and wrote lotsa programs in that vein. A buddy with a 58 and I were gonna do a joint purchase of a PR100 printer but we couldn't get the bux together. We already knew we wanted permanent storage and print facilities :) We did get a copy of the TI Notes (?) newsletter (Maurice Swinnen of Maryland, I believe) where we heard of intersting functions like HIR and speed-up functions - dunno why we didn't subscribe.

All hell broke loose when the HP41 system came out in 1980 (?). That was *THE* thing. I craved it like nothing else. By my senior year in HS, and being pretty good in math, I think I convinced my folks that I really knew that RPN was better, and they could vaguely understand that continuous

memory was nice. I got a 41C for Xmas 1981 (they got it from ElekTek in Chicago), and 41C Math and Memory modules for my birthday that April from the local HP emporium, Kennedy Business Machines on El Camino in San Mateo (dept stores had cut back on HP stocks at the time.)

Another buddy and I shared Wickes' SP book on HP41 that summer - and that's where I learned of byte grabbers, SP, and doing things you shouldn't on calcs - like NOT disturbing Register C! Was very interested in how calcs calculated log & trig functions: I knew that the power series stuff in calculus class wasn't all there was too it, and already had a bit of insight to know there must be shortcuts to be effective and not have lotsa divisions, etc. Knew some people with VASM listings of HP41 code but my assembly code interests were veering over to 6502 world... really wanted a KIM1/SIM1 SBC.

Bill Wiese San Jose, CA

Re: First calculators...

*Message #2 Posted by [Ren](#) on 3 Dec 2002, 4:57 p.m.,
in response to message #1 by first calculators...*

I remember my first calculator...My fingers! I remember sitting on our porch steps before I started the first grade (didn't go to kindergarten) doing rudimentary multiplication (3 threes is 9, 3 twos is 6, 2 fours is 8, 4 twos is 8, and so forth). Then I started school the next year and Math ("Numbers" as it was called) lost all of its fun for me. Something I've never fully recovered.

Re: First calculators... -> Memories Forum

*Message #3 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 4 Dec 2002, 5:29 p.m.,
in response to message #1 by first calculators...*

Consider posting your comments on the Memories Forum...

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP41C

Message #1 Posted by [Ray Fuller](#) on 2 Dec 2002, 2:47 p.m.

Hi After some 10 years I came across my 41c calculator. I knew the rechargeable battery was dead so went and got 4 new N batteries. Cleaned the battery contacts and tried it and got no display. Looking for any suggestions to try or is it something that might not be fixable.

Also found my HP45 and that worked like a charm after 15 or 20 years.

Please let me know where to start?

Ray Fuller

Re: HP41C

Message #2 Posted by [Bill Wiese](#) on 2 Dec 2002, 2:58 p.m.,
in response to message #1 by Ray Fuller

Ray...

Sometimes HP41s (C/CV/CXs) don't always power up after a "big sleep", battery change after discharge, etc.

Before we go on, I trust that the N cells are all good and are inserted properly? No corrosion on the 41C batt terminals in the compartment?

Do a full reset (i.e., try for MEMORY CLEAR). Try this also WITHOUT the batteries installed. Short the terminals, let sit for awhile, rinse, lather and repeat...

There IS a chance that over time the polymer & PCB connector "sandwich" between the two halves has lost contact, tension, etc. Lightly but firmly squeeze the calc front & back, along the system keys (ON/USER/PRGM/ALPHA) and down by the numeric area (centered on [5] key).

Bill Wiese San Jose, CA

Re: HP41C

*Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 2 Dec 2002, 7:49 p.m.,
in response to message #2 by Bill Wiese*

Hi;

I've seen that the worst corrosion OR oxidation remainder is the one between the IO/BATT assembly and the mainboard. In many cases, opening the calculator and cleaning the contacts between these parts will allow it to work again.

There is another "maneuver" one can try: shortening the electrolytic capacitors. They are easy to find in both fullnut and halfnut: check for the bigger components and shorten their terminals with any conductive metal. You can use paper clip previously folded so it will shorten the capacitors terminals. Go for the big one first, then to the smaller one. In most cases, the sleeper awakens.

Anyway, try other alternatives before opening the calculator; avoid this as often.

Cheers.

Re: HP41C

*Message #4 Posted by [Ray Fuller](#) on 2 Dec 2002, 7:51 p.m.,
in response to message #2 by Bill Wiese*

Tried draining memory and also measure voltage at Battery terminals. It was 6 volts of the proper polarity with a jumper across middle battery terminals.

I am pretty much convinced that it is poor contact between the keyboard deck and main board. I looked at the article of Stefan Vorkoetter, who seemed to have a similar problem. He states just lift the circuit board out. My calculator has a hex nut? stud? where the screws were removed. It doesn't just lift out and I don't dare force it. The calculator did work alright 10 years ago so I wouldn't expect a faulty component.

Anybody got any ideas

Re: HP41C

*Message #5 Posted by [Ray Fuller](#) on 3 Dec 2002, 10:20 a.m.,
in response to message #4 by Ray Fuller*

Got it working I think shorting the capacitors did the trick.

Thanks Ray Fuller

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

First calculator story

Message #1 Posted by [Michel Beaulieu](#) on 2 Dec 2002, 12:49 p.m.

With december, i still remember one of the finest gift i got : an electronic calculator; for sure it was not a HP; it was given to all kids in a big business party: i received a TI-1200 and the girls received a TI-Lady1200 :-))). My father's BOSS received at the same time an HP-35 from the employees! I asked him to try the calculator and find that my 4 functions calc is better, less complex to use and gave him back (i was 8-9 years old). I never saw a 35 nor any HP for another 15 years of school!!! My TI-1200 i still working but the keys are "bouncing". It was my best gift for years - i'm sure the HP-35 is still working! Do you remember when you recived your first calculator? what model? I like reading all the post here, i'm new to HP and perhaps i'll change my daily TI for a HP!!!

Which HP?

Message #2 Posted by [Michel Beaulieu](#) on 2 Dec 2002, 1:16 p.m.,
in response to message #1 by Michel Beaulieu

"...change my daily TI for a HP!!!" I already have 6 HP but i don't trust me on these machine so they are just there for "collection purpose only", you know 25 years of TI let it hard to learn something new. I found the HP-30s very easy but not programmable ;-(, The HP-20S Very nice and easy, the HP-75C Humm... Big, The 35 beautiful but lack some math functions, the 38G boring and the 41CX a MUST have but don't want to use it too much - too nice to use :-). Do i have a wide variety of HP calculators or i miss some "kinds". There were given to me over the years but now i want you to tell me Which HP i should really focus on to learn it well and use in my every day job (even if i need to buy another HP).

Thanks Michel

Re: Which HP?

*Message #3 Posted by [Chan Tran](#) on 2 Dec 2002, 2:20 p.m.,
in response to message #2 by Michel Beaulieu*

I think you should learn and use the 41CX. As for buying a new one I would suggest the 48GX, for old ones try a 67 or 97 or a 65. Those are basically top of the line in its time.

Re: Which HP?

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 2 Dec 2002, 2:33 p.m.,
in response to message #3 by Chan Tran*

Hi;

I'd suggest the amazing Voyagers: HP10C, HP11C, HP12C, HP15C, HP16C. They are bulldozers, ready-to-use, easy as it gets, powerfull and... why not to say? nice good-looking machines.

You should try one of them, any of them. Both 16C and 15C are top-of-line, the 12C is the financial model, the 11C is all-terrain and the 10C is the - how to say? - collector's choice: the low-profile, yet the easiest to find.

Try one and tell me about it.

Cheers.

HP-1xC

*Message #5 Posted by [Michel Beaulieu](#) on 2 Dec 2002, 2:44 p.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)*

Where to find a 10C, 15C or a 16C, i think they are not produced anymore because i found a 12C on the HP site but not the 15 or 16, perhaps i miss something on the HP site. Is there more business man (12C) than scientific (10C) interrest in HP?

Re: HP-1xC

*Message #6 Posted by [Jim L](#) on 2 Dec 2002, 2:57 p.m.,
in response to message #5 by Michel Beaulieu*

You're looking for calculators that HP stopped making 13 years ago, so try the [classifieds](#) and [ebay](#).

Also, flea markets, thrift shops and garage sales will be MUCH cheaper than anything online but you may have to dedicate several weeks or months to the search.

Re: HP-1xC

*Message #7 Posted by [Glen Kilpatrick](#) on 2 Dec 2002, 3:08 p.m.,
in response to message #6 by Jim L*

It's undoubtedly No News (just stop by the HPShopping website), but the 12C is still being sold. The two ways it differs from the original of the 1980's are [1] one coin battery instead of three button ones (I know this), and [2] running one next to an AM radio tuned off-station yields a barely detectable buzz, whereas the original makes a loud one (I've read this). [2] is undoubtedly a function of lower-powered circuitry that allowed [1].

Whether you want a 12C or not though.... It's a great RPN machine, just few scientific functions.

I forgot to mention that...

*Message #8 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 2 Dec 2002, 3:44 p.m.,
in response to message #6 by Jim L*

Sorry;

I was so much concerned about the calculators that I forgot to mention that fact. As Michel mentioned many old models, I did not take into account these wonderful machines were not easy to find. all of them.

Thanks Jim and Glen.

My first was an HP-41C

Message #9 Posted by [gene](#) on 2 Dec 2002, 9:55 p.m.,
in response to message #1 by Michel Beaulieu

Bought it myself when I graduated high school.

This was after a TI SR-16II, TI SR-51A, an SR-52 card programmable, and a TI-58C with constant memory.

Saw a brochure for the 41c with alpha characters and never looked back.

Gene

Re: My first was an HP-41C

Message #10 Posted by [Frank Wales](#) on 3 Dec 2002, 12:06 p.m.,
in response to message #9 by gene

Same here. I'd gone through various cheap machines while at school, got a TI-58 for university, didn't like it, got an HP-33 to replace it, was impressed, saw an ad for the 41C, was instantly smitten, and also never looked back. There's a fuller account here, for those with a few moments to spare: <http://www.limov.com/rcl20/chapter.lml>

I have never received calc as gift

Message #11 Posted by [Chan Tran](#) on 3 Dec 2002, 3:16 p.m.,
in response to message #9 by gene

I have never received a calculator as a gift even though the people that know me know that I like calculators. My first calculator was an HP25. I bought it in December, 1975. Well, I have bought many more calculators after that.

Re: First Calculators

Message #12 Posted by [Frank](#) on 4 Dec 2002, 7:45 a.m.,
in response to message #9 by gene

Let's see, 4 function National in about 1971/72, APF Mark 51 full scientific in 1975 complements of Sears, SR 50A, 51A and SR 56 in 1976 along with some other models like Commodore scientifics (Sears) and the APF Mark 55 rpn, 1977 Commodore M55 and HP29C and some lessers, 1978, TI 58 and others, 1979 Sinclair Programmable and others. Early 80's, HP 15C and TI 58C.

Lol. A commodore M55 is at the top of my WANT list :-)

*Message #13 Posted by [Gene](#) on 4 Dec 2002, 7:51 a.m.,
in response to message #12 by Frank*

I have the N60 and S61, but haven't been able to grab an M55 yet. Those were the most specialized beasts ever made.

Re: First calculator story

*Message #14 Posted by [Math Geek](#) on 3 Dec 2002, 4:44 p.m.,
in response to message #1 by Michel Beaulieu*

Started on a TI in high school, a TI-55, I think. 9 or 10 registers, 7 or 8 instructions per register OR registers could store 1 number. Got old quite quickly.

In college many others bought what I think was a CASIO. It was 6-7 inches wide, 3 inches tall, QWERTY keyboard, programmed like a computer.

I remembered my youthful facination with the HP calcs with 3 functions per key, and took someone's advice to buy a 15C.

Then I (uncontrollable sobbing, beating my head against a wall, ...) SOLD IT and bought a 41CV (with many of the toys, of course). I DIDN'T THINK I WOULD WANT THE 15C YEARS LATER!! PLEASE FORGIVE ME MY UNPARDONABLE SIN!! :``-(

Plug-in modules, IR wand, card reader, 28C, 28S. Next?

Re: First calculator story

*Message #15 Posted by [Ron Ross](#) on 3 Dec 2002, 5:16 p.m.,
in response to message #14 by Math Geek*

My mother bought me a Tandy four banger in High school (1978) and I wanted a real scientific instead (but didn't want to hurt Momma's feelings). Suffered for almost a year, bought a Ti-30 as a senior (didn't know any better), got to college and promptly bought a Ti 55 (stats measured up to an HP at 1/2 the cost, HOW LITTLE DID I KNOW). Left school but came back into engineering and my Ti 55 promptly suffered keyboard bounce failure. I bought an Hp15c and NEVER LOOKED BACK. It is my favorite, though I later upgraded to a 42s (best pocket calc ever). Neither get much use, since I now use a 48gx (great calc with memory cards). (Because, while I would feel bad about losing a 48, I wouldn't need therapy, should I lose my 15c or 42s).

Re: First calculator story

Message #16 Posted by [rsenzer](#) on 4 Dec 2002, 12:02 p.m.,
in response to message #1 by Michel Beaulieu

My first calc was a ti sr50 in 1974. I used an hp35 in 1974 when I visited a friend at another college. The first hp calc that I owned was an hp34c which I still have, but it is non-functional at the moment.

Not necessarily comprehensive, but here are some others I have owned:

hp34c,15c,32sii,41c/cv/cx,71b,48gx,20s,19bii,6s&solar, 49g,30s

sr50,51a, ti58,58c,59,66,baii-plus

the sinclair rpn programmable, a couple of radio shack/sharp pocket computers, radio shack ec4021

I recently purchased a fully functional ti58c from an antique store for \$5, so of the above, I still own the following:

hp15c32sii48gx,20s,19bii,6s,30s. (I pulled the batteries from the 49 and put it in long term storage -- just don't like it for a variety of reasons.) ti58c,66,baii-plus. I have backup models for the hp20s,hp32sii,tibaii-plus.

I have and use a number of contemporary calcs not mentioned above. [I am a community college adjunct math instructor.] These include the ti83silver, ti86, ti89, ti92plus. I also have a ti 25,30xiis,34ii,34,36xsolar; assorted versions of casio 115,250,260,300; assorted versions of sharp 500,501,506,531; and a variety of other models that I have probably forgotten to mention.

I tend to rotate usage of these calculators so that the batteries don't go bad. I always carry a 32sii with me in my briefcase as well as one of the ti graphing calculators for teaching purposes. I like to carry another calculator with me as part of the rotation strategy. BTW, the worst of these calculators is the sharp 500, probably the only scientific calculator that might be less accurate than a slide rule.

As the batteries run out on some of these calculators, I just remove them and put the calculator away. I have done this for the casio 250, and will do this with most of the calculators that require a screwdriver to replace the batteries since I don't want to keep hassling with this.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Making new mini cassette tapes

Message #1 Posted by [Mike](#) on 2 Dec 2002, 10:48 a.m.

I have about 20 brand new mini cassette tapes (Fluke) that fit the 82161a drive. The problem is they are not HP and are a tiny bit too short.

That results in them not having enough tape to get through the initialization process. At least I assume that is why they fail? I get some sort of end of tape error at the end. They clearly run to the end and then fail.

What I was going to do was to measure one of my old HP tapes and try to lengthen these tapes by splicing a length from another tape. One tape should be enough to lengthen 5 or 6 tapes.

Anyone else ever try this?

Re: Making new mini cassette tapes

Message #2 Posted by [Massimo Gnerucci \(Italy\)](#) on 2 Dec 2002, 10:57 a.m.,
in response to message #1 by Mike

Mike, have a look at this <http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/forum.cgi?read=24257>

Massimo

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

RPN on Windows

Message #1 Posted by [Peter Scheller](#) on 2 Dec 2002, 6:57 a.m.

Does someone know a program to simulate a RPN-Calculator on Window-PC (to use it instead of the stupid standard-algebraic), freeware, shareware, anywhere ? Thanks for reply

Re: RPN on Windows

Message #2 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 2 Dec 2002, 7:13 a.m.,
in response to message #1 by Peter Scheller

There are simulators in the Museum "simulators" page, also take a look at TTCalc and to ev41.

Re: RPN on Windows

Message #3 Posted by [Peter Scheller \(Germany\)](#) on 2 Dec 2002, 7:50 a.m.,
in response to message #2 by Andrés C. Rodríguez (Argentina)

It is an advantage to be able to read ! Thank you

Re: RPN on Windows

Message #4 Posted by [Christoph Klug](#) on 3 Dec 2002, 4:52 a.m.,
in response to message #2 by Andrés C. Rodríguez (Argentina)

Hallo Peter : If you are looking for a HP-41 emulation take the V41 from Warren Furlow or the EMU41 from Jean-Francois Garnier. Last is a DOS applikation but includes much surprising and advanced features...

Best wishes from Germany

Re: RPN on Windows

Message #5 Posted by [Paul Johnson](#) on 3 Dec 2002, 8:18 a.m.,
in response to message #1 by Peter Scheller

Check out Calc98 at <http://www.calculator.org/>.

It's free, has an RPN mode, and runs on most versions of Windows, even has a version for your PocketPC.

(The roman numerals mode is interesting)

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

How to check an HP41 ?

Message #1 Posted by [GE \(France\)](#) on 2 Dec 2002, 4:23 a.m.

Hello, Recently my friend Bruno asked me how I would test an HP41 before purchasing it. He didn't say what model it was. So I came out with a small list of things to look for : shape, scratches, connectors (module and batteries), and some tests like trying a BEEP, indicators games, a few ON/OFF cycles, CAT 2 (with or without an extra test ROM like the Advantage for example). Maybe you can add some ideas to this list. Also, a quote (with / without manuals, box, extras...) would be of interest. Sorry for bugging this forum with obsolete stuff :-)))

Re: How to check an HP41 ?

Message #2 Posted by [Arnold](#) on 2 Dec 2002, 5:34 a.m.,
in response to message #1 by GE (France)

Hi,

You can check for the key-click reaction to test if some of the keys are 'lame' due to extensive use. All keys must have a firm click to it.

Regards, Arnold

Re: How to check an HP41 ?

Message #3 Posted by [David Smith](#) on 2 Dec 2002, 6:02 p.m.,
in response to message #1 by GE (France)

Enter ALPHA mode. Press each key three times and make sure it enters (from past experience my finger is calibrated to use three slightly different key press styles that are most likely to show up dirty key contacts). When the buffer fills and you get a beep, press <- to clear it and keep going until you have tested all keys.

Quick check of most logic and memory: press SIGMA+ three times. You should wind up with "3" in the display (if memory was cleared first). Bad memory will show 0 or 1. Also try to SIZE memory to its max value.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

SPAM in the classified ads

Message #1 Posted by [Math Geek](#) on 1 Dec 2002, 11:12 p.m.

Dave,

What's with this "home typists wanted" s**t? Can we edit out the useless SPAM?

Re: SPAM in the classified ads

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 1 Dec 2002, 11:50 p.m.,
in response to message #1 by Math Geek

Hi;

those brainless guys attack again... What a shame, isn't it?

There is an easy way to get rid of them, because anyone can erase them. I erase them both right now. Check it.

Simply open the add and copy the e-mail address of the one that posted the message in the field above Delet Add.

Doing this for fun is dangerous, because your IP is sent to the e-mail you used to erase the add. I don't care for this.

Cheers.

Re: SPAM in the classified ads

Message #3 Posted by [Math Geek](#) on 1 Dec 2002, 11:56 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

Much gratis!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Learning RPN

Message #1 Posted by [Michel Beaulieu](#) on 1 Dec 2002, 9:25 p.m.

Thanks for previous responses...

I'm learning RPN on my 41 since 2 weeks; you're all right it's easy to learn the basic. Even the majority of my physic students get it fast (but they find the calculator very ugly ;-)) (high school students). I make some errors when the expression is more complex and still need my 83+ to verify... Is there a site with a lot of exercices and answers where i can test my skill with more complex arithmetic than dummy $(3+6*5)^{2/3}$ exemples in the user's manual. Even if it's not a RPN specific site? I also show them a HP-35 and some asked me why they made calculator for darkness with LED insted of LCD with backlight :-)))... i think i'm getting older...

Re: Learning RPN

Message #2 Posted by [Renato](#) on 1 Dec 2002, 10:29 p.m.,
in response to message #1 by Michel Beaulieu

Michel, Wonderful story about your students. This is the post-Nintendo generation. We are pre-vhs.

About learning RPN: may I suggest getting the Museum CD at <http://www.hpmuseum.org/software/swcd.htm> . It includes the HP-45 applications book: a 218 pages book with keystroke sequencies on math, statistics, finance, engineering and navigation. I am sure many other books in the CD set will help.

HP CD

Message #3 Posted by [Michel Beaulieu](#) on 2 Dec 2002, 12:51 p.m.,
in response to message #2 by Renato

I bought these CD and use them for the HP-41 manuals only; thanks i'll check the others cd!!!

Re: Learning RPN

Message #4 Posted by [Math Geek \(american\)](#) on 1 Dec 2002, 11:08 p.m.,
in response to message #1 by Michel Beaulieu

Zut alors! Ugly indeed! Le 41 est une merveille d'art de l'ingenieur. Votre etudiants sont tres ingrat.

Re: Learning RPN

Message #5 Posted by [Michel Beaulieu](#) on 2 Dec 2002, 12:17 p.m.,
in response to message #4 by Math Geek (american)

They prefer the colorful HP-30s and the "option" to change the keypad... :-)

Re: Learning RPN

Message #6 Posted by [Math Geek](#) on 2 Dec 2002, 5:38 p.m.,
in response to message #5 by Michel Beaulieu

Then there are no "true" engineers in the whole bunch!

By-the-by: I hope my message did not insult the French language.

Re: Learning RPN

Message #7 Posted by [Tony David Potter](#) on 1 Dec 2002, 11:29 p.m.,
in response to message #1 by Michel Beaulieu

Here in Texas we have a Calculator Applications competition at the High school level. A study a few years ago showed that over 85% of the students at the state championships used RPN calculators -- percentage is said to be higher nowadays. I have some of the tests they use on my website -- <http://www.texasmath.org/DL>. "They have several mechanics" problems, as well as Stated Engineering and geometry problems.

I probably should state that this contest was originally the Slide Rule Applications contest prior to 1980, hence the dependance on mechanics.

--Tony David.

Re: Learning RPN

Message #8 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 1 Dec 2002, 11:38 p.m.,
in response to message #1 by Michel Beaulieu

Hi;

maybe they are just used to no-keys, soft-finger-touch, paddle-stick-like control panels... What the h...! Before the keyboards and CRT, computers had switch-board and light panels. I'd not like to learn and use them...

The worst is that we (our pre-generation, I'm not included) saw stuff and tried to enhance, improve them. Today's 'etudiants' are not interested on improving stuff, instead they are waiting for someone that will do it. The problem is that they are the ones to do it, and it seems they were not told about it.

About examples: there are good ones in some original Owner's Manuals for some calculators before the HP42S, but they are just a few ones. I'd add that the Voyagers are probably the last ones with authentic HP-quality manuals.

Renato gave a good tip; if you can, follow it.

Best regards.

Re: Learning RPN

Message #9 Posted by [Ernie Malaga](#) on 1 Dec 2002, 11:50 p.m.,
in response to message #8 by Vieira, Luiz C. (Brazil)

>Before the keyboards and CRT, computers had switch-board and light panels. I'd not like to learn and use them...

A recurring programmer's nightmare is being forced to carry a large stack of punched cards (remember 'em?) and stumbling, falling, and several hundred cards scattered all over the floor. Now try to sort them so they're in the proper sequence again!

I'm glad I missed the card era.

-Ernie

Re: Learning RPN

Message #10 Posted by [Math Geek](#) on 1 Dec 2002, 11:54 p.m.,
in response to message #9 by Ernie Malaga

You might be OK provided the card deck did not use "binary overrides". Reprint -- unless you were carrying the only copy!

Re: Learning RPN

Message #11 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 2 Dec 2002, 12:00 a.m.,
in response to message #9 by Ernie Malaga

Hi;

My first year as an Electrical Engineer student: ForTran and punched cards (1979). You bet I don't miss'em, too.

Re: Learning RPN

Message #12 Posted by [Dave Shaffer](#) on 2 Dec 2002, 5:27 p.m.,
in response to message #9 by Ernie Malaga

Ernie,

You learned early on to draw a diagonal stripe with a magic marker or pen across the top of your card decks. This wouldn't give you a one-to-one ordering if (when!) you dropped your deck of cards, but would get you close when you reassembled them. You also named/identified the decks the same way (i.e. writing on the top) - the first FAT?

For my thesis, I ran a program comprised of a few hundred of those FORTRAN cards that read about 20,000 data cards (many boxes full, at 2000/box if I remember correctly).

I will still make the claim that a card deck was much better for random access to an arbitrary card than is a word processor file - if you don't remember any word on the card but knew about where it was in the deck. It's easier to find something "about 2/3 of the way through" by eye than by scanning line-by-line with your word processor!

Re: Learning RPN

Message #13 Posted by [Ernie Malaga](#) on 2 Dec 2002, 7:58 p.m.,
in response to message #12 by Dave Shaffer

Dave:

Not bad, that trick with the diagonal line.

As far as cards vs. word processor, you simply cannot compare. A card deck is a database (even if it does not contain records of any sort), while a word processing document is a continuous stream of text. If you want to compare the card deck to anything of today, perhaps you should compare it against a database program such as Paradox or FileMaker.

-Ernie

Re: IBM Punch Cards

Message #14 Posted by [Paul Brogger](#) on 4 Dec 2002, 10:38 a.m.,
in response to message #9 by Ernie Malaga

For my first job out of school, I started at Boeing on the AWACS project. Security dictated a totally separate computer system and no dangerous network connections. Hence, all the surplus IBM gear (the keypunch machines and the huge gray "dupliator" and "interpreter" units noisily grinding through cards at about 1 per second . . .) This was indeed culture shock after learning on a time-shared HP-3000 BASIC system in college.

What I *liked* about the card experience was the nice physical manifestation it provided what is generally a very ethereal profession. My "library" of utility routines was a rubber-banded stack of cards that I simply included (tacked on the end) of whatever program I was writing. I actually got to carry things around and move them in & out by hand . . . (And, fortunately, I was working in PL/I, perhaps the most "acceptable" of the IBM languages then available.)

I'm glad I experienced it, but I don't want to go back!

Re: PL/I

Message #15 Posted by [Ernie Malaga](#) on 4 Dec 2002, 2:01 p.m.,
in response to message #14 by Paul Brogger

>(And, fortunately, I was working in PL/I, perhaps the most "acceptable" of the IBM languages then available.)

Ah, yes, PL/I. My one and only experience with that language was short-lived. The company where I worked took receipt of an AS/400 B45 back in January 1990, but having to relocate, I bid farewell in August of the same year.

During that time I wrote a complete system for the Human Resources department, all in PL/I, while the RPG compiler languished mostly unused. Sometimes I wonder how my replacement dealt with the PL/I programs, for I feel sure she didn't know a word of it. 8^)

The PL/I compiler for the AS/400 had a serious bug regarding external function calls which rendered programs buggy and unreliable. After reporting it to IBM, their reaction was to retire the PL/I compiler, which is no longer available on that platform. Apparently they didn't consider it worth their while to fix it!

Go figure. They killed their best programming language.

-Ernie

Re: Learning RPN

Message #16 Posted by [Ernie Malaga](#) on 1 Dec 2002, 11:56 p.m.,
in response to message #1 by Michel Beaulieu

>I also show them a HP-35 and some asked me why they made calculator for darkness with LED insted of LCD with backlight :-)))... i think i'm getting older...

My niece has an HP-19B calculator, which she uses forwards and backwards. Once I showed her my old slide rule, and she couldn't figure out what it was for. She was born in 1974, the year of the HP-65.

Does anyone remember the logarithm tables??? 8^)

-Ernie

Re: Learning RPN

Message #17 Posted by [Wayne Brown](#) on 2 Dec 2002, 7:26 a.m.,
in response to message #16 by Ernie Malaga

"Does anyone remember the logarithm tables??? 8^)"

Sure! I still keep a book of log tables on my bookshelf at work, as well as a couple of slide rules.

Re: Learning RPN

Message #18 Posted by [John](#) on 2 Dec 2002, 9:29 a.m.,
in response to message #17 by Wayne Brown

A couple of weeks ago, my daughter came to me for help with calculus. I pulled a copy of the CRC Standard Mathematical Tables (anyone remember those ?) and introduced her to the 700+ integrals inside, plus a whole lot more. She was amazed that this information was all in one book. She liked it so much she took it back to school with her.

It's a good thing I bought 3 of them for \$1.00 each at a used book sale when I was in college. (...and dinosaurs roamed the earth.)

Slide rule

Message #19 Posted by [Michel Beaulieu](#) on 2 Dec 2002, 12:32 p.m.,
in response to message #16 by Ernie Malaga

I showed them a slide rule (we have a objective in our program to show the evolution of some technology and i choose calculator this years) and they asked me how it works... I told them it's a log scale but when it came to do an exemple i was unable to satisfy this curiosity because i have no idea how to use a slide rule!!! - So i'm not so old. When i begun using calculator it was in 1979 and it was LCD (a TI-21). No more LED and slide rule in class; but my very first calculator was a nobility (clone of a TI-1200) i got on the knees of the "pere noel" (i don't know the english name of this personnage...)

Re: Slide rule

Message #20 Posted by [Dave Shaffer](#) on 2 Dec 2002, 5:31 p.m.,
in response to message #19 by Michel Beaulieu

"pere noel" = Father Christmas

Better known in English as Santa Claus (a contraction of "Saint Nicholas").

PS to use a slide rule, just remember that to multiply you add logs. The slide rule works by letting you add the logs (which are the lengths on the scale).

Re: Slide rule

Message #21 Posted by [Ernie Malaga](#) on 2 Dec 2002, 8:07 p.m.,
in response to message #19 by Michel Beaulieu

Michel:

Using a slide rule is tricky at best. The absolute most basic concept is, as Dave has pointed out, that the scales are logarithmic. Of all the scales, C and D are the "main" ones. If you want to multiply 1.2 times 5, you move the "1" of the C scale so it is on top of the 1.2 of the D scale. Then you travel along the C scale until you reach 5, and read the answer in the D scale: 6.

Things begin getting complicated when you work with several multi-digit numbers, for then an answer (on the C or D scale) that reads "2" may, in fact, be 0.2, 20, or 2×10^{-12} . There are guidelines for placing the decimal point correctly, and I used to know them 30 years ago, but not anymore.

Also tricky is estimating numbers. You get at least 8-digit precision when working with calculators, but slide rules -- even the best ones -- rarely give you more than 3. Very large slide rules may give you 4-digit precision. Plus, the movements one makes when sliding the rule are never precise, and the errors tend to accumulate.

And then there are the _other_ scales (the typical slide rule has a couple dozen), such as CI, DI, CF, DF, A, B, S, T, ST, L, LLn, LL0n, and so on ad nauseam.

I keep my old Faber Castell slide rule as a memento, but whenever I need to calculate something, I pick up my HP-41CX.

-Ernie

Re: Slide rule

Message #22 Posted by [Pyerre L.](#) on 2 Dec 2002, 10:04 p.m.,
in response to message #19 by Michel Beaulieu

Hello,

About Slide Rules,

- Nice website : <http://www.sliderules.clara.net/index.htm>

- to make your guys jealous, I still have :

2 Staedtler/(13.5") No.54408 - Germany

1 Pickett & Eckel,Inc/(13") - Chicago,Illinois USA

1 A.W.Faber-Castell/(12") - Germany

1 Hughes-Owens/(11") No.1768C - Japan

1 Acme/(12.5") - Japan

and the wonderfull TI SR-50

The Red-Dot, ...not seen one yet !

;-) Pyerre

Re: Slide rule

Message #23 Posted by [Emmanuel, France](#) on 3 Dec 2002, 1:02 a.m.,
in response to message #22 by Pyerre L.

I have some slide rules too:

Graphoplex 620d, 1614, 1614 mod, 640, 620d RIETZ, standard and soon 615 and 17cm;

Marc (unknown model)*,

Aristo Schollar 0903LL*,

Nestler Gamma 0253*

and Tavernier-Gravet (unknown model)*

* for sale on ebay ASAP

Re: Does anyone remember . . . ?

Message #24 Posted by [Paul Brogger](#) on 3 Dec 2002, 11:07 a.m.,
in response to message #16 by Ernie Malaga

My engineering math classes were taken ca. the HP-21 . That is, log and trig tables were still easily located, slide rules were still widely used, and only the relatively well-to-do (student) could afford anything HP.

We were taught how to use tables and slide rules, and the question of whether to allow/encourage the use of calculators in class was an active debate among instructors for several uears.

I bought a Post Versalog from a local office supply store -- they'd dismantled their slide rule display and were selling off the display models. Mine has a screw hole in one end of the body, and doesn't move smoothly and uniformly throughout its range. (I suspect that it was chosen for display because it failed to pass Q.C.)

It served me fine, and I was able to locate the hard-cover instruction book, as well as the half-size model of the same rule -- a nice "family" collection.

I've also got my father's old Frederick Post rule -- an unusual model with some tricky scales -- he was a draftsman, specializing in layout and routing of hydraulic systems for Douglas Aircraft.

Interestingly, he'd carefully scraped off the manufacturer name and "Made in Japan" that had been embossed on the plastic face -- I suppose in 1950's America that anything Japanese was considered cheap, and he was probably ashamed to be using only a "second-rate" slide rule . . .

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-35 Question

Message #1 Posted by [Spice_Man](#) on 1 Dec 2002, 6:55 a.m.

How many "red dot" models were made? What is the earliest serial number known for the type 2?
Thanks in advance. Spicey

Re: HP-35 Question

Message #2 Posted by [warren](#) on 3 Dec 2002, 7:25 a.m.,
in response to message #1 by Spice_Man

According to W. A. C. Mier-Jedrzejowicz's excellent "A Guide to HP Handheld Calculators and Computers":

"...The first batches were made for use inside HP only - they have an (hp) logo printed inside the battery compartment. The serial number is printed on the back, between the two lower rubber feet, it is 1143A followed by the unit number stamped into the label in letters 1mm high. A batch of nearly identical HP-35s was made for a customer company who placed an order for them. Then the first HP-35s for general sale were made, still nearly the same, but with the unit number stamped in 3mm high digits. I believe only about 10,000 of these "HP-35" with a hole were made...."

"Once it became clear that the HP-35 was far more popular than had been expected, production was increased and a new design, without the hole by the on/off switch, and with the serial number inside the battery compartment, came into use. The first ones of this design still had serial numbers beginning with 1143A. The next set of serial numbers began with 1230A...."

So the earliest serial number of the type 2 would be approximately 1143A10001 if Mr. Mier-Jedrzejowicz is correct.

Re: HP-35 Question

Message #3 Posted by [David Smith](#) on 3 Dec 2002, 5:10 p.m.,
in response to message #1 by Spice_Man

I have seen around 10 red dot machines... the highest serial number being around 4700.

Re: HP-35 Question

*Message #4 Posted by [Spice_Man](#) on 3 Dec 2002, 7:19 p.m.,
in response to message #3 by David Smith*

I've got a 1143A049XX, which is NOT a red dot, so I'm thinking maybe 4800-4900 red dots were made...

The serial # is 1 millimeter high, and not 3 millimeters.

Does anyone have a red dot with serial # higher than 04900?

By the way, this version 2 HP-35 has the serial number between the lower rubber feet. I wonder if this was a red dot, which had the upper case replaced at some point (without the hole)...or if some version 2's were made this way...

Spicey

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Reducing matrix with 15C

Message #1 Posted by [R Lion](#) on 1 Dec 2002, 5:28 a.m.

I'm wondering if there is a simple way for reducing a matrix with the 15c: something like REF or RREF or rref (erale) on the 48 Thanks in advance Raul

Re: Reducing matrix with 15C

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 2 Dec 2002, 9:13 a.m.,
in response to message #1 by R Lion

Hi

I've made a small research about the subject and I could not find a direct reference for both REF (Reduce to Echelon Form) and RREF (Row-Reduced Echelon Form) in the HP15C. The first reference I found is the Urroz' 'Science and Engineering Mathematics with the HP49G'. I tried some matrix manipulations in the HP15C, but no direct result for reduction. The closest related resulting object is the LU decomposition, but it is no direct reference for what you want.

That's the sort of subject that amuses me: good, deep usage of HP calculators. Would you like keeping this discussion? How far have you gone? What's the primary application you have in mind? Even if it's just for studying, please, let's keep talking/writing about it. I'd like to know if you have any reference about any source/e-source for this sort of subject.

Thanks.

Re: Reducing matrix with 15C

Message #3 Posted by [R Lion](#) on 2 Dec 2002, 1:40 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

Hi Luiz: I'll try to answer your questions. If you solve a system in the 15C, you'll get a set of solution even when the system have no solution. For instance: $\begin{bmatrix} 1 & 0 \\ 1 & 2 \end{bmatrix} \begin{bmatrix} 1 & 2 \end{bmatrix}$ gives you the next result matrix: $\begin{bmatrix} 2e10 & -1e10 \end{bmatrix}$. I think the key for this behaviour is in page 150 of the manual: "If the matrix...does not have an inverse...the calculated inverse is the inverse of a matrix close to the original..." I don't like this... I'd prefer get an error saying clearly that the matrix does not have an inverse, so the system does not have one solution (perhaps infinite solutions, perhaps no solution). We can get this information calculating the determinant of matrix of coefficients. We'll get $1e-10$ in this case, value that "is" 0. But if I'd have the reduced matrix (triangular or Gauss form) I could see if the last line has only 0's (infinite solutions) or all 0's but the last one, (no solution). Recently I have programmed the reduction in an old Casio fx 4000p: I would like to use the matrix features of the 15c for calculating without programming. I hope you understand something in this mess... Regards. Raul

Re: Reducing matrix with 15C

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 2 Dec 2002, 2:10 p.m.,
in response to message #3 by R Lion

Hi;

I remember all of this stuff briefly, when stdying Advanced Math. I have a harcopy of the HP15C Advanced Functions Handbook and Fourth Chapter plus Appendix have a lot of good info about Matrices and Accuracy.

I'm gonna find some math readings and try to get to some acceptable material ASAP.

Best regards.

Re: Reducing matrix with 15C

Message #5 Posted by [R Lion](#) on 2 Dec 2002, 2:54 p.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)

I have the Advanced functions handbook... Nothing about this not advanced feature :-) Thanks for your time Raul

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Is there anyway to fix Pioneer series key SNAP???

Message #1 Posted by [Steve](#) on 30 Nov 2002, 10:11 p.m.

Is there any way to fix keys that SNAP on a Pioneer (17Bii, 32Sii) series HP? I'm not talking about the normal clicking sounds, it's a SNAP that can be heard across the room. It doesn't seem to get any better with use. Some units have it, and some don't. Is it a manufacturing defect in the keypad?

Thanks,

Steve

Re: Is there anyway to fix Pioneer series key SNAP???

Message #2 Posted by [Randy Sloyer\(US\)](#) on 1 Dec 2002, 12:26 a.m.,

in response to message #1 by Steve

Are these nasty cracks coming from a newer Indonesian unit? I would bet money on it. I have not seen a early USA or Singapore unit snap. Unless of course you've spilled some soda into the keyboard, but then your calculator would probably not be working as this is the fastest way to disable a pioneer, since the batteries never seem to die :)

Before I tell you I don't have an answer for you, let me tell you what I've seen in dissecting several flavors of pioneers. Perhaps that will get some discussion going and someone may have or come up with a solution. The current keyboards are comprised of 4 identically sized mylar sheets that sit atop a formed metal sheet that is the skeleton of the calculator. The bottom sheet is just a spacer with a hole in each key position, the second layer is a rather novel double sided flexible circuit that is guts of the keyboard. The third is again another swiss cheese spacer sheet. Right under the key is the top and final layer, the dome sheet. The sheet has small domes formed into the mylar onto which a flexible film resistive dot has been printed.

When you press a key, the dome deforms, allowing the resistive dot to collapse through the top spacer layer and contact the conductive sheet below, completing the circuit. When the dome snaps back, you sometimes get a clicking sound. I believe this is present from the beginning and it just will not go away with use. I have a newer 42S that has this annoying habit. I've been banging on it for 6 months now and it has not changed a bit.

I think there are at least two possibilities for the snapping. One is a change to the dome sheet. I've looked at both old and new sheets and they are made of the same 0.005" mylar. I have not measured the force required to deform the domes as I don't have the necessary equipment, but it is possible that the orientation is different in the sheet, requiring higher forces and the equal higher force return, resulting in a snap.

The other is related to dome force, that is, the dampening of the return of the dome. One thing I have noticed in the various units that I have opened is that I believe HP changed the formulation of the case material over the production life-cycle. The early machines had a harder finish, perhaps from a higher styrene content, to the current softer material on the newest machines. This change in material changes the way the keytop rebounds from the dome popping back. The newer, softer material does not dampen the force as well, resulting in the snap of the mylar as it comes back to its original pre-stressed position. Just hold your finger on the key as it comes up, just a bit, and the snapping should not occur.

Just my 0.02 cents worth. I have several different keyboard mylar sheets in the pioneer parts box and would be happy to post some photos if anyone wants to continue this. I would like to find an answer myself...

Re: Is there anyway to fix Pioneer series key SNAP???

*Message #3 Posted by [Raymond Hellstern](#) on 2 Dec 2002, 6:47 a.m.,
in response to message #2 by Randy Sloyer(US)*

Hi Randy,

in fact it's not only the new Indonesian units...

I had a 42S Rev A from ca. 1989, which had that annoying loud & sticky CLICK.

The reason for this effect are sticky or broken plastic domes. When talking of domes, I mean the whole outstanding construction, not only the small inverted dome inside.

These domes are responsible for the normal tactile feedback as well as for the real 'key-pressed' signals.

When you press a key which has this symptom you'll first feel the normal click, when releasing the key, you'll normally first feel the normal depressing click, but in case of an ill key the loud CLICK will be a bit delayed, when the force of the dome becomes greater than the adhesion to the pcb. Alternatively, there'll be a hard CLICK when dome is broken.

BTW: Back then I exchanged my loud 42S for a new one by HP in 1999, and got...an Indonesian unit, which is brand new, but of significantly poorer quality than my old unit.

Imagine how happy I was this year when a co-worker gave me his brand-new Rev A 42S for free!

Regards,

Raymond

Re: Is there anyway to fix Pioneer series key SNAP???

*Message #4 Posted by [Karl Schneider](#) on 1 Dec 2002, 2:32 a.m.,
in response to message #1 by Steve*

Steve --

I would agree with Randy Sloyer's question above, in that your 32Sii is likely an Indonesian-made unit with the white bezel and green/lilac shifted functions.

I have a 1989 42S and a 1993 17Bii (both Singapore) and a 2001 32Sii (Indonesia). Only the 32Sii has the annoying "snap", which seems to result from a tab on the keys striking the underside of the face. Not all keys do it, but it's probably due to a cheaper manufacturing design or process.

Re: Is there anyway to fix Pioneer series key SNAP???

*Message #5 Posted by [Steve](#) on 1 Dec 2002, 6:59 a.m.,
in response to message #4 by Karl Schneider*

I also noted that shifting the case around would fix the problem in certain key, but then cause problems in others. What I mean is prying open the case near the snapping key a few MM (the Pioneer cases accommodate this quite easily!) would change the tension on the keypad unit enough to move the problem to another key.

I guess this goes back to how HP quality has really dropped off in recent years. I would hope these units wouldn't pass QA even at Casio.

Steve

Re: Is there anyway to fix Pioneer series key SNAP???

Message #6 Posted by [Harvey](#) on 11 Dec 2002, 12:58 a.m.,
in response to message #1 by Steve

Hi,

I've got a 42S that is also experiencing "snap" and "stickiness" problems. At least on my unit, I can see dust down around the keys below the metal faceplate. I haven't used this unit for the past few years because it was experiencing "missed" inputs on keypresses on a couple of the keys. I'm wondering if the keypad needs a good cleaning. I'd dearly love to get this unit back in operation again.

I've been contemplating taking this unit apart; I've read Paul Brogger's posts about opening up the 42S. It seems like taking the keypad assembly apart will require a step of faith (and more than a bit of skill). Is this the only way to get at the keypad (i.e., via removal of the metal skeleton first)?

What about via the front? How is the calculator constructed behind the metal faceplate? Is the contact/rubber dome sheets accessible once the metal faceplate is removed, or is the plastic calculator casing in the way?

And if I use the from-the-back removal technique, what are some methods for re-installing the 50 or so attachment posts?

I'd like to hear from others about their removal/repair experiences on the Pioneer calculators.

Thanks,

Harvey

Pioneer keyboard surgery

*Message #7 Posted by [Randy Sloyer](#) on 11 Dec 2002, 8:08 a.m.,
in response to message #6 by Harvey*

Don't take it apart, yet...

Dust alone around the keys should not be a problem since the keyboard is reasonably sealed from dirt and dust. A canned air blaster should do the job, under no circumstances should you use compressed air as it always contains some trace amounts of oil from the compressor. This is where Pioneer keyboards are their weakest, as their resistance to liquids entering is very poor. Every one of the heat stake posts that hold the sandwich together is a conduit for liquids to enter and capillary action draws it onto the membrane circuit. If the liquid is sticky when dry, you have possibility of increased snapping. If the liquid covers the circuit traces, you'll have an intermittent or dead key. The worst case is when there is so much liquid that it bridges multiple keys as the keyboard x-y matrix is actually on the address and data bus of the Saturn cpu and the resistance of liquid is low enough to cause current flow in the CMOS circuitry resulting in a dead calculator.

As for getting gunk out of keyboards, I have adopted David Smith's process of keyboard restoration using an ultrasonic cleaner with excellent results. This involves 3 cycles of cleaning with distilled water with several days of drying time between each. This allows each new introduction of clean distilled water to wick into the keyboard and dissolve the goo. The final drying should be done in elevated temperatures, at about 120°F for at least 12 hours. Put the batteries back in and give it a go, as they say.

Taking the keyboard apart should only be done when all other possibilities fail. There are several ways to do this, but they are very time consuming and the outcome is not a sure thing, especially with regard to each key having the proper feel. There is no frontal access to a Pioneer keyboard, only from the rear. Under no circumstances should you try to remove the front brown aluminum bezel. It will only get you a bent bezel and not get you any closer to a functional keyboard. There have been cases where the bezels have been successfully removed using a hair dryer and lots of patience, or solvents to soften the adhesive, but there is nothing to be gained from the frontal approach. You DO NOT need to remove the bezel to open the calculator, as Paul Brogger's article details a very good and easy way to open a unit from the back only. Once done, the only way to get to the keyboard parts is by reversing the assembly process which involves either reforming the heat stake mushrooms back to a straight pin or simply cutting them off. Then you could repair or replace. I did this once on my own 42S as I had nothing to lose as the on/off button circuit had gone open. Before taking that leap though, I would try the cleaning approach first.

I would be happy to run your unit thru my ultrasonic cleaner if you don't have access to one. Just email me, my address is on my name link.

Re: Pioneer keyboard surgery

*Message #8 Posted by [joe r](#) on 15 Dec 2002, 8:35 p.m.,
in response to message #7 by Randy Sloyer*

Hi - I'm replying in this thread since I'm not sure where else to put it. I'm also new to this forum, so I apologize in advance for any false presumptions on my part.

I recently came to own a 42s which was thought by the previous owner to be inoperative. After testing it out for a few hours, I could see why: the ON/OFF (EXIT key) function does not seem to work after the unit is initially turned ON. Weird, huh?

The symptoms are as follows: with fresh batteries and a recent machine reset, the unit will turn ON, but with a longer than usual delay. Subsequently, any function will work - even the SHIFT key - with the sole exceptions of EXIT and the "9" key (MATRIX). The machine will, however, turn OFF - but only after a very long delay, and will not then turn back ON without a reset.

Has anyone seen this before? Will I be performing keyboard surgery? I appreciate any help, and thank you in advance.

-joe

Re: Pioneer keyboard surgery

*Message #9 Posted by [Randy Sloyer](#) on 16 Dec 2002, 10:07 a.m.,
in response to message #8 by joe r*

While I would not completely rule out a bad keyboard, based upon your description, it is most likely a bad 8k ram chip, or the worst situation, a bad cpu. This could be easily diagnosed if you have a spare 42S or 17B/17bii logic board to fit to the keyboard for testing. It is very difficult to properly diagnose without known good logic board. You can measure the resistance of the keyboard circuits to see if you have a hung or leaky key, but it is not a guarantee of functionality. I could provide a schematic of the keyboard if you decide to have a look.

If you do not have a spare logic board, I would be happy to take a look at your 42S, as I have the parts and a surface mount solder rework station.

If you decide to pop it open and have a look, please let us know how you make out.

Re: Pioneer keyboard surgery

Message #10 Posted by [joe r](#) on 16 Dec 2002, 12:55 p.m.,
in response to message #9 by Randy Sloyer

Thanks for your advice.

Well, I don't exactly have the spare parts for the testing - 17biis can be had fairly inexpensively, though, so I've actually been thinking about getting one for spare parts.

A bigger problem is opening up the case. Never having done so, I'm a bit hesitant - as you can imagine. This is where I begin to take you offer seriously - would you be able to perform the repair? More importantly, do you have a standard rate for this service?

Just asking, you understand. Feel free to email me with details. Thanks again.

-joe.

Re: Pioneer keyboard surgery

Message #11 Posted by [joe r](#) on 16 Dec 2002, 2:14 p.m.,
in response to message #8 by joe r

I should also have added - as I forgot - that my unit shows "9.00" in the x register whenever it starts, no matter the condition I leave it in during shutdown.

This is the symptom that really made me think there was a problem with the keyboard itself. But, would it necessarily jam the EXIT key?

Hmm.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Beeping 42S

Message #1 Posted by [George Johnson](#) on 30 Nov 2002, 8:55 p.m.

My 42S is going haywire. It won't stop beeping. All I did was changed the batteries. Could someone help me please? GJ

Re: Beeping 42S

Message #2 Posted by [Renato](#) on 30 Nov 2002, 9:23 p.m.,
in response to message #1 by George Johnson

A machine reset may fix it. See: <http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/forum.cgi?read=24344>

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

17BII Fail Message - Need help interpreting

Message #1 Posted by [Steve](#) on 30 Nov 2002, 7:44 p.m.

I just bought a refurbished 17BII from Samson Cables which is giving me the following Fail Message towards the end of the self-test in which you step through the tests:

KBD 02501

followed by:

FAIL 00020

Has anyone ever seen this? Any help in decoding? The calculator seems to be working ok in spite of this - but I don't want a bum calculator.

Re: 17BII Fail Message - Need help interpreting

Message #2 Posted by [Renato](#) on 30 Nov 2002, 9:16 p.m.,
in response to message #1 by Steve

At <http://www.hpmuseum.org/features/17bf.htm> there is information about autotesting a 17B - maybe it helps.

Re: 17BII Fail Message - Need help interpreting

Message #3 Posted by [Randy Sloyer\(US\)](#) on 1 Dec 2002, 12:42 a.m.,
in response to message #1 by Steve

Once the KBD message appears, did you press each key in sequence? You start from the top left, press the 6 top row keys in order, left to right and repeat for each row below. If you press a key out of sequence or you have a bad key, you will see the message you describe.

The message of KBD 02501 indicates it is the "+" key that is faulty. If your "+" key works, you probably pressed the "+" key when the self test was expecting something else.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP no longer a leader

Message #1 Posted by [Ernie Malaga](#) on 30 Nov 2002, 11:08 a.m.

I would love to believe otherwise, but the evidence seems inescapable: HP is no longer a leader in the calculator industry, but a "me too" copycat of other manufacturers' cheap products.

1. The appearance of an = key on HP calculator keyboards often makes me wonder what kind of cigarettes HP R&D engineers were smoking. Leaving out the HP-10A, algebraic logic seems to be a (relatively) recent item.
2. Cheap LCDs that use tall-but-narrow, 7-segment digits and raised, smaller, exponents for scientific notation. Just like Japanese calculators.
3. Appearance of TI-like keys on the keyboard, such as 2nd and +/-.

Of course, copying is far more economical than designing something new. I suppose this has made it possible for HP to decrease its R&D budget to \$12.83 per annum.

Too bad Messrs. Hewlett and Packard aren't around anymore to run the company.

-Ernie

P.S.: Sorry, but I just woke up in a sour mood this morning, and then had the bad idea of looking up the HP-9G "manuals" -- and that set me off.

Re: HP no longer a leader

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 30 Nov 2002, 3:41 p.m.,
in response to message #1 by Ernie Malaga

Make room for someone else to seat, please...

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Miraculous brand new HP-67 !

Message #1 Posted by [Peter Mueller](#) on 30 Nov 2002, 8:00 a.m.

What a surprise ! I recently purchased a HP-67 in Ebay. The shape of the calculator was in excellent shape, no scratches, not opened as if brand-new. But as I switched it on after inserting new batteries, no reaction ! Looking closer through the display, I realized, there is no LED Display inside. For the total weight is also far less than described (11 oz. mentioned in the museum), I guess there is no other electronic parts inside the calculator. Can it be, that HP offered some dummy calculators for display only at stores ? Does anybody know about this ?

Re: Miraculous brand new HP-67 !

Message #2 Posted by [Ernie Malaga](#) on 30 Nov 2002, 10:51 a.m.,
in response to message #1 by Peter Mueller

Peter:

Just the kind of thing one risks, whenever buying via Internet from someone you don't know. Me, I wouldn't buy anything at Ebay.

The "miraculous" HP-67 is, just possibly, an empty shell left after all usable components have been removed for use as spares.

Question: Did the keys work? If they did, then that shell of yours must still have (at least) the keyboard assembly.

In any case, you should fight to get your money back.

-Ernie

Re: Miraculous brand new HP-67 !

*Message #3 Posted by [kim](#) on 30 Nov 2002, 1:50 p.m.,
in response to message #2 by Ernie Malaga*

Does it have a serial number?

Re: Miraculous brand new HP-67 !

*Message #4 Posted by [David Smith](#) on 30 Nov 2002, 2:40 p.m.,
in response to message #1 by Peter Mueller*

Yes, HP made store display units of some of their calculators. I have a display model HP80. The keyboard circuit board is installed but it has no components. The area on the board where the display modules should be is covered with a piece of tape. The CPU is missing. Strangely the gold pins at the bottom of the keyboard that connect to the CPU board are installed.

Your display unit could be worth more to some collectors than a working unit. Or you might be able to install the guts from a machine with a bad case.

Re: Miraculous brand new HP-67 !

*Message #5 Posted by [Peter Mueller](#) on 30 Nov 2002, 3:38 p.m.,
in response to message #4 by David Smith*

Surprised on the great echo, here some additional infos I found out in the meantime: The " keys " are working properly. The serialnumber is: 1710S03418 . In the meantime I tried to insert a magnetic-card, but what a surprise, even no card-reader-device installed too. The original label on the backside has no damage, so I guess the device was never opened. Peter

I agree with David

*Message #6 Posted by [Mike](#) on 30 Nov 2002, 7:56 p.m.,
in response to message #5 by Peter Mueller*

It is probably more valuable than if it were a real 67. Think about it. All you are missing are the guts. Working guts are a dime a dozen. Your case is perfect and could be used but I think it's worth more like it is.

I remember once hearing of a clear plastic case HP-67 also.

Dummy 80

Message #7 Posted by [thibaut.be](#) on 1 Dec 2002, 3:05 a.m.,
in response to message #1 by Peter Mueller

I found a dummy 80 at a former HP worker. This guy was in charge with marketing HP calcs in the 70's. These calcs were at that time so expensive (for dealers to stock them) at that time that HP provided free dummies to be exhibited in window displays. Remember that HP was just beginning their calcs business.

Actually it was a genuine 80 without PCB. I sold it to one of us who put in a PCB inside and the feedback I had was that it now workd perfectly !

So I'm keen on thinking that your calc might also be a dummy material display.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

9G - Manual, No RPN, No Surprises

Message #1 Posted by [rsenzer](#) on 30 Nov 2002, 12:05 a.m.

The manual is here:

<http://h20015.www2.hp.com/content/common/manuals/bpia5265/bpia5265.pdf>

Re: 9G - Manual, No RPN, No Surprises

Message #2 Posted by [Massimo Gnerucci \(Italy\)](#) on 30 Nov 2002, 12:59 a.m.,
in response to message #1 by rsenzer

Well, if we can call these *manuals* here are

the 9g "How To Guide": <http://h20015.www2.hp.com/content/common/manuals/bpia5266/bpia5266.pdf>

and the 9s "User Guide": <http://h20015.www2.hp.com/content/common/manuals/bpia5267/bpia5267.pdf>

Massimo

Re: 9G - Manual, No RPN, No Surprises

Message #3 Posted by [Laurent Damay](#) on 30 Nov 2002, 4:40 a.m.,
in response to message #1 by rsenzer

Also read this :

www.jcbm.co.jp/eng/consumer/calc/cpdf/srp400g.pdf

Citizen SRP400G - Check it.

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 30 Nov 2002, 11:14 p.m.,
in response to message #3 by Laurent Damay

Hi;

based on what I see [here](#), this is not a bad machine. But we should check [this one](#) first, because it's closer to the HP9G as for memory and resources.

I felt intrigued and decided to read about this SRP400G fella. It's far better than the HP9G: its memory goes to 30KB RAM, while the 9G's is 712 bytes deep. It seems a lot of things are the same for both (including program language), but HP probably used an RP325G's clone, so the "new" HP9G will not compete with the 32KB RAM 38G. Maybe the "next generation" is a copy of both [SRP 350G](#) and SRP 400G.

Amazingly outstanding!

Re: Citizen SRP400G - Check it.

Message #5 Posted by [J.Manrique López de la Fuente](#) on 1 Dec 2002, 6:10 a.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)

Wow!

It is clear that the Chinese company that do calcs for Citizen, do them for HP too :)

Just think that HP had closed its calculators business at beginnin of 2002, and from some months ago, HP decided to come back, so after closing it, HP hasn't any resources to develop much more innovative products.

The small HP Calculators team has "done" these hp9 series as a "where are still alive".. that's all. I hope we could see more innovation for next year releases.

Remember that all the hp4x line must be updated, so there is still a hope for innovation.

Stay tune,

J.Manrique

Re: Citizen SRP400G - Check it.

Message #6 Posted by [Glen Kilpatrick](#) on 1 Dec 2002, 11:06 a.m.,
in response to message #5 by J.Manrique López de la Fuente

I see that my post of "30 Nov 2002, 1:52 p.m." jumped to too many assumptions (I was anticipating the 9G to be a rebrand of the SRP400G). Rats! The new conclusion I'm drawing is that HP didn't even pick the best of the breed to rebrand, and actually *creating* something is beginning to sound like science fiction. It's painful to remember that HP was at the forefront of this technology once.

Re: Citizen SRP400G - Check it.

Message #7 Posted by [GE \(France\)](#) on 2 Dec 2002, 9:15 a.m.,
in response to message #6 by Glen Kilpatrick

Can anyone check the following bug on the 9G (I will not get one, as I already have the Citizen model) ?

When you display a result within a program (PRINT) it is visible on the upper line (11 5x7 dots matrices). Unfortunately, if it takes more than 11 digits to display, the extra digits are truncated !!! This is most visible with scientific notation numbers in floating format. You could test it with : $A=1e80/3$; PRINT A; As the exponent is truncated, the output is pretty unusable. In direct calculation mode, the results are displayed on the lower 10-digits 7 segments line, and the exponent is always visible. Talk about a disincentive to use programs.

I also regretted on the Citizen that storing a value in a variable takes different syntaxes in keyboard or programming modes : $42 \rightarrow A$ (keyboard) vs $A=42$; (program). Why should they have made it simple ? I prefer the $42 \rightarrow A$ notation, but it is less C-like...

Re: Citizen SRP400G - Check it.

Message #8 Posted by [Roberto Flores](#) on 11 Dec 2002, 12:57 a.m.,
in response to message #6 by Glen Kilpatrick

Does anybody knows where can I buy one (SRP400G) in the USA ?

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

More 9114A questions for the experts...

Message #1 Posted by [Daniel](#) on 29 Nov 2002, 7:40 p.m.

I have opened my 9114A drive (see post a few days back), and my eject mechanism seems fine. FYI the eject button is supposed to stay out, floppy in or out. It is simply a spring-loaded button to activate the eject mechanism. When I press the button with a disc inside, it lifts the heads and ejects the floppy.

When I try to format a disc, this is what I observe: 1) Head moves over disc from outside to inside (maybe more than once) 2) Head starts from inside, making small increments. This continues to almost outside. 3) Head moves in again and then out. 4) I then get a MEDM ERR.

It looks like it formats the head but then errors out at the end of the format. Is the TOC written on the outside of the disc?

Anyone have any comments on what I can try - it definitely does not look like the eject system is gummed up - in fact, the mechanism is very clean. I cleaned both disc heads with a cue-tip doused in rubbing alcohol.

These tests were done with a regular PC 2S/HD disc with the hole covered with black electrical tape.

So is there hope for this drive?

Thanks (also for all the responses I received earlier).

Re: More 9114A questions for the experts...

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 29 Nov 2002, 8:56 p.m.,
in response to message #1 by Daniel

Hi;

I'm far from being an expert, but I'd just suggest one thing.

Do you have LIFUTIL.EXE? If Yes, try formatting one disk with LIFUTIL.EXE and simply read its contents. Are you using an HP71B or an HP41C?

There is a LIFUTIL for windows, but I use the DOS version. If you want to use the DOS version and your PC is running W95/W98 (I have no knowledge, as a user, about WNT/2000, and I did not test LIFUTIL under WME or XP), do not run LIFUTIL from a window, or a terminal under windows environment. When O.S. is starting, press [F8] and select Command Prompt Only. Run LIFUTIL under a plain DOS environment.

Hope this helps you to check if the disk is O.K. In this case, the head will move a lot of times before the disk is formatted.

Success.

Re: More 9114A questions for the experts...

Message #3 Posted by [Vassilis Prevelakis](#) on 29 Nov 2002, 9:43 p.m.,
in response to message #1 by Daniel

Try the following. Leave the write enabled diskette in the drive, switch the drive off, wait 10 seconds, and switch it back on. The drive will enter the self test, and perform a write test on the diskette. If the FAULT light goes off, then the drive should be OK, if the FAULT light stays on, then I can think of two things:

a) the battery is marginal, so by the time the heads move back to read what has been written, boom!

b) the heads are dirty, try cleaning them with a head cleaning diskette (any type suitable for PCs is good, but again you have to mask the Quad Density hole).

**vp

Re: More 9114A questions for the experts...

Message #4 Posted by [Erich Neubacher](#) on 30 Nov 2002, 1:52 p.m.,
in response to message #1 by Daniel

Get the program LIFUTIL.EXE somewhere from the web. (if you don't find it, ask me, I can send it to you directly because it is made public domain by HP).

Only use 720KB discs, the ones with only ONE hole, and format these on a max. 16MHz DOS-PC (pure, native, simple DOS. I never tried Windows for this). After this you can use it with a HP41 (no experience here with 71B until now). 41C needs a volume-label, don't forget it (LIFUTIL wrote it by default). LIF-discs have a special formatting scheme: 256 bytes/sector and 16 sectors/track by 80 tracks and 2 sides [series 40 and 70].

It works, if you have a good battery and the 9114A has no damages.

happy programming.....Erich N.

Re: More 9114A questions for the experts...

Message #5 Posted by [Daniel](#) on 30 Nov 2002, 6:28 p.m.,
in response to message #4 by Erich Neubacher

So will the 9114 not format a "modern" HD disc if I cover the "HD hole"?

I don't have a ready source of "old" floppies available. Some gentleman offered to mail me some from overseas, but I am asking around here first.

Re: More 9114A questions for the experts...

Message #6 Posted by [Erich Neubacher](#) on 1 Dec 2002, 1:50 a.m.,
in response to message #5 by Daniel

>So will the 9114 not format a "modern" HD disc if I cover the "HD hole"?

1. LIFUTIL runs on a PC and therefore uses the disk-drive of this PC, NOT 9114.
2. LIFUTIL formats "modern" discs, if the other hole is covered.
3. But I didn't achieve to read these discs with 9114 and my HP41 (I got error-message: NO MEDM)

Results of my own experience, maybe with other environment and equipment it can work. I never use 9114 to format discs.

These old 720K-disc work best. Don't know why, because everyone would assume that the "modern" discs would do better, because of higher density and overall quality than the older ones.

<motivating> Get these "old" discs and your system will work like a devil. I think it is easier to find old discs than to find "old" calculators.

(h)appy (p)rogramming.....Erich N.

Re: More 9114A questions for the experts...

Message #7 Posted by [Tony Duell \(UK\)](#) on 1 Dec 2002, 5:30 p.m.,
in response to message #6 by Erich Neubacher

720K and 1.44M media is different. The coercivity is different for one thing, and non-HD drives may well not have sufficient write current to use 1.44M disks properly. There is no reason to expect them to work -- they are not simply 'better disks'. I have never had much success with using 1.44M disks in 720K drives, and as my data is considerably more valuable than the cost of a disk, I use the correct ones always. 720K disks are not hard to get, at least not over here in the UK.

Re: More 9114A questions for the experts...

Message #8 Posted by [Dan M](#) on 1 Dec 2002, 12:31 p.m.,
in response to message #4 by Erich Neubacher

A couple of small points: 1. The HP-41C does NOT need, expect, or create a volume label on the LIF disk. This is one of the problems, as LIFUTIL _requires_ a volume label and it is not trivial to create a volume label with the HP-41C.

2. I have had good luck formatting LIF disks on a PC (up to 600 mhz) running anything from DOS to Windows to Windows 98. I have not tried with the "NT-based" Windows programs, but have heard rumors that "NT" will not allow the low-level BIOS routines that LIFUTIL uses.

3. I have used many different disks with the 9114B with great success, up to the 1.44mb-capable currently available products. I have not worked with the 9114(A) disk drive at all.

4. Your experience may be wildly different from mine! Give it a try and find out.

Best regards,

Dan M.

Is there a fuse on the main board of the 9114A?

Message #9 Posted by [Daniel](#) on 1 Dec 2002, 1:57 p.m.,
in response to message #1 by Daniel

When I put the 9114 back together, the PC board in the battery pack shorted the current limiting resistor and fried it. One of the cells had its terminal exposed, and I suspect that that cell was shorted over the 5k resistor. I replaced it with a 4k7 0.5W but now the main board won't power up. My battery reads 6.5V but goes to ~0V when I switch on the 9114. I suspect that maybe one of the cells were fried and cannot supply current anymore, but I do get sparks when I short out the battery.

Current theory: either a fuse blew on the main board, or the one of the cells is dead, making the battery output voltage 4V, which is not enough to power the main circuitry.

Re: Is there a fuse on the main board of the 9114A?

Message #10 Posted by [Tony Duell \(UK\)](#) on 1 Dec 2002, 2:35 p.m.,
in response to message #9 by Daniel

There is no fuse on the main logic (controller) board of any 9114 that I've seen (and I've worked on -A and -B models). There is, of course, a 5A fuse in the battery pack. You say you shorted a current limiting resistor (is this the 5k one you mentioned?). Where is this resistor? In the battery pack or on the main logic PCB? I am not aware of any 5k current limiting resistor in either place (I think there's some kind of current sensing for the regulator circuits on the main logic PCB, but 5k sounds like a very high value). In any case, a 6V battery will not burn out any normal 5k resistor!. Is it possible that this component was actually the 5A fuse I mentioned? If you've replaced that with a 4k7 resistor, the battery will read 6V off-load (with a voltmeter only connected) and will drop to near 0V when you try to power up the rest of the 9114 from it. What is component reference (i.e. R7, F1, etc) and on which PCB is the part you replaced?

Re: Is there a fuse on the main board of the 9114A?

Message #11 Posted by [Daniel](#) on 1 Dec 2002, 4:57 p.m.,
in response to message #10 by Tony Duell (UK)

The resistor I replaced is on the PCB in the battery pack. It has colour code green/black/red/red(wide), and is connected in-line between the input from the battery and the output to the connector that plugs into the main board. Is this device a fuse? There are no other fuses that I can see, on the battery pack's PCB. The list of components are:

Bridge rectifier GI-DF04-438M TPI41A (power transistor?) Diode I29 2 resistors (above mentioned, and 150 ohm

Re: Is there a fuse on the main board of the 9114A?

Message #12 Posted by [Tony Duell \(UK\)](#) on 1 Dec 2002, 5:23 p.m.,
in response to message #11 by Daniel

OK, that's the older battery pack (the more recent one has a much more complicated charger circuit). FWIW, that 'diode' you mentioned is actually a zener, and forms a voltage regulator together with the power transistor and the 150R resistor. And yes, that component between the batter +ve terminal and the output connector is a 5A picofuse. Think about it. It couldn't be a 5k resistor -- the disk drive draws over 1A when in operation, and no way could a 6V battery cause 1A to flow through a 5k resistor. Replace it with the correct fuse and try again.

Re: Is there a fuse on the main board of the 9114A?

Message #13 Posted by [Daniel](#) on 1 Dec 2002, 7:09 p.m.,
in response to message #12 by Tony Duell (UK)

Thanks for the info! That does make a lot more sense. I did not know (or maybe I forgot :-)) about picofuses; the colour codes seem to be in mA (5000=5A). It really does look like a resistor, though ;-)

I have shorted out the fuse for now, and the 9114 powers up, but only the power light comes on - no further activity, fault light or anything.

I am busy charging the cells again. I don't get proper readings on the 12V and 5V pins on the board. I can't see how the short in the battery pack could have blown anything on the main board. What happened in the battery pack is that the fuse shorted out one of the 3 cells in the battery pack, so maybe that cell is damaged. I'll have to see tomorrow.

Re: Is there a fuse on the main board of the 9114A?

Message #14 Posted by [Tony Duell \(UK\)](#) on 1 Dec 2002, 7:37 p.m.,
in response to message #13 by Daniel

I would advise replacing that fuse with the right part -- if you do get a short-circuit somewhere in the drive, that battery back will supply a couple of hundred amps (!). This will not be pleasant. IIRC, the +5 and +12V lines on the mainboard are under software control. The 12V line is only present when it's trying to access the disk drive (it's used for the drive motors). The +5V line can be turned off in software, and is turned on again when a byte comes over the HPIL interface. There should be +5V at the 'Vc' testpoint all the time (this is a continuous supply for the HPIL chip and the RAM). However, at power-on, the +5V line should also be present, and the +12V line should be there when it's initialising the drive. If neither appear (I think you have to have the +5V line for the +12V line to come up) then there must be a fault in the PSU section of the logic board. Check the 'Vc' line, and then I'll suggest how to debug the other supplies.

Re: Is there a fuse on the main board of the 9114A?

Message #15 Posted by [Daniel](#) on 2 Dec 2002, 7:29 p.m.,
in response to message #14 by Tony Duell (UK)

Thanks for the help so far! Much appreciated. I get 4.93V at the Vc terminal, ~6V at the 12V terminal and ~1.8V at the 5V terminal.

Re: Is there a fuse on the main board of the 9114A?

Message #16 Posted by [Tony Duell \(UK\)](#) on 3 Dec 2002, 5:59 p.m.,
in response to message #15 by Daniel

OK, Vc is fine. The +12V testpoint will be at battery voltage (+6V) if the +12V chopper isn't running. That's probably right too if the +5V line is missing. So let's start by sorting out the +5V PSU. Here's how it should work : U105 (MC1403 I think) is a +2.5V voltage reference. The output of that goes (amongst other places) to the top end of the potential divider formed by R105 and R104. This maintains the +ve input of U101a (LM358) at +0.5V. The -ve input of U101a comes from the tap on the potential divider formed by R107 and R106. The top end of that goes to the +5V line. R017 and R106 are chosen so that the -ve input of U101a is at 0.5V when the +5V line is correct. Thus U101a acts as an error amplifier, comparing what the 5V line is (tap of R107 and R016) with what it should be (tap of R105 and R104). The output of U101a goes to the base of Q102 via R102. Q102 drives the base of Q101, which is the pass transistor between the battery voltage and the +5V line. If U101a detects that the +5V line is too low, then it drives Q102 a little harder, which in turn drives Q101 a little harder, thus bringing the +5V line up a bit. There is one more circuit to consider. Q103's collector is connected to the base of Q102, and its emitter is grounded. Therefore if Q103 is turned on, Q102 and Q101 will be turned off, thus turning off the +5V line to save the battery. OK, how to debug it. Start by measuring the output of U105 (e.g. at the -ve input of U104b (MC3302)). If it's not 2.5V, check U105, CR102, and look for shorts on the reference line. Then check the voltage at the +ve input of U101a. If it's not 0.5V, check U101, R105, R104. Then check the voltage on the -ve input of U101a. If this is 0.5V (even though the +5V rail is low), then check U101, R106, R107. Now check the Q/output (pin 8) of U6b (74LS74). This should be a TTL low. If it's not, then the PSU is being turned off under software control. Find out why. Check U6. Check U15 (very unlikely). Check the output of U104b (MC3302) with a 'scope. This is a reset line for the HPIL chip and power-on logic, and should go low briefly at power-on). Check CR101 too. OK, if it's not being turned off by software control, then check the 3 transistors Q101, Q102, Q103.

Re: Is there a fuse on the main board of the 9114A?

Message #17 Posted by [Daniel](#) on 3 Dec 2002, 9:16 p.m.,
in response to message #16 by Tony Duell (UK)

I checked out this, and everything seems to check out ok. I get 2.6V at -Vin of U104b (pin 6), 0.493V at +Vin of U101a (pin 3), ~0V at -Vin of U101a (pin 2), and TTL low on the LS74. The only thing is that Q101 seems to get fairly hot - I can still touch it, but it is much hotter than any of the other components. Unfortunately I don't have a 'scope to check out the reset line. I should probably try to replace Q101.

At least I have some picofuses on order to replace my wire. I also got some old floppies from a colleague at work. If I can only get the drive to start up...

May I email you at the address in your post? It would probably be polite to take this off-line :-)

Thanks again for all the help and detailed info! Do you have a service manual for the drive?

Re: Is there a fuse on the main board of the 9114A?

Message #18 Posted by [Tony Duell \(UK\)](#) on 4 Dec 2002, 6:30 p.m.,
in response to message #17 by Daniel

Those voltages seem consistent with the low +5V line. The reference side seems to be working correctly. I'd have expected around 0.18V on the -ve input of U101a (pin 2) -- one tenth of what the 5V line actually is. But maybe that's close to 0 on your meter. One thing we didn't consider is that the PSU is trying to work correctly, but something is drawing an excessive load from it. Let's investigate that. Start by unplugging both of the cables to the drive at the controller board end. Power up again. If the voltages come up now (the unit will fail the self-test, of course) then there's something failed on the drive logic PCB (or there's a short in the power cable to the drive). If the +5V line is still low, then measure the current it's drawing from the battery. An easy way to do this is to connect an ammeter across the power switch connections with the switch _off_ -- the ammeter will complete the circuit. I would expect a working controller to draw < 200mA -- but a short could cause it to draw a lot more. Of course if you _do_ have a short across the 5V line then you're going to have to check a lot of parts to find it -- the 5V line is used by most of the chips on the controller board! Finally, you (or anyone else) is welcome to e-mail me on the address I give here to discuss anything you know I have an interest in. Which, of course, includes old HP calculators and their peripherals. I don't consider such messages to be SPAM.

Re: Is there a fuse on the main board of the 9114A?

Message #19 Posted by [Steve \(Australia\)](#) on 4 Dec 2002, 8:34 p.m.,
in response to message #17 by Daniel

> It would probably be polite to take this off-line :-)

Oh no it wouldn't ;-)

There are those of us out here quietly following this with a significant amount of interest.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-41 programs

Message #1 Posted by [Michel Beaulieu](#) on 29 Nov 2002, 6:32 p.m.

I'm learning programming the 41 and it may be good for me to look a others programs to get some tips; do you know some good site presenting the listing of 41 programs?

I also have a 75c.. very different programming i think, is there also a site for that calculator?

I have inherit a HP-IL module with my 41; what can i plug on it - I saw the same plug on my 75c; i plug them together (41cx and a 75c) but i'm sure they don't "talk" the same lauguage and i can't make them to talk, it is probably normal... Just for the fun of doing it, can i get one to "feel" the other with a particular command on the 41 or the 75c? - Thanks to fulfill my curiosity...

Re: HP-41 programs

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 29 Nov 2002, 6:38 p.m.,
in response to message #1 by Michel Beaulieu

Hi;

have a look [here](#) and choose the subject you most like.

Hope this helps.

Cheers.

Re: HP-41 programs

Message #3 Posted by [Emmanuel, France](#) on 30 Nov 2002, 4:14 a.m.,
in response to message #1 by Michel Beaulieu

Normally the HP-71B is more powerful than the HP-75C or D for the link between HP-7X and HP-41 series. You need a special BASIC program and LEX files (or ROM I/O). I have that pac somewhere. On HP-71B you can use 2 BASIC programs coming from 41/71 Translator Pac.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Notes from opening a Voyager

Message #1 Posted by [Steve](#) on 29 Nov 2002, 11:17 a.m.

First, thanks to everyone who provided their thoughts and experiences about opening/repairing a Voyager series HP. Here's what I found:

The brushed aluminum bezel is easily deformed if you attempt to remove it. I quickly gave up on this approach after the first crease appeared.

I took Raymond's advice (thank you!) and removed all the heat stakes except the bottom row. This allowed me to clean the display without totally removing the PCB. As you swing the PCB out the keys will move around and it's time consuming to move them back into their correct slot.

It took a long time to clean the inside of the display window because there seems to be some coating that flakes off as you clean it. It almost looks like a car window partly covered with ice. I had to clean the window until all of the coating was removed to have it look clear.

Use a razor blade (or Xacto knife) to remove the heat stakes and save them. After the repair is complete you can melt them (I only did a few in evenly distributed locations) with a soldering iron back into place. As you melt them, push the PCB down to get a tight seal. I'm not sure how strong they are, but they seem to hold.

I added a couple of 3M clear plastic rubber bumpers (self stick) to the bottom of the case which will help support the PCB. These, plus the full bottom row of stakes, 8 or so re-melted stakes, and the battery clip, seem to give adequate support for the keyboard. In conclusion, leave the inside of the display alone! It turns out the "dust" particle I was originally trying to remove is a defect in the display window plastic. By inserting a thin piece of laminated paper, I disturbed some sticky material and caused the problem. I'm basically back where I started, with a weaker PCB, and a small crease in the bezel (not really noticeable, but it stands out to me!). If you can't clean it with compressed air, leave it alone!

I hope this helps others down the road. Happy calculating,

Re: Notes from opening a Voyager

*Message #2 Posted by [Glen Kilpatrick](#) on 29 Nov 2002, 1:25 p.m.,
in response to message #1 by Steve*

This is *excellent*, thank you Steve. Please consider posting this to The Articles Forum, <http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/articles.cgi> (so that it will be more easily visible months & years down the road).

Re: Notes from opening a Voyager

*Message #3 Posted by [Steve](#) on 29 Nov 2002, 4:29 p.m.,
in response to message #2 by Glen Kilpatrick*

Thanks Glen. After all the effort and frustration I went through, I felt compelled to document what I discovered. As you recommended, I've moved it to the articles forum to hopefully save someone time (and their Voyager!) down the road.

Steve

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Formatting Digital Tape

Message #1 Posted by [Stefan Hauschild](#) on 29 Nov 2002, 7:39 a.m.

Does someone know how to format an 82161 digital cassette on an HP71B? The commands in the original manual are not described very well. Perhaps one needs a general description of HP-IL. Applying "cat:tape" gets the response "invalid media" but the electric part may be ok.

Bye

Stefan

Re: Formatting Digital Tape

Message #2 Posted by [Raymond Hellstern](#) on 29 Nov 2002, 9:26 a.m.,
in response to message #1 by Stefan Hauschild

Hi,

the command is

INITIALIZE(':TAPE')

but I don't have any other parameters here right now.

Raymond

Re: Formatting Digital Tape

Message #3 Posted by [Stefan Hauschild](#) on 29 Nov 2002, 10:22 a.m.,
in response to message #2 by Raymond Hellstern

Hello Raymond, thank you for your help. Now it seems to "format" the drive (it winds it through two times) but the message "invalid media" appears again when I try to make "cat: tape". So I think I have the common problem of "looking for a good tape"...

Bye

Stefan

Probably a bad tape

Message #4 Posted by [Mike](#) on 29 Nov 2002, 11:18 p.m.,
in response to message #3 by Stefan Hauschild

That is the usual message you get when you have bad media (tape). I have heard that most bad tapes are the felt pad but I have my doubts. I have some that behave this way, and the felt pads are great condition.

Very many of these old tapes are bad. I'm not sure what the percentage is but I have more bad ones than good ones.

Re: Probably a bad tape

Message #5 Posted by [Stefan Hauschild](#) on 30 Nov 2002, 6:02 a.m.,
in response to message #4 by Mike

I think it's the common problem with the tapes, too. But I am happy that my drive seems to be ok. Now I can try to refurbish the tapes like mentioned some threads before. I think the pad is ok and has enough pressure from the bronze plate. Sometimes I have the impression that the HP calculator and computer equipment (ref. the "gummy wheel problem") is simple consumer quality which is not comparable to the high standards of the measurement equipment. But it's both nice to refurbish and to play with :)

Bye

Stefan

Re: Probably a bad tape

*Message #6 Posted by [Tony Duell \(UK\)](#) on 1 Dec 2002, 5:34 p.m.,
in response to message #4 by Mike*

When the pressure pad in a 82176 cassette fails, it's not the felt that goes, it's the foam pad under it. The felt will still look fine -- it is fine. But it's not pressed against the tape properly. Try moving the felt around with a pointed tool. If it almost falls off, then the foam has decayed. I've handled many cassettes in the HPCC library, and I think I've seen one with tape problems (flaking-off oxide), about 10 with pressure pad problems, 5 or so where the tape has separated from the leader and a couple with BOT/EOT mirror problems.

Re: Probably a bad tape

*Message #7 Posted by [Stefan Hauschild](#) on 3 Dec 2002, 2:14 a.m.,
in response to message #6 by Tony Duell (UK)*

Hi Tony,

you are right, the felt is some sort of spinning around in the holder. But I thought it gets pressed by the read/write head. I will try to replace it from a part of a normal Cassette. Do you have any hints how to open the HP cassette without destroying it?

Bye... Stefan

Re: Probably a bad tape

*Message #8 Posted by [Tony Duell \(UK\)](#) on 3 Dec 2002, 5:46 p.m.,
in response to message #7 by Stefan Hauschild*

To open the HP cassettes, I normally use a non-magnetic tool (e.g. the handle of a cotton bud) inserted in the small square holes at the ends of the 'window' side of the cassette. And then prise (pry) the housing apart. Once it's started to separate, I run a finger nail (or if it's really well stuck, a thin blade) round the joint. Always dismantle these cassettes label-side up. The case halves are not identical, and the bits stay in place better if you do it that way. I replace the pressure pad with a piece of felt stuck on a double-sided adhesive foam pad (Maplin sell (sold?) them in the UK, called 'Quickstick pads'). As I mentioned a short time ago, I have an article I wrote for DataFile describing how to repair these tapes. My web browser won't let me include it in a posting like this, but I'd be happy to ftp it, or e-mail it somewhere. Is there some way it could then be posted to the articles forum here?

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

"E" series LED problems and battery advice

Message #1 Posted by [John Garza \(3665\)](#) on 28 Nov 2002, 11:06 p.m.

My HP 33C developed a bad digit in the display. Not completely out, it displayed the correct digit, but very, very dim. After disassembling the machine, I pulled the LED module (it just plugs in/out) and blew a dust remover air jet over the row of open sockets on the main board. I noticed a tiny bit of white fluff shoot out. Reassembling revealed a perfect display! I guess the fluff/dust/whatever simply caused a poor electrical contact!

Also, I've taken to using alkaline batteries in my HP's for fear of overheating during recharge, bad rechargeable batteries causing electrical anomalies, line spikes while connected to the mains, etc. etc. The little double battery spring that comes in Woodstocks is easily reused. I simply saw out the center plastic bar on the battery pack, remove the old nicads and pop in fresh alkalines (remember to mark the + and - terminals to make it easier in the future to change batteries). But the Spice machines do not use a similar metal spring. I've found the adhesive foil from the top of a juice can works great! Just peel, cut a small rectangle to fit, and stick it to the plastic wall opposite the battery contacts in the battery compartment. Pop in batteries and calculate while you enjoy some OJ.

cheers, -John

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

I can't stop. Please help !

Message #1 Posted by [Pyerre L.](#) on 28 Nov 2002, 9:27 p.m.

Hello,

I'm quite new to this hobby and learning RPN.

Beleive it or not I've been bitten by the monster HP calculators collecting bug & ill with it for about a month now.

I have to stop before she will throw me on the street with those junks (as she calls it) ;-(

Someone has a crue ?

Great forum,

Pyerre

Re: I can't stop. Please help !

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 28 Nov 2002, 11:08 p.m.,
in response to message #1 by Pyerre L.

Hi;

it's just for the first three-four months; then you get used to. No big deal...

Who do you call "she"? Wife? Girl-friend? Both in one person only?

If you cannot beat them, join them. Give her a new HP and promise her you'll stop collecting the day she can use the calculator completely (give her an HP49G). IF it happens, it's gonna be two of you instead of one. You'll both share the same illness.

Cheers. (my ex-wife loved to play **Hunt the Wumpus** in my HP41C).

Re: I can't stop. Please help !

*Message #3 Posted by [Pyerre L.](#) on 29 Nov 2002, 12:14 a.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Hi, I'm collecting old radios (big things) for years and now switched to HP calculators (small toys), 14 of them now.

Too much hein !

She = Lovely wife

Pyerre

Re: I can't stop. Please help !

*Message #4 Posted by [Art Litka](#) on 13 Dec 2002, 8:29 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Well, here's my story. I have been collecting HP's for a while and needed a way to show them off instead of storing them in a closet. My wife encouraged me to display them so we bought a display case in a resale consignment store. When I first saw the case I knew it was perfect, so I asked how much they wanted for it. The proprietor looked at me quizzically and said " but it's empty!" I told her that I wanted to display old electronic calculators in it. At that point she probably thought I was looney and tried to tell me that the case was not for sale but I persisted. She contacted the owner and we struck a deal. I looks great with both HP and TI units in it but now it's full! Should I look for another case or stop collecting? My wife is now thinking that I've "lost it". Maybe if I pursue this she will have a "legitimate case" agaisnt me! Any thoughts?

Re: I can't stop. Please help !

*Message #5 Posted by [David Smith](#) on 29 Nov 2002, 4:13 p.m.,
in response to message #1 by Pyerre L.*

The cure: take two HP35 red dots and call me in the morning ;)

Re: I can't stop. Please help !

*Message #6 Posted by [Pyerre L.](#) on 29 Nov 2002, 8:13 p.m.,
in response to message #5 by David Smith*

Hi,

If you have a "red dot" to offer... I could not stop anymore &
should quit the forum then. Too much tentations up here!

;-)

Pyerre

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

EDUCALC SERVICE MODULE

Message #1 Posted by [Michel Beaulieu](#) on 28 Nov 2002, 11:46 a.m.

Someone wants to self test his CX with a module : on my calc, my "double" module is also written "EDUCALC SERVICE MODULE". When i asked the question, some users told me that it is a x-memory with double capacity : It is true, with the module plug, i have 600 b Extended memory (without it is 124 i think).

Is that module also a service module as the name suggest? how to access the commands?

Thanks Michel

Another unknown module... for me ;-)

Message #2 Posted by [Michel Beaulieu](#) on 28 Nov 2002, 11:49 a.m.,
in response to message #1 by Michel Beaulieu

I also have a module on a HP-75 that i can't access : it is written "POD DIAGNOSTIC" What is that module for and how to access it?

Re: Another unknown module... for me ;-)

Message #3 Posted by [Emmanuel, France](#) on 28 Nov 2002, 2:01 p.m.,
in response to message #2 by Michel Beaulieu

May be a service module for testing the HP-75C/D RAM/Modem pod. I use one and can test it for you if you want. Regards.

Re: EDUCALC SERVICE MODULE - One question

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 28 Nov 2002, 2:54 p.m.,
in response to message #1 by Michel Beaulieu

Hi;

execute [CAT] 2 with nothing but this module. The standard available functions should be:

- TIME 2X
- CX TIME
- EXT FCN 2X
- CX EXT FCN

, where 2X is the version/revision type, being X an id (letter). If any other module is plugged in AND it has a header (module's name), this header should appear between -CX TIME and EXT FCN 2X. If you plug a card reader, you would have:

- TIME 2X
- CX TIME
- CRD RDR 1X
- EXT FCN 2X
- CX EXT FCN

, being 1X its identifier.

Plug in the module and execute [CAT] 2. If nothing appears, chances are this is just a double X-Memory module.

One question: I do not know if it is possible to plug a ROM module in an HP41 and have its functions suppressed from [CAT] 2. Does anybody know anything about it?

Regards.

Re: EDUCALC SERVICE MODULE - One question

Message #5 Posted by [Michel Beaulieu](#) on 28 Nov 2002, 5:57 p.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)

Nothing add in CAT2 so it's just a double x-mem module. Thanks!

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-41 Bar-Code checksum algorithm.

Message #1 Posted by [Diego Diaz](#) on 28 Nov 2002, 6:45 a.m.

Hi again!

Does anybody here know how is the HP-41 Bar-Code checksum calculated?... (And wants to share this info :-)

Thanks in advance.

Re: HP-41 Bar-Code checksum algorithm.

Message #2 Posted by [Vassilis Prevelakis](#) on 28 Nov 2002, 7:53 a.m.,
in response to message #1 by Diego Diaz

The "Make You own HP41C Barcode" Manual is included in the MoHPC CDROM collection. The Basic programs are essentially unreadable (what a horrible language), but the algorithms and flowcharts are all there.

The manual is in file packs/hpbc.pdf

**vp

Re: HP-41 Bar-Code checksum algorithm.

Message #3 Posted by [Tony Duell \(UK\)](#) on 28 Nov 2002, 6:10 p.m.,
in response to message #1 by Diego Diaz

My 'LIF Utilities for Linux' package includes programs to produce HP41 program and data barcode, and of course they calculate the checksums. These programs come as (hopefully) commented C source code, so you might be able to figure out the algorithm from there. It'll make more sense if you have the 'Create your own HP41 barcode' book, though

Re: HP-41 Bar-Code checksum algorithm.

*Message #4 Posted by [Diego Diaz](#) on 29 Nov 2002, 5:19 a.m.,
in response to message #3 by Tony Duell (UK)*

Hi!

Thank you both for your comments. Finally I've got the desired algorithm and... it was here at MoHPC!!:

<http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/articles.cgi?read=42>

An article posted by Dan McDonald (my gratitude for him), wich includes an Excell file "HP_ListA.xls" with an annotated macro for the barcode generation.

The "real thing" is fairly easy: (sum of bytes 2-16 (or the last byte if less in row) + previous row checksum byte) MOD 255.

Again, thanks and cheers from the middle of the Athlantic Ocean ;-)

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

make 60000 now

Message #1 Posted by [mspark](#) on 28 Nov 2002, 1:21 a.m.

I MADE \$60 000 IN 2 MONTHS NO JOKES READ THIS! From: Marlando Sparks Email: Marlandos@yahoo.com Phone: Address: City: State: Zip: Country: Category: Looking for... Remote Name: 172.152.142.183

Comments GREETING ALL! Please follow the EXACT instructions and you will be rewarded. I found this on a bulletin board and decided to try it: A little while back, I was browsing through news groups and e-mails just like you are now, and came across an article similar to this that said you can make thousand of dollars within weeks with only an initial investment of \$6.00. So I thought, "yeah right, this must be a scam," but like most of us, I was curious, so I kept reading. Anyway, it said that you send \$1.00 to each of the six names and addresses stated in the article. You then place your own name and address on the bottom of the list and post the article in at least 200 news groups (there are thousands). No catch, that was it. So after thinking it over, and talking to a few people first, I thought about trying it. I figured, "What have I got to lose; except six stamps and \$6.00 right, right?" Then I invested the measly \$6.00.

WELL GUESS WHAT?.....Within seven days, I started getting money in the mail I was in awe. I figured it would end soon, but the money just kept coming in. In my first week I made about \$31.00. By the end of the second week I had made a total of more than five hundred dollars. In the third week I had considerably more than the previous week, nearly two thousand, and it is still growing! This is my fourth week and I have made a few thousand more and it is still coming rapidly. It is certainly worth the six-dollar investment and six stamps, believe it or not I have spent more on lottery with no returns. Let me explain how this works and most important, why it works.....Also, make sure you print this article out NOW, so you can get the information. STOP NOW: Print this article out so you can get the information you need off of it. I promise you that if you follow the directions exactly you will start making more money than you thought possible by doing something so easy. Suggestion: Read this entire message carefully, and follow the simple directions and watch the money come in. It is easy, It is legal, and your investment is only \$6.00 plus postage. Important: This is not a rip-off, it is decent, it is legal; and it virtually without risk- it really works! If all of the following instructions are adhered to, you will receive extraordinary dividends. PLEASE NOTE: Please follow the directions EXACTLY, and 50-thousand-dollars or more can be yours in 20 to 60 days. This program remains successful because of the honesty and integrity of the participants. Please continue its success by carefully adhering to the instructions. You will now become a part of the Mail Order business. You are in the business of developing Mailing Lists. Many large corporations are happy to pay big bucks for quality lists. However, this money made from the mailing lists is secondary to income that is made from people like you and me asking to be included on that list. Here Are The Four Easy Steps To Success: Get six (6) separate pieces of paper and write the following on each piece of paper. "PLEASE PUT ME ON YOUR MAILING LIST." Now get six (6) U.S. 1.00 bills and place one (1) inside of each of the six pieces of paper so the bill will not be seen through the envelope (to prevent thievery). Next, place one paper in each of the six envelopes and seal them with the dollar bill enclosed. You now should have six sealed envelopes each with a piece of paper stating the above phrase with your name and address written thereon [don't forget to enclose the \$1.00]. What you are doing is creating a service -THIS IS ABSOLUTELY LEGAL! You are requesting a legitimate service and you are paying for it. Clearly, I was a little skeptical and a little worried about the legal aspects of it all. Therefore, I checked it out with the U.S. Postal Service (1-800-275-8777) and they confirmed that it is indeed legal. Mail the six envelopes to the following addresses:

[1] Joy Moore 400 S Kingsley Drive Los Angeles, CA 90020-3224

[2] Hussain 103 Village Drive Avenel, NJ 07001, USA

[3] Ryan Levine 4342 Reyes Drive Tarzana, Ca 91356

[4] Brad Wilson 920 Cambridge SE, MI 49506

[5] Romel Arias 4 River Road Apt#12A New York NY, 10044

[6] Marlando Sparks 425 N Waldemar Pasco, Wa 99301

Now take the #1 name off the list that you see above, move the other names up (six becomes 5, and 5 becomes 4, and etc.) and add YOUR NAME as number 6 on the list. Change anything you need to but try to keep this article as close to the original as possible. Now post your amended article to at least 200 news groups. (I think there are close to 24,000 groups). All you need is 200, but remember, the more you post, the more money you make! This is perfectly legal. If you have any doubts, refer to Title 18 Section 1302 & 1341 of the Postal Lottery Laws. Keep a copy of these directions for yourself and whenever you need money you can reuse it again. Please Remember: That this program remains successful because of the honesty and integrity of the participants and by their carefully adhering to directions. Look at it this way, if you are of integrity, the program will continue and the money that so many others have received will come your way. NOTE: You may want to retain every name and address sent to you, either on a computer or hard copy and keep the notes people send you. This VERIFIES that you are truly providing a service. Also, it is a good practice to wrap the \$1.00 bill in dark paper to avoid the risk of mail theft. So, as each post is downloaded and the directions carefully followed, all members will be reimbursed for their participation as a List Developer with one dollar each. Your name will be moved up the list geometrically so that when your name reaches the #1 position you will be receiving Thousand of Dollars in Cash! What an opportunity for only six-dollars (\$6) one-dollar (\$!) for each of the six people listed above. Send it now, add your own name to the list and you are in business. Directions on How To Post To News Groups: You do not need to retype this letter to do your own posting. Simply put your cursor at the beginning of this letter and drag your cursor to the bottom of this document, and select copy from the edit menu. This will copy the entire letter into the computer's memory. Open a blank notepad file and place your cursor at the top of the blank page. From the edit menu select paste. This will paste a copy of the letter into the notepad so that you will add your name to the list. Save your new notepad file as a text File, if you want to do your posting in different settings, you will always have this file to go back to. Use Netscape or Internet explorer and try searching for various new groups (on-line forums, message boards, chat sites, discussions). Visit these message boards and post this article as a new message by highlighting the text of this letter and selecting paste from the edit menu. Fill in the subject, this will be the header that everyone sees as they scroll through the list of postings in a particular group, click the post message button. You are finished You have finished your first posting. Congratulations! THAT'S IT. All you have to do is jump news groups and post away, after you get the hang of it, it will take about 30 seconds for each news group. ***REMEMBER THE MORE NEWS GROUPS YOU POST IN, THE MORE MONEY YOU WILL MAKE!*** IT IS A MOST FOR YOU TO POST A MINIMUM OF 200.

lucky for you u don't live near me

Message #2 Posted by [me](#) on 28 Nov 2002, 1:53 a.m.,
in response to message #1 by msparks

i'd pay you a visit

Re: make 60000 now

Message #3 Posted by [Andreas Stockburger \(EU\)](#) on 28 Nov 2002, 2:12 a.m.,
in response to message #1 by msparks

Hi,

can you explain to me what this has to do with calculators ?

Best regards

Andreas

Re: make 60000 now

Message #4 Posted by [Iqbal](#) on 28 Nov 2002, 6:53 a.m.,
in response to message #1 by msparks

This is a calculator forum. So please don't post your junk here. And why is it junk? Check out these couple of links:

<http://www.wfdsa.org/worldcongressxi/Press%20Release%201-ENG.pdf>

<http://www.sohojobs.org/chains.html>

Lose \$6 now

Message #5 Posted by [You-you-and-you](#) on 28 Nov 2002, 7:14 a.m.,
in response to message #1 by msparks

Now!

Sparkling Out of the Way

Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 28 Nov 2002, 8:28 a.m.,
in response to message #1 by msparks

Would anybody show him the front door? He is probably lost... Anyway, this sort of insane madness is good to be shown sometimes in here, so we can feel glad we're normal, serious people. ;-)

HP- 60000 available now

Message #7 Posted by [lowracer](#) on 28 Nov 2002, 9:13 a.m.,
in response to message #1 by msparks

I didn't have time to read the entire post, just saw the title. Is HP coming out with a new model, the HP-60000? More digits in the model number means more features at a higher price.

Will it have RPN? Will it have the gummy wheel problem? What will they sell for on ebay after being discontinued in a year? Is it new in the box or just minty fresh?

Tell everyone you know... The HP-60000 is here at last!

Get An HP-60000 Now! (Humor)

Message #8 Posted by [Mike Sebastian \(Texas\)](#) on 28 Nov 2002, 11:49 a.m.,
in response to message #7 by lowracer

The HP-60000 is a new concept in personal computing. The HP-60000 gets its name because it's "Hardly Portable having been built from 60,000 separate components." You can have have RPN and the gummy wheel problem if you want - this is your no-compromise personal computing device built to your specifications!

I GOT 60,000 ELECTRONIC PARTS IN 2 MONTHS NO JOKES READ THIS!!!

Comments GREETING ALL! Please follow the EXACT instructions and you can own an HP-60000 too. I found this on a bulletin board and decided to try it: A little while back, I was browsing through news groups and e-mails just like you are now, and came across an article similar to this that said you can own the HP-60000 within weeks with only an initial investment of six components. So I thought, "yeah right, this must be a scam," but like most of us, I was curious, so I kept reading. Anyway, it said that you send one electronic component from your junk drawer (anything from a resistor to a computer mother board) to each of the six names and addresses stated in the article. You then place your own name and

address on the bottom of the list and post the article in at least 200 news groups (there are thousands). No catch, that was it. So after thinking it over, and talking to a few people first, I thought about trying it. I figured, "What have I got to lose; except six electronic components and some postage?" Then I invested the measly six components.

WELL GUESS WHAT?..... Within seven days, I started receiving the parts for my HP-60000. I was in awe. I figured it would end soon, but the parts just kept showing up. I got 31 components my first week. By the end of the second week, I had received nearly two thousand components. By the end of the eighth week, I'd received over sixty thousand electronic components. My house looks like an electronics salvage warehouse. My wife left me and filed for divorce, but my attorney assures me I'll be able to keep my HP-60000 parts after the marital property is divided. My attorney says my wife will probably get the house, but that's really a benefit because I'm going to need a warehouse for my HP-60000.

PLEASE NOTE: Please follow the directions EXACTLY, and the parts for an HP-60000 can be yours in 20 to 60 days. This program remains successful because of the honesty and integrity of the participants. Please continue its success by carefully adhering to the instructions. Here Are The Four Easy Steps To Success: Get six (6) separate pieces of paper and write the following on each piece of paper. "PLEASE HELP ME BUILD AN HP-60000." Now get six (6) electronic components and tape one (1) to of each of the six pieces of paper (or vice-versa if the component is larger than the piece of paper) so the component will not be lost. Next, place one paper with component in each of the six envelopes or boxes and seal them. You now should have six sealed parcels each with a piece of paper stating the above phrase with your name and address written thereon. What you are doing is recycling electronic components -THIS IS ABSOLUTELY LEGAL! You are sending surplus electronic components to an electronic components recycler. Clearly, I was a little skeptical and a little worried about the legal aspects of it all. Therefore, I checked it out with the U.S. Postal Service. Other than not mailing hazardous materials, they thought collecting hundreds of thousands of dollars in postage for each HP-60000 was a wonderful idea. Mail the six envelopes to the following addresses:

[1] Joy Component Salvage, c/o Dewey, Chetham & Howe, LLP, Los Angeles, CA 90000

[2] Hussain Components and Recyclers c/o Dewey, Chetham & Howe, NJ 07001, USA

[3] Ryan Electronic Supplies, c/o Dewey, Chetham & Howe, LLP, Tarzana, Ca 91356

[4] Brad's Recyclers , c/o Dewey, Chetham & Howe, LLP., Cambridge SE, MI 49506

[5] Romel's HP-60000 Project, , c/o Dewey, Chetham & Howe, LLP, New York NY, 10044

[6] Sparky's ESD, c/o Dewey, Chetham & Howe, Pasco, Wa 99301

Now take the #1 name off the list that you see above, move the other names up (six becomes 5, and 5 becomes 4, and etc.) and add YOUR NAME as number 6 on the list. Change anything you need to but try to keep this article as close to the original as possible. Now post your amended article to at least 200 news groups. All you need is 200, but remember, the more you post, the more components you get! THAT'S IT. All you have to do is jump news groups and post away, after you get the hang of it, it will take about 30 seconds for each news group. ***REMEMBER THE MORE NEWS GROUPS YOU POST IN, THE MORE COMPONENTS YOU GET FOR YOUR HP-60000!*** IT IS A MUST FOR YOU TO POST A MINIMUM OF 200.

Re: Get An HP-60000 Now! (Humor)

Message #9 Posted by [Dave Shaffer](#) on 28 Nov 2002, 1:47 p.m.,
in response to message #8 by Mike Sebastian (Texas)

What a wonderful way to get rid of all that trash (er, valuable components gathering dust in the garage) that my wife berates me about on occasion! Do HP LaserJet IIs qualify?

I almost fell off my chair reading this. Way to go, Mike.

Re: Get An HP-60000 Now! (Humor)

Message #10 Posted by [Wayne Brown](#) on 29 Nov 2002, 8:20 a.m.,
in response to message #8 by Mike Sebastian (Texas)

Mike,

This was great. It's the only chain letter in which I've ever been tempted to participate!

(Too bad "Monty Python" isn't around any more; you might have been able to get a job writing for them. :-)

Re: Get An HP-60000 Now! (Humor)

Message #11 Posted by [Paul Brogger](#) on 2 Dec 2002, 2:23 p.m.,
in response to message #8 by Mike Sebastian (Texas)

I heard once (maybe in InfoWorld's "Robert X. Cringely" column) that Windows 2000 was written in a similar (distributed development) manner. Developers added ten lines of code and then sent the source to ten friends. Pretty soon, development done!

(Then came the testing . . .)

Very well done, indeed!

Wanted Online Typists (SW)

Message #12 Posted by [Glen Kilpatrick](#) on 28 Nov 2002, 10:27 a.m.,
in response to message #1 by msparks

And there's one of these in the Ads Without Auctions, also having nothing to do with HP Calculators. I wonder if that means we've been *discovered*?

IMHO, the problem's that the I'net is full of such vermin, and there's only one Dave (who's peddling as fast he can already). Too bad MoHPC can't be relocated to an IP without a hostname, so that we'd know but it couldn't be found....

Re: make 60000 now

Message #13 Posted by [David Smith](#) on 28 Nov 2002, 3:23 p.m.,
in response to message #1 by msparks

This is just typical chain letter trash. It is also against federal law. I have taken the time to forward his offer to the Federal Trade Comission and FBI Internet Crimes Task Force.

BTW, when you get to where you are going... don't bend over in the shower ;)

did a search on the name M. Sparks

Message #14 Posted by [barry](#) on 28 Nov 2002, 11:08 p.m.,
in response to message #1 by msparks

results were: M. B. Sparks, 125 S Elm Ave, Pasco, WA 99301 (509) 547 - 8514; same town, different address; if poster actually is who he claims to be (i'm guessing that dave has the actual IP or email address), he's some sort of dummy. maybe he needs some late night phone calls?

Why is this SPAM still here?

Message #15 Posted by [Mike](#) on 29 Nov 2002, 9:35 a.m.,
in response to message #1 by msparks

nm

Because we're fooling around with it!!??

Message #16 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 29 Nov 2002, 10:53 a.m.,
in response to message #15 by Mike

Maybe Dave believe we're the cat playing with a dead mouse.

Who knows Marlando Sparks?

Message #17 Posted by [Emmanuel, France](#) on 29 Nov 2002, 3:09 p.m.,
in response to message #1 by msparks

make money now!!!

Posted by M. Sparks on Tuesday November 26, @10:31PM

I MADE \$60 000 IN 2 MONTHS NO JOKES READ THIS! From: Marlando Sparks Email: Marlandos@yahoo.com Phone: Address: City: State: Zip: Country: Category: Looking for... Remote Name: 172.152.142.183 Comments GREETING ALL! Please follow the EXACT instructions and you will be rewarded. I found this on a bulletin board and decided to t...

found with altavista.com

site is <http://www.mtb.bc.ca/>

Hey, guys, please; just be cautious

Message #18 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 29 Nov 2002, 4:51 p.m.,
in response to message #1 by msparks

Hy;

even if the guy is a complete moron, placing someones' personal info in sites for public access is not good policy... mostly in USA.

It's clear that this moron did not read the Terms of Use, but being a moron is not a sin. Agree?

Just be cautious about this...

Re: Hey, guys, please; just be cautious

Message #19 Posted by [Emmanuel, France](#) on 29 Nov 2002, 5:13 p.m.,
in response to message #18 by Vieira, Luiz C. (Brazil)

I'm wondering if it's a bad joke.

Re: Hey, guys, please; just be cautious

Message #20 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 29 Nov 2002, 6:34 p.m.,
in response to message #19 by Emmanuel, France

Hi, Emmanuel;

just before I'm misunderstood, the one I'm refering to as moron is Mr. Spark. And as a good moron, he can put more and more bad stuff like this.

You may see my post is attached to the first one, and yours was the last one in this thread.

I did not let it clear... Sorry!

Cheers.

Re: Hey, guys, please; just be cautious

Message #21 Posted by [Emmanuel, France](#) on 30 Nov 2002, 1:03 a.m.,
in response to message #20 by Vieira, Luiz C. (Brazil)

I meant that it should be a bad joke from another one, i.e. not Mister Marlando Sparks.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 41CX Self Test???

Message #1 Posted by [Steve](#) on 27 Nov 2002, 4:32 p.m.

Is there a self test key sequence for the HP 41CX? Thanks,

Steve

Re: HP 41CX Self Test???

Message #2 Posted by [Gambit](#) on 27 Nov 2002, 4:36 p.m.,
in response to message #1 by Steve

I think you will need the Service Module for that operation.

Re: HP 41CX Self Test???

Message #3 Posted by [Steve](#) on 27 Nov 2002, 11:10 p.m.,
in response to message #2 by Gambit

I've never seen a "service" module, what is it?

Steve

Re: HP 41CX Self Test???

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 27 Nov 2002, 11:36 p.m.,
in response to message #3 by Steve

Hi;

there is no "built-in" test for the HP41C series (C/CV/CX). Otherwise, a Service Module exists for the HP41 and was internally used by Hewlett-Packard (repair center). This module allows a series of tests to be performed in the HP41 it is connectec to.

I cannot say anything about availability, but some guys own some of these Service

Modules.

Is there anything in particular you need so you are looking for self-tests in the hP41?

Cheers

Re: HP 41CX Self Test???

*Message #5 Posted by [Mike \(Stgt\)](#) on 28 Nov 2002, 10:22 a.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)*

Sorry to correct you, Luiz, there are two Service ROMs in minimum. Had to learn recently that there was an other for the HP-41CX.

If you have the HW (Quasi-ROM, RAM that looks like ROM for the HP-41, W&W-RAMBOX for example) you may download the Service ROM and test your calculator. Or an HP-41 emulator if it allows to add ROMs. :-)

Ciao.....Mike

Re: HP 41CX Self Test???

*Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 28 Nov 2002, 11:45 a.m.,
in response to message #5 by Mike (Stgt)*

Hi, Mike;

Thank you. New info is always welcome. When you wrote "Sorry to correct you, Luiz, (...)" I thought I posted wrong information.

Cheers.

Re: HP 41CX Self Test???

*Message #7 Posted by [Randy Smith](#) on 29 Nov 2002, 1:55 p.m.,
in response to message #1 by Steve*

If you have a PPC Rom you can do a display test of sorts. Program 'DT' lights up most all of the segments of the display. However, the ROM doesn't have any other type of diagnostic routines.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Connectors for 48/49 serial port

Message #1 Posted by [Jeffrey_G](#) on 27 Nov 2002, 12:47 p.m.

I would like to make my own serial cable for connecting a PC to either an HP-48 or 49G. Does anybody have the partnumber for either the 5-pin connector for the 48 or the 2x5-pin connector for the 49G?

If you had a DIGI-key partnumber, that would be the best!!

Jeff

Re: Connectors for 48/49 serial port

Message #2 Posted by [Arnold](#) on 27 Nov 2002, 2:26 p.m.,
in response to message #1 by Jeffrey_G

Hi Jeff,

Maybe you can take a look here:

<http://www.hpcalc.org/search.php?query=serial>

You can find a lot of information on building your own cable.

Regards, Arnold

Re: Connectors for 48/49 serial port

Message #3 Posted by [Glen Kilpatrick](#) on 27 Nov 2002, 6:03 p.m.,
in response to message #1 by Jeffrey_G

You might also find <http://pweb.jps.net/~joehorn/cable.htm> to be of use (not exactly pinouts, but if you have anything to reuse....

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP85 - Looking For Owner's and Programming Manual

Message #1 Posted by [Dilson Mattos Jr.](#) on 27 Nov 2002, 12:31 p.m.

I have been donated a surprisingly preserved HP85, but with no manuals. I am looking for possible sources where I can obtain a paper or electronic copy of the HP85 - Owner's and Programming Manual.

Re: HP85 - Looking For Owner's and Programming Manual

Message #2 Posted by [Jim L](#) on 27 Nov 2002, 12:43 p.m.,
in response to message #1 by Dilson Mattos Jr.

For electronic, see [here](#).

For paper, see [here](#) or [here](#).

Re: HP85 - Looking For Owner's and Programming Manual

Message #3 Posted by [Dilson Mattos Jr.](#) on 27 Nov 2002, 1:38 p.m.,
in response to message #2 by Jim L

Thanks for the quick response and valuable help.

Re: HP85 - Looking For Owner's and Programming Manual

Message #4 Posted by [Vassilis Prevelakis](#) on 28 Nov 2002, 7:59 a.m.,
in response to message #3 by Dilson Mattos Jr.

You may also want to check <http://www.series80.org>. Although it doesn't have the Programming Manual, it contains other Series 80 manuals and utilities.

**vp

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Alcaline Battery for vintage HP calculators ?

Message #1 Posted by [Pyerre L.](#) on 27 Nov 2002, 11:57 a.m.

Hello,

I just start collecting vintage HP calculators and get five of those : the HP-25, HP-34C, HP-33E, HP-34C and the 41C. All original rechargeable batteries have been long gone. Can I use normal Alcaline batteries to power them without problems ?

Many thanks, Pyerre

Re: Alcaline Battery for vintage HP calculators ?

Message #2 Posted by [Emmanuel, France](#) on 27 Nov 2002, 12:54 p.m.,
in response to message #1 by Pyerre L.

You can use 2 x 1.5V on HP-33E and HP-34C,
and 4 x 1.5V on HP-41C.
But please no alcaline battery on HP-25C, it's too fragile.
You can easily replace their batteries.
Use 2 x Cadnica N-450AA 1.2V 450mAh for instance
(HP-3X and HP-25C),
and 4 x Cadnica N-50AAA (HP-41C).

Re: Alcaline Battery for vintage HP calculators ?

Message #3 Posted by [Pyerre L.](#) on 27 Nov 2002, 1:33 p.m.,
in response to message #2 by Emmanuel, France

Hi, Many thanks for helps. Since you've mentionned about the HP-25C, I've verified and mine is the HP-25. I guess the alcaline batteries should work for this too ?

Thanks again, Pyerre

Re: Alkaline Battery for vintage HP calculators ?

Message #4 Posted by [Emmanuel, France](#) on 27 Nov 2002, 4:33 p.m.,
in response to message #3 by Pyerre L.

Take care. Don't plug the adapter w/o battery inside! Don't use alkaline battery for this one too. Too fragile!

Re: Alkaline Battery for vintage HP calculators ?

Message #5 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 28 Nov 2002, 7:30 a.m.,
in response to message #4 by Emmanuel, France

Many years ago, I used regular, alkaline batteries in my HP25 (not C) without problems. Of course, don't use alkalines and the AC Adapter/Recharger at the same time! It's just my experience, but be very cautious; a working 25 is a treasure you should protect.

Rebuilding the battery pack with new NiCd batteries is a good idea, or eventually with NiMH modern rechargeables.

In any of these cases, please recharge your batteries in an appropriate EXTERNAL charger. NiMH recharging requirements are different from NiCd. Even with NiCd, there is a very high chance that any bad contacts (oxide, corrosion, dirt, etc) or other circumstances, will cause excessive voltage from the AC adapter to be applied to very delicate (unreplaceable) parts of your calculator, killing it in a fraction of a second. I have not enough time for a detailed explanation now, but please avoid any use of the AC adapter in your valuable machines.

Also, with a modern, external charger, it will be much faster to recharge the batteries.

Re: Alkaline Battery for vintage HP calculators ?

Message #6 Posted by [Pyerre L.](#) on 28 Nov 2002, 9:28 a.m.,
in response to message #1 by Pyerre L.

Hi,

Many thanks for all of advices. The HP-25 came with the original battery pack (long died, of course) & its own AC adapter. No, I did not tried to use it with the calculator yet. I've built a small 2.5VDC power supply for the HP-25, test it and it works perfect. A real marvel. The HP-25 is my favorite (not the 25C). I don't know why.

Thanks, Pyerre

<http://www.batteriesplus.com/>

Message #7 Posted by [Glen Kilpatrick](#) on 28 Nov 2002, 10:42 a.m.,
in response to message #6 by Pyerre L.

<http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/articles.cgi?read=254> (*Thanks*, Katie Wasserman) describes "battery surgery", but <http://www.hpmuseum.org/repair.htm> may have an alternative that lets someone else do the sweat, look for the "Having Someone Else Repair It" section.

There's a Batteries Plus in Sacramento, a friend with a 19C "Sting" and I should be trying out their "Battery pacs are sometimes repaired while you wait" stuff sometime in December. Note that NiCads are easy to get, spot welding may be harder (I haven't a clue, sorry), but the plastic that comprises the rest of the battery pack is most likely irreplaceable (thus our decision to leave this to the professionals).

Re: <http://www.batteriesplus.com/>

Message #8 Posted by [db\(martinez,california\)](#) on 28 Nov 2002, 6:26 p.m.,
in response to message #7 by Glen Kilpatrick

just a general note: instead of spot welding i have had good luck with using a low heat solder that i got at radio shack. it comes in a squeeze tube and the paste contains its own flux. i have not overheated any batteries yet when using it.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Thanks to Steve, Dale Richmond, and Alain

Message #1 Posted by [Tom Sherman \(Maine\)](#) on 27 Nov 2002, 10:21 a.m.

I want to thank Steve (Australia), Dale Richmond, and Alain (Canada) for keeping my HP 9114B disk drives in functioning order.

Since 1984, the HP-71B has been my most important calculating tool, and I have written scores of programs for it connected to my interests and work. While I keep these programs on magnetic cards, I am not at ease unless I can access them from floppy disks as well, using the 9114B drive. Recently I began to feel that both of my drives were dying. But Steve, Dale, and Alain on this Forum have come to my rescue.

Steve's beautiful article on Repairs for the 9114 allowed me to fix a stuck ejection mechanism on one of the drives.

Dale Richmond showed me in a posting that I could by-pass a dead battery pack and power a 9114B with a Radio Shack AC adapter, part number 273-1695. I am now doing that with complete success.

Alain showed me how to replace the dead battery in a 9114B battery pack with the InterstateBatteries.com part number SLA0902. That too will soon be done.

Thanks to all of you -- and to the HP Forum -- for keeping my HP-71B system alive and healthy!

Tom

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Double A531D Module???

Message #1 Posted by [Michel Beaulieu](#) on 26 Nov 2002, 11:11 p.m.

Hi, my father give me when he died a HP-41CX and a lot of accessories that i slowly learn about on this site and other. But there is a module name "Double" and number "A531D" that i don't know anything about: It's a silver tape on the module and not a "engraved" white encryption. Can someone tell me the purpose of this ROM... or RAM... and how to access it???

Thanks...

Michel Beaulieu,

younger physic teacher than my father who normally work with TI-Graphic calculator... So excuse me if this module is well known!!! :-)

Re: Double A531D Module???

Message #2 Posted by [Emmanuel, Normandy \(France\)](#) on 27 Nov 2002, 3:10 a.m.,
in response to message #1 by Michel Beaulieu

Dear Michel, It seems to be the famous 'Educalc Service Module'. Sincerely yours. Best regards from Evreux

Re: Double A531D Module???

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 27 Nov 2002, 8:51 a.m.,
in response to message #1 by Michel Beaulieu

Hi;

is there any difference when you list CAT 2 contents with and without the module?

I was once told (rumor?) that double memory modules were available for the HP41C, say, two 82106A in one single case. Is it true or just a fairy tale?

If no extra label appears when CAT 2 is executed with this module, I suggest testing it in an HP41C (neither CV, nor CX) and check for extra regular registers.

Best regards

Re: Double A531D Module???

Message #4 Posted by [Richard Garner](#) on 27 Nov 2002, 9:49 a.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)

I have one of the double Extended Memory ROMs. It just says MEMORY on it. If it is a double Etended Memory Module, you can do a CATALOG 6,I think, on the 41CX and it should show a total 600 Bytes if Extended Memory is empty. It has been awhile sense I looked at the Extended Memory CATALOG.

Re: Double A531D Module??? NEW CLUES

Message #5 Posted by [Michel Beaulieu](#) on 27 Nov 2002, 12:10 p.m.,
in response to message #1 by Michel Beaulieu

I remove the module and i saw another label "EDUCALC MODULE SERVICE". I also made a CAT4 with the module i get 600 and without the module i get 124... Perhaps "you" can find now the utility of my module :-)

Thanks for answer!

I have another question; i tried to FIX the decimal with "." but nothing, FIX9 get 9 decimals, FIX0 get 0; normal you say but i hate when the diasplay is full of 0 like 0.0000 or 0.000000000. How to get all the possible decimals without all these 0 when i hit CLX?

Re: Double A531D Module??? NEW CLUES

Message #6 Posted by [Massimo Gnerucci \(Italy\)](#) on 27 Nov 2002, 12:37 p.m.,
in response to message #5 by Michel Beaulieu

I have another question; i tried to FIX the decimal with "." but nothing, FIX9 get 9 decimals, FIX0 get 0; normal you say but i hate when the diasplay is full of 0 like 0.0000 or 0.000000000. How to get all the possible decimals without all these 0 when i hit CLX?

No way. There is no STD (as it was then named) format on the 41 series.

I like to have a full display instead: CF28 (SF29) FIX9 is my standard boot procedure on a 41...

Greetings,
Massimo

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Woodstock's LED display characteristics

Message #1 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 26 Nov 2002, 9:50 p.m.

Hi;

does anybody have the electrical characteristics for the LED's that compose the digit's segments for the Wodstocks displays? Are they regular LED's?

I'd like to know also the driver's operating output values (hand-scratched waveform with peak and time values are welcome, sure!), if available.

I do not have an oscilloscope that I could use for this sort of measurement (mine is a vacuum-tube scopelab without scale patterns... Please, don't laugh too loud!), so I'm asking for any information you have.

What for? I'll let you know soon... No bad stuff, believe me.

Thank you for any info.

Cheers.

Re: Woodstock's LED display characteristics

Message #2 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 28 Nov 2002, 7:18 a.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

Luiz: I think I have just some hints for your question.

Almost sure, the displays are common cathode (one cathode per digit), the maximum direct (permanent) current should be 15 to 20mA per segment.

The display is multiplexed and scanned by firmware routines; if you take a look at the HP45 emulator and related patents documentation, which includes some of the code, you will have a reference about software-refreshed displays. By the way, if a hardware segment decoder (like

the TTL 7448) had been used, messages like "Error" or "OF" would have not been possible.

Asuming a 1/12 duty cycle (only one digit is turned on at any time); or eventually a 1/8 duty cycle (one segment active at a time), you may obtain a peak current value which will be averaged in time. However, I think it is safe not to exceed 40 or 50 mA for pulsed operation, as this case is.

Please take these just as not confirmed suggestions...

By the way, my trip to Brazil was suspended...

Re: Woodstock's LED display characteristics

*Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 28 Nov 2002, 12:01 p.m.,
in response to message #2 by Andrés C. Rodríguez (Argentina)*

Hi, Andrés;

too bad you're not giving our Country the pleasure (and merit) to have you here. Hope you have other chances to come.

About the LED's: have you noticed that each segment of each digit is built with 4 (sometimes five) lit dots? Say, if you use a magnifying lens you'll see there are dots, not a line, for each segment.

Is it just a mask for better reading? Is each segment built with only one semiconductor? This fact is the one that lead me to ask about the displays. Even the HP97 uses these constructive blocks, having a different set of magnifying lenses.

Have anyone tried to find replacement for these displays? (I'm trying to find any)

Thank you very much.

Cheers.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP34C Chips positions ?

Message #1 Posted by [Pyerre](#) on 25 Nov 2002, 8:31 p.m.

Hello,

I've opened my HP-34C for contacts cleanning and didn't note the 3 small chips placement... and mix them up. Stupidly I :- (Anyone could help me to figure them out which goes where.

Looking at the back, I guess something like ?

ILB902/80402/SGP02 (up) IMA10015/1215/SGP804 (center) IMA114/80382/SGP14 (bottom)

Please help, Thanks, Pyerre

Re: HP34C Chips positions ?

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 26 Nov 2002, 9:21 p.m.,
in response to message #1 by Pyerre

Hi;

I had a look at [this photo](#) and it seems to me that, except for the eightieth pin of the topmost IC, all three IC's share the same connections, say, it doesn't matter their position; just check for the topmost and pin #1 reference. I'd also use a multimeter (lower ohm scale, flex without IC's) and check it there is no internal connection for this particular pin and the others. Who knows...

Anyway, compare your flex PCB with the one in the picture. Better yet, look at your calculator's flex and check for the connections.

Hope it helps.

Regards.

Re: HP34C Chips positions ?

Message #3 Posted by [David Smith](#) on 27 Nov 2002, 4:26 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

Two of the chips (ROMS) share the same pinouts, the third is the RAM chip that has a different backup power supply connection. Or it could be two RAMS and one ROM. The two common pinout chips can be swapped, the other can't. I don't have a 34C handy to say which chips are which though.

Re: HP34C Chips positions ?

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 27 Nov 2002, 9:43 p.m.,
in response to message #3 by David Smith

Hi;

I believe you're right about ROM's and RAM, mostly because the separate IC has its power pin coming straight from the power supply connector, and the others share their power pins with the CPU. I guess this two IC's should be ROM and the first one is RAM, powered directly.

I have an HP33C guts and I had a look at their IC's on mainboard. The topmost IC is an 1LB901, and the remaining other (only one, bottom position) is an 1MA something (unreadable). As the HP34C has two 1MA IC's and one 1LB, I guess their position is:

1LB902
1MAxxxxx
1MAxxxxx

Would you try this configuration, Pyerre? Now that I see the codes you posted first, it seems to me the different prefixed IC (1LA) would go in the different position, as the other two share the same prefix (1MA; probably ROM).

Hope you have success. Let us know about it!

Cheers.

Re: HP34C Chips positions ?

*Message #5 Posted by [Pyerre L.](#) on 28 Nov 2002, 9:55 a.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)*

Hi,

First, many thanks for all of helps (public & private emails).

Here's how make it works again :

Top : 1LB902 - 80402 - SGP02

Center : 1MA10015 - SGP8041215

Bottom : 1MA114 - 80382 - SGP14

Thanks, Pyerre

Re: HP34C Chips positions ?

*Message #6 Posted by [Tony Duell \(UK\)](#) on 28 Nov 2002, 6:16 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Pin 8 of the memory chips in the Spice series is the power supply pin. The top location is wired sepearately back to the PSU module. On -E models, this connection is linked to the main power line in the PSU module, so all 3 locations are equivalent. On the -C models (includign the HP34C), the PSU module contains an extra couple of diodes and a resistor to provide a 'continuous' supply to the top IC location, to maintain the contents of the RAM. If you get the ICs in the wrong places, then the machine should work, but you'll lose the contents of memory when you turn it off. In all cases, pin 1 (notched end) of the IC points towards the display (this applies to the 40 pin CPU chip also).

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

constructing .PDF's

Message #1 Posted by [barry](#) on 25 Nov 2002, 7:39 p.m.

i have some HP advertisements, and other docs that i would like to post for download, or transfer via email; the question is, i usually scan and make .jpg's, and keep them fairly large to keep the detail (especially when i'm doing manuals w/ schematics, etc); my question is, how to make .pdf files - i am aware that Adobe has the .PDF Writer on their software (about \$149.00?); is there some way to get around purchasing the software, and constructing .pdf files? i can scan and choose .pdf files, but then each one is an individual .pdf file, not like the files i download from the web in which a document (consisting of multiple pages) is in the form of a pdf w/ all its attributes. when i have an advertisement like some early HP calc items the .jpg files get large, and if the ad has 8 or 10 pages, my 56K dial-up makes transferring somewhat timely - i would like to cut down this transfer time - does a .pdf doc actually cut down the size of the doc? any help out there, i have some early HP ads that i'm sure many here would enjoy! any info & input would be greatly appreciated! when scanning pages to make a .pdf file what format is each page in? i obviously wish to keep the pages from the HP ads that are in color in their same colorful scheme! the .pdf's i download are all b&w, and i'm figuring this is how they keep the transfer down by scanning B&W format. tnx barry carson city, nv
PS: i'm using a late model HP scanner.

Re: constructing .PDF's

Message #2 Posted by [Renato](#) on 25 Nov 2002, 8:44 p.m.,
in response to message #1 by barry

There is free pdf at <http://www.webxd.com/zipguy/freepdf.htm>

Installation is not simple, but it works.

Re: constructing .PDF's

*Message #3 Posted by [Tony David Potter](#) on 25 Nov 2002, 11:22 p.m.,
in response to message #2 by Renato*

I use pdf995 - it's an ad-supported pdf maker that uses PS scripts, but should work on any windows system. You should be able to find it at <http://www.pdf995.com>

--Tony David

Re: constructing .PDF's

*Message #4 Posted by [Dave Shaffer](#) on 25 Nov 2002, 11:48 p.m.,
in response to message #1 by barry*

Unfortunately, making pdf's will not save you any space. In fact, for normal text, the pdf's are BIGGER than the original text. For images, you still need to carry all the image information (the jpg files are already compressed with a lossy mechanism - if you want to retain full fidelity, you need to use some other (larger!) format. I prefer PC Paintbrush files.), so the pdf's are not going to be smaller.

If you happen to have academic status (i.e. are a student or teacher), you can get the full Adobe Acrobat program at a quite reasonable price (about \$60, compared to >\$200 retail, even at discount) fomr various academic resellers. (Look for "academic discount software" with your favorite search engine.) Once installed, you make pdf's by "printing" to the acrobat program.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Powers of Matrices on 49G

Message #1 Posted by [Stercus](#) on 25 Nov 2002, 6:16 p.m.

I have been searching the manual for about ½ hour to find out how I raise a matrix to for example 7. I am not sure exactly what it is called so here is an example:

[Matrix]^7

BTW are there more places to get help for HP calculators than here? I would like to know if there was newsgroups and more forums and so.

Re: Powers of Matrices on 49G

Message #2 Posted by [James M. Prange](#) on 25 Nov 2002, 8:02 p.m.,
in response to message #1 by Stercus

First, I have to say that I don't know what the result of raising a matrix to a power should be. Assuming that your 49G is in RPN mode, enter the matrix (for example, $\begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$), enter the exponent (7 in this example), and press the Y^X ([Q]) key. The 49G returns $\begin{bmatrix} 30853 & 44966 \\ 67449 & 98302 \end{bmatrix}$. Is that correct?

A newsgroup that discusses the 49G is comp.sys.hp48. Don't let the "hp48" part discourage you; it includes "similar" calculators, that is, the 28 series, 48 series, 49G, and even the 38G, 39G, and 40G, and occasionally other calculators. I think that the 49G is probably the most often discussed calculator on the newsgroup lately. For an archive (about 99,800 threads at the moment) of the newsgroup visit <http://groups.google.com/groups?q=comp.sys.hp48>.

For a huge source of information visit <http://www.hpcalc.org/>. You can also tap into the HP48 Ring at <http://www.webring.org/cgi-bin/webring?ring=hp48&list>.

To get the most up-to-date flash "ROM", visit http://www.epita.fr/~avenar_j/hp/49.html.

In general search the web for "HP 49" or "HP 48".

Regards,
James

Re: Powers of Matrices on 49G

Message #3 Posted by [Tom Sherman](#) on 25 Nov 2002, 8:39 p.m.,
in response to message #2 by James M. Prange

The TI-83 (dare I mention it?) gives the same answer (is that confirmation, or the opposite?), and its manual is clear about how to do it. (This is one reason HP is in trouble.) Since the TI-83 is algebraic, it is just entered as [Matrix]^7.

Of course the matrix has to be square in order to be multiplied by itself.

Re: Powers of Matrices on 49G

Message #4 Posted by [Karl Schneider](#) on 28 Nov 2002, 3:12 p.m.,
in response to message #2 by James M. Prange

Interesting! This brings up the logical question: How would one perform A^7 on other HP's with built-in matrix support? Here are my answers:

HP-42S:

y^x is not supported for matrices. Don't use the x^2 function, because that will only square each matrix element. Instead, after loading the square matrix with the descriptor in the X-register:

ENTER, ENTER, ENTER, X, X, X, X, X, X or, ENTER, ENTER, X, ENTER, ENTER, X, X, X

HP-15C:

The result matrix cannot be stored to the same name (A, B, C, D, or E) as the name of either multiplicand matrix. With the square matrix loaded into "A":

RCL MATRIX A, ENTER, RESULT B, X, ENTER, RESULT C, X, RCL MATRIX B, RESULT D, X, RCL MATRIX A, RESULT B, X

A bit cumbersome, but there's enough memory to perform A^7 (or any n) for a 4x4 real-valued matrix A!

HP-41 with Math, Math/Stat, or Advantage module:

Suggestions? I have the equipment, but haven't learned the added-on matrix functions for the 41.

Re: Powers of Matrices on 49G

Message #5 Posted by [R Lion](#) on 25 Nov 2002, 8:17 p.m.,
in response to message #1 by Stercus

Put the matrix on level 1. Put 7 on level 2. Press Y^X .

News Group: comp.sys.hp48

Raul

Re: Powers of Matrices on 49G

Message #6 Posted by [Stercus](#) on 26 Nov 2002, 3:54 p.m.,
in response to message #5 by R Lion

I have done exactly what you suggested and as I thought I should do, but I get this error message: ^ Error: Bad Argument Type.

Will an update of the calculator solve that problem?

Re: Powers of Matrices on 49G

Message #7 Posted by [R Lion](#) on 26 Nov 2002, 4:16 p.m.,
in response to message #6 by Stercus

I use a 48GX with Erable: that's exactly what I must do for getting the result. I tested it in my "virtual" 49 (emu48) before posting, and, as expected, I got the same answer. I can only say that I'm using the last ROM... You are in RPN mode, aren't you?

Raul

Re: Powers of Matrices on 49G

*Message #8 Posted by [James M. Prange](#) on 27 Nov 2002, 1:50 a.m.,
in response to message #6 by Stercus*

You should have the matrix on level 2 and the exponent on level 1 before you press the Y^X key.

I don't know about the other ROMs, but it works for me with both revision 1.18 and revision 1.19-6.

Regards,
James

Re: Powers of Matrices on 49G

*Message #9 Posted by [R Lion](#) on 27 Nov 2002, 2:45 a.m.,
in response to message #5 by R Lion*

As James says, just upside down: matrix in level 2 and exponent in level 1. Sorry for the mistake. Raul

Re: Powers of Matrices on 49G

*Message #10 Posted by [Stercus](#) on 27 Nov 2002, 3:15 p.m.,
in response to message #9 by R Lion*

It seemed to be an update it took to make it possible. Thanks for your help.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 42s solver question

Message #1 Posted by [Mike](#) on 25 Nov 2002, 5:43 a.m.

I have a simple program for the 42s that uses the solver to work out the value for the diameter of an object or area depending on what the user chooses (see below).

What I would like to know, is there a way to also include the circumference while using the solver. For example if 7.3 was chosen for the "Dia" then if you pressed the key corresponding to "Area" it would work out 41.85 or if you pressed the key corresponding to "Circ" you would get 22.93.

I'm not sure if this can be done but would be grateful if someone out there can help.

Thanks Mike

```
{41-Byte Prgm} LBL "Dia" MVAR "Dia" MVAR "Area" RCL "Dia" x2 PI X 4 / RCL- "Area" END
```

Re: HP 42s solver question

Message #2 Posted by [Tom Sherman](#) on 25 Nov 2002, 10:02 a.m.,
in response to message #1 by Mike

Hi Mike,

From your numerical examples, and from the appearance of PI in the solver expression, it appears that "object" refers specifically to spheres.

Revisions are needed both in the calculation of area, and in the program listing, since $\text{area} = \pi \times d^2$, and the result for your calculation of area should be 167.42 rather than 41.85. There is a confusion here of diameter and radius -- you are not the first, I do it all the time!

But for the interesting question of whether there is any way to incorporate diameter, area, and circumference in one solver program: I don't think so. I believe you would need two separate expressions for the solver to solve. And how about the volume as well? This is one of those cases where a BASIC program would serve much better.

Greetings from the coast of Maine,

Tom

Whoops! Sorry!!

*Message #3 Posted by [Tom Sherman](#) on 25 Nov 2002, 10:12 a.m.,
in response to message #2 by Tom Sherman*

Mike,

Forgive me. Your "object" is a circle, I guess, rather than a sphere. So your calculation is correct. Ignore all my rubbish except for the last paragraph.

Tom

A second look

*Message #4 Posted by [Tom Sherman \(again\)](#) on 25 Nov 2002, 1:06 p.m.,
in response to message #3 by Tom Sherman*

If we wanted to write for the solver a single expression involving the three variables: diameter, area, and circumference (of a circle), we could do so. One example would be:

$$((PI*DIAM^2)/2)-AREA-((CIRC^2)/(4*PI))=0$$

which in effect says that twice the area minus the area minus the area equals nothing

The problem is that because we have three variables in one expression, the solver will have to be given two of them in order to work. That would mean that if we started, for example, with the diameter, we would have to calculate the area separately to enable the solver to give us the circumference, or calculate the circumference separately in order to get the area.

Re: A second look

Message #5 Posted by [r. d. bärtschiger](#) on 25 Nov 2002, 1:21 p.m.,
in response to message #4 by Tom Sherman (again)

A question:

Isn't the area of a circle;

' $\pi * r^2$ '

not

' $\pi * d^2$ ' ?

and Circumference

' $\pi * d$ ' ?

rdb.

Re: A second look

Message #6 Posted by [Tom Sherman](#) on 25 Nov 2002, 2:08 p.m.,
in response to message #5 by r. d. bärtschiger.

Yes, my expression is confusing (unorthodox), but I think it is OK -- but goodness knows, I am capable of messing this up forever!

The first term represents twice the area, expressed in terms of the diameter. The area is $(\pi * d^2)/4$ (or $\pi * r^2$), so twice the area is $\pi * d^2/2$.

The second term represents the area in terms of the area -- that one is difficult!

The third term represents the area in terms of the circumference. Since the circumference is $\pi * d$, the square of the circumference is $(\pi^2) * d^2$, which needs to be divided by $4 * \pi$ to give the area -- which again is $(\pi * d^2)/4$.

So then if we take the first term and subtract the other two we get zero. Or is it the sound and the fury signifying nothing?

Sorry about all this!

Tom

Re: HP 42s solver question

*Message #7 Posted by [Mike](#) on 26 Nov 2002, 4:07 p.m.,
in response to message #6 by Tom Sherman*

Thanks for your replies Tom, I will play around with your example.

A BASIC program for the circle

*Message #8 Posted by [Tom Sherman](#) on 26 Nov 2002, 5:57 p.m.,
in response to message #7 by Mike*

Mike,

Don't play around with it too much! The expression is a curiosity, but totally impractical. Ordinarily, if we know any one of the three features of a circle -- diameter, area, circumference -- we can directly calculate the other two. That is, if we have one we can get two. But with my expression put in the solver, we need two to get one! Not much of a bargain.

Much better would be a simple BASIC program. The following is written for an HP-71B:

```
10 DESTROY ALL @ FIX 2 @ DELAY 2
```

```
20 DISP "DIAM=1,AREA=2,CIRC=3"
```

```
30 DELAY 8
```

```
40 INPUT "START WITH 1,2,or 3?";N
```

```
50 IF N>1 THEN 100
```

```
60 INPUT "DIAMETER =";D
```

```
70 DISP "AREA =";PI*D*D/4
```

```
80 DISP "CIRCUMFERENCE =";PI*D
```

```
90 GOTO 200

100 IF N>2 THEN 160

110 INPUT "AREA =";A

120 D=SQR(4*A/PI)

130 DISP "DIAMETER =";D

140 DISP "CIRCUMFERENCE =";PI*D

150 GOTO 200

160 INPUT "CIRCUMFERENCE =";C

170 D=C/PI

180 DISP "DIAMETER =";D

190 DISP "AREA =";PI*D*D/4

200 END

Tom
```

Re: A BASIC program for the circle

*Message #9 Posted by [Mike](#) on 27 Nov 2002, 3:50 p.m.,
in response to message #8 by Tom Sherman*

Thanks Tom,

I also have the hp71b so I will have a play with that as well and see if I can program that. I haven't used it before so for a bit of fun I will try to enter your program.

Thanks Mike

Re: HP 42s solver question

Message #10 Posted by [Werner Huysegoms](#) on 28 Nov 2002, 3:18 a.m.,
in response to message #1 by Mike

Two ways to do it:

1. write the equation like

$$\text{ABS}(\text{Area} - \text{Dia}^2 \cdot \text{PI} / 4) + \text{ABS}(\text{Circ} - \text{Dia} \cdot \text{PI}) = 0$$

It works with the solver, but you'll find an extremum of course

2. use the name of the variable you're solving for: (how do I get this to show as I typed it instead of all in a row?)

```
LBL "Dia" MVAR "Dia" MVAR "Area" MVAR "Circ" ASTO ST X "Area" ASTO ST Y
X=Y? GTO 00 CLA ARCL ST X RCL "Dia" PI * RCL "Circ" - RTN LBL 00 RCL "Dia" X^2
PI * 4 / RCL "Area" - RTN
```

I think the Alpha-register must remain untouched, hence the CLA ARCL ST X

Werner Huysegoms

Re: HP 42s solver question

Message #11 Posted by [Randy Sloyer\(US\)](#) on 28 Nov 2002, 8:00 a.m.,
in response to message #10 by Werner Huysegoms

Werner: A very elegant solution. I worked on this for a few hours the other night and had given up on using solver for this. I never thought of having two solver programs within one. At least it got me paging through my new copy of the 42S programming guide (Thanks Iqbal!), so it was time well spent. I've made two insignificant changes (the RCL-)to the program and added the line numbers for ease of entry.

This was formatted using a {pre /pre} block around the code listing. More options can be found here: <http://www.hpmuseum.org/artfmt.htm>

```
00 {72 Byte-Prgm}
01 LBL "Dia"
02 MVAR "Dia"
03 MVAR "Area"
04 MVAR "Circ"
```

```
05 ASTO ST X
06 "Area"
07 ASTO ST Y
08 X=Y?
09 GTO 00
10 CLA
11 ARCL ST X
12 RCL "Dia"
13 PI
14 *
15 RCL- "Circ"
16 RTN
17 LBL 00
18 RCL "Dia"
19 X^2
20 PI
21 *
22 4
23 /
24 RCL- "Area"
25 RTN
26 END
```

Re: HP 42s solver question

Message #12 Posted by [Mike](#) on 28 Nov 2002, 4:23 p.m.,
in response to message #11 by Randy Sloyer(US)

Thanks you Randy and Werner, I tried your programs and they both seemed work correctly at first but only when you enter the "Dia" first, if you enter the others (area or circ)first it doesn't seem to calculate the correct result. I will try to understand how the program works and see why it is happening.

Thanks for your efforts.

Mike

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Double sided floppies for 9114...

Message #1 Posted by [Daniel](#) on 24 Nov 2002, 7:06 p.m.

I just got a 9114A drive and after I had a new battery pack built (with 3x2V cells), it looks like at least the 41CX is talking to it. However, it looks like the drive can only read double-sided floppies, not high density ones. I don't have a manual, so if someone can confirm this, it would be great.

I have one old disc that looks broken. I cannot format it with my PC & lifutils, and when I do a "newm" from the 41, I eventually get a "MEDM ERR".

So where can I still get regular (not high density) floppy drives?

Also, if someone has a link to the manual that would be much appreciated.

Re: Double sided floppies for 9114...

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 24 Nov 2002, 8:44 p.m.,
in response to message #1 by Daniel

Hi;

I hope people in here will not blame me for that, but I know what to do... What the h..., why not?

The high density 3 1/2' disks have two holes: one that you can open so its contents are protectec, and the other that signs if th disk is single or double density.

I have a 9114B and I use original single disks (DS SD) to record HP41 data, but I have already tested this: Just find a way to close the high-density hole, the one that is normally open when the disk is double density (it does not have an interlock, so you should use some sort of tape to lock it in both surfaces). You should take a lot of care so the tape will not be loosen and fall inside the tape driver. Use the best tape (not transparent) you have and check for its corners.

Then you use LIFUTIL, check for the options:

```
Disk type:  3 1/2' Double Sided
Sector size: 256 bytes (disk capacity: 616 KB)
Interleave: 2  (I always choose this, because it's default)
Directory size: 440 files (I always choose 440, because I think I'll never have
neither so much files nor so big ones)
```

If everything is fine, the disk space is automatically set to 616KBytes. This way, the disk will be ready to accept 130 KBytes of data (about 50 HP41CV fully loaded). If you have an HP82183A Extended I/O Module, you can load a program that's listed in the manual and use the full 610 KBytes, about 250 HP41CV fully loaded, no X-Memory in account. The problem is that the program does not run without the Extended I/O and it uses about 890 butes of regular

memory.

If you need more info, post again.

Hope this helps.

Re: Double sided floppies for 9114...

*Message #3 Posted by [Daniel](#) on 24 Nov 2002, 9:50 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Thanks for the reply! Got a disc formatted with lifutils. Had no luck writing to the disc yet :-(. I get "TRANSMIT ERR". Busy charging the battery to see if that will work.

Is the eject button supposed to latch in the "in" position with no disc? The drive will happily eject discs, but the eject button always comes out all the way, with or without a disc.

Re: Double sided floppies for 9114...

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 24 Nov 2002, 10:52 p.m.,
in response to message #3 by Daniel*

Hi, Daniel;

I'm glad you could format the disk. Unfortunately, my unit is a 9114B and it seems to me the drivers for the 9114A and 9114B are different. The fact the eject button is all the way out even without a disk may be normal in the 9114A driver, I don't know.

After charging the battery, keep in mind the 9114A Owner's Manual (mine is a hardcopy of the one that comes with the MoHP CD Pack; valuable pack; anyone dealing with HP calculators should have it) recommends using the unit with the charger always connected. I had in mind that rechargeable batteries should discharge (not completely) from times to times, but I changed this procedure when using the 9114B: AC charger plugged in all the time.

Success!

Re: Double sided floppies for 9114...

*Message #5 Posted by [jose gonalves](#) on 25 Nov 2002, 7:53 a.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)*

Uau ! Last time I heard of it was in the 80's, when we used to punch holes in the diskette magazine as for it "look" like high density diskettes for a PC computer. Tricks are allways the same !

Re: Double sided floppies for 9114...

Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 25 Nov 2002, 12:30 p.m.,
in response to message #5 by jose goncalves

E aí, José? (What's up, José?)

You're right! Sometimes I feel I'm in a DeLorean and getting back in time... straight to the past. Or, at the time we used our HP calculators for the first time, it was definitely a glimpse... of the future we're living now.

What a bunch of silliness I wrote here...

Cheers!

Re: Double sided floppies for 9114...

Message #7 Posted by [Daniel](#) on 25 Nov 2002, 10:23 a.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)

Thanks for the reply. I will have to get the CD. According to the battery guy, lead-acid batteries are the complete opposite of NiCads (which need to be discharged completely to avoid the "memory effect"). Discharging a lead-acid battery completely is bad for it, so it is better to have it topped off.

Re: Double sided floppies for 9114...

Message #8 Posted by [Diego Diaz](#) on 25 Nov 2002, 4:40 a.m.,
in response to message #1 by Daniel

Hello Daniel,

Though I haven't got a 9114A/B yet, I have several 3 1/2" Single Density Double Sided disks (don't panic!! I'm not willing to sell you nothing.) If you want to make a try with some of'em, please e-mail me with your mail address and I'll be glad to send you some (as much as I can fit into a regular size envelope for card weighed post fare, so I think that I can send you 4 or 5 at least.)

The disks are obviously non defect, 720KBytes standard PC formatted and have no data.

Hope this helps you to check the 9114 functionality.

Best regards from the Canaries!!

Re: Double sided floppies for 9114...

Message #9 Posted by [Vassilis Prevelakis](#) on 25 Nov 2002, 5:54 a.m.,
in response to message #1 by Daniel

- 1) Search the archives for 9114 articles. Check also the [article](#) on 9114 maintenance.
- 2) Clean the drive and the head in particular. 9114A drives are likely to have problems with the eject mechanism (although the eject button stays out even if a floppy is not in the drive). If the eject mechanism is sticking, you are likely to damage the R/W head (if its not already damaged).
- 3) Apply Viera's fix on a normal floppy (with the provisos mentioned in the articles above) and try to format a diskette. If it fails with a medium error, your drive is probably damaged and you need to go back to step one.

**vp

Re: Double sided floppies for 9114...

Message #10 Posted by [Daniel](#) on 25 Nov 2002, 12:50 p.m.,
in response to message #9 by Vassilis Prevelakis

Thanks for the reply. I have seen the article on 9114 repair, but that would be after I had tried all the other avenues :-)

So are you confirming that the eject button does stick out all the way, even if a disc is not in the drive?

The eject mechanism with a floppy seem to be fine - the floppy ejects quite snappily. It does not physically eject the disc all the way out the drive. It seems to have more-or-less the same action as my PC floppy, maybe a little less "forcefully". I have nothing to compare it with.

I will continue to search and tinker... Any and all tips & tricks appreciated.

Re: Double sided floppies for 9114...

Message #11 Posted by [Tom Sherman](#) on 25 Nov 2002, 1:46 p.m.,
in response to message #10 by Daniel

Daniel,

I cannot answer your question about the eject mechanism on the 9114A, as I have the 9114B. On the 9114B, the eject button stays in after the disk is ejected. If your disk clicks into position when inserted, and is ejected OK by the button, it sounds to me as if the mechanism is OK -- but, alas, this is only conjecture on my part.

One of my 9114B's developed a problem with its eject mechanism, so that the disk did not click into position when inserted. I followed the directions of the repair article (Steve's, Australia) and found the repair much easier than might be concluded from the article. I did not need to take springs, etc., off the drive, but merely gave the moving parts a little WD-40 oiling. In my case the offending piece was the thin, rotating lever on top of the drive, which had become gummed up. The whole thing now works beautifully again. The only unusual tool needed is a #8 torx screwdriver to get the cabinet open and the drive removed.

I am not suggesting that you open your unit up, because your eject mechanism is very likely OK. I just wanted to reassure you that if "surgery" becomes needed, it is not as daunting as it may sound.

Good luck with it!

Tom

Re: Double sided floppies for 9114...

Message #12 Posted by [Daniel](#) on 25 Nov 2002, 3:24 p.m.,
in response to message #11 by Tom Sherman

Thanks for the post. I did repair a gummed up wheel on a card reader without too much trouble. I will try a few more things and then its off to find a Torx screwdriver. I doubt that my driver & bits will fit the small hole.

Re: Double sided floppies for 9114...

Message #13 Posted by [Philip](#) on 25 Nov 2002, 5:04 p.m.,
in response to message #12 by Daniel

I have both the A and B. I've had no problems with the B's. The A I have definitely had the gummy ejection problem which was fixable. However, it did have a head problem. The head had come completely off and was not repairable, at least for mine. You could remove the cover and probably take a peek at the head and determine if it appears somewhat in place.

Re: Double sided floppies for 9114...

Message #14 Posted by [Tom Sherman](#) on 25 Nov 2002, 6:28 p.m.,
in response to message #12 by Daniel

P.S. The perfect #8 torx screwdriver is available at Sears for \$2.99 -- at least it is in Maine. And believe it or not, it is made in the USA. (Sometimes I think we don't know how to make anything anymore in the USA, not even shoes in Maine.)

Re: Double sided floppies for 9114...

Message #15 Posted by [Steve \(Australia\)](#) on 26 Nov 2002, 10:51 p.m.,
in response to message #11 by Tom Sherman

You wrote "I followed the directions of the repair article (Steve's, Australia) and found the repair much easier than might be concluded from the article. I did not need to take springs, etc., off the drive..."

The surgery mentioned is what I did to repair a bent head "suspension" assembly. I'd hope that people fix their drives before it comes to that.

Actually, on that point... If you ever find a disk "stuck" in one of these drives (often because the disk shutter is fouling the head) the safest solution is as follows:

- 1) reinsert the disk
- 2) press the eject button, but hold the disk in (it's probably not going to even partially eject anyway)
- 3) slide a piece of paper on top of the disk so it slips between the head and the disk
- 4) carefully withdraw the disk

5) remove the paper

6) fix the drive!!!

You also wrote "...but merely gave the moving parts a little WD-40 oiling."

I guess it depends on the degree of stickyness :-) allegedly WD40 will eventually turn to glue, so you may have to repeat the fix. I say allegedly, because it's not happened to me...

You also wrote "In my case the offending piece was the thin, rotating lever on top of the drive, which had become gummed up. The whole thing now works beautifully again."

It may be interesting for you to document that in the articles section. I've not had the B version gum up, so my article doesn't mention them. If you've had the problem, then others may too. Let them gain from your experience.

9114A/B related question

Message #16 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 26 Nov 2002, 11:46 p.m.,
in response to message #15 by Steve (Australia)

Hi;

I want to know if there is a way to replace the entire driver unit in case there is no way to repair it, say, the electronics + IL are fine. Is the 9114A/B 3 1/2' driver unit electrically compatible with available, existing commercial drivers? I did not open my 9114B (yet, God bless), but I'll do it if needed. In this case, should we try a transplantation?

Have anyone thought about this? Or tried?

Regards.

Re: 9114A/B related question

Message #17 Posted by [Vassilis Prevelakis](#) on 27 Nov 2002, 3:46 a.m.,
in response to message #16 by Vieira, Luiz C. (Brazil)

Vieira, Luiz C. (Brazil) wrote:

> Is the 9114A/B 3 1/2' driver unit electrically compatible
> with available, existing commercial drivers?

If by electrically you mean the the interface has TTL levels then the answer is yes (unlike, for example, the HP-85 bus which uses 6V logic).

Unfortunately it goes down from there. On the 9114A the connector itself is different from the "standard" PC floppy connector (fewer pins), so at least you get a big hint that there are compatibility issues. On the 9114B the connector is the same as that of a PC floppy drive.

However the pin-out is different!

The 9114B is powering the floppy drive via the flat ribbon cable (while the PC floppy drives have

separate power connectors).

The drives themselves are also different (they use different rotational speed for the floppy, so the interface is also very different).

So don't even think about swapping the floppy drive inside an 9114 with a PC floppy drive.

There are, available on eBay other HP equipment of the same era as the 9114, and these use the same type of floppy drives. E.g. the 9122 HP-IB comes with one or two floppy drives that are fully compatible with the 9114B.

Sorry for the bad news.

**vp

Re: 9114A/B related question

*Message #18 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 27 Nov 2002, 9:32 p.m.,
in response to message #17 by Vassilis Prevelakis*

Hi;

I've been wondering about the rotating speed. Would it be related to transfer rate? I have seen different standard PC floppies with different rotating speed; slightly different speed, enough we could notice by looking and measuring the time each drive would read and write the same file in the same computer.

Oh, yes; I should also consider Logic compatibility among electrical compatibility. I saw many portable floppy-drivers, and each of them has its own flex connector with different size, shape and (?) # of conductors. I have never found the time to check if they could be interchanged with each other, but the basic PC floppy controller is a standard for the PC's, right? But in the portable world, same electrical characteristics and standard do not necessarily mean same circuitry or wiring. Except for their Hard Disks, that also use the flat cable to power them.

I'd like to understand if the drivers are really 9114B dedicated units or if their transfer rate was reduced so it could be used with its electronics.

Would HP use a different drive for the 9114A/B? How different are they? Based on Vassilis' answer, I believe they have, indeed, used an specific assy.

I do not dare thinking of this event, but I'll try to collect as much data about the 9114A/B driver unit as I can, because I have a few unrepairable standard PC floppies and I'd like not to retire my 9114A/B because the driver unit no longer works. If we can format a LIF disk in a PC-like computer and later use it in the 9114A/B, I imagine transfer rate is the cause for a different rotating speed. In this case, a faster driver would be useless, of course.

Did anyone try something closer to this? Just in case we do not have original 914A/B drivers to replace.

Thank you, Vassilis; as always, your posts (as many others' posts) are full of good and concise information.

Cheers.

Re: 9114A/B related question

Message #19 Posted by [Steve \(Australia\)](#) on 27 Nov 2002, 11:53 p.m.,
in response to message #17 by Vassilis Prevelakis

> There are, available on eBay other HP equipment of the
> same era as the 9114, and these use the same type of
> floppy drives. E.g. the 9122 HP-IB comes with one or two
> floppy drives that are fully compatible with the 9114B.

You can also get replacements for the 9114A drive, which was the same one used in the early dual floppy and floppy/HDD units for the HP150. This is where I got my experience maintaining them.

Unfortunately I can no longer remember the part numbers, and I seem to remember that in at least one case the part number did not change (it could be the 9122, but then the early version could have been 9121...)

Not good information, but I'm sure they're out there. At one stage I could have given away dozens of them :-(

In actual fact, I did :-(:-(

Re: 9114A/B related question

Message #20 Posted by [Vassilis Prevelakis](#) on 28 Nov 2002, 8:08 a.m.,
in response to message #19 by Steve (Australia)

Steve (Australia) wrote:

> Unfortunately I can no longer remember the part numbers,
> and I seem to remember that in at least one case the
> part number did not change (it could be the 9122, but
> then the early version could have been 9121...)

No the 9121 are single sided. The drives externally look the same as the 9114A, but they only have one head.

But if you come across an 9121, don't throw it away, its usable with the series 80 machines (HP-83, HP-85, HP-86 and HP-87). Unfortunately these machines cannot use the higher capacity drives (like the 9122) because HP changed the communications protocol that runs over HP-IB.

**vp

Re: 9114A/B related question

Message #21 Posted by [Steve \(Australia\)](#) on 28 Nov 2002, 8:33 p.m.,
in response to message #20 by Vassilis Prevelakis

Vassilis Prevelakis wrote:

> No the 9121 are single sided. The drives externally look
> the same as the 9114A, but they only have one head.

The 9114A/B is single sided too. :-)

Re: 9114A/B related question

Message #22 Posted by [Tony Duell \(UK\)](#) on 28 Nov 2002, 6:28 p.m.,
in response to message #17 by Vassilis Prevelakis

The signals on the interfaces of both the 9114A and 9114B drive mechanisms are similar to those on the PC drive interface, and are at TTL levels. However, fitting a PC floppy drive mechanism is not just a matter of making up an adapter cable. The problem is that the 9114 drives (both versions) have sprindle motors that rotate at 600rpm (twice the PC drive speed of 300 rpm). Since the data density is the same on the 9114 disk and a PC 720K disk, this means the data rate is doubled, too. I suppose you could modify the controller board in a 9114 to work with a normal PC drive, but it wouldn't be trivial. However, the original drives can be repaired fairly easily (this seems to be an alien concept these days!). I've replaced heads, rebuilt spindle motors, and so on. In the case of the 9114B, many of the drive components (head carriage, stepper motor, many chassis parts, motor drive ICs, analogue ASIC, etc) are the same as in an Apple 800K drive, which is therefore a good source of spares. In the case of the 9114A, many of the chips are standard parts. I had one with a faulty spindle motor (didn't turn at all), and I found that the driver chip was also used in some VCRs, and was therefore available fairly easily. Getting heads for the 9114A is harder -- I think I found a similar drive (probably from an Apricot computer) with electronic problems, and removed the head assembly from that. Aligning it wasn't hard -- although I did have to buy a 3.5" alignment disk (which was not cheap). It was just a matter of stepping the head to the correct track (as I said, the signals are sufficiently close to standard that a normal drive exerciser will work with an adapter cable), connecting a 'scope to the head preamplifier testpoints and adjusting for the right catseye pattern. Let me know if you want to try anything like this -- I've got notes of what all the Testpoints do, and how to set up the trimmers on the controller board, etc.

Re: 9114A/B related question

Message #23 Posted by [James MacPhail](#) on 3 Dec 2002, 3:55 a.m.,
in response to message #22 by Tony Duell (UK)

Tony Duell wrote:

"Aligning it wasn't hard" ... "Let me know if you want to try anything like this -- I've got notes of what all the Testpoints do, and how to set up the trimmers on the controller board, etc.

I, for one, would like to have this information on hand, as I expect I will need it some day. Can you share this info with little effort, such as scanning your notes, or something like that?

Thanks,

James

Re: 9114A/B related question

Message #24 Posted by [Tony Duell \(UK\)](#) on 3 Dec 2002, 6:10 p.m.,
in response to message #23 by James MacPhail

Alas I have no scanner (and no suitable machine to connect it to). But I will try to type up an understandable version of the notes sometime. In the meantime, here's roughly how to align the trimmers on the controller board. You'll need the WD2793 data sheet because the procedure is _exactly_ as described in there -- HP made things easy for us. What you do is remove the controller board and put it on your bench component-side up. Power it up -- I normally use the switch wiring harness for this (plugged into J2 on the controller) with a 6V bench supply connected between the white (ground) wire and the White/Red wire (+ve). Then pull the '3060' jumper, which should stop the darn thing powering down while you're working on it. Move the jumper near the 2793 chip from the 'N' position to the 'Adj' position (this puts the 2793 into setup mode, and must be done _after_ powering up the board). Connect a 'scope or frequency counter to TP3 ('VCO'). Adjust C15 to set up the free-running read clock frequency. Connect the 'scope to TP2 ('RPW') and adjust R10 to set the read pulse window width. Connect the 'scope to TP1 ('WPW') and adjust R11 for the correct write precompensation delay -- this one is not too critical. As regards aligning the heads in the 9114A drive mechanism, it goes like all drive alignments. Connect the drive to an exerciser (or kludge one up using a PC and parallel port ...), then connect a differential-input 'scope to TP101 and TP102 on the drive logic board on FC9 PCBs or a normal 'scope to pin 1 of CN107 on FC16 PCBs. Pop in the alignment disk, step the head to the right track, and observe the catseye pattern. If one lobe is larger than the other, loosen the stepper motor mounting screws and rotate the stepper motor to align the head.

Re: 9114A/B related question

Message #25 Posted by [James MacPhail](#) on 4 Dec 2002, 6:04 p.m.,
in response to message #24 by Tony Duell (UK)

Thanks Tony!

I had trouble finding a WD2793 datasheet on the web. It looks like the TMS2793 and SAB2793 are direct substitutes, and indeed my 9114B contains a TMS2793.

I found a TMS279x datasheet at:

http://www.swtpc.com/mholley/DC_5/TMS279X_DataSheet.pdf

From this, and looking at my 9114B which seems ok, I conclude (Tony, please correct me if I'm wrong):

- TP3 (VCO) should be adjusted to 500 KHz
- TP2 (RPW) should be adjusted to 250 ns (high)
- TP1 (WPW) should be adjusted to 125 ns (high)

Interesting that these match the 8" disk specs rather than the 5.25" specs in the

datasheet. I presume this is due to 600 RPM of the drive speed rather than the usual 300 RPM for a 3.5" drive(?).

I see there is a 4 pole dipswitch, normally all off/open. Any useful functions there?

James

Re: 9114A/B related question

*Message #26 Posted by [Tony Duell \(UK\)](#) on 4 Dec 2002, 6:22 p.m.,
in response to message #25 by James MacPhail*

I believe those settings are correct -- certainly 'VCO' should be 500kHz. And yes, the data rate is the same as that of an 8" drive. This is twice the rate of a normal double-density 3.5" drive, but then the HP one has twice the spindle speed. So it all makes sense in the end. It's odd that HP claim these adjustments can't be done in the field, when in fact they're _trivial_ to do using quite simple equipment. As for the DIP switch. It selects one of 8 self-tests (the last switch (marked '1' on the switch) sends an NMI to the processor to start a service test. On the 9114A, BTW, there are 3 links to select the test and another marked 'Start SVC' to generate the NMI. I have a list of the tests, but no real info on them : 0 : Power on Reset ; 1 : ROM/RAM/FDC/PIA test ; 2 : HPIL test (loop back HPIL port) ; 3 : Read/Write test (-A), Reset (-B) ; 4 : Verify test (read all sectors) ; 5 : Track 0 test ; 6 : Motor speed test ; 7 : Format ;

Re: Double sided floppies for 9114...

*Message #27 Posted by [Tom Sherman](#) on 27 Nov 2002, 9:20 a.m.,
in response to message #15 by Steve (Australia)*

Hi Steve,

Thanks a million for the further information, and especially for your original article. Without your article my 9114B would still lie useless in the closet. I did the repair only a week or so ago, and had meant to write to thank you -- so please let this be my THANKS.

And my apologies if my words sounded in any way critical, which they were not meant to be. I am one of those who makes a mess of most any repair I try to do, and so I tend to be fearful of anything that sounds complicated. But I was desperate to have my disk drive working again, and your description was so clear and detailed that I made a special trip to the store for the #8 torx screwdriver you told us about and gave it a try. I could hardly believe the good results.

My reading of your article was too hurried. I did not quite understand the difference between the preventative medicine, so to speak, and the "surgery" for the damaged head. Thanks for pointing that out.

I keep checking to see that the WD-40 is still doing its thing, expecting to have to go in again. But so far (which is only a few days) it is working beautifully.

Thanks for writing. It is good to know you are still there!

With gratitude, and greetings from the other side of the world,

Re: Double sided floppies for 9114...

Message #28 Posted by [David Smith](#) on 27 Nov 2002, 4:29 p.m.,
in response to message #27 by Tom Sherman

One should NEVER use WD40 as a lubricant. It is actually a wax and will eventually gunk up again... bad... really bad.

WD-40

Message #29 Posted by [Tom Sherman](#) on 27 Nov 2002, 7:24 p.m.,
in response to message #28 by David Smith

Hmm....I don't know, David. Have you had bad experiences with it? I have a couple of Westclox Baby Ben's from the 1950's that stopped running long ago, until six years ago I sprayed them with WD-40, and they have been ticking happily ever since -- although one of them did once need a second dose. I'm sure that my behavior would cause a clock maker to lose his dinner, but these old five dollar clocks are now keeping good time just the same.

Re: WD-40 - I use it alright

Message #30 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 27 Nov 2002, 9:46 p.m.,
in response to message #29 by Tom Sherman

Hi;

what I have noticed is that WD40 sometimes may act as a solvent for some sort of ink. It also goes inflates some rubber-based material.

Anyway, I use it as lubricating material without any trouble. I avoid flexible plastics, but its a particular option.

My US\$ 0,05.

Don't use Wanton Destruction 40!

Message #31 Posted by [Tony Duell \(UK\)](#) on 28 Nov 2002, 6:35 p.m.,
in response to message #28 by David Smith

WD40 is not a lubricant, agreed. It will turn to a waxy substance, which will lock most small mechanisms totally solid! I've had far too many things cross my bench which have been sprayed with WD40 and are now in a terrible state. The only thing to do when this occurs is to totally dismantle the unit, soak the individual parts in solvent, clean them, re-lubricate with the right oil, and then reassemble. I have an (totally mechanical) camera here that I got cheap because it wasn't working. The real fault was one spring had come unhooked in the slow speed escapement. Repair : Remove baseplate (7 screws), hook on the spring, put the baseplate back. Unfortunately, the previous owner had sprayed WD40 in everywhere. Everything -- even the exposure meter movement -- will have to come apart for cleaning. A very long job. Be warned that if something comes to me for repair and it's been spryed with WD40, then the repair charge is multiplied by 3 (at least) to cover the extra time in removing said substance. It's for this reason that I can WD40 (officially 'Water Displacement formula 40') 'Wanton Destruction 40'. It really makes a mess of things.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Removing 11C Faceplate

Message #1 Posted by [Steve](#) on 24 Nov 2002, 2:05 p.m.

I have some very stubborn particles on the inside of the display lens of my 11C. Usually I use compressed air or a thin piece of laminated paper to clean it, but this material has some stick to it. I think my 2 options are to either remove the PCB by breaking the melted rivets, or, by removing the brushed aluminum faceplate which contains the plastic lens. I don't think anyone has a good solution to reattaching the PCB, so I figured I try getting in through the faceplate. I'm assuming there's glue holding it in place. Is it possible to remove it without destroying the faceplate? Is there a better way? Thanks,

Steve

Re: Removing 11C Faceplate

Message #2 Posted by [David Smith](#) on 24 Nov 2002, 3:10 p.m.,
in response to message #1 by Steve

The front bezel is held on with double sided sticky tape. I would try wetting a strong thread with the solvent heptane (small bottles are sold under the name UnDu) at most hardware and office supply stores). It causes any adhesive to loose it's stick for a short time. Use the thread like a cheese slicer to get under the bezel and the adhesive.

Don't remove 11C Faceplate

Message #3 Posted by [Raymond Hellstern \(Germany\)](#) on 24 Nov 2002, 3:39 p.m.,
in response to message #2 by David Smith

It's ways safer to open the calc from behind, and cut off or heaten the heat stakes, then angling out the PCB to remove the dust. If you're lucky your unit has a separate PCB for the display, which means you don't need to hassle around with the stakes.

If you try to remove the bezel from the front side, you are very likely to get some deformations on it, which you'll never get away afterwards.

So you have to decide if you want to take the eays and ugly way from the front, or the hardder but technically and cosmetically better way from behind;-)

Raymond

Re: Removing 11C Faceplate

*Message #4 Posted by [Steve](#) on 24 Nov 2002, 5:13 p.m.,
in response to message #2 by David Smith*

Is the 2 way tape over the entire surface, or just in certain locations? Has anyone successfully removed the bezel?

I agree with Raymond, that coming in from the back is better from a cosmetic perspective. My concern is that there's not a good way to reattach the PCB which will cause a "spongy" feel to the keyboard. Has there been a solution to this problem?

Steve

Re: Removing 11C Faceplate

*Message #5 Posted by [db\(martinez,california\)](#) on 24 Nov 2002, 5:53 p.m.,
in response to message #4 by Steve*

steve;

do you know if hp uses the same sticky stuff on both voyagers and pioneers? i have removed the faceplate from a 32sii by soaking it in wood alcohol for a day and then going at it slowly. i didn't make any wrinkles, but i didn't fix the problem either. i also removed the 32's back. having tried both, i must say that like most situations; being more natural :->) the front is the way to go.

since my unit is still not working i have not re-attached the faceplate. i am following your thread in hopes that you will learn the best way to do that.

Re: Removing 11C Faceplate

*Message #6 Posted by [David Smith](#) on 24 Nov 2002, 6:34 p.m.,
in response to message #5 by db(martinez,california)*

I have found that alcohol has a tendency to cloud the display window. Also, I don't know if removing the bezel will help clean the window... I seem to remember it is a separate piece that is glued to the case, not the bezel.

Re: Removing 11C Faceplate

Message #7 Posted by [db\(martinez,california\)](#) on 24 Nov 2002, 10:18 p.m.,
in response to message #6 by David Smith

david; you are right. i was so buisy (almost) answering steve's question i forgot that i have a .59 cent 12c without a bezel. i just looked at it and steve; taking it off will not help you. it does not access the display. can you learn to live with the dust?

Re: Removing 11C Faceplate

Message #8 Posted by [Steve](#) on 25 Nov 2002, 12:20 p.m.,
in response to message #7 by db(martinez,california)

So you are saying that the window that looks like it's part of the bezel is really not, and that it's glued to the body of the calculator? From your response I'm guessing it may be close to impossible to remove it without damaging it. So, we're back to removing the PCB. Will that allow me to access the inside of the display window? What's the best way to reattach the PCB?

Steve

Re: Removing 11C Faceplate

Message #9 Posted by [Raymond Hellstern \(Germany\)](#) on 25 Nov 2002, 2:29 p.m.,
in response to message #8 by Steve

I made good experiences leaving the bottom row (the ones near the ON,f, g,STO,RCL,0,,,+ keys) of heat stakes intact. If you cut off the other rows of stakes, you can lever the PCB to a small but sufficient angle to air out the dust with some photo lens cleaner. But take note how the battery spring is held in place.

The display is tied to the PCB with two rows of clamps, so it comes out with the PCB. Try to avoid to touch the pink rubber contact rails. No need to remove the display here. After cleaning the display glass from dust, you can simply swing the PCB in place, set the battery spring, and close the case by fastening the screws.

This way you won't have a loose keyboard, which you would have if you removed all rows of stakes.

Hope this helps,

Raymond

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

ROT13 for HP41CX

Message #1 Posted by [oevna](#) on 24 Nov 2002, 1:55 a.m.

OK, who has the best ROT13 prgm on your HP41CX ?

Re: ROT13 for HP41CX

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 24 Nov 2002, 11:51 a.m.,
in response to message #1 by oevna

Hi;

forgive-me for asking a silly question... What would be this program for? I really do not know what ROT13 stands for. Is it related to root-finder for polynomials?

Thanks.

It's the Caesar Cipher

Message #3 Posted by [oevna](#) on 24 Nov 2002, 2:05 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

An HP48/49 version: [ROT13 for HP48/49](#).

Good scrambling all those less often used id's and passwords. But the program above does not scramble numbers. A HP41CX version with number scrambling would be great to have.

Re: It's the Caesar Cipher

Message #4 Posted by [Ernie Malaga](#) on 24 Nov 2002, 3:18 p.m.,
in response to message #3 by oevna

oevna:

The central idea in ROT13 is that the text should be encrypted OR decrypted by using the same algorithm, i.e., adding 13. In order to do the same with numbers, you'd have to use ROT5. In any case, ROT13 is a very weak encryption algorithm, too easy to break.

A few years ago I developed a variation of ROT13 which worked by inverting the status of all 8 bits in each character, so that an x'00' became an x'FF'. It mystified those that took a casual look at an encrypted file, simply because it looks like binary data, or hexadecimal gibberish.

The main subroutine's code follows. It's written in RPG IV (for IBM AS/400). I'd love to translate it to HP-41 lingo, but I haven't investigated the matter.

C	invert	BEGSR		
C		FOR	i = 1 TO 1600	
C		EVAL	char = %SUBST(\$\$text:i:1)	
C		TESTB	'0' char	10
C		TESTB	'1' char	11
C		TESTB	'2' char	12
C		TESTB	'3' char	13
C		TESTB	'4' char	14
C		TESTB	'5' char	15
C		TESTB	'6' char	16
C		TESTB	'7' char	17
C		EVAL	char = X'FF'	
C	10	BITOFF	'0' char	
C	11	BITOFF	'1' char	
C	12	BITOFF	'2' char	
C	13	BITOFF	'3' char	
C	14	BITOFF	'4' char	
C	15	BITOFF	'5' char	
C	16	BITOFF	'6' char	
C	17	BITOFF	'7' char	
C		EVAL	%SUBST(\$\$text:i:1) = char	
C		ENDFOR		
C		ENDSR		

Re: ROT13 for HP41CX

Message #5 Posted by [Ernie Malaga](#) on 24 Nov 2002, 3:05 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

Luiz:

ROT13 is an old encryption algorithm. It's called ROT13 because all the letters are rotated 13 positions for encrypting, and another 13 for decrypting.

For example, "LUIZ" becomes "YHVM" because L is the 12th letter of the alphabet, $12+13 = 25$, and the 25th letter is Y; U is the 21st letter, $21+13=34$, $34-26=8$, and the 8th letter is H; etc.

ROT13 was designed with a 26-letter alphabet in mind -- the alphabet used in the English language. Before using ROT13 you must ensure that there are no extraneous letters such as Ç or Ñ.

-Ernie

Re: ROT13 for HP41CX

Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 24 Nov 2002, 5:25 p.m.,
in response to message #5 by Ernie Malaga

Hi;

thank you, Ernie. Also, thank you, oevna (is that your name or you encrypted it with ROT13, BRIAN?). Taht's interesting, and I think that a bit of ALENG, ATOX and XTOA will lead to a good HP41 version of ROT13.

Cheers.

Reply error... wrong e-address?

Message #7 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 26 Nov 2002, 9:04 p.m.,
in response to message #6 by Vieira, Luiz C. (Brazil)

Hi, oevna;

I tried to reply your e-mail but I got a User Unknown error. I thought you ROT13'ed your e-address, but I used the sender's address as reply. Should I use ROT13 on it? Or, if you believe there is a system error, would you e-mail me again, please? I received yours and I could download all data without problems. I'd just like to understand why the reply did not work.

Thank you.

Re: ROT13 for HP41CX

Message #8 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 25 Nov 2002, 1:48 a.m.,
in response to message #1 by oevna

Hello, Brian (oevna?)

Try this:

```
LBL 01
RDN
ENTER^
GTO 02
LBL "ROT13"
ALENG
LBL 00
ATOX
64
X>Y?
GTO 01
CLX
91
X<Y?
GTO 01
CLX
13
+
91
X>Y?
GTO 02
CLX
26
-
ENTER^
LBL 02
RDN
XTOA
RDN
DSE X
GTO 00
AVIEW
END
```

That's the third time I write this post, so I'll be brief. Any ALPHA string will be converted, simply type it in and run ROT13. Characters out of the A...Z range will be kept unchanged. I firstly wrote a complete post and lost it, sorry (it's 4:37 AM and I am almost sleeping as I write... Sorry).

I tried the site you mentioned, but my version of AcrobatReader (5) installed without any plugin and I could neither read it nor download it. The site is library.hp41, org type, subdir files, PPC, PPCmanual, and the file name is p084.pdf. I tried posting the complete name, but the museum's site did not allow me to.

Would you send me the p084.pdf file so I can read it? Do I deserve it? I decoded the address (using mine ROT13), didn't I?

Cheers!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Hp 42s Equation problem

Message #1 Posted by [Reston](#) on 24 Nov 2002, 12:11 a.m.

Hi all

I'm not sure this is right forum for this question, But here goes. I'm having a problem programming my 42s with an equation. It keeps looping round and round. If I do the calculation manually it works perfectly. Can anyone help?

This is what i have tried

```
00 lbl CV 01 mvar R "R" = radius of curvature 02 mvar B "B" = Radius of the contact ball 03 mvar Y "Y" = Radius of the Spherometer 04 rcl R 05 enter 06 rcl B 07 + 08 ^2 09 rcl Y 10 ^2 11 - 12 sqrt 13 sto A 14 rcl R 15 enter 16 rcl B 17 + 18 rcl A 19 - 20 end
```

In case anyone is wondering. A Spherometer is a measuring devise for the fabrication of laser optics. It has three precision bearing ("B") at a fixed diameter (two times the "Y" dimension)"R" is the radius of curvature

If the equation works correctly you would input 416.95" for the radius Input .25" for the "B" Input 5.5 for "Y" and the answer should be .036260

Thanks for any suggestions

Reston

Re: Hp 42s Equation problem

Message #2 Posted by [Randy Sloyer](#) on 24 Nov 2002, 9:17 a.m.,
in response to message #1 by Reston

I'm not sure I understand your program. Is this to used with solver? I assume so because of MVAR statements and there is no VARMENU to go with the MVAR. If that is case, then you are missing the forth term. If is not a solver program, then I'm not sure why it's structured this way.

Is this actual equation?:

$$(R+B) - \text{sqrt}((R+B)^2 - Y^2)$$

If you are using it as a solver program, the result in the x reg must reach zero at some point, otherwise it keeps searching, hence the "looping".

Re: Hp 42s Equation problem

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 24 Nov 2002, 11:59 a.m.,
in response to message #2 by Randy Sloyer

Hi, Randy;

my previous post was a bit confused, so I rewrote it.

In fact, the program does not need VARMENU to run with SOLVER; VARMENU is needed only if you want to build a variables' menu.

Reston, you can run the program with SOLVER the way it is, no changes. SOLVER will show the three variables in a menu and wait till you command a root finding. The problem is that there is no output variable declared, say, there is no place to store the answer. Besides, your program simply computes an answer that is supposed to be not equal zero, it was not written to be a root-finder program. That's why it runs forever: no input value will lead to a "0" (zero) at the end of the program.

Hope it helps.

Cheers.

Re: Hp 42s Equation problem

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 24 Nov 2002, 9:28 a.m.,
in response to message #1 by Reston

Hi;

Your listing is ready to run with the SOLVER, but it has a few needings to run from the keyboard. You need entry points, unless you store data manually, say:

```
416.95 [STO] [R]
.25    [STO] [B]
5.5    [STO] [Y]
        [R/S] or [XEQ] [CV]
```

and the display would read 0.036260.

To use your program the way it is AND add menu functionality, change it for the listing below:

```
01 LBL CV
02 MVAR "R"
03 MVAR "B"
04 MVAR "Y"
05 VARMENU CV
06 STOP
07 RCL "R"
08 RCL "B"
09 +
10 x^2
11 RCL "Y"
12 x^2
13 -
14 SQRT
15 RCL "R"
16 RCL "B"
17 +
18 x<>y
19 -
20 END
```

When you execute it, you'll see a menu with your variables R, B and Y. Simply type in each of the values you mentioned and press the equivalent menu key for each of them (the menu key is the one right below each menu label; do not press [STO] key, you don't need it now). After you

type and save each value, press [R/S]. 0.0363 (result rounded to four decimal places) will appear in the display. That's what I read on mine.

If you need further details, post again.

Success.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

BRYAN TORKOWSKI(SP?)

Message #1 Posted by [BOB ALLISON JR](#) on 24 Nov 2002, 12:02 a.m.

IN SEARCH OFBRYAN TORKOWSKI (SP?) HE WAS WITH The Thornton-Tomasetti Group Inc.
Graduate of Texas A & M Member Of The Corp Of Cadets If you are aware of his contact point,
please refer him to e-mail me. THANK YOU. -- BA

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Emu42 class registration failed

Message #1 Posted by [Erik Ehrling \(Sweden\)](#) on 23 Nov 2002, 1:58 p.m.

Hi all!

I have now, finally, got hold of a copy of Visual Studio and I am trying to compile the alpha version of Emu42 that was posted at this forum by Christoph Giesselink a few weeks ago. However, although it all compiles fine it exits at one of the very first lines of the code when it (I guess) tries to register the main window - and returns with the message: "CEMu42 class registration failed"

I know a fair bit of C/C++ but very little of specific windows programming so any hints of what can be wrong would be highly appreciated!?

Christoph says in his posting that "with additional work it will be possible to use the MinGW package for it" - any clues of what kind of work he is suggesting?

Best regards, Erik Ehrling

(Please remove NOSPAM from my email address if you answer by email!)

Same thing with Emu48 (Re: Emu42 class registration failed)

Message #2 Posted by [Erik Ehrling \(Sweden\)](#) on 24 Nov 2002, 4:01 a.m.,
in response to message #1 by Erik Ehrling (Sweden)

I guess that I am doing something fundamentally wrong... the same thing happens when I try to build Emu48 from the source code ("CEmu48 class registration failed")...

Anyone that has successfully built Emu48 from the source code? What am I doing wrong?

Re: Emu42 class registration failed

Message #3 Posted by [Christoph Giesselink](#) on 24 Nov 2002, 4:29 p.m.,
in response to message #1 by Erik Ehrling (Sweden)

Hello Eric,

I compiled Emu48 with MSCV++ v5.0 (SP3), v6.0 and .net (v7.0) without problems. The official binary distribution is compiled with v6.0 SP1. Some development I done with v6.0 SP5. The SP of the compiler doesn't matter.

I created Emu42 under v5.0 and v6.0 without problems. To your question about MinGW. The "additinal work" is a new makefile, a modified Emu42.rc file, and a modified PCH.H file for the workarounds. For Emu48 I'm doing the additional work, the MinGW additional files can be found on my Emu48 homepage. The biggest problem of the MinGW compiler package is the resource compiler "windres". It's not "hust, arrgh" --- up to date.

Cheers

Christoph

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Einstein, Newton and others...

Message #1 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 23 Nov 2002, 1:07 a.m.

Hi;

I remember when I bought my HP15C that I was given a t-shirt with a Newton's caricature drawing (he was holding a paper-made plane). I know others were drawn, as Einstein and Da Vinci. I remember I begged for an Einstein's poster, with an HP71B photo attached, at one of the Hewlett-Packard's office, but my request was denied.

Does anybody know where I can find these images to download? Or, in a particular case, would anyone that have these posters scan them and send the images to my e-mail address? I know they are big, and one single scan will not be enough, so I'll expect parts of them to build the final image.

Thanks in advance.

Best regards.

Re: Einstein, Newton and others...

Message #2 Posted by [db\(martinez,california\)](#) on 23 Nov 2002, 2:13 a.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

luiz; you gave me a thought. can you picture einstein, newton, archimedes, gauss, descartes, galileo or leibniz using a casio (or a new hp) if your old 15 was lying around? hell, i don't even want to do arithmetic without rpn. i realize these guys did a lot of their work in the abstract world but still....

Re: Einstein, Newton and others...

Message #3 Posted by [Glen Kilpatrick](#) on 23 Nov 2002, 7:39 a.m.,
in response to message #2 by db(martinez,california)

My impression was that it was math in an all-too-real world. The word "calculator" used to refer to an *occupation* (I'll bet it was better than being a miner or a sailor in those days), must have been mind-numbing, but at least not physically dangerous. And what we do in seconds took them months. Praise Bill & Dave :).

Re: Einstein, Newton and others...

Message #4 Posted by [Guillermo Castarés](#) on 25 Nov 2002, 9:05 a.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

When we (my brother and I) bought our HP-41CX, we got an Einstein Poster. We mounted it and it put it in our student's room. I have it in very good condition. You can see it in my home page: <http://ar.geocities.com/casta1967/calculadoras/> and better: <http://ar.geocities.com/casta1967/calculadoras/memoria/index.htm>

I plan to take a new photo of it (too large for scan), with better quality as soon as possible.

Regards

Re: Einstein, Newton and others...

Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 25 Nov 2002, 12:24 p.m.,
in response to message #4 by Guillermo Castarés

Ola, Guilherme;

gracias; this is what I was talking about. If I am not wrong, there is one poster like this with an image (photo) of an HP71B attached to it.

If you are going to shoot it again, please, let me know. I'd like to have a copy, if you don't mind...

Gracias otra vez.

Regards form Brazil.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

82161A Mini cassettes

Message #1 Posted by [Diego Diaz](#) on 22 Nov 2002, 11:17 a.m.

Hi,

As all of you 41'ers probably know, such scarcity item are really difficult to find (even impossible if you don't have an oversized budget)... the last 3 I saw on e-bay were offered at \$25 each (no sale).

I've got 4 non working of'em and would like to know if anybody has found a suitable magnetic tape to rewind it.

I've found out that the shell is fairly easy to open without severe damage, though this is no allways needed to "refill" it with new tape, unless the original tape has been broken inside. Apart from that the rest of the task is simple: cut a 24m long magnetic tape, make two centered and small (<1mm) holes 20cm away from both ends, and join the ends to the leading celluloid tape with standard (prefferably thin) adhesive tape. That's the theory...

The question at this poit is: Which brand-model cassette type is suitable for managing the magnetic density grade required by the 82161A's read/write heads?

I'll start testing this weekend and will tell the results in here... Unless some of you has already found a good answer and share this info with me/us.

Again thanks, and have a very nice weekend!

Re: 82161A Mini cassettes

Message #2 Posted by [David Smith](#) on 22 Nov 2002, 5:48 p.m.,
in response to message #1 by Diego Diaz

I rebuilt some with some tape from some surplus tape cartridges that looked a lot like DC100's. They were not marked with any recognizable markings. I would try using some of the lowest density data tapes I could find with a matching tape width. More modern tapes use a harder to magnetize media. I have also heard of success using mini-audio cassettes but have not tried them.

Re: 82161A Mini cassettes

Message #3 Posted by [Tony Duell \(UK\)](#) on 22 Nov 2002, 6:45 p.m.,
in response to message #1 by Diego Diaz

Most of the time the problem with these cassettes is not the tape, it's the pressure pad. This consists of a layer of felt on top of a foam pad, and the foam decays with time. I wrote an article on repairing this fault (and other faults I'd found with the cassettes) for Datafile (HPCC club journal). I'd be happy to e-mail the LaTeX file for this article to you, or upload it to a suitable site. As regards a source of tape, it's the same width as normal compact cassette tape (a normal audio cassette splicer is ideal for rejoining the tape to the leader in the 82176 cassettes). What about trying the tape from some of those digital cassettes that were used about 10 years ago?

Re: 82161A Mini cassettes

Message #4 Posted by [Diego Diaz](#) on 23 Nov 2002, 10:16 a.m.,
in response to message #3 by Tony Duell (UK)

Hello,

Thanks a lot David and Tony for your comments/suggestions. BTW Tony, it'll be very interesting to read your previous experiences and comments about the issue, pls e-mail me when you can.

As I promised, here comes the results of my "Tape experiments":

Regarding the length of the tape, I used my audio tape recorder timer to count the 8min 44sec. needed for the task. This is the result of calculating how much time a standar tape recorder needs to run 24'384m (80feet) between the holes, plus 2 x 25cm extra tape to reach the leaders at both ends.

I've also wound the old defective HP tape into a standard audio tape shell... and of course played it!! The saturation is farily high >+8dB!! (I'm sure that my neibourghs' son is still

wondering where the hell have I got this amazing new beat!!!! ;-)

Then conected an oscilloscope to the phones output and took a look... It's a 1'85Khz. (approx.) carrier with phase/amplitude modulation, as stated in the 82161 manual, separated in brusts and silences of 1'16s/0'6s ratio (approx.).

Translating this into 82161's read/write speed of 9inches (22'86cm) it results in a 8'9KHz (approx.) carrier. Those are "approx." due to the 82161's constant ANGULAR speed while standard audio tapes runs at 4'75cm. constant LINEAR speed.

I decided to made my first attempt with a CrO2 TDK tape as I assumed a standard FeOxide tape would have some difficulties in handling the required saturation level and Metal tapes trend to be highly abbrasive.

Cuttet the tape, made the holes in their corresponding places with a 0'8mm drill bit, taped the leaders, wound it back into the HP Mini Cassette shell and insert it into the drive.

NEWM 256.... and... IT WORKS!!!!!!!!!!!! ;)

Some WRTP's, DIR's and READP's to make a first reliability test and everything seems to be OK.

Hope this help someone to recover his/her old (and unusable up to now) Mini Cassettes.

Thanks again and bye for now.

Re: 82161A Mini cassettes

*Message #5 Posted by [Tony Duell \(UK\)](#) on 23 Nov 2002, 2:13 p.m.,
in response to message #4 by Diego Diaz*

I've just sent you the article by private e-mail. Feel free to post it on a web site etc. Thanks for the info on using normal CrO₂ tape in these cassettes. If I ever get a cassette with damaged tape I'll give it a go. I wonder if the tape hubs could be made from the ones in mini- or micro-cassettes? If so, then you could make up some 'tapes' using such hubs and audio cassette tape, and then load them into an HP cassette shell, and then read/write them in the 82161. This would not be very convenient, but it would be better than having no tapes at all.

Re: 82161A Mini cassettes

*Message #6 Posted by [Diego Diaz](#) on 23 Nov 2002, 3:16 p.m.,
in response to message #5 by Tony Duell (UK)*

I've just received and read your article Tony, a good job I must say, and plenty of ideas to fix the cassettes. Really useful.

I'm of course trying to get an 9114 Disk Drive, but they're also quite scarce... I'll keep on seeking.

Regarding the question about using commercial micro-cas hubs I can tell you that it is not possible as the holes (whit the six inner pins) is much wider then the ones in the HP 82176 so they wouldn't even engage in the drive.

Thanks and regards from the Canary Islands.

P.S. Please excuse me for my grammar "crimes" :-)

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

emu48 on pocket pc

Message #1 Posted by [axel](#) on 22 Nov 2002, 10:21 a.m.

Has somebody in this forum any experience in running the WindowsCE-version of the Emu48 emulator?(<http://nt.marin.esc.edu.ar/jpla/emu48ce/emu48ce.html>)

I am going to buy an PDA (preferably HP Jornada 565) but would be sure the emulator runs safely.

Thanks for any advise, Axel.

Re: emu48 on pocket pc

Message #2 Posted by [J.Manrique](#) on 22 Nov 2002, 11:05 a.m.,
in response to message #1 by axel

Hello,

Try this:

<http://web.jet.es/leobueno/emu48.htm>

Best regards,

J.Manrique

Re: emu48 on pocket pc

Message #3 Posted by [axel](#) on 23 Nov 2002, 3:55 a.m.,
in response to message #2 by J.Manrique

Thank you for the link. I have some hope that the emulator will work on my new Jornada :-)

Re: emu48 on pocket pc

Message #4 Posted by [Chris Randle \(UK\)](#) on 24 Nov 2002, 7:13 a.m.,
in response to message #3 by axel

I'm using it on a J568. It works a treat, if only to remind you why we still need calculators. The lack of tactile feedback and the smaller (calc) screen made the experience far less satisfying that I had been expecting.

The one thing I never got working was plug in RAM cards using files on the PocketPC.

Re: emu48 on pocket pc

Message #5 Posted by [axel](#) on 24 Nov 2002, 4:40 p.m.,
in response to message #4 by Chris Randle (UK)

Of course - if you really like your calculator than the PDA emulator is probably only a weak substitue... But if you have your pocket PC anyway its a nice application to have on it.

This happens with all those gadgets: mobile phone + game boy + camera + gps etc, they try to put it all in one little casket, and nothing really works great because its nearly impossible to use one user interface for all apps - I doubt if this will be the future. But - may be, that's what the mainstream wants (?)

So long axel (Germany)

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-IL + 82143A Printer.

Message #1 Posted by [Diego Diaz](#) on 22 Nov 2002, 8:18 a.m.

Hi everybody!

Is there any known uncompatibility between them?

I've tried to plug an HP-IL 82161A Cassete + 82143A Printer to my old '41C and it hangs. Also tried with my NIB 41CX (200Euros on e-bay... I'm not the guy that burnt \$639!! -Ouch!! :-)

If someone can flood some info over that issue I'll be very happy.

Thanks and greetings from the Canary Islands.

Re: HP-IL + 82143A Printer.

Message #2 Posted by [Philip](#) on 22 Nov 2002, 9:11 a.m.,
in response to message #1 by Diego Diaz

Have you set the disable switch the IL adapter? This switch must be set to disable when you have both IL module and 82143 printer. The 41 thinks the printer should be on the IL Loop but it's not since it is directly connected.

Re: HP-IL + 82143A Printer.

*Message #3 Posted by [Diego Diaz](#) on 22 Nov 2002, 10:48 a.m.,
in response to message #2 by Philip*

Ooooppppsss!!!

I will pay more attention while reading manuals next time, promised.

Thank you very much.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

CAS bug?

Message #1 Posted by [mapet](#) on 22 Nov 2002, 6:39 a.m.

Tan(x)integral from 0 to oo crashes my HP 40G. How about Hp 49G ?

Re: CAS bug?

Message #2 Posted by [Tom Sherman \(Maine\)](#) on 22 Nov 2002, 9:31 a.m.,
in response to message #1 by mapet

I am crashing too!! What can the integral of sin, cos, or tan be, when integrated to infinity?
Maybe Lewis Carroll could tell me.

Re: CAS bug?

Message #3 Posted by [axel](#) on 22 Nov 2002, 10:05 a.m.,
in response to message #2 by Tom Sherman (Maine)

Integral of Tan(x) is $-\ln(\cos(x))$ which has a singularity at $x=\pi/2$ (and $3/2\pi$, $5/2\pi$ etc). So the integral from 0 to $x=\pi/2$ would be oo. Although, you can calculate the Cauchy principal value (limit for $x \rightarrow \pi/2$) of the integral from 0 to π , which is 0. Hopefully not too confusing explained...

Greetings from Jena, Germany

Re: CAS bug?

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 22 Nov 2002, 11:06 a.m.,
in response to message #3 by axel

Hi;

would this singularity raise to oo if $\text{PI}/2$ is not exact? Is the exact-mode flag set? What about trying in Approximate mode?

I did not try it, but I thought I could suggest it.

Regards from Brazil.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-12c double entries?

Message #1 Posted by [JackStafford](#) on 22 Nov 2002, 1:25 a.m.

My HP-12c sometimes creates double entrys when I press the 6 and 4 keys. The problem seems to be occuring at an increasing rate. Is this a common problem? Is there a fix or maybe keyboard cleaning I could do?

Thanks

Jack

Re: HP-12c double entries?

Message #2 Posted by [Nick](#) on 22 Nov 2002, 1:30 a.m.,
in response to message #1 by JackStafford

My first suggestion is to check the batteries.

Re: HP-12c double entries?

Message #3 Posted by [Tom Sherman](#) on 22 Nov 2002, 8:25 a.m.,
in response to message #1 by JackStafford

Jack,

I think this is probably a common problem among recent 12C's. I returned two Chinese units to Staples before getting one that had proper key action, and I returned a Malaysian unit to WalMart before getting a good one. The problems were in various keys, numbers and functions.

Maybe someone can suggest a fix. I hope so.

Tom

Re: HP-12c double entries? - A suggestion

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 22 Nov 2002, 11:22 a.m.,
in response to message #3 by Tom Sherman*

Hi;

I faced this sort of problem in many new and earlier HP's, mostly those used in severe environment (open field, dusty atmosphere, etc.).

Each key has it's own contact-plate, and under this plate there is a small, metal-covered hole. This is the way dust gets in, and also the way we pull it out.

I'm gonna try to find the original posts (it's gonna be a bit hard, but...) where a description is made. Anyway, I'll try to describe it my way; please, correct me if I use incorrect terms.

Open the calculator (four screws, each one under each rubber feet) and locate the hole for the repeating key. Allow a small amount of micro-oil (WD 40, White Lub or any better product) to get inside the hole under the key. Thin (very thin) metal wire can be carefully inserted in these holes while the key is released. After that, gently press the key and pull the thin wire out slowly, as you release and press the key again. This will remove any sort of dust.

I myself prefer the painting brush's coats (Gee, is this correct?). It cleans the same way and does not smear the conductive metal.

If it is too much confusing, Ill try to explain in another way.

Cheers.

Re: HP-12c double entries?

*Message #5 Posted by [Jack Stafford](#) on 24 Nov 2002, 2:02 a.m.,
in response to message #1 by JackStafford*

Thanks everyone,

I'll start with new batteries (the batteries are about 15 years old) and then the wire thingy, and report results back.

:) Jack

Re: HP-12c double entries? - Please, read!

Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 24 Nov 2002, 9:33 a.m.,
in response to message #5 by Jack Stafford

Hi;

I forgot to mention one very important thin about opening the calculator.

Upper and lower halves of the calculator's case have aluminum bezels, and these bezels compose an ESD protection. This ESD protection work only when electrical field is null inside the calculator, what is accomplished when these bezels have the same electrical potential, i.e., they must be electrically connected with each other.

Two tinny, small, little springs inside the calculator's case do this job. When you remove the screws and open the case, **do not turn keyboard's half upside down** before removing these tiny little springs. One is located closer to the batteries compartment and the other is in the middle of the keyboard, right side. Remove them carefully and place them in a safe place, so you can put them back when locking the calculator's case again. Note that one of the springs, the one closer to the batteries compartment, is a bit bigger than the other.

Success.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

A Dead 82161A Digital Cassette Drive

Message #1 Posted by [Silvio de Morais](#) on 22 Nov 2002, 12:30 a.m.

Hi all,

I just got a Digital Cassette Drive, and I can't put it to work. Hardware I'm using: 41CV and 41CX HPIL module AC Adapter 82059B 1 fully charged battery 82033A 1 discharged battery 82033A

My tests and results: Case 1: Fully charged battery + AC Adapter. No LEDs are on, "Transmission Error" on DIR Case 2: Discharged battery + AC Adapter. No LEDs are on, "Transmission Error" on DIR. Case 3: Fully charged battery only. No LEDs are on, "Transmission Error" on DIR. Case 4: AC Adapter only. BAT LEDs is on, "Transmission Error" on DIR

I tried with both calculators, and had the same results. The HPIL interface is working because I can use it to control a 82162A Printer with no error. Any ideas? Can anyone fix it (preferably in US)?

Thanks a lot,

Silvio

Re: A Dead 82161A Digital Cassette Drive

Message #2 Posted by [Tony Duell \(UK\)](#) on 22 Nov 2002, 6:48 p.m.,

in response to message #1 by Silvio de Morais

The fact that the power LED never comes on suggests to me that the +5V power supply rail is missing. This would also account for the TRANSMIT ERR message, since the HPIL interface chip isn't being powered. If you have electronics experience, I can tell you what to test inside the drive. It is most likely to be a fairly simple repair. Alas I'm in the UK or I'd offer to take a look at it for you.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP41CX

Message #1 Posted by [Brendan Hardy](#) on 21 Nov 2002, 6:24 p.m.

I have a HP41CX in pretty good condition. I have used it for perhaps 15 years as a backup marine navigation calculator using the HP NavPac.

The copper foil battery contacts have become worn and are beginning to short out causing the LCD display to fade in and out. Is there anyway to fix the foil contacts? Is there a way to replace them without destroying another calculator?

Thanks,

Brendan

Re: HP41CX

Message #2 Posted by [Dave Mabry](#) on 21 Nov 2002, 8:15 p.m.,
in response to message #1 by Brendan Hardy

This has been discussed in the past by a few of us. I'll just point you to one of my previous posts about it.

[Post on repairing battery contacts.](#)

Re: HP41CX

*Message #3 Posted by [andy](#) on 21 Nov 2002, 10:26 p.m.,
in response to message #2 by Dave Mabry*

As an alternative to the technique given in the previous post, I've used adhesive-backed copper tape without soldering. My old 41cx (which had some corrosion too) has been working fine ever since. The a special copper tape with electrically conductive adhesive backing (made by Chomerics...we use it for EMI testing).

If you would like, email me your address and I'll send a few strips of it in the mail to you. Its 1" wide and you can easily cut it with sissors to fit. Then just peal off the backing and stick it in place.

Make sure you don't use aluminum tape since it could cause bi-metallic corrosion.

Andy

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

71b eprom

Message #1 Posted by [Andy](#) on 21 Nov 2002, 11:00 a.m.

There's a 64K eprom module for the 71b on ebay: <http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1940557449>

I have an eprom burner. Does anyone know anything about this eprom module. Would it be reasonably easy to write programs for it on a PC and burn them into it?

Andy

Re: 71b eprom

Message #2 Posted by [Emmpanuel, France](#) on 21 Nov 2002, 12:29 p.m.,
in response to message #1 by Andy

Dear Andy,

I don't think so.

It's a CMT Eprom module and it needs a special Eprom Burner, may be an IL one.

With yours you could burn 2764, 27128 or 27256 for HHP 32K Eprom module (w/ or w/o RAM). You just need two LEX files ROMCOPY and MKROMLEX) and a BASIC program 'MAKEROM', HP-IL module and RS232c interface or HP-IL/PC card with Linkplus software.

Yours. Regards from Normandy.

Re: 71b eprom

*Message #3 Posted by [Andy](#) on 21 Nov 2002, 3:01 p.m.,
in response to message #2 by Emmmanuel, France*

Do you know if burning eproms is mentioned in the IDS?

Andy

Re: 71b eprom

*Message #4 Posted by [Emmanuel, France](#) on 21 Nov 2002, 3:09 p.m.,
in response to message #3 by Andy*

Dear Andy,
Are you talking about Internal Design Specifications.
If yes, the answer would be no.
I know how HHP 32K Eprom modules are working.
Yours. Regards from Evreux.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP9826 documents

Message #1 Posted by [Andreas Dziesiaty](#) on 21 Nov 2002, 7:34 a.m.

I'm an owner of HP9826 and HP9836 computers and in search of any technical documentation about these systems, especially schematics and hardware descriptions. I'm still missing a memory extension board for the HP9826 (should be compatible with any HP9000-200). Does anybody know some source of information? Can you help me?

Best Regards, Andreas

memory parts for 200 series

Message #2 Posted by [glynn](#) on 22 Nov 2002, 1:17 a.m.,
in response to message #1 by Andreas Dziesiaty

The memory boards you will be looking for are the 98256a (256K each) and the 98257a (1M each). Only 2.5M max will fit onto the 9826.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

1982 Commemorative Calendar

Message #1 Posted by [Bob Nelson](#) on 20 Nov 2002, 10:37 p.m.

I was extremely into HP-41 calculators in the 1980's. Recent acquisitions on Ebay have allowed me to fix my very early serial number 41CV with new battery connections and renew some of the pleasure that I found using these calculators before. I have a very large format 18" x 16" 1982 commemorative HP calculator calendar. It represented the ten year anniversary of the first scientific calculator, the HP-35. I was curious as to whether others also had this calendar. The large, colorful drawings showing the various calculators being used on the shuttle, at the America's Cup and Climbing Everest, etc., seem like something this site should have scanned for others to enjoy.

Re: 1982 Commemorative Calendar

Message #2 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 21 Nov 2002, 7:35 a.m.,
in response to message #1 by Bob Nelson

I had it (I paid for it!), and I suppose I may find it at my parents house, but have been unable to find it yet.

Re: 1982 Commemorative Calendar

Message #3 Posted by [gifron](#) on 21 Nov 2002, 1:45 p.m.,
in response to message #2 by Andrés C. Rodríguez (Argentina)

Your parents threw it out ;^) Well, hopefully not!

Re: 1982 Commemorative Calendar

Message #4 Posted by [Philip](#) on 21 Nov 2002, 2:57 p.m.,
in response to message #1 by Bob Nelson

Are you able to scan it and make it available to this site? I'm we'd all love to see it.

Re: 1982 Commemorative Calendar

*Message #5 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 21 Nov 2002, 4:36 p.m.,
in response to message #4 by Philip*

While I think it is still at my parents house, I am not sure it will be easy to find. Even so, it is too large to scan; and I should be sure there are no copyright problems before scanning... Let's see if I can find it...

Re: 1982 Commemorative Calendar

*Message #6 Posted by [Y K Wong \(Singapore\)](#) on 22 Nov 2002, 2:46 a.m.,
in response to message #5 by Andrés C. Rodríguez (Argentina)*

Hi Andrés,

Sure hope that you can find it, what about Bob? If the poster is really too big for the scanner, perhaps you should take a "digital" picture of it :-)

Regards,

Y K Wong.

Re: 1982 Commemorative Calendar

*Message #7 Posted by [Chris\(Fla\)](#) on 22 Nov 2002, 7:13 a.m.,
in response to message #6 by Y K Wong (Singapore)*

Looking at upcoming calendar years it looks like this calendar will be in sync again for the years:

2010

2021

etc.

Chris

Re: 1982 Commemorative Calendar

Message #8 Posted by [Gordon Dyer](#) on 22 Nov 2002, 7:48 p.m.,
in response to message #1 by Bob Nelson

Hi Bob, please try to get it scanned or a digital photo taken with high resolution and post it here. I am sure lots of us would love to see it.
Gordon.

Re: 1982 Commemorative Calendar

Message #9 Posted by [Tony Copley](#) on 30 Nov 2002, 10:09 p.m.,
in response to message #8 by Gordon Dyer

After reading this tread, I dug up my calendar, which was obtained on eBay for \$16.00. I wanted to scan it but it is too large. A graphics shop had the proper equipment but wanted too much for the job. Anyway, I took some (poor) digital photos of the item. Unfortunately, I fought with FrontPage 2002's photo gallery for the last week. I figured this would be an hour's project, right! To make this work, I had to list it in two pages: http://www.likeaclown.com/calendar1_6.htm and http://www.likeaclown.com/calendar7_12.htm. It's better than nothing.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Another eBay Record ?

Message #1 Posted by [Randy Sloyer \(US\)](#) on 20 Nov 2002, 7:05 p.m.

Not that anybody cares anymore, but would \$632.75 make anyone here sit up and take notice for a NIB 41CX?

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&category=11713&item=1396547503&rd=1>

Simply amazing...

Re: Another eBay Record ?

Message #2 Posted by [Philip](#) on 20 Nov 2002, 8:39 p.m.,
in response to message #1 by Randy Sloyer (US)

Could either be a newcomer based on low feedback but it does seem suspicious that the sellers ID is a month and so is the buyer. Strange?

Re: Another eBay Record ?

Message #3 Posted by [Silvio de Moraes](#) on 21 Nov 2002, 12:07 a.m.,
in response to message #2 by Philip

The seller is not new to e-Bay. I bought one of his 41CXs last month for \$198, and it was in mint condition, NIB. All buyers, however, are relatively new accounts; maybe this is the reason for this highly inflated price. It is possible that NIB 41CXs may get to such prices, but not in this decade.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Factorials of Large Numbers

Message #1 Posted by [Gordon Dyer](#) on 20 Nov 2002, 5:41 p.m.

I posted an HP-11C/41C program in the Software Library (it's now the first entry) and asked for feedback from anyone who has a real use for this...where $n! \geq 1E100$

Any one got any news for me?

(And for those smart guys with HP-71 or newer calcs with number range up to $1E500$, same applies to you but for $\geq 1E500$!)

Gordon.

Re: Factorials of Large Numbers

Message #2 Posted by [Bill Wiese](#) on 25 Nov 2002, 10:05 p.m.,
in response to message #1 by Gordon Dyer

Hi...

Whoa, this brings back memories of a 'wasted' summer in high school (1980?) tinkering with my ol' TI58! (Didn't get my 41C til Christmas in my senior year - and then fooling w/system architecture/SP/ byte jumping etc took over...)

Wrote various "big factorial" programs, including $\log(n!)$ programs and approximations.

Stirling's Approx. works progressively better for larger and larger values of n , but has to be 'warped' for moderately useful performance for, say, $n < 69$.

$n! \sim \sqrt{2\pi n} * (n/e)^n$ and $\log(n!) \sim 0.5\log(2\pi n) + n\log(n/e)$

Anyway I still remember that $10,000! \sim 2.645 \times 10^{35659}$ and $1,000! \sim n.nnn \times 10^{2567}$ $100! \sim 9.332 \times 10^{157}...$

Nifty little thing: Number of trailing zeros of $n!$: Trailing zero = multiple of 10. We have an excess of factors of two in a factorial (after all, every other number is even!) so every term in

factorial that has a 5 or power thereof determines a trailing zero.

Thus:

$\text{int}(n/5) + \text{int}(n/25) + \text{int}(n/125) + \text{int}(n/625) + \text{int}(n/5^5) \dots$

gives us number of trailing zeros in $n!$. 1000! has, IIRC, 249 trailing zeros and 10,000! has 2499 trailing zeros.

Factorials are neat. Remember finding out about companion gamma function (I *knew* there must be something continuous over $n \geq 0$ for something factorial-like.)

That was a fun summer...

Bill Wiese San Jose, CA

Re: Factorials of Large Numbers

*Message #3 Posted by [Gordon Dyer](#) on 7 Dec 2002, 12:43 p.m.,
in response to message #2 by Bill Wiese*

Hi Bill, I'm glad you enjoyed my message.

Did you try the program?

I was beginning to think that no one was interested!

Perhaps I should ask for the prog to be posted in the HP-41 software section and more people would look at it.

Best Wishes.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Followup: Regarding 9114a disc drive

Message #1 Posted by [Alain \(Canada\)](#) on 19 Nov 2002, 7:16 p.m.

I posted a question in this forum on 28 Oct 2002 regarding a HP9114a unit I had just received. With your help I found out that I had the right power supply. Unfortunately, the battery was apparently dead because the fault light was on. So, after a little research, I found that in my location "Interstate Batteries" had an equivalent replacement battery for around 25 \$Cdn. I received and install the unit and everything now works fine !

Thanks for your help !

Alain

Re: Followup: Regarding 9114a disc drive

Message #2 Posted by [Tom Sherman \(Maine\)](#) on 19 Nov 2002, 9:42 p.m.,
in response to message #1 by Alain (Canada)

Alain,

Do you have the Interstate Batteries part number for the battery that you used?

Thanks so much, Tom

Re: Followup: Regarding 9114a disc drive

*Message #3 Posted by [Alain \(Canada\)](#) on 20 Nov 2002, 6:38 a.m.,
in response to message #2 by Tom Sherman (Maine)*

Tom,

the Interstate part number is : Part# SLA0902 (6V 2.8 Ah SLA - Sealed Lead Acid)

url : http://www.ibsa.com/estore/view_product_detail.asp?category%5Fid=398966&part%5Fnumber=SLA0902&mscssid=0UN7SCCMWT1J8KGPJKL1XSNWPQRVCWUF&js=1

but the price on the WEB site seems to be higher that at the retail store.

Regards, Alain

Many thanks!

*Message #4 Posted by [Tom Sherman \(Maine\)](#) on 20 Nov 2002, 7:47 a.m.,
in response to message #3 by Alain (Canada)*

Alain,

Thanks so much for the information, and regards from just across the border,

Tom

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 42s Machine Reset Problem

Message #1 Posted by [Shawn](#) on 19 Nov 2002, 6:37 p.m.

I have HP42s calc., I use it every day. But today when turned on Machine Reset appears while continual beeping. Then it stops. I attempt to use and again interrupted by a machine reset display. The first one cleared all my progs, so i've tried clearing all memory and restarting and running a self check, no success same prob. I have not replaced batteries, but there is no Low Battery indicator on. Any suggestions would be appreciated. Thnx Shawn Tunnel3@aol.com

Re: HP 42s Machine Reset Problem

Message #2 Posted by [Randy Sloyer](#) on 19 Nov 2002, 8:55 p.m.,
in response to message #1 by Shawn

My experience has shown the Low Battery indicator to be an unreliable indicator of battery condition under normal operation.

Try enabling the IR printer port and sending the stack to printer. If the batteries are low, it will indicate "Batt Too Low To Print" and disable the printing as the IR port uses considerably more battery current than normal operation. This is a more reliable test of battery condition, but not a guarantee.

Replace the batteries if you have no means to measure the voltage.

Re: HP 42s Machine Reset Problem

*Message #3 Posted by [Menno](#) on 22 Nov 2002, 1:28 a.m.,
in response to message #2 by Randy Sloyer*

The HP42 can even start beeping suddenly (in the middle of the night) to indicate that the batt is low.

Fresh batt and the problem was over.....

Menno

Re: HP 42s Machine Reset Problem

*Message #4 Posted by [Shawn](#) on 24 Nov 2002, 6:45 p.m.,
in response to message #3 by Menno*

I've replaced the batteries, no effect

Re: HP 42s Machine Reset Problem

*Message #5 Posted by [Randy Sloyer](#) on 25 Nov 2002, 6:26 p.m.,
in response to message #4 by Shawn*

Well, what we now have is the classic 42S owners nightmare. There are several possibilities, none of them good. In decreasing order of possibility:

1. Foreign gunk (soda, coffee, etc) inside the unit or keyboard. Repairable.
2. The 8K RAM is bad. Repairable.
3. A failed solder connection somewhere in the machine. Repairable.
4. The CPU is shot. A very bad thing, not repairable.

I don't think there is anything else that can be done without opening it up. Anybody else care to weigh in on this one? I'm open to suggestions.

Re: HP 42s Machine Reset Problem

Message #6 Posted by [Raymond Hellstern \(Germany\)](#) on 25 Nov 2002, 7:46 p.m.,
in response to message #4 by Shawn

My tip (if not already given by s.o. else):

Remove the batteries, take a metal paper clip, carefully short the battery terminals for one or two seconds, re-insert the batteries. Try to turn the machine on.

If that doesn't work, then short the terminals with the batteries in for a short moment, say part of a second. Try to turn the machine on.

But: NEVER NEVER put in the batteries with wrong polarity! This could really damage your 42S, at least on the 48 series calcs it does. In that case the calc will drain the batts in two days...

Raymond

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Emu28 and other ROM image upload stuff

Message #1 Posted by [Christoph Giesselink](#) on 19 Nov 2002, 1:24 p.m.

Hello,

I'm wondering if somebody managed it so far to make a HP28C ROM image and use it in Emu28? It's very quiet around this topic.

One remark to the BEEP patch. At the time I wrote the patch I wasn't aware that there are two public ROM versions (1BB, 1CC) of the HP28C. The address in BEEP.28C is only valid for the 1CC revision. I expect that the patch address is somewhere else on rev. 1BB, because all other published entries of 1BB differs from my 1CC.

If somebody wants to make more comfortably ROM Upload programs for Lewis based machines here are the entries of the =OUTBYT ASM entry. The ROM entries may be changed if you have a different ROM revision then I.

```
- HP17B International (96KB) rev. BB
=OUTBYT          EQU      #01378  (HP17B)    Send character in A[B] over IR
```

```
- HP17BII International (96KB) rev. BA
=OUTBYT          EQU      #01445  (HP17BII)  Send character in A[B] over IR
```

```
- HP27S English (64KB) rev. B
=OUTBYT          EQU      #0142E  (HP27S)    Send character in A[B] over IR
```

```
- HP28S (128KB) rev. 2BB
=OUTBYT          EQU      #01D00  Send character in A[B] over IR
```

Before calling the first =OUTBYT you must do an initial GOSBVL #01E62 to init the interrupt system.

```
- HP42S English (64KB) rev. C
=OUTBYT          EQU      #031C4  (HP42S)    Send character in A[B] over IR
```

I grabbed these entries from my own calculators and used them to make the ROM images. On the Pioneer series calculators the internal memory scanner is perfect to type in self written machine code, on the HP28S I personally use the ASM utility to translate Strings with machine code into System Objects.

BTW, if you really want to make all uploads it's a good idea to buy a family package of LR44 batteries for the Pioneers and a family package of Lady for the Clamshell calculators. ;-) Ops, I forgot the Mirco battery cells if you use a HP48 as receiver.

Happy grabbing,

Christoph Giesselink

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 82066B charger question

Message #1 Posted by [Juergen Rodenkirchen \(GER\)](#) on 19 Nov 2002, 3:47 a.m.

Hi all!

Does anyone know if there's any concern in using the HP 82066B charger (210 to 250 V European type; don't know the other_countries part names) with HP-IL Printers as well as with HP-IL Digital Cassette Drives (the ones for the 41s, 71s that is) and HP-9114A/B Disk Drives?

Regards, Juergen

Re: HP 82066B charger question

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 19 Nov 2002, 9:44 a.m.,
in response to message #1 by Juergen Rodenkirchen (GER)

Hi;

I use one 82066B with my 9114A Disk Drive. The specifications for many chargers are the same:

3 Watt (in some of them, it's 3 VA; if the power factor is closer to 1, they are about the same)
8 Vac

These specs - 8Vac, 3W - go to 82066B, 82040B and 82059B; these are the ones I have in hands.

Hope this helps.

Cheers.

Re: HP 82066B charger question

*Message #3 Posted by [Juergen Rodenkirchen \(GER\)](#) on 19 Nov 2002, 10:10 a.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Hi Luiz!

> Hope this helps.

It did! Thanks again!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP71 -> PC

Message #1 Posted by [Jörg Voigt](#) on 18 Nov 2002, 2:52 p.m.

Hallo,

ich habe einen HP71B, HPIL, HPIL-PC Card. Ich benötige Infos und ein Programm zur Kommunikation zwischen PC und HP71B. Leider beherrsche ich die englische Sprache nicht so gut und schreibe deshalb in deutsch. Für eine Antwort vielen Dank!

Jörg Voigt

2. eMail: joerg.voigt@ht.hamburg.de

Re: HP71 -> PC

Message #2 Posted by [Emmanuel, Frankreich](#) on 18 Nov 2002, 3:06 p.m.,
in response to message #1 by Jörg Voigt

Benötigst du eine Verbindungssoftware? Freundschaften.

Re: HP71 -> PC

Message #3 Posted by [Christoph Klug](#) on 19 Nov 2002, 3:16 a.m.,
in response to message #2 by Emmanuel, Frankreich

Hallo Jörg, Hallo Emmanuel,

eine mögliche Software wäre LINK-PLUS. Diese DOS software läuft jedoch nur auf langsamen PC's z.B. auf einem alten 286/16MHz PC.

a software solution for HP-71 and PC data transfer is LINK PLUS. Unfortunately this runs only on slow speed PCs like a 286/16MHz PC.

Herzliche Grüße - Christoph

Re: HP71 -> PC

Message #4 Posted by [Emmanuel, Frankreich](#) on 19 Nov 2002, 1:45 p.m.,
in response to message #3 by Christoph Klug

Ich ziehe HPILINK vor. Diese Software erlaubt dich, dein Hp-71b seit dem PC zu steuern, und dort Daten oder Programme zu bewahren. Christoph hat Recht. LINKPLUS ist eine hervorragende Software. Wenn du unsere Hilfe benötigst, ist nicht unentschlossen. Grüsse.

Re: HP71 -> PC

Message #5 Posted by [Philip](#) on 19 Nov 2002, 5:21 p.m.,
in response to message #4 by Emmanuel, Frankreich

Is LINKPLUS available in the public domain?

Re: HP71 -> PC

Message #6 Posted by [Emmanuel, France](#) on 19 Nov 2002, 5:29 p.m.,
in response to message #5 by Philip

No, I don't think so.

Re: HP71 -> PC

Message #7 Posted by [Emmanuel, Frankreich](#) on 19 Nov 2002, 1:50 p.m.,
in response to message #3 by Christoph Klug

Andere Sache. Stéphane Barizien hat ein interessantes Werkzeug entwickelt. Cross71. Ich muß es haben irgendein Teil.

Re: HP71 -> PC

Message #8 Posted by [Julián Miranda \(Spain\)](#) on 19 Nov 2002, 4:31 p.m.,
in response to message #3 by Christoph Klug

I think, it will be polite if someone translates the thread for the non german speaking people.

Re: HP71 -> PC

*Message #9 Posted by [Christoph Klug](#) on 20 Nov 2002, 3:20 a.m.,
in response to message #8 by Julián Miranda (Spain)*

Here are some more informations about LinkPlus. the company Southern Software who created this nice dos application does no more exist. If someone is looking for this software, please contact me for getting this.

Also : Link Plus kann ich beschaffen...

May be there are some other handheld computer enthusiasts who are looking for a HP-41/PC gateway solution ? In less time we are able to present an absolutely powerfull hardware/software combination for this...

Best wishes from Germany - Christoph

Re: HP71 -> PC

*Message #10 Posted by [Jörg Voigt](#) on 20 Nov 2002, 4:28 a.m.,
in response to message #2 by Emmanuel, Frankreich*

I got in the meantime the software "HPILLINK". For a test I must procure myself only an old PC. If interest exists can I on my experiences report later.

Jörg

Re: HP71 -> PC

*Message #11 Posted by [Emmanuel, France](#) on 20 Nov 2002, 2:05 p.m.,
in response to message #10 by Jörg Voigt*

You can use a Pentium I but its ISA clock is 10MHz and 80286/386/486 is 8MHz. Please choose 'deturbo' or 'slow' in Bios Setup. Reporting your experience will be useful, in my opinion.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

vms daemon not available yet will retry...

Message #1 Posted by [billy](#) on 18 Nov 2002, 8:00 a.m.

When using x-windows trying to connect to an HP-UX 11.0 machine we get this error. However if we try to connect later on in the day it works. Anyone any ideas ?

Re: vms daemon not available yet will retry...

Message #2 Posted by [Glen Kilpatrick](#) on 18 Nov 2002, 8:41 a.m.,
in response to message #1 by billy

You'll probably be wanting HP Forums for this, off <http://itrc.h.com/>, _this_ MoHPC forum is devoted to HP calculators and the like, good memories, maybe interesting futures.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP32Sii, missing dot row

Message #1 Posted by [Mike \(Stgt\)](#) on 18 Nov 2002, 7:32 a.m.

I got a HP-32SII where on the 4 digit the leftmost dot column is inoperable. So 3 and 8 look the same.

Is there a chance to fix that?

Ciao.....Mike

Re: HP32Sii, missing dot row

Message #2 Posted by [Randy Sloyer\(US\)](#) on 18 Nov 2002, 1:41 p.m.,
in response to message #1 by Mike (Stgt)

I assume it is missing in all character positions. If so, it is possible that the calc has taken a physical shock that has bumped the pc board to lcd alignment out of whack. The board is held in position with 6 metal tabs that are twisted to lock the board down against the conductive rubber strips which make the electrical connection to the lcd.

I'm not sure of the pattern on the 32S, but I know on the 42S the lcd connections are on a 0.025" pitch. I suspect the 32S is not as fine, but any misalignment will cause a malfunction of the display. There is a small amount of play in the board to metal frame alignment which can be disturbed by shock if the tabs are not holding the board tightly.

You might be able to restore proper operation by:

1. Open the case.
2. Remove the pc board.
3. Check the zebra (conductive rubber) strips for placement.
4. Straighten and align the 6 metal tabs so the pc board will be centered in the metal frame.
5. Reinstall pc board.

I have found this to work on a 17Bii that had a similar problem. I am not sure of how the

pioneers multiplex the lcd display lines, but it is possible that there is a bad display select line which would need a new cpu :(But, I suspect misalignment is the likely cause.

Paul Brogger's article in the archives details how to crack open a Pioneer:

<http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/articles.cgi?read=5>

Re: HP32Sii, missing dot column

*Message #3 Posted by [Mike \(Stgt\)](#) on 19 Nov 2002, 8:22 a.m.,
in response to message #2 by Randy Sloyer(US)*

Hi Randy! Thank you very much for your detailed answer. It's only the leftmost column of the 4th digit missing. I'll tell you when I was successful.

Ciao.....Mike

Re: HP32Sii, missing dot column

*Message #4 Posted by [Randy Sloyer](#) on 19 Nov 2002, 9:04 p.m.,
in response to message #3 by Mike (Stgt)*

99.9% chance it is only one column of the display that has lost connection. It is not a mechanical shift problem as previously mentioned.

Just removing the pc board, cleaning the zebra strips and reinstalling should fix it. The interface between the LCD/zerba/PC board must be absolutely clean and free of all dirt and lint.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Silent 41CV

Message #1 Posted by [Renato](#) on 17 Nov 2002, 10:58 p.m.

I'm fixing a 41cv. It is now almost ok, but <beep> and <tone> do nothing. Any suggestions ?

Re: Silent 41CV

Message #2 Posted by [Emmanuel, France](#) on 18 Nov 2002, 1:04 a.m.,
in response to message #1 by Renato

May be your 'beeper' is dead or one of the wires cut. Please check. Youtrs.

Re: Silent 41CV

Message #3 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 18 Nov 2002, 6:24 a.m.,
in response to message #2 by Emmanuel, France

Also check flag 26 (audio enable). I assume you already did, but... Wires are better candidates.

Re: Silent 41CV

Message #4 Posted by [Renato](#) on 22 Nov 2002, 10:54 p.m.,
in response to message #2 by Emmanuel, France

I checked the wires. Black wire was broken at the soldering point. It is now ok. Thank you, Emmanuel and Andrés.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Help Please

Message #1 Posted by [Dion](#) on 17 Nov 2002, 6:57 p.m.

My HP48GX is really going wacko. It operates so slow, I could compare it to a pentium 66 running windows XP. Is it possible that it has static electricity stored? I took an airplane ride back home and since then it takes forever to do anything. But it's working. It never seems to want to finish the selftest, so I can't same if it passes it. Anyone out there could tell me what to do?

Re: Help Please

Message #2 Posted by [Emmanuel, France](#) on 17 Nov 2002, 7:00 p.m.,
in response to message #1 by Dion

First save your data on PC. Memory clear with ON/A/F. Same problem with speed?

Re: Help Please

Message #3 Posted by [Dion](#) on 17 Nov 2002, 7:08 p.m.,
in response to message #2 by Emmanuel, France

Yep tried all that. Even the reset under the rubber foot. Just as slow. Yesterday it was giving a problem with the number 2. It would take forever to register the 2. I left the batteries out for about 5 hours and the 2 doesn't give any problems again. But now it's really slow.

Re: Help Please

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 17 Nov 2002, 7:09 p.m.,
in response to message #1 by Dion

Hi;

Try this:

switch the calculator to ON;
press and hold [ON] key;
press and hold [D] key;
release [ON];
release [D];

The calcualtor enters in interacticve test mode. Now press [MTH] key; you'll see:[pre] ESD
210V 210V || ||[pre]ESD stands for ElectroStatic Discharge. See if there's any warning message
and try the calculator again.

To get rid off the test screen, do it;;
press and hold [ON] key;
press and hold [C] key;
release [ON];
release [C];

To be honest, I am not sure if this is a test for ESD or an internal ESD procedure. Well, let's see
what's gonna happen!

Success.

Re: Help Please

Message #5 Posted by [Dion](#) on 17 Nov 2002, 9:12 p.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)

Luiz, You're the best. It started to beep for 5-10 seconds and now it works like a charm.
Thanks a million. This forum is tops.

Re: Help Please

*Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 17 Nov 2002, 10:26 p.m.,
in response to message #5 by Dion*

That's what we're here for, my friend.

Thanks for you feedback.

Keep posting!

Cheers.

This one is a keeper!

*Message #7 Posted by [Randy Smith](#) on 18 Nov 2002, 1:35 a.m.,
in response to message #6 by Vieira, Luiz C. (Brazil)*

How about posting this tip in the articles forum to make it easier to find in the future?

Already there...

*Message #8 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 18 Nov 2002, 12:57 p.m.,
in response to message #7 by Randy Smith*

Hi, Randy;

thank you for your support.

The (brief) article is already there. I'd like to hear from you, guys, if there is anything else to add or anything to change/correct.

Best regards from Brazil.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Order of operations

Message #1 Posted by [Jessica Maloney](#) on 17 Nov 2002, 5:17 p.m.

I have a question for you. My brother, who is in the 6th grade, is learning about "Order of Operations" in his math class. In this section of his book, it has note about how an old calculator you have gives a different answer for a math equation than a new calculator. The example is: $2+3 \times 4$

The old calculator says the answer is 20, but the new calculator says the answer is 14 (due to the new order of operations). My question is what year makes a calculator a new one? The reason I am asking is because I have a new calculator that gives the answer to this equation as 20. Am I supposed to enter the equation differently? The note was vague as to if to get the correct answer of 14 you must enter the equation differently than left to right.

I would much appreciate a response as soon as possible so I may help my brother learn this new way of doing math.

Re: Order of operations

Message #2 Posted by [Emmanuel, France](#) on 17 Nov 2002, 6:00 p.m.,
in response to message #1 by Jessica Maloney

Dear Jessica,
Which calculator are and were you using?
 $2+3 \times 4 = 2+(3 \times 4)?!$
I 'tested' this calculation on several machines:
Sharp PC-1360, $2+3 \times 4 = 14$
HP 200LX (algebraic notation), idem
HP 49G (algebraic notation), idem
The first calc. you used was really old...
Sincerely yours. Best regards from Normandy.

Re: Order of operations

*Message #3 Posted by [Jessica Maloney](#) on 17 Nov 2002, 6:31 p.m.,
in response to message #2 by Emmanuel, France*

I'm using a brand new Palm Pilot and it gives the answer of 20. I also tried a Sharp calculator and an Office Depot calculator and they give 20 too! Neither of those is very old. The Office Depot calculator is only a few months old.

I can't seem to get my mind or any calculator to think that the answer is 14.

Re: Order of operations

*Message #4 Posted by [Emmanuel, France](#) on 17 Nov 2002, 6:57 p.m.,
in response to message #3 by Jessica Maloney*

Dear Jessica, I was joking ... of course. Curious answer from your calcs. Please see below what Gene wrote. Yours. Have a good night. Emmanuel

Re: Order of operations

*Message #5 Posted by [Gene](#) on 17 Nov 2002, 6:13 p.m.,
in response to message #1 by Jessica Maloney*

They probably mean that the VERY early 4 function calculators did not implement an order of operations for solving arithmetic problems. This was primarily due to the need to store numbers and operations until they could be evaluated...and memory was expensive early on. These old calculators just executed an operation whenever they could.

In reality, you are supposed to do multiplication and division before addition and subtraction.

Most calculators now are smart enough to do this.

Unfortunately, HP has for 10 years sold business calculators that give wrong answers to these types of problems.

That's why our university eventually gave up on them. Sadly, I agreed with it.

Wake up HP. Gene

The Book is Wrong!

Message #6 Posted by [Jim L](#) on 17 Nov 2002, 6:47 p.m.,
in response to message #1 by Jessica Maloney

Jessica,

Unfortunately, the book is wrong. There are many calculators you can buy today that will give the answer 20. Most of the people in this forum buy "scientific" calculators that will give the right answer but many -probably most- of the simple cheap 4 function calculators on the market still give an answer of 20. So your book is wrong and a lot of calculators are wrong too. This should be a lesson to your brother that he can't accept everything that gadgets and books tell him. He needs to think these things through for himself.

Here's a fun thing to do if you're using Windows. Use the Windows calculator in "standard" mode and it will give the answer of 20. Now set it to "scientific" mode (View/Scientific) and the same calculator will give you the answer of 14. (At least it does this in Windows XP.) Microsoft is probably doing the right thing here (even if it's wrong mathematically) because most of the cheap simple calculators in the world do the wrong thing. Their calculator simulator defaults to doing it wrong because that's what most people expect.

By the way, I like RPN calculators because they're more consistent about things like this. When you pick up a random calculator with an equals key, you just have to try it out to see what it does.

Re: The Book is Wrong!

Message #7 Posted by [Jessica Maloney](#) on 17 Nov 2002, 7:32 p.m.,
in response to message #6 by Jim L

This is very confusing. I tried Windows and got both 20 and 14. But 14 is the "right" answer even though 20 is the "standard" answer???? What is an RPN calculator and which answer does it give? I tried asking my parents and they said the answer was 20.

Re: Order of operations

Message #8 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 17 Nov 2002, 7:42 p.m.,
in response to message #1 by Jessica Maloney

Hi, Jessica.

I see that many contributors posted very good answers in here, and I'd like to add just a few other words.

Jessica, how old is your brother? I'm a lot concerned about it, because I teach math (basic high-school) and algebra (number theory, university classes) and I face many problems brought from my students about calculator usage.

I simply ask them to bring their calculator's manuals, and most of the times, they are lost somehow. I must agree with Jim, the book is completely wrong and you are also right when you say it is a vague affirmative.

If we face an expression like this - $2+3 \times 4$ - and we need to find an answer, we can do whatever we want to: add first, multiply later. What's the matter?

Anyway, math precedence is clear and objective when applied, and in this case we **MUST** multiply first and add later. If we need to change the order, we mu

Re: Order of operations

Message #9 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 17 Nov 2002, 7:42 p.m.,
in response to message #1 by Jessica Maloney

Hi, Jessica.

I see that many contributors posted very good answers in here, and I'd like to add just a few other words.

Jessica, how old is your brother? I'm a lot concerned about it, because I teach math (basic high-school) and algebra (number theory, university classes) and I face many problems brought from my students about calculator usage.

I simply ask them to bring their calculator's manuals, and most of the times, they are lost somehow. I must agree with Jim, the book is completely wrong and you are also right when you say it is a vague affirmative.

If we face an expression like this - $2+3 \times 4$ - and we need to find an answer, we can do whatever

we want to: add first, multiply later. What's the matter?

Anyway, math precedence is clear and objective when applied, and in this case we **MUST** multiply first and add later. If we need to change the order, we must add parenthesis and precedence still prevails, because parenthesis **MUST** come first.

If we execute operations as they appear (e.g.: "add two and three than multiply by four" should not be expressed by $2+3\times 4$, instead by $(2+3)\times 4$) we should use a calculator that

- 1) has parenthesis, and some of them don't or
- 2) executes operations as their equivalent keys are pressed, and that's what we have

What I would tell your brother is that calculators will **NEVER** dictate a new math approach, because they must follow math laws, not the opposite. Based on this concerns, I'd tell him that whatever calculator I have, I'd learn how to use it undoubtedly, because math does not allow the same expression to give more than one right answer, and that's what calculators **MUST** do: **HELP** users to get to these right answers, and it will **ALWAYS** happen if we use them correctly. So, the User's Guide, Owner's Manual or whatever name it has **MUST** be at hands. Ever.

But let's face the fact that should be exposed to your brother: use the calculator only to get to the numbers. Reasoning about the solution is our business, and calculator should never have an opinion about it.

Cheers. (my US\$ 0,05)

Re: Order of operations

Message #10 Posted by [Ernie Malaga](#) on 17 Nov 2002, 9:04 p.m.,
in response to message #1 by Jessica Maloney

Jessica:

The mathematically correct answer is 14. That's because each operator (+, -, etc.) has a place in the hierarchy and those in higher levels must be processed before those in lower levels. Since $\times$ has a higher hierarchy level than +, multiplication comes first ($3\times 4=12$), then followed by addition ($2+12=14$).

Algebraic calculators come in two very distinct flavors. The first, or older, pays no attention to the operator hierarchy. Operations are simply carried out in the order in which they are entered -- from left to right, no exceptions -- and so often yield incorrect answers. The second, or newer, does pay attention to the operator hierarchy. Operations are carried out in the mathematically correct order, yielding correct answers. RPN calculators have never had this problem, since it's the user who supplies the order of the operations.

When I say "older" and "newer" I don't mean the age of the calculator, but of its operating system. Even today you can buy simple 4-function calculators that use the older version, without hierarchy. Usually -- but not always -- those algebraic calculators that have parenthesis keys are the ones that give the correct answers. WHEN IN DOUBT, USE PARENTHESES.

I don't agree with the assessment that the Calculator in Windows is OK because it follows the most common interpretation, even though it's the wrong one. A calculator is EXPECTED to provide the right answer; if it doesn't, its only place is the waste basket.

By the way, other games can be played with algebraic calculators of the old style. If you alter the order of the operands in commutative operations (+ and x), sometimes you get different answers if the expression includes other operations. For example:

$$2 + 3 \times 4 = 20$$

$$2 + 4 \times 3 = 18$$

Watch out for expressions that include powers of powers (such as 4^{3^2}). The "raising to power" operation (usually y^x in most calculators) is THE exception to the rules of order of operation -- even in mathematics. 4^{3^2} must be calculated as 4 raised to the power 3^2 -- that is, 4 raised to the 9th. In other words, if you find a string of powers, they must be executed from right to left (!).

In these cases, you may have the same number several times (such as 3^{3^3}) and obtain two different answers depending on which ^ operator you execute first:

$$(3^3)^3 = 27^3 = 19,683$$

$$3^{(3^3)} = 3^{27} = 7.63 \text{ E } 12$$

The second one is the mathematically correct answer, if the parentheses were removed.

A few calculators (such as TI's SR-51A) have no parenthesis keys, yet do follow the hierarchy, but only up to a certain point. In my opinion, that's the worst kind of calculator there is. Some HP business calculators are the opposite: they have the parenthesis keys but do not pay attention to operator hierarchy.

Again, when in doubt, use parentheses.

Happy calculating.

Re: Order of operations

Message #11 Posted by [GE \(France\)](#) on 22 Nov 2002, 4:34 a.m.,
in response to message #10 by Ernie Malaga

As you quote this model, the SR-51 actually doesn't have parenthesis keys, the probable reason being that it has only a single register to hold one intermediate value so that you can mix + or - with * or / operations. The number of registers on the algebraic stack dictates the number of pending operations possible. In this one case, parentheses would have been useless. A lot of old algebraic models allowed one, two or a few levels of parentheses. A very strange example is the Sinclair Cambridge Programmable.

Re: Order of operations

Message #12 Posted by [db\(martinez,california\)](#) on 23 Nov 2002, 10:30 a.m.,
in response to message #11 by GE (France)

GE; is it my imagination or do the phrases "strange example" and "sinclair calculator" pop up a lot together? - db

Re: Order of operations

Message #13 Posted by [rsenzer](#) on 23 Nov 2002, 12:28 p.m.,
in response to message #11 by GE (France)

Hi GE,

If I recall, [I'm not sure how many intermediate value registers I still have :)], the ti sr50 and sr51 series had 2 registers that were accessible, the X & Y. The X and Y registers could be swapped using the X<->Y key as on an RPN calculator [SWAP]. They also had a hidden/inaccessible Z register that they referred to in the detailed explanations in the manual when referring to expressions involving combinations of multiplication, division, addition, and subtraction.

However, there was a 3 level hierarchy including exponentiation, so they must have had at least one additional hidden/inaccessible register. They did evaluate mixed expressions involving these operations correctly, but as you stated, they did not have parenthesis. You had to use 1 storage memory in the case of the 50 and you had the choice of 3 with the 51.

I believe the sr52 was the first ti model with parenthesis. After that, I believe every ti scientific calculator came with parenthesis including the infamous ti30 models that

were, essentially, updated sr50 models with parenthesis, but with a lower "build quality". Also they were practically giving these away relative to the original prices on the original 50 and 51 models. They also produced several variants of the 51 in later years, some with limited programmability.

It seems like they made a decision to give the basic models, a 3X designation and the more advanced models, a 5X designation. They seem to have kept the 3X designation for variants of their low level non-programmable scientifics, i.e., basic school models, to this day including the various versions of the 30, 34, and 36 available currently.

I had, both, the 50 and the 51, but these became, largely obsolete, once they added parenthesis. Strangely enough, the baIIplus is the only current ti model that retains the feel and operation of these models, with appropriate updating. The hp 20s also has a similar feel if you're into this sort of nostalgia.

Re: Order of operations

*Message #14 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 23 Nov 2002, 4:32 p.m.,
in response to message #13 by rsenzer*

Hi;

would you include the TI financial models, at least BA55 and BA54 did not have parenthesis, too.

But I see that most financial calculators, based upon facts mentioned here, perform operations as they are requested, i.e., the adding of parenthesis is not exactly to allow the user to change the existing precedence order, instead to dictate an specific execution order.

Cheers.

Operator precedence

Message #15 Posted by [Renato](#) on 17 Nov 2002, 10:01 p.m.,
in response to message #1 by Jessica Maloney

Jessica,

Operator precedence is a very important subject in math. Unfortunately it seems that this is not getting enough attention. See <http://puzzlemaker.school.discovery.com/MathSquareForm.html> for a educational simulator on this subject. They explain the difference between "Natural Operator Precedence" x "Left-to-right".

Another issue is how calculators work. This is a very important issue for this forum, as it is the FIRST reason for HP calculators becoming a tool for scientists and engineers. I explain: in the 60s, eletronics could not create a calculator that would use "Natural Operator Precedence", only "left-to-right" would be possible. So **very** old algebraic calculators would do "left-to-right", or use parenthesis (usually with a limit on how many open parentheses you could enter). HP approach was use RPN system for calculus. RPN does not create ambiguities like you found, and could be included for calculators since the 60s. Try a HP RPN calculator yourself - learn to use it and, please tell us what you think. Many scientific users from the 60s, 70s and 80s found that RPN calculators would be a better choice.

This ambiguity also happens in Microsoft Excell see: <http://support.microsoft.com/default.aspx?scid=KB;en-us;q132686> for an example of ambiguity in excell formulas. See also http://www.ecu.edu/si/cd/excel/tutorials/basic_math.html and you'll learn that this goes deeper than you'd expect.

In <http://mathforum.org/library/drmath/view/53194.html> you can find more information on operator precedence - it can be a bit complex, but useful.

As this is a professional forum, I find it appropriate to tell you what every other forum member would tell you : It is very important to know your tool. A calculator that replies "14" is not RIGHT OR WRONG - it was designed like that. It is up to you to know your tools and do not let them fool you ;-)

Regards from Brazil

Renato

Re: Order of operations

Message #16 Posted by [Math Geek](#) on 18 Nov 2002, 10:55 p.m.,
in response to message #1 by Jessica Maloney

Jessica,

All comments to point, especially "14 is not right or wrong _necessarily_, but the calculator user is on the hook to know the theory" (a collective statement if ever there was one!) are accurate.

On a more practical note, most programming languages, including the very commonly used C and C++, obey the Algebraic Operating System (AOS) when there are no parentheses, meaning that first parentheses are executed, then ALL multiplication and division in left-to-right order, then addition and subtraction in left to right order. As an example, follow the execution stated below:

(1) $6 / 2 + 2 * 4 - 12 / 3$ (2) $3 + 8 - 4$ (3) 7

I am not suggesting that this is the "right" or "only" way, but is probably the "de facto" standard in higher algebra and calculus theory and classes.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Help! HP-41CX Programing

Message #1 Posted by [Gordon Dyer](#) on 17 Nov 2002, 10:38 a.m.

I need to enter characters into Alpha strings during program entry which are not accessible directly from the keyboard. Can anyone tell me how to do this?

I know how to use XTOA in normal mode, but how do I do something equivalent during program entry?

For example I want a program line which is:
016 [,] - where the character codes are 91 44 93

I am sure it must be something simple I have missed in the manual!

Thanks, Gordon.

Re: Help! HP-41CX Programing

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 17 Nov 2002, 10:51 a.m.,
in response to message #1 by Gordon Dyer

Hi, Gordon;

One option is using synthetic programming, say, you enter any character in there, then you substitute it for another by using synth comands. Also, you can save it in the extended memory and use functions available in modules such HEPAX, CCD and others that allow direct manipulation of files. Another way that needs extra equipment is downloading the program (HPIL) to a file in your computer, change the code in there and load it back.

Except for the synthetic code (I do not know how to do it, but I have once used synth programming in... 1987?) or the extra functions available in some modules, I cannot think of an easy way to type a non-standard character as a program line.

Cheers.

Re: Help! HP-41CX Programing

Message #3 Posted by [Emmanuel, France](#) on 17 Nov 2002, 11:48 a.m.,
in response to message #1 by Gordon Dyer

Dear Gordon,

I use to print bar codes for HP-41 (user program w/ or w/o synthetic lines, data, NNN, MCode routine, functions, SP intructions, characters).

Do you have an HP82153A Optical Wand? I can scan some BC sheets and send them attached to a mail.

You can also load codes with a program named 'LB. Synthetic instructions can be created with the help of the famous Byte Grabber.

How are things in United Kingdom? Always there?

Yours. Regards from Normandy.

Emmanuel

Re: Help! HP-41CX Programing

Message #4 Posted by [Gordon Dyer](#) on 17 Nov 2002, 11:48 a.m.,
in response to message #1 by Gordon Dyer

The program I am trying to type in is the Fruit Machine Game for HP-41C out of the HP-41C Program Library in this museum.
I am stuck at lines 016, 018, 026.
I do not have a wand or PC connection.
Maybe I am suck unless I get one!
Thanks for the help anyway.
Regards, Gordon

Re: Help! HP-41CX Programing

Message #5 Posted by [Emmanuel, France](#) on 17 Nov 2002, 12:17 p.m.,
in response to message #4 by Gordon Dyer

Dear Gordon,
I see what you mean:

...
016 ££ ;Reel symbol 4

...
018 [,] ;SP Reel symbol 5

...
026 (,) ;SP Reel symbol 9

...
I have to plug my HP82973A HP-IL/PC card in and download the raw file. Don't worry,
be happy!

Re: Help! HP-41CX Programing

Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 17 Nov 2002, 4:29 p.m.,
in response to message #4 by Gordon Dyer

Hi, Grdon;

I read the page for the Fruit Machine (it took me all of this time to post because we had a blackout in the neighbohrhood) and
it's written :

"Synthetic Programming (SP) is only cosmetic, used for fancy Tones and reel symbols – you can easily substitute standard
characters and tones in the lines indicated below"

Have you already tried this?

Cheers.

Re: Help! HP-41CX Programing

Message #7 Posted by [Ernie Malaga](#) on 17 Nov 2002, 8:40 p.m.,
in response to message #6 by Vieira, Luiz C. (Brazil)

Cosmetic only? That guy must be joking -- or he has never learned enough to understand its power.

-EM

Re: Help! HP-41CX Programing

Message #8 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 17 Nov 2002, 10:37 p.m.,
in response to message #7 by Ernie Malaga

Hi, Ernie;

Just to add that it seems to me he was refering to the use of Synth Ciodes for that particular purpose.

I'd write: "**In this game**, the use of SP is cosmetic only..."

Best regards.

Re: Help! HP-41CX Programing

Message #9 Posted by [Gordon Dyer](#) on 20 Nov 2002, 5:32 p.m.,
in response to message #7 by Ernie Malaga

Hey!

I didn't mean to start an argument!

In the context of this program it is unimportant, but I might try to learn some Synthetic Programming, I'm sure it will be useful for other "serious" tasks.

Gordon.

Re: Help! HP-41CX Programing

Message #10 Posted by [Richard Garner](#) on 20 Nov 2002, 5:48 p.m.,
in response to message #7 by Ernie Malaga

In my experiance with SP, I found that it was a great way to get the 41C to do some very nice things. But after the Extended Fuctions Module and then the 41CX came out, SP feats could be done as well or better with the standard built-in commands.

Re: Help! HP-41CX Programing

Message #11 Posted by [Gordon Dyer](#) on 20 Nov 2002, 5:27 p.m.,
in response to message #6 by Vieira, Luiz C. (Brazil)

Thanks, I have substituted other characters and its working.

It's just a bit of frivolous entertainment! But fun to see what the Hp-41 can do.

Gordon.

Re: Help! HP-41CX Programing

Message #12 Posted by [Wlodek Mier-Jedrzejowicz](#) on 29 Nov 2002, 10:21 p.m.,
in response to message #11 by Gordon Dyer

Hi Gordon,

As you're in Britain (I haven't worked out where), if you're ever passing through London on the second Saturday of a month, do drop in on an HPCC meeting, and you'll be able to talk about HP-41 Synthetic Programming and lots else. One of us could even type that awkward character into your program on the spot :-) See <http://www.hpcc.org> for further details of the club.

Best Regards,

Wlodek Mier-Jedrzejowicz

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Looking for HP 49G ug and aug in French (pdf)

Message #1 Posted by [Emmanuel, France](#) on 17 Nov 2002, 5:29 a.m.

Hello,
I am looking for HP 49G user's guide and advanced user's guide in French (pdf).
Problem when downloading:
http://www.hp.com/calculators/france/prod/hp49ug_french.zip
http://www.hp.com/calculators/france/prod/hp49aug_french.zip
Other languages are welcome. Thanks for assistance.

Re: Looking for HP 49G ug and aug in French (pdf)

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 18 Nov 2002, 10:17 a.m.,
in response to message #1 by Emmanuel, France

Hi, Emmanuel;

I sent you both (a series of zipped files) aug and ug in French yesterday at night. Did you get them?

If not, let me know so I'll send them again. I also have German, Portuguese and English. Is there anyone of these you want too? (the English ug is a bit different of the one that comes with the calculator; a few details, only)

I'm posting here because if you did not receive the files you'd probably not receive the e-mail.

Best regards from Brazil (I like the way you finish your posts...)

Luiz C. Vieira

Re: Looking for HP 49G ug and aug in French (pdf)

Message #3 Posted by [Emmanuel, France](#) on 18 Nov 2002, 3:40 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

Dear Luiz Claudio, Really nice from you. Interested in getting German ones too. I downloaded Spanish, English and Portugese on www.hp.com. Yours. Regards from Normandy. Emmanuel

Re: Looking for HP 49G ug and aug in French (pdf)

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 18 Nov 2002, 5:08 p.m.,
in response to message #3 by Emmanuel, France

Hi, Emmanue'l;

I'm e-mailing them ASAP; if nothing is wrong, I'll do it tonight.

Best regards (from Brazil).

Re: Looking for HP 49G ug and aug in French (pdf)

Message #5 Posted by [Emmanuel, France](#) on 18 Nov 2002, 5:38 p.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)

Thanks. ;o)

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP48 - help

Message #1 Posted by [Tal](#) on 17 Nov 2002, 2:16 a.m.

Hi, All!

The target of the program is to count pulses all the time (at the first task), and every 10 seconds to perform some calculation.

```
DATE TIME \<< @ every 10 seconds. . . \>> 10 UBASE UVAL 8192 * 4 \->LIST STOALARM
DO @ first task. . . UNTIL KEY END
```

How to perform that? Any help will be appreciated.

Best Regards, Tal

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 9G and HP 9S

Message #1 Posted by [Mark Anderson](#) on 16 Nov 2002, 10:22 p.m.

Are these for real?

[HP 9G](#)

[HP 9S](#)

At least they have ENTER keys.

Re: HP 9G and HP 9S: have they landed?

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 16 Nov 2002, 10:50 p.m.,
in response to message #1 by Mark Anderson

Hi;

as far as I was recently told (too much coincidence), the two new ones would be HP9 with an identification letter. You bet these are the ones announced in London. Th HP9G has graphics, is programmable and HP claims that "it works on a variety of system modes" (????)

I think [this](#) is a good reading, too.

Cheers.

Re: HP 9G and HP 9S

Message #3 Posted by [Katie](#) on 16 Nov 2002, 11:32 p.m.,
in response to message #1 by Mark Anderson

It looks like they used the same company that made the 30S for them :(, but hopefully they've put RPN in there. The promising clue is from their bullet point on the 9S: "Works in a variety of system modes"

Re: HP 9G and HP 9S

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 17 Nov 2002, 1:31 a.m.,
in response to message #3 by Katie

Hi

I've been wondering about it, too; I tried to reason about ALGEBRAIC or RPN or RPL or whatever, but *system modes* may refer to Binary, Octal, Degrees, Radians, programming, graphics... all of these modes are valid system modes, right? I think variety of operating modes would be the stuff I'd like to read.

The shape identifies an HP30S, indeed; and the replaceable covers that would last longer are probably the same fashion we find in the HP30S.

Well, let's celebrate! RPN is back, and whatever we have now, it is a brand-new RPN machine. I'll try writing books about it, ask people to try to use RPN and, who knows, we may offer another possibility for reasoning about solutions... as we, once, had.

Cheers.

Re: HP 9G and HP 9S

Message #5 Posted by [Vassilis Prevelakis](#) on 17 Nov 2002, 4:52 a.m.,
in response to message #3 by Katie

It probably is. At the HPCC conference in London Fred Valdez (General Manager at the Calculator Division) said that in the short term they will stick with the current OEM, but they'll be looking around for the next generation

**vp

HP 9G and HP 9S ... RPN? (skeptic)

Message #6 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 17 Nov 2002, 11:04 a.m.,
in response to message #1 by Mark Anderson

Please note that the HP30S is algebraic, despite the ENTER key it has...

The "many system modes" phrase applies to the 9S / 9G, but also the 30S had four "modes":

- 1) HOME (default)
- 2) STAT
- 3) Linear, 2x2 equation system mode
- 4) Quadratic equation solver mode

In fact, the LCD had annunciators for such modes.

Some puzzling captions in HP Calculator web pages about the new models, like
"Programmable: Put in your own data" are not the best to encourage us ...

On the other hand (possible pun), models evolved from the 30S may not be that bad; at least we may be able to use them, preventing risks and wear to the older, venerable models we will leave safe at home.

HP9S ... RPN? (even more skeptic)

Message #7 Posted by [Nenad Vulic \(Croatia\)](#) on 17 Nov 2002, 12:30 p.m.,
in response to message #6 by Andrés C. Rodríguez (Argentina)

IMHO, if HP9S is not an RPN calculator, or does not at least have an RPN mode, what difference would it make to a HP6/6S, or any other today's ten dollars scientific calculator.

I fully agree with you Nenad [NT]

Message #8 Posted by [Iqbal](#) on 17 Nov 2002, 12:45 p.m.,
in response to message #7 by Nenad Vulic (Croatia)

**

Re: HP9S ... RPN? (even more skeptic)

Message #9 Posted by [sio](#) on 18 Nov 2002, 7:29 a.m.,
in response to message #7 by Nenad Vulic (Croatia)

I agree. Do they know what "intensely brand-loyal" customers expect from HP???

Re: HP 9G and HP 9S ... RPN? (skeptic)

Message #10 Posted by [rsenzer](#) on 17 Nov 2002, 9:50 p.m.,
in response to message #6 by Andrés C. Rodríguez (Argentina)

From what I can tell, there is a "PROG" button so there may be some true programmability on the 9G. I was trying to determine from the image whether there was some ability to enter individual letters and it looks like there may be some sort of "LOCK" label so that could indicate ability to enter letters. Anyway, enough of the speculation ...

I think the funniest line [for the 9S] is "Four basic operations to solve wide range of problems"

I suspect they are referring to the 4 modes, but my first thoughts upon reading this were:

Wow, it can handle addition, subtraction, multiplication, and division. After all it is amazing how many problems you can solve with these four basic operations. :)

Re: HP 9G and HP 9S ... RPN? (skeptic)

Message #11 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 17 Nov 2002, 11:00 p.m.,
in response to message #10 by rsenzer

Hi;

after filtering the HP9G image a bit, you can see the alphabet starts in the second row and $\geq$, $\leq$, $>$ and $<$ operators can be distinguished over [4], [5], [1] and [2], say, IF structure is available and it does make sense only in math expressions or programming. But the [M+] key scares me a bit... (beside [1] key)

Well, I think HP called our attention. We're turning our eyes to the low-definition photos of their most recent calculators and forward discussing their unknown resources... I'd rather having a high-resolution photo and their owner's manual in PDF format to download.

Cheers.

I doubt the HP-9S will be RPN because...

Message #12 Posted by [Tony David Potter](#) on 17 Nov 2002, 12:50 p.m.,
in response to message #1 by Mark Anderson

...if you look on the page linking to the HP-9S and 9G:

<http://staging.porternovelli.com/sanfrancisco/preview/hpcalc1/>

It states at the bottom that the 9S and 9G are entry-level products, where above (in the paragraph New Products and Promotions) it states the HP-30S is a mid-range product. I don't believe that they would put RPN in an entry level product and not in a mid-level product. I think our only hope is to hold out for what they call their "high-range" product.

Tony David Potter

Re: I doubt the HP-9S will be RPN because...

Message #13 Posted by [R Lion](#) on 17 Nov 2002, 1:19 p.m.,
in response to message #12 by Tony David Potter

RPN calcs designed for students of 10-16 yo? I wish but the market doesn't believe these ones can do *any* effort. ("...easy to see the problem and then immediately see the solution")

Raul

RPN and young people...

Message #14 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 17 Nov 2002, 5:00 p.m.,
in response to message #13 by R Lion

At least, I have a 18 year old daughter who is about to enter university for an engineering degree, and she is as dependent on RPN as I am. She has a 32Sii, and I bought her a spare 32Sii just before they disappear from the shelves...

Re: RPN and young people...

Message #15 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 17 Nov 2002, 7:55 p.m.,
in response to message #14 by Andrés C. Rodríguez (Argentina)

Hi, Andrés;

I intend showing my daughter how do RPN calculators works and, if I get success, I hope she will use it, too (she is 10 Y.O. now).

But let's face one thing: for as long as math teachers write expressions like $2+3\times 4$ and solve them in the black board like this

$$\begin{array}{r} 2 \\ + 3 \\ \hline 5 \\ * 4 \\ \hline 20 \end{array}$$

they are teaching that an RPN-like notation is used to find answers to algebraic expressions.

Best regards.

Re: RPN and young people...

Message #16 Posted by [R Lion](#) on 18 Nov 2002, 9:20 a.m.,
in response to message #15 by Vieira, Luiz C. (Brazil)

Perhaps a "language problem" does not let me know what you mean... but math's teachers don't solve in that way algebraic expressions. At least not me. Regards
Raul

Re: RPN and young people...

*Message #17 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 18 Nov 2002, 10:09 a.m.,
in response to message #16 by R Lion*

Hi;

maybe I'm not posting exactly what I tried to, but I learnt arithmetic that way: putting numbers in a stack fashion so I could add, subtract and multiply. Dividing two numbers is accomplished by a series of multiplications and divisions, so the stack fashion arithmetic is also used.

When I wrote:

they are teaching that an RPN-like notation is used to find answers to *algebraic* expressions.

maybe I should have written:

they are teaching that an RPN-like notation is used to find answers to *numeric* expressions.

Is that what you mean? As a teacher (and English learner) I'd like posting messages in the best way. I just want to know what is wrong: the concept itself or its expression.

Thank you and best regards.

Re: RPN and young people...

*Message #18 Posted by [rsenzer](#) on 18 Nov 2002, 11:35 a.m.,
in response to message #17 by Vieira, Luiz C. (Brazil)*

Hi Luiz,

In much of the literature including manuals that came with the RPN calculators, HP would present just this sort of "vertical" calculation arrangement and associate it with the numbers on the stack during an analogous calculation on the calculator. I frequently do calculations "vertically" in my algebra classes.

The issue was probably not with the "vertical" calculation arrangement,

but that the steps you showed in the posting were for $(2+3)*4$ rather than $2+3*4$. I'm just guessing.

Re: To rsenzer and Luiz

*Message #19 Posted by [R Lion](#) on 18 Nov 2002, 11:52 a.m.,
in response to message #18 by rsenzer*

And you guessed, rsenzer: $2+3*4$ is not 20, but 16. That's what I mean in my answer. Luiz: I'm spanish, and not a good english speaker...I'm not the best english teacher you can get: belive me that when I said "language problem" I was referring to my understanding, not to your expresion.

Regards Raul

To R Lion

*Message #20 Posted by [Massimo Gnerucci \(Italy\)](#) on 18 Nov 2002, 12:53 p.m.,
in response to message #19 by R Lion*

And you guessed, rsenzer: $2+3*4$ is not 20, but 16. That's what I mean in my answer. Luiz: I'm spanish, and not a good english speaker...I'm not the best english teacher you can get: belive me that when I said "language problem" I was referring to my understanding, not to your expresion.

I don't know in Spain but here in Italy $2+3*4=14$ not 16...

;))

Greetings,
Massimo

Aaargghh!!!

*Message #21 Posted by [R Lion](#) on 18 Nov 2002, 2:11 p.m.,
in response to message #20 by Massimo Gnerucci (Italy)*

Sorry, Massimo: It must be because the Euro: all has raised :-)

Raul

Re: Aaargghh!!!

Message #22 Posted by [Massimo Gnerucci \(Italy\)](#) on 19 Nov 2002, 2:41 a.m.,
in response to message #21 by R Lion

Sorry, Massimo: It must be because the Euro: all has raised :-)

Ahahah :)
Good point Raul!

Massimo

Re: RPN and young people... Correcting previous post

Message #23 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 18 Nov 2002, 11:54 a.m.,
in response to message #17 by Vieira, Luiz C. (Brazil)

Hi;

instead of:

"Dividing two numbers is accomplished by a series of multiplications and *divisions*, so the stack fashion arithmetic is also used."

please, read:

"Dividing two numbers is accomplished by a series of multiplications and *subtractions*, so the stack fashion arithmetic is also used."

Based on previous posts, I must agree with the fact i wrote the expression in a wrong way: indeed, its $(2+3)*4$ instead of $2+3*4$.

Thank you, guys, and forgive-me.

Best regards.

Excuse me, but ...

Message #24 Posted by [John Smith](#) on 17 Nov 2002, 1:48 p.m.,
in response to message #1 by Mark Anderson

... why do you think they are RPN machines ?

True, they do have an ENTER key. But for proper usability as RPN machines, they do need to have such primary functions as "X exchange Y" and "Roll down" in primary keys, and I can't find them in the admittedly low-res pictures featured at HP's site.

My best guess is they are HP6S-like, and thus, unappealing to most of us.

Re: Excuse me, but ...

Message #25 Posted by [Mark Anderson](#) on 17 Nov 2002, 2:25 p.m.,
in response to message #24 by John Smith

... why do you think that I think they are RPN machines?

Re: Excuse me, but ...

Message #26 Posted by [rsenzer](#) on 17 Nov 2002, 9:57 p.m.,
in response to message #24 by John Smith

I expect that these calculators use a two line system in which the first line is the entered expression and the second represents the evaluation of the expression once it is entered. Essentially equivalent to placing an expression in tick marks on a 48. This is the system that the 30S uses.

On the other hand, the 30S along with the 9S and 9G could, arguably, be the best of these types of calculators due to the attention to accuracy inherent in these calculators. Accuracy is a minor detail, largely, ignored by the other major calculator vendors. Still, I wish it had RPN or, at the very least, AOS, as options.

It is a sad irony that the message touting the HP-35 as a major breakthrough would be associated with a pair of calculators that, more than likely, do not incorporate RPN.

Re: HP 9G and HP 9S (Does the HP39G have an ENTER key too?)

Message #27 Posted by [Emmanuel, France](#) on 17 Nov 2002, 2:06 p.m.,
in response to message #1 by Mark Anderson

The current tendency is not any more with the RPN. I want some for proof for example the savage will of the teachers not to yield to it. I was in my time in science section, one saw only by Texas Instruments and his AOS (I started on Ti-57 with LED and I always have it). My daughter is also in this type of die and one defends Casio Graph 100. Moreover the general policy of Hewlett-Packard worries me at the most point. I think that last computer RPN could be well the HP-12c which with the passage would need to be 'relookée'. With good entendor hello. <p> Babel Fish Translation

Re: HP 9G and HP 9S (Does the HP39G have an ENTER key too?)

Message #28 Posted by [Arnold](#) on 18 Nov 2002, 6:10 a.m.,
in response to message #27 by Emmanuel, France

Hi Emmanuel,

Yes, the HP39/40G calculators have an enter key. But they're used to evaluate an expression, like the '=' key on algebraic calculators.

Arnold

Why keep RPN around?

Message #29 Posted by [Glen Kilpatrick](#) on 20 Nov 2002, 12:16 p.m.,
in response to message #28 by Arnold

You raise an interesting point, Arnold. We're used to "ENTER" implying RPN, and "=", well DUH! So placing the ENTER down in the lower-right corner for the 49G allows it to perform double duty, depending upon whether you're running Algebraic or RPN (RPL).

Having now blurred the distinction, why not just continue it, let all the calculators use ENTER, and when that pesky reminder of early days (the Golden Days, IMHO), RPN, goes the way of buggy whips & dodos, the original use of ENTER will just be a minor footnote in some history texts. So goes the marketing reasoning (possibly that phrase is an oxymoron :).

And to be fair, when dot-matrix displays and RAM to burn allow you to see both the equation and its result at the same time, perhaps register efficiency doesn't have the value / importance that it once had (those wanting to burn me at the stake will have to

take a number :). I can argue that the language of mathematics is written in equations, in _equality_, and seeing equations on the blackboard / screen / whatever makes for human efficiency (gestalt) sense, but this is a minor quibble, *we* all like RPN for esthetic reasons as much as efficiency.

I believe that we've already seen the last of RPN on low- and mid-range calculators. Whether it continues on high-end (undoubtedly as RPL, like the 49G), that I'm less willing to make a guess, just hope that this pleasing alternative (these, both, RPN & RPL) continues to be around....

Re: Why keep RPN around?

*Message #30 Posted by [Scott Pritchard](#) on 21 Nov 2002, 4:08 a.m.,
in response to message #29 by Glen Kilpatrick*

Is this the world of calculators according to Glen Kilpatrick, give us a break mate. Hope you aren't writing any history books.

has anyone been able...

*Message #31 Posted by [Tony David Potter](#) on 20 Nov 2002, 2:15 p.m.,
in response to message #1 by Mark Anderson*

to get a response from the appropriate people?

There are three business listed as the "master distributors" I've called both Jeff Haas and Barbara Nordberg to see if they would have any information, but they haven't returned my messages yet. Has anyone outside North America tried to contact the appropriate distributor to find out any more information? (I'm just a poor high school teacher passing the gospel of RPN to my students.)

Thanks in advance. Tony David Potter

Re: has anyone been able...

*Message #32 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 20 Nov 2002, 2:51 p.m.,
in response to message #31 by Tony David Potter*

Hi, from another poor (, poor) teacher;

Yesterday morning I sent an e-mail to Hewlett-Packard Education, Brazil, mentioning that I am interested on supporting Hewlett-Packard calculators by writing books and "teaching" (showing) how to use them. I also mentioned both HP9G and HP9S and added to the e-mail their e-address.

No answer so far. Well, they are probably putting themselves in the business...

Cheers.

Re: has anyone been able...

*Message #33 Posted by [Chris Randle \(UK\)](#) on 20 Nov 2002, 6:07 p.m.,
in response to message #31 by Tony David Potter*

I sent an e-mail to Moravia Consulting on Nov 1st asking if they could recommend a distributor in Brno the Czech Republic (where, by coincidence, MC are also located) who could take my order for a 48G+ and deliver to the Czech Republic.

Their web site also said they were responsible for the localization of manuals, so I asked about the availability of a Russian or Czech manual for the 48G.

No reply to date. I've had my e-mail translated into Czech and I've sent it again today (20th). See if that fares any better.

Re: has anyone been able...

*Message #34 Posted by [J.Manrique](#) on 21 Nov 2002, 4:55 a.m.,
in response to message #31 by Tony David Potter*

Hello,

I am writing a little review of hp9g for next HPCC Datafile. Both machines have been left by Spanish distributor and I've got info from Moravia-Consulting.

Don't expect much from these machines. Just keep the hope for next year...

Regards,

J.Manrique

Re: has anyone been able...

*Message #35 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 21 Nov 2002, 8:21 a.m.,
in response to message #34 by J.Manrique*

Hi;

please, help us solving this doubt: is there any RPN activity related to them?

Just disclose this info.

Thank you. And best regards.

Re: has anyone been able...

*Message #36 Posted by [Glen Kilpatrick](#) on 21 Nov 2002, 9:16 a.m.,
in response to message #35 by Vieira, Luiz C. (Brazil)*

I second Vieira's request. It's probably the single most important thing about the new 9's to us at the Forum (and would incidentally prove my previously voiced speculations false, something that would delight me :). Please advise if they do Algebraic, RPN, and/or RPL (maybe that modes is something like what the 49G has).

Re: has anyone been able...

*Message #37 Posted by [J.Manrique](#) on 21 Nov 2002, 9:54 a.m.,
in response to message #36 by Glen Kilpatrick*

Hello,

Don't expect much from them.

Didn't I say it before?

hp9g can be programmed, and it is very similar to a casio machine I am comparing with.

Well, same form factor than hp30s would say it all. They are "school" models, and not thought for those powerful users you are.

Next year we will see more news.

Regards, J.Manrique

You mean no RPN?

*Message #38 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 21 Nov 2002, 10:55 a.m.,
in response to message #37 by J.Manrique*

Hi;

let's hold our breath and ask again: no RPN? I mean, no stack registers, no $x \leftrightarrow y$, no roll-down and roll-up, no ENTER in the way ENTER applies to stack registers?

Ahn?

Tell us a bit more, please. Just this: are both HP9 algebraic-only?

Thank you again and best regards.

Re: You mean no RPN?

*Message #39 Posted by [J.Manrique](#) on 22 Nov 2002, 4:54 a.m.,
in response to message #38 by Vieira, Luiz C. (Brazil)*

Yes, no RPN

For hp9g you could take a casio fx6300g and see how it works. Of course, hp9g offers some features than this casio, i.e. some menus.

And as I said before don't expect these calcs to be the reference, new calculator division is working in real HP products, I hope.

Regards,

J.Manrique

Re: has anyone been able...

*Message #40 Posted by [Dave Shaffer](#) on 21 Nov 2002, 4:06 p.m.,
in response to message #37 by J.Manrique*

J. Manrique,

Have you actually had your hands on one of these calculators?

If so, I think the question of these assembled masses is whether or not the "enter" key functions like the enter key on regular RPN calculators (like the '32, 42, etc.) A simple yes-or-no answer will break (or make) many hearts.

I was fooled into buying a '30 two years ago because it had an "enter" key - inside the box where I could not push it myself to see what happened - until I spent \$15 and took it home to learn the sad truth.

Re: has anyone been able...

Message #41 Posted by [Raymond Hellstern \(Germany\)](#) on 21 Nov 2002, 5:43 p.m.,
in response to message #40 by Dave Shaffer

"...I was fooled into buying a '30 two years ago because it had an "enter" key - inside the box where I could not push it myself to see what happened - until I spent \$15 and took it home to learn the sad truth..."

I think you would make the same experience with the 9x .

Don't forget: at least the 9g is based on the 30S

Raymond

Re: HP 9G and HP 9S (My Rant from Comp48)

Message #42 Posted by [Ron Ross](#) on 21 Nov 2002, 5:09 p.m.,
in response to message #1 by Mark Anderson

Here is the sad reality for ALL of US. Hp's marketing is now in charge. They have given us the Hp6s, Hp30s and the Hp39G/40G and Hp49G. Why aren't these calculators more popular? The reason was obvious, CHEAP SPONGY RUBBER KEYS (aside from the Hp30s). Function wise, great calculators, but no RPN. And marketing is CLUELESS. What you are hearing now is just blather to sooth you until Hp releases new Ti (or in this case CASIO and I would bet algebraic) clones. Marketing feels that their calculators aren't selling BECAUSE OF RPN, not because it is not there but because their targeted audience is scared to buy Hp's (because of RPN). They DON'T GET IT!!! And they probably never will. Hp will sink in the calculator business, and these great geniuses will migrate to other departments. The few who feel otherwise will not be able to stay in the calculator operations to argue otherwise. They will be considered as holding up development. DAL or VPAM is the wave of the future, not AOS and CERTAINLY NOT RPN.

We all would wish for a RPN selection feature, but as I have stated so many times, "Marketing has determined that >95% of the market doesn't even know what RPN is, so therefore don't bother to add the 0.50-1.00 option."

My take on the matter is, that the small 5% will buy and that will easily generate enough sales and perpetuate HP's name in the calc business. Considering how many calculator makers are out there (selling \$10-20), a 5% market share of the low end market at a premium would be a nice slice of the pie. Hp could charge a premium (as if it doesn't or didn't already).

Case in point, the only difference in cost between an Hp20s and an Hp32s was LCD display and Hp priced the 20s at \$30 and the 32s at \$60. Hp could still easily release an Hp20s with RPN (and no extra memory) and have it sell like hotcakes. Or re-release an Hp11c, (since they still make the Hp12c) and sell it for about \$30 and sell like hotcakes to the dedicated 5% market that uses (and abuses) calculators. These customers do come back after their high quality calculators fail. But these customers come back to an empty shelf or a \$10 piece of crap with an Hp logo.

I feel that while the Hp Calculator group didn't haul in the \$\$\$ that Carly wanted (but they were profitable, just not enuff \$\$\$ for continued growth), there was more to Hp name recognition in technology that was given up when Hp abandoned ACO and its manufacturing. In fact, Hp has only tarnished its image with the release of the Hp6s. The Hp30s is better made, but really no real improvement over Ti's or Casio's that are also available.

I believe when you buy an Hp, you should be getting THE HP UNfair advantage of owning an Hp. SCREW the RULES. That is what makes an Hp48 such a great calc. Hp put everything in that calc, including the kitchen sink (if you figure in the eq. lib with fluid flow). If the calculator ends up banned, so WHAT! Hp doesn't get sold en masse anyway. The Hp38 then 39/40G should have included units conversions and also have been RPN selectable as well. I bet you would have seen better sales even though these calcs would have been banned from some exams. As it is, once in college, these calcs are not optimal for Chemistry or physics compared to an Hp48 or Ti-86 (or even a Ti-83+ if you load a chemistry apps package).

As it stands now Ti has a great marketing plan, Sell the Ti-83 (actually, sell the Ti73, worthless as it is, to 6th graders) to the high school market, then sell the Ti-89, to the college market. Three calculator sales to the right crowd, and at least one to every student. I say snag that Ti-89 sale, and also crowd in on the Ti-83 market buy offering a superior calculator to the discerning customer (and even though the math features are better on an Hp39/40, these features mean nothing to HS students, but unit conversions would have). The Hp39 won't take away a single Ti-89 sale, it doesn't have CAS and it doesn't have units conversions (AND I LIKE THE Ti-89 KEYBOARD BETTER, ARRGH, how it pains me to belittle Hp hardware). I do like the color of the Hp39/40 series calculators better than anything I have ever seen, so it looks nice. But it is a pain to use (actually better than an Hp49G in algebraic mode), but that is because I do prefer RPN.

Just my ranting, as if anyone at Hp is ever going to listen to their once dedicated customer base.

Re: HP 9G and HP 9S (My Rant from Comp48)

*Message #43 Posted by [John](#) on 22 Nov 2002, 8:40 a.m.,
in response to message #42 by Ron Ross*

Do you know if anyone from HP calculators monitors Comp48 and mines it for marketing input data ?

If so, maybe they will respond. If not, I would recommend that we organize a writing campaign to let them know what an already loyal group would like to see (and buy) in the calculator market.

The funny thing is, most companies would love to be able to directly interact with such loyal fan base.

Anybody know the appropriate email addresses ?

Re: HP 9G and HP 9S (My Rant from Comp48)

*Message #44 Posted by [Mike Sebastian \(Texas\)](#) on 23 Nov 2002, 10:43 a.m.,
in response to message #43 by John*

If HP won't produce the calculators we want, maybe it is time to start lobbying another manufacturer. [Calculated Industries](#) appears to be able to profitably sell calculators which appeal to niche markets. Their cheapest calculators sell for \$20 (e.g. the [ProjectCalc](#), or the [KitchenCalc](#)), and rapidly increase in price from there. From a cursory review of their product line, it appears that part of their marketing strategy is to simply avoid the brutally competitive educational calculator market that the HP 9G and HP 9S are aimed at.

Re: HP 9G and HP 9S (My Rant from Comp48)

*Message #45 Posted by [rsenzer](#) on 23 Nov 2002, 12:38 p.m.,
in response to message #44 by Mike Sebastian (Texas)*

Hi Mike,

I think that's a great idea. I also have two more potential suggestions for possible companies to contact. One possible company might be C. Crane. Another might be one of the consumer astronomy/telescope companies, the Questars or Celestrons of the world, etc. [On the other hand, maybe I've been listening to too much of Art Bell :)]

Art Bell

*Message #46 Posted by [Glen Kilpatrick](#) on 23 Nov 2002, 1:20 p.m.,
in response to message #45 by rsenzer*

How can you listen to too much Art Bell??? The Truth Is Out There, 'way out there if my handful of listening experiences was any guide :).

And BTW, has *NO ONE* yet seen either of these, do we still Not Have A Clue as to whether the 9[SG] can (also?) do RPN???

I checked Google & Yahoo, all the (usually "one") useful hits point back here, to the MoHPC :).

Your question about RPN

*Message #47 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 23 Nov 2002, 4:36 p.m.,
in response to message #46 by Glen Kilpatrick*

Hi;

Please, read [this post](#); J. Manrique has already given us the answer.

Cheers.

Re: Your question about RPN

*Message #48 Posted by [Glen Kilpatrick](#) on 23 Nov 2002, 4:51 p.m.,
in response to message #47 by Vieira, Luiz C. (Brazil)*

DANG (I read the refernce to the Casio, missed the explicit first line).
Thanks.

Re: HP 9G and HP 9S (My Rant from Comp48)

*Message #49 Posted by [GE \(France\)](#) on 25 Nov 2002, 6:20 a.m.,
in response to message #44 by Mike Sebastian (Texas)*

I've touched a Calculated Industries machine once and had a feeling of a cheap low-capability machine. They are very very basic, for instance date calculations are unaware of any irregularity in the calendar (base 30/360 only). Also, build construction seems lacking. Maybe this was an older model, it might have improved.

Your idea is interesting still, for example take a look at what Karce builds, mainly as OEM.

On the HP9G, it looks like a Casio 6300. Note that Casio seems to have licensed the same machine to Lexibook last year, giving birth to their nice (at the price) 500 & 1000 models. Also, I recently found a Citizen 365G which has very similar features (but the numeric display is 7-segments, and its programming language is very C-like). Based on the Citizen model, I think the 9G could be an interesting middle-line machine. I'd bet nothing will ever come out from HP with RPN again, anyway.

Re: HP 9G and HP 9S (My Rant from Comp48)

*Message #50 Posted by [Mike Sebastian \(Texas\)](#) on 25 Nov 2002, 10:57 p.m.,
in response to message #49 by GE (France)*

I purchased the ProjectCalc a couple of years ago to add to my collection. Ignoring the all too common rubber keys, it is fairly made. It has a good solid feel. The fit and finish is very good. The display is good. While certainly not as nice as a Voyager or older Pioneer from HP, I'd have to say it is higher quality than much of what is currently on the market.

Besides [Karce](#) (the Karce [KC-117](#) looks suspiciously like an HP6S), [Truly](#) has started producing some calculators with unique features.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

32S batteries

Message #1 Posted by [Bill Rahmig](#) on 16 Nov 2002, 12:52 p.m.

My calculator stopped working after many years and I replaced the 3 batteries with Duracell 357's, the same diameter, thickness, and voltage (1.5V) as the original LR 44'S. But the system still doesn't activate. Is it possible that the type is that critical or is more likely that the unit has finally died? Thanks for your input.

Re: 32S batteries

Message #2 Posted by [Andreas Stockburger \(EU\)](#) on 16 Nov 2002, 1:55 p.m.,
in response to message #1 by Bill Rahmig

Hi,

I do not think it has died. Please try this:

Remove the batteries an connect (shorten) both contacts for about 3 seconds. Insert the batteries again and try. If this it not working - sell it on ebay ;-)

best regards

Andreas

Re: 32S batteries

Message #3 Posted by [David Smith](#) on 16 Nov 2002, 2:46 p.m.,
in response to message #2 by Andreas Stockburger (EU)

Actually, HP recommends shorting the ends of the battery stack for one second WHILE THEY ARE IN THE MACHINE.

Re: 32S batteries

*Message #4 Posted by [Andreas Stockburger \(EU\)](#) on 17 Nov 2002, 1:33 p.m.,
in response to message #3 by David Smith*

Hi,

is there a difference between shorten contacts with and shorten contacts without batteries from an electrical point of view ? I dont think so - there is a capacity in the calculator which needs to discharged ...

Andreas

Re: 32S batteries

*Message #5 Posted by [bill Rahmig](#) on 16 Nov 2002, 7:02 p.m.,
in response to message #2 by Andreas Stockburger (EU)*

Thank you. Your idea worked!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

How repairable is this?

Message #1 Posted by [David Ramsey](#) on 16 Nov 2002, 11:41 a.m.

Ebay item #800562411, a 9820 desk calculator whose display shows "NOTE 1" whenever a key is pressed. Is this junk, or something I might be able to get working (I possess minor soldering skills and have replaced LED displays in some HP pocket calcs)...

Re: How repairable is this?

Message #2 Posted by [David Smith](#) on 16 Nov 2002, 2:40 p.m.,
in response to message #1 by David Ramsey

Most of the chips in HP calculators are custom HP chips, also no schematics, etc are available. Without a spare unit for parts/swapping chances of getting a dead unit working are very slim.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP75 Keyboard Overlays

Message #1 Posted by [barry](#) on 15 Nov 2002, 10:09 p.m.

just found 5 HP75 keyboard overlays for the HP75; altogether there are 3 different styles. Can someone tell me if these came in sets, or individually, and any other info on these items? tn timer in advance, barry carson city, nv

Re: HP75 Keyboard Overlays

Message #2 Posted by [Emmanuel, France](#) on 16 Nov 2002, 2:55 a.m.,
in response to message #1 by barry

Are yours included in 'HP-75 Overlay Set HP7121-3581'?
I have three different overlays too.
One 'grey' with blue 'ESC' and orange special characters
One 'brown' with blue 'ESC', blue greek characters and
Escape orders, and orange special characters
One 'grey and brown' with blue 'ESC' and orange special
characters (brown part of the overlay is the numbers zone)

Re: HP75 Keyboard Overlays

Message #3 Posted by [barry](#) on 16 Nov 2002, 3:12 a.m.,
in response to message #2 by Emmanuel, France

here are links to the two .jpg's w/ the three overlays. <http://home.att.net/~btuttleman1/HP75overkey1.jpg> <http://home.att.net/~btuttleman1/HP75overkey2.jpg>

Re: HP75 Keyboard Overlays

*Message #4 Posted by [barry](#) on 16 Nov 2002, 3:16 a.m.,
in response to message #2 by Emmanuel, France*

Hi E: mine came loose in a ziploc bag w/ some manuals; the post right below contains the links to the .jpg's; anyone needing to copy the pix for making their own overlays (& i'm selling these) do so soon as i am pulling the pix soon. tnx, barry carson city, nv

Re: HP75 Keyboard Overlays

*Message #5 Posted by [Emmanuel, France](#) on 16 Nov 2002, 5:15 a.m.,
in response to message #4 by barry*

Dear Barry,
Here are the three different overlays I was talking about.
(picture unavailable)
Yours. Regards from Normandy.
Emmanuel

looks like we have the same three

*Message #6 Posted by [barry](#) on 18 Nov 2002, 2:07 p.m.,
in response to message #5 by Emmanuel, France*

had to pull my pix, needed the room; looks like we have the same three, tho.
probably the only types?

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

my 41C is making a high pitched beep?

Message #1 Posted by [Dubois](#) on 15 Nov 2002, 6:54 p.m.

Every key i press, even the on button emits a high pitched beep. I cleared all audible flags, but it still does it. Any suggestions? Thanks

Re: my 41C is making a high pitched beep?

Message #2 Posted by [Emmanuel, France](#) on 16 Nov 2002, 3:00 a.m.,
in response to message #1 by Dubois

Please make it beeping with the following command:

XEQ ALPHA B E E P ALPHA

I think it will work well after that.

Re: my 41C is making a high pitched beep?

Message #3 Posted by [Dubois](#) on 16 Nov 2002, 11:06 a.m.,
in response to message #2 by Emmanuel, France

Thanks, but it still is beeping with every keystroke

Re: my 41C is making a high pitched beep?

Message #4 Posted by [Emmanuel, France](#) on 16 Nov 2002, 11:26 a.m.,
in response to message #3 by Dubois

Did you try a MEMORY LOST?

Did you remove battery too?

Where do you live? In France or Canada?

Re: my 41C is making a high pitched beep?

Message #5 Posted by [Dubois](#) on 16 Nov 2002, 12:19 p.m.,
in response to message #4 by Emmanuel, France

Actually California, but my parents were from Toronto. I tried all of that, still no luck. I am beginning to think that the calc is broken....

Re: my 41C is making a high pitched beep?

Message #6 Posted by [Emmanuel, France](#) on 16 Nov 2002, 12:26 p.m.,
in response to message #5 by Dubois

I have some experience in fixing HP-41s. Which model is it? C, CV or CX? Fullnut or Halfnut? MAY I help you, I have spare parts of HP-41s. S&H not heavy from US? You have my email.

Re: my 41C is making a high pitched beep?

Message #7 Posted by [Håkan Thörnqren](#) on 18 Nov 2002, 2:57 a.m.,
in response to message #3 by Dubois

If you have CF 26 and then BEEP it do not think it will help as that makes the HP41 silent. Any BEEP or TONE that will make a sound (SF 26 first) should make the high pitched sound go away. The high pitched sound is usually the result of garbage (non-zero) in the internal T register which used for making sound. Any normal beep/tone will put 0 in T when done. If that does not help, then you probably have a hardware problem. Some remove battery battery trick might help, if you are lucky.

Re: my 41C is making a high pitched beep?

Message #8 Posted by [Juergen Rodenkirchen \(GER\)](#) on 16 Nov 2002, 3:29 p.m.,
in response to message #1 by Dubois

Hi!

I have an at least similar "phenomenon" encountered on my HP-41C. This unit "sounds" a very high pitched tone when an arbitrary module is plugged into certain ports (contact problem?). So, if you have any module(s) installed, de-install it (them) and try again.

Regards, Juergen

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

i disassembled my 41cx, help!

Message #1 Posted by [David E](#) on 15 Nov 2002, 6:40 p.m.

I took off the cover to clean a few of the contacts with an eraser as they were corroding, but now all bolted up again, it doesn't work!! I have only 2 CPU board to keyboard interconnect, is this correct, or did I loose one? also does it matter what direction they are placed. I cant think of anything else I may have screwed up :(

any help is appreciated.

Thanks

Re: i disassembled my 41cx, help!

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 15 Nov 2002, 11:15 p.m.,
in response to message #1 by David E

Hi;

first of all, DON'T PANIC! Let's see what's going on.

You have the mainboard and the keyboard, so you have a fullnut HP41CX. What sort of connectors do you have between the mainboard and the keyboard? I know three different types of connectors and all of them go between these boards:

- i - one of them consists of two tubular polymer and very-thin-trails zebra connectors built with an isolating sort of tape;
- ii - the other consists of a pair of foam with not-so-thin-trails zebra connectors around them; in this case, the plastic separator built in the screw posts has four extensions, to guide the foam so it stays in position
- iii - the last one resembles a conductive polymer, but it has a lot of thin conductors that once fold will hardly connect the boards.

Silly reasoning: in the last two cases, the conductors may be placed in a bad position OR rotated, what will not allow both main- and keyboard to connect with each other. Would you check for this, if you have not already done it?

Also, the "pressure" that keeps both PCB's and the connector between them comes from two different points in two different assemblies:

- i - one that has two big nuts around the screw posts; these nuts are directly "screwed" around the post itself, and keep enough pressure so both PCB's can "talk" to each other;
- ii - the other uses the case screws to keep the physical pressure that maintain the contact between the two PCB's.

The best assy, for me, is the first one, because the nuts will keep the calculator working even when the case screws are not completely screwed. In the second case, if the threads of the PCB's posts are loose and the screws are failing to keep pressure, the calculator will often have contact problems.

Taking care with the posts is the best we can do; checking for cracks or any fatigue signal. Many techniques to rebuild these threads and the posts themselves were described by the collaborators in here. You should give us some info so we can focus on your particular solution.

Also, you may read (if you haven't already) [this article](#) because it contains descriptions about how to disassemble and reassemble an HP41CX. The method of soldering the two PCB's is effective and should work, but trying to keep the connector between them allows faster PCB's trading, when necessary.

I know this is more information only, but I'm waiting for a more detailed description of your 41CX's internals.

Success.

Re: i disassembled my 41cx, help!

Message #3 Posted by [David](#) on 15 Nov 2002, 11:33 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

thanks for the advice. I took some plastic washers from my other hp41C, and used them, and now it works. I about had a heart attack, as the CX was recently purchased. I don't know what the problem was, but it works now. It must have been the pressure. If this happens again, or frequently, perhaps I will just hard wire the thing, like the howto on this site says.

Thanks

Re: i disassembled my 41cx, help!

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 16 Nov 2002, 1:07 a.m.,
in response to message #3 by David

Hi, Dave;

it's always good reading this sort of news!

I'd wriote an e-mail about the subject below, but you never posted yours, so...

Hardwiring both PCB's may sound good, but try doing this ans a last-shot, no-way-out solution. Consider loosing the zebra connectors, breaking the posts in a way you cannot repair, corroded contacts... Well, I'm writing this all because I have another HP41C that I suspect that is ready to work, but I did not find the time to rebuild the very-thin-traill zebra connector that came with this 41C. It's a time consuming activity, and there are others not yet even started, you see?

Well, this is just an advice based on what I would do: try to recover withoput soldering.

If, by any reason, you need to hardwire the PCB's, success!

Best regards.

Re: i disassembled my 41cx, help!

Message #5 Posted by [Emmanuel, France](#) on 16 Nov 2002, 3:06 a.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)

I use to fix HP-41s. I think I'll write an article about that (another one because there's several).

For battery contacts, please GT0:

<http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/forum.cgi?read=23998>

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP48 and interface to boot computer?

Message #1 Posted by [HPunk \(Brazil\)](#) on 15 Nov 2002, 3:46 p.m.

I have a simple(486 DX2/50mhz, 8mb/ram) PC that I use just for a backup of my HP48. Is there any electronics project to boot a computer using an HP48 and/or my other computer? I want something like:

I send a command from my HP to the better PC, and the better makes the position of a "extension", piping all HP data to the 486, via a cable?

PS: the 486 is being used as a "dumb box", no keyboard/mouse. when I need I connect a cheap keyboard.

Best wishes from Brazil, HPunk

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

LED displays and your kitchen floor

Message #1 Posted by [John Garza \(3665\)](#) on 15 Nov 2002, 10:42 a.m.

I've heard for years that Future Wax was the way to go for clearing up fine scratches on models with LED displays. Well, tried it last night on a TI as a test and it looked horrible. Perhaps I didn't use enough; I applied it with a Q-tip. Some patches were smooth & shiny, others rough and slightly foggy. And yes, the plastic was cleaned thoroughly before application. Luckily, 409 spray cleaner strips the stuff without damaging the plastic underneath.

Perhaps if I flood the plastic with a little lake of the wax and let it dry, the surface may be more uniform?

Anyone done this and have it turn out ok?

-John

Re: LED displays and your kitchen floor

Message #2 Posted by [Emmanuel, France](#) on 15 Nov 2002, 10:46 a.m.,
in response to message #1 by John Garza (3665)

I'm an astronomer amateur, HP user and scale modeller too. For clearing up fine scratches on models with LED displays (sic), I use tooth paste. Really efficient! Yours.

Re: LED displays and your kitchen floor

Message #3 Posted by [Victor](#) on 15 Nov 2002, 1:18 p.m.,
in response to message #1 by John Garza (3665)

I have had good luck using Brasso to polish out fine scratches.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Printer compatibility for the HP27S

Message #1 Posted by [Armando Blancas](#) on 14 Nov 2002, 12:26 p.m.

I've recently seen the HP 82240B IR printer offered on ebay and I wonder if it's compatible with my 27S. In case it's not, I'd appreciate advice as to what printer to get for it.

Re: Printer compatibility for the HP27S

Message #2 Posted by [Christoph Giesselink](#) on 14 Nov 2002, 1:47 p.m.,
in response to message #1 by Armando Blancas

Yes, it is. The HP82240B is fully compatible to the HP82240A printer mentioned in the HP27S user manual.

The HP48 use a special ESC-sequence for the HP82240B printer to change from the HP27S compatible Roman8 font to the ECMA94 font used by the HP48.

Christoph

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

IN SEARCH OF BRIAN TORKOWSKI

Message #1 Posted by [BOB ALLISON JR](#) on 13 Nov 2002, 9:23 p.m.

HAS ANYONE HEARD FROM HIM OF LATE? TEXAS AGGIE. CORP OF CADET MEMBER.

HE SEEMS TO HAVE DISAPPEARED.

PLEASE LET ME KNOW.

THANKS.

BA

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Repairing an HP-41CX

Message #1 Posted by [fred hochrein](#) on 13 Nov 2002, 8:24 p.m.

Trying to contact Stefan Vorkoetter who wrote article "Repairing an HP-41CX", dated April 4, 2002.
Need his help with a repair. Fred Hochrein

Re: Repairing an HP-41CX

Message #2 Posted by [Emmanuel, France](#) on 14 Nov 2002, 11:27 a.m.,
in response to message #1 by fred hochrein

Hello,
I have some experience in fixing HP-41s. What's wrong with yours?
Sincerely yours. Regards from Normandy.

Re: Repairing an HP-41CX

Message #3 Posted by [Emmanuel, France](#) on 15 Nov 2002, 1:04 a.m.,
in response to message #1 by fred hochrein

Dear Fred, For battery contacts, I use electrically conductive paint for car rear window defroster... You don't need to be good in electronic. Sincerely yours. Best regards from Normandy. Emmanuel

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Scientific American adverts and articles

Message #1 Posted by [Gordon Dyer](#) on 13 Nov 2002, 6:05 p.m.

Can anyone email me scans of the Scientific American adverts or articles referred to in the museum books page?

<http://www.hpmuseum.org/book.htm>

Thanks, Gordon Dyer

Re: Scientific American adverts and articles

Message #2 Posted by [Katie](#) on 14 Nov 2002, 2:26 a.m.,
in response to message #1 by Gordon Dyer

I have the September 1977 issue of Scientific American, but there's nothing in it about HP calculators that I can find. And the usual HP calculator ad from back then is conspicuously absent in this issue, most likely because there's a big TI ad for their 58 and 59. There are some small ads selling HP calculators, but these just have prices and there's one American Express ad with an HP-80 in it.

I don't know why Dave cited this issue.

Re: Scientific American adverts and articles

Message #3 Posted by [Gordon Dyer](#) on 14 Nov 2002, 7:37 p.m.,
in response to message #2 by Katie

Katie, thanks for checking the magazine, I guess there are others with the big ads in.

If anyone else has a Scientific American with informative HP calculator adverts I would be very interested in a scan.

Did you see these?

Message #4 Posted by [Jim L](#) on 14 Nov 2002, 7:53 p.m.,
in response to message #3 by Gordon Dyer

<http://www.hpmuseum.org/adverts/adverts.htm>

I think these are the ones he means.

Re: Did you see these?

Message #5 Posted by [Gordon Dyer](#) on 15 Nov 2002, 5:11 p.m.,
in response to message #4 by Jim L

Thanks for pointing out the museum advert page, I should have found it myself! A lot of the things I was looking for are there, but I also hoped to see the original scans from Sci Am.

Re: Scientific American adverts and articles

Message #6 Posted by [barry](#) on 16 Nov 2002, 5:44 p.m.,
in response to message #1 by Gordon Dyer

just now bought the February '87 issue of Scientific American; inside front cover and first page is a two part advertisement for the HP28C; scanning in a little bit. how do i post the darn jpg's here? i suppose i have to write HTML code in my post? either that or i just post a link to my webpage (but i would rather it was a hyperlink than a mere text link). by the way, i passed on another edition of Scientific American that had a two page ad on the "HP Portable"; what model was this, and should i go pick this up for the museum folks? looks more like a PC than any calc oriented HP. tnx, barry carson city, nv

Re: Scientific American adverts and articles

Message #7 Posted by [barry](#) on 16 Nov 2002, 8:43 p.m.,
in response to message #6 by barry

here is page 1 of the two page ad; fairly large, but keeps the detail intact; please copy now!
(picture unavailable)

page two of the HP28C scan from S.A.

*Message #8 Posted by [barry](#) on 16 Nov 2002, 8:49 p.m.,
in response to message #7 by barry*

here is page two of the HP28C ad. (picture unavailable)

anyone desiring these scans get them now!

*Message #9 Posted by [barry](#) on 18 Nov 2002, 2:09 p.m.,
in response to message #8 by barry*

i will be pulling these two scans off my page soon - get them now if you want them!
tnx, barry carson city, nv

Re: Scientific American adverts and articles

*Message #10 Posted by [Gordon Dyer](#) on 17 Nov 2002, 8:15 a.m.,
in response to message #6 by barry*

Great scans Barry! Thanks for posting them, and I hope they are of interest to many others too.

If anyone else has more then post them in here for us all...

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP41 Unit conversion program?

Message #1 Posted by [Peter Greb](#) on 13 Nov 2002, 12:04 p.m.

As the subject says, I'm looking for a unit conversion program like in the 48 series. Is something like this implemented in some ROM? Or is there code for this available somewhere?

Thanx in advance, Peter...

Re: HP41 Unit conversion program?

Message #2 Posted by [Emmanuel, France](#) on 13 Nov 2002, 12:18 p.m.,
in response to message #1 by Peter Greb

I improved one for my Calc41 environment on PC. Which unit would you like to use? It's easy to write it.

Re: HP41 Unit conversion program?

Message #3 Posted by [David](#) on 13 Nov 2002, 1:55 p.m.,
in response to message #2 by Emmanuel, France

metric to metric would be good for me! (i can never remember the conversions)

Re: HP41 Unit conversion program?

Message #4 Posted by [Mike \(Stgt\)](#) on 13 Nov 2002, 4:19 p.m.,
in response to message #1 by Peter Greb

If you may use ROMs (in a RAMBOX or in an emulator) use the Thermal Transport ROM or the Petrol ROM.

Ciao.....Mike

Re: HP41 Unit conversion program?

*Message #5 Posted by [Juan J](#) on 13 Nov 2002, 9:21 p.m.,
in response to message #4 by Mike (Stgt)*

The unit conversion routines are implemented in both the Petroleum Fluids Pac and the Thermal & Transport Science Pac. The former has, in my opinion, a much better implementation: you just enter the units to be converted separated with a dash in the alpha register and then execute the CON function. However, it is written in machine language and cannot be copied unless you have a ROM box or an Hepax module. Same thing for the Thermal Pac.

Petroleum Fluids Pacs appear every now and then in eBay. Thermal & Transport Science Pacs are much rarer.

Re: HP41 Unit conversion program?

*Message #6 Posted by [Peter Greb](#) on 15 Nov 2002, 10:35 a.m.,
in response to message #5 by Juan J*

Hmm, it's just what I suspected: Try to get a suitable ROM. Well, now I at least know WHAT to look after. German ebay's not flooded with ROMs but maybe I will have some luck.

Thanx, Peter...

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Time for an appeal to HP - free the ROM of the HP-42S!?

Message #1 Posted by [Erik Ehrling \(Sweden\)](#) on 12 Nov 2002, 2:23 p.m.

With not the slightest sign from HP putting the HP-42S back in production again (or what would be even better, creating a HP-42SII) wouldn't it be a fair treatment to the members of the HP community to lift the copyright restriction on the HP-42S ROMs?

Just think of the works of Christoph Giesselink (and Hrastprogrammer) and how much easier it would be if these emulators could be distributed with the ROMS...

So to the main question: Does anybody out there know who at HP that is responsible for these kind of questions? And isn't it time for an appeal to HP - to free the ROMs of the HP-42S?

Regards, Erik

Re: Time for an appeal to HP - free the ROM of the HP-42S!?

Message #2 Posted by [Jim L](#) on 12 Nov 2002, 2:53 p.m.,

in response to message #1 by Erik Ehrling (Sweden)

I've talked to a couple of people who have made similar requests and the answer has been "no". I believe that no one is really currently "in charge" of this which is part of the problem. The "no" is sort of a default answer.

Dave told me a while back that he was told he could ask again after the HP-Compaq merger was fully sorted out but it would be "hard".

Re: Time for an appeal to HP - free the ROM of the HP-42S!?

Message #3 Posted by [Jonathan Busby](#) on 12 Nov 2002, 3:22 p.m.,
in response to message #2 by Jim L

Uh, HP released all the 48 ROM revisions to the public two years ago. With this fact in mind and the fact that there is **absolutely no reason** releasing the ROMs to calculators that have been discontinued for 7 years or more could harm HP (on the contrary, it could only benefit them), it is beyond me why HP hasn't done this. Even more perplexing is the fact that they have **never** come up with any plausible reason (or any reason at all!) why they shouldn't. I seriously doubt HP's profit would even drop a micro-penny if everyone on earth instantly came into possession of all the HP calc ROMs.

Please HP, wake up and grow a brain. Let's not let the draconian and irrational attitudes of the "old HP" hamper the future development of the calculator community and ultimately your profit.

Jonathan

Remove the random permutation of "NOSPAM" from my e-mail address before replying.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: HP calculator news

Message #1 Posted by [Scott Pritchard](#) on 12 Nov 2002, 7:30 a.m.

I just checked Warren works for me, try using google for your search and put in hewlett packard press releases 2002, go in on one of those headings and check October 31. Let me know how you go Scotty.

Re: HP calculator news

Message #2 Posted by [Jan \(Switzerland\)](#) on 12 Nov 2002, 12:20 p.m.,
in response to message #1 by Scott Pritchard

OK, a new distributor in a low cost country to sell the shrinking family of outdated calcs.....
((%-\\

Where do I read about a new, exciting, innovative product. A practical HP calculator, based on soft-key design, HP like quality hardware, which can easily be loaded via Internet with different types of user oriented software according to the individual needs. Engineering, Programming, Physics, Medical, Statistical, Biology... A PC programming tool to develop even more applications and share them with the others. Of course the new HP is not cheap, but we, the HP friends are read to order. And we gladly accept the new distribution.

Jan

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Corrected link, it isn't "We're sorry" a great message from HP about their calculators? :-)

Message #1 Posted by [Gene](#) on 12 Nov 2002, 7:24 a.m.

<http://www.hp.com/hpinfo/newsroom/press/2002/021031a.html>

This is the same thing we saw reported 10 days ago.

Gene

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP calculator news

Message #1 Posted by [Scott Pritchard](#) on 12 Nov 2002, 6:43 a.m.

This bit of news may be of interest. Check www.hp.com/hpinfo/newsroom/press/2002/021031.html
Regards Scotty.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP prices on Ebay: List online

Message #1 Posted by [Holger Weihe](#) on 12 Nov 2002, 6:06 a.m.

Hello,

over the last weeks I monitored the sales prices for HP-Calculators on the german ebay (www.ebay.de). I put the results on my homepage. So if you are interested, you find the average prices and price ranges for various models at:

<http://www.hweihe.de/hp/preistabelle.htm>

Greetings,

Holger

Re: HP prices on Ebay: List online

Message #2 Posted by [Glen Kilpatrick](#) on 12 Nov 2002, 10:41 a.m.,
in response to message #1 by Holger Weihe

Thank you, most interesting. Euro-to-USD conversion doesn't matter to me (the shipping from Germany would probably swamp any fluctuations), but I was fascinated to see the relationships, the relative pricing. For example, many on the Forum slam the 49G (I'm an anti-fan myself), yet it commanded a price well above any of the 48 series.

:)

Re: HP prices on Ebay: List online

Message #3 Posted by [David Smith](#) on 12 Nov 2002, 4:24 p.m.,
in response to message #1 by Holger Weihe

Interesting that the 41C sells for more than the 41CV and the HP21 for more than the HP25. There were enough '41 sales to be more meaningful than 21/25 sales though.

Re: HP prices on Ebay: List online

Message #4 Posted by [Holger Weihe](#) on 13 Nov 2002, 5:58 a.m.,
in response to message #3 by David Smith

Normally the 41C sells for lower prices than the CV or CX. But someone bought a 41C New-in-Box for 330 Euro. That rises the average price a lot. Without this auction the price would be around 60 Euro.

Holger

Re: HP prices on Ebay: List online

Message #5 Posted by [Christoph Giesselink](#) on 12 Nov 2002, 5:59 p.m.,
in response to message #1 by Holger Weihe

Really nice, please continue.

It's also funny to see the auction of a HP27S I bought two weeks ago. It wasn't really cheap, but it was the only way to get the HP27S ROM image. BTW, the HP27S and the handbook are in excellent condition. So I put the calculator face down onto a scanner and made a nice skin fitting perfectly on a 1024x768 desktop. ;-)

Regards,

Christoph

Re: HP prices on Ebay: List online

Message #6 Posted by [Tony Copley](#) on 13 Nov 2002, 11:11 a.m.,
in response to message #1 by Holger Weihe

Nice job, thanks for the information. The graphical representation is very informative. Last November 10th, there was a post from "HP92 Owner", <http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/archv006.cgi?read=12531>. They mentioned they had documented Ebay sales for the last 3.5 years!

Re: HP prices on Ebay: List online

*Message #7 Posted by [Holger Weihe](#) on 14 Nov 2002, 4:43 a.m.,
in response to message #6 by Tony Copley*

3,5 years is really a long time! Would be interesting to see his results. Let's see how long I will keep up the tracking...

By the way: I hope to be able to make an update today.

Holger

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Repair 82033 Battery Pack?

Message #1 Posted by [Philip](#) on 11 Nov 2002, 10:14 p.m.

I have several 82033 battery packs that are used in my peripheral devices (Tape, Printer...). My guess is they have gone bad. When plugged in, the transformer gets very hot and the device gets warm and they don't hold a charge. So, I'm assuming they are bad. I reviewed the section on Batteries that Katie posted. There is part# (P233-L022) listed for DigiKey. Their website lists this as a "Value-Add" item or something they build. Does this mean the pack comes complete with all 4 cells soldered together ready to be placed in the plastic holder? Also, is there anything I should about the dismantling of the 82033 case.

Thanks in advance.

Re: Repair 82033 Battery Pack?

Message #2 Posted by [Katie](#) on 11 Nov 2002, 11:59 p.m.,
in response to message #1 by Philip

The Digikey part number that I mentioned does indeed come pre-assembled but it's not quite ready to use as is. Although the 4 sub-C batteries are connected in series (via welded tabs) the V-shaped battery pack contacts need to be removed from the old 82033 and soldered to the tabs at the end of the assembly that you buy from Digikey. This is a pretty simple soldering procedure, but it has to be soldered for a good contact.

Getting the old cells out of the black plastic frame of the 82033 pack is pretty straightforward. You'll need a good, strong knife, I like to use a heavy duty X-acto knife for this. Cut deeply into each seam of the 4 corners and cut along the seams on both small ends of the pack (the seams along the long sides of the pack are not glued together). When you've cut deep enough into these places, insert the knife into one of the corner seams and give it a twist, the pack should come apart -- if not, cut deeper into those same places.

After soldering the V-shaped contacts onto the new batteries, I like to close up the plastic frame with Duco Cement and clamp it until its set. This holds it together well enough and makes it easy to open in the future.

The only potential complication with using the Digikey replacement batteries is that some of the very oldest 82033 packs have the V-shaped contacts attached in the middle of the pack instead of at the ends. If this is the case there are several options: (1) take apart the Digikey pack and reconnect it like the original HP pack, (2) make your own V-shaped contacts that are long enough to reach down from the end of the battery pack, (3) add a wire from the end of the battery pack to the middle to connect with the V-shaped contact. None of this will make any sense unless you have one of these packs, but they are rare, so don't worry.

Re: Repair 82033 Battery Pack?

*Message #3 Posted by [Philip](#) on 13 Nov 2002, 3:14 p.m.,
in response to message #2 by Katie*

Thanks for the help and advice. I have had no problem disassembling the plastic case so I'll be ordering the battery pack and attempting to insert it. If the solder doesn't hold look into having it welded.

Re: Repair 82033 Battery Pack?

*Message #4 Posted by [David Smith](#) on 12 Nov 2002, 4:18 p.m.,
in response to message #1 by Philip*

If you have a Batteries Plus or Batteries, Etc (or similar type of store) near you they can rebuild the pack for a quite reasonable fee (and they do all the slicing and dicing). Also they will spot weld the cells and contacts together which forms a better connection than soldering and does not risk damaging the cells with too much heat.

Re: Repair 82033 Battery Pack?

*Message #5 Posted by [Glen Kilpatrick](#) on 13 Nov 2002, 12:13 a.m.,
in response to message #4 by David Smith*

THANKS! I've been looking at Katie Wasserman's wonderful article on "Replacement Nicads for HP Battery Packs" (<http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/articles.cgi?read=254>), wondering how I was going to handle the dis/reassembly of an 82052A (for a friend's 19C Sting), and this looks like the much better alternative (<http://www.batteriesplus.com/> will tell you where your nearest store is, and for me that's Citrus Heights, in NE Sacramento).

gk :)

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Emu28, the HP28C emulator

Message #1 Posted by [Christoph Giesselink](#) on 11 Nov 2002, 6:44 p.m.

Emu28, a new emulator emulating the HP18C and HP28C hardware. Emu28 for Win32 base on the famous Emu48 emulator and is published under the GPL. You can find it on my [homepage](#).

This emulator can't emulate the HP28S, because the HP28S use a different hardware.

Like all my distributed emulators, Emu28 comes _without_ ROM images. I have no license to distribute them. Look at the Emu28 page about the abilities to get an image form a real HP28C please. I won't answer any questions about sending a ROM image.

Please remember, I made this emulator in my free time and I don't like giving support.

I'm glad when someone of you find a better way to make a ROM image upload. If you find a better way, please send me the details that I can publish them for others.

Christoph Giesselink

Re: Emu28, the HP28C emulator

Message #2 Posted by [Erik Ehrling \(Sweden\)](#) on 12 Nov 2002, 2:01 a.m.,
in response to message #1 by Christoph Giesselink

Will this free your time to work on the HP-42S emulator? :-) (hint, hint...)

/Erik

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

CAT 2 on a HP-71B?

Message #1 Posted by [Matthias Wehrli](#) on 11 Nov 2002, 4:26 p.m.

Hi. does anybody know, if there is a command like the HP41 "Cat 2" on a HP71B? I have a lot of Modules and EMROMS where I do not know the functions... I only need the topic....

Matthias

Re: CAT 2 on a HP-71B?

Message #2 Posted by [Emmanuel, France/Frankreich](#) on 11 Nov 2002, 4:47 p.m.,
in response to message #1 by Matthias Wehrli

Use function CAT:PORT(n)

Re: CAT 2 on a HP-71B?

Message #3 Posted by [Emmanuel, France/Frankreich](#) on 11 Nov 2002, 5:32 p.m.,
in response to message #1 by Matthias Wehrli

Your HP-71B has more than 16K RAM which port number is 0. You can generate four 4K 'modules' inside: FREEPORT(0) FREEPORT(0.01) FREEPORT(0.02) FREEPORT(0.03) Each front port has its own number: 1, 2, 3 or 4 Card reader port number is 5. For instance in order to read the ROM cat of an HHP 32K Eprom module plugged instead of the card reader: CAT:PORT(5) or to display the cat of a 32K ROM in the first left front port: CAT:PORT(1) and so on ...

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP49g Complex Numbers

Message #1 Posted by [Jason](#) on 11 Nov 2002, 4:16 p.m.

Does anyone know how to insert complex numbers into the HP 49g? The old HP's had an angle key on the space key where you could just type in the magnitude, hit the angle key, and type in your reference angle. I really really need to figure this out so I can work with phasors. Any help would be greatly appreciated.

Jason

Re: HP49g Complex Numbers

Message #2 Posted by [Emmanuel, France](#) on 11 Nov 2002, 4:54 p.m.,
in response to message #1 by Jason

Set Flag 27 and use menu of cmds given by (red right shift) CMPLX

Re: HP49g Complex Numbers

Message #3 Posted by [Jason](#) on 11 Nov 2002, 6:55 p.m.,
in response to message #2 by Emmanuel, France

I need to enter the complex number with a magnitude and an angle, (ie polar form), not rectangular form. Does anyone know how I can do this?

Re: HP49g Complex Numbers

Message #4 Posted by [James M. Prange](#) on 11 Nov 2002, 7:27 p.m.,
in response to message #1 by Jason

On the 49G the angle symbol is ALPHA RightShift 6.

Regards,
James

Re: HP49g Complex Numbers

Message #5 Posted by [Jason](#) on 11 Nov 2002, 7:51 p.m.,
in response to message #4 by James M. Prange

When I use the alpha rightshift 6, the thing still doesnt work... Found something in the manuel said to type in

[3 (alpharightshift6)4] and in rectangular mode, it should give

[2.99269 .20926]

but, it really gives

[0 0]

Does anyone know what is wrong? I really hate this calculator by the way.

Re: HP49g Complex Numbers

Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 11 Nov 2002, 8:36 p.m.,
in response to message #5 by Jason

Hi;

the "[" and "]" are used to enter nth. dimesional vectors. You should use "(" and ")" as delimiters for complex numbers.

It will work.

Cheers.

Re: HP49g Complex Numbers

Message #7 Posted by [Jason](#) on 11 Nov 2002, 9:19 p.m.,
in response to message #6 by Vieira, Luiz C. (Brazil)

When I use "(" and ")", it did the same thing to me... (0,0)

I'm frustrated...(HP49g Complex Numbers)

*Message #8 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 12 Nov 2002, 12:20 a.m.,
in response to message #7 by Jason*

Hi;

I tried a lot of flag settings and some CAS and related settings (as far as I could relate myself), but I simply could not simulate such situation.

In the 48 series, being the HP49G included, 2D vectors and complex numbers have different delimiters -[] against ()- and have some different restrictions on some operations. If you edit [2 2], Matrix Writer is invoked; if you edit (2 2), command line edit tools become available. I thought these differences would lead to different input procedures. Wrong.

I cleared flag -103 (real mode) and no change: (4 (angle-symbol)3) returns 93.9848,0.3486). I set Exact Mode and Approximate Mode and I got the same results.

I am a lot curious to know what's going on. This seems to me as a lot easy to be checked and too compromising to be a version failure, I don't know. (type VERSION [ENTER] to check for the O.S. version).

I'm feeling as being teased, challenged!

Hope someone finds the answer, because I'm gonna keep delving into the 49's guts...

Re: I'm frustrated...(HP49g Complex Numbers)

*Message #9 Posted by [James M. Prange](#) on 12 Nov 2002, 3:05 a.m.,
in response to message #8 by Vieira, Luiz C. (Brazil)*

I cleared flag -103 (real mode) and no change: (4 (angle-symbol)3) returns 93.9848,0.3486).

Huh? Ok, "93.9848,0.3486}" must be a typo for "(3.9848,0.3486)". But even then, I expect that you must've entered (4 (angle-symbol) 5).

Anyway, getting [0. 0.] or (0.,0.) as a result does indeed seem to be too drastic an error to be accounted for by using an old "ROM" revision. For what it's worth, if your ROM revision is lower than 1.19-6, then it's

worthwhile upgrading it, although I doubt that it would solve this particular mystery. Visit http://www.epita.fr/~avenar_j/hp/49.html for the latest ROM and a summary of changes that have been made since 1.10.

Jason, am I correct in assuming that you get these same results no matter what numbers you use? The only way you should get a result of [0. 0.] would be to enter a magnitude of 0 (or maybe something very close to zero), and I find it hard to imagine any flag setting that would give you that result when the magnitude is 3.

If you find out what's going wrong, please let us know. This is the sort of thing that tends to keep me awake, and even when I fall asleep it's liable to sneak into my dreams.

Regards,
James

You're right...

*Message #10 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 12 Nov 2002, 3:19 a.m.,
in response to message #9 by James M. Prange*

... I mistyped the "(" for "9" (the [SHIFT] key in my keyboard is failling...). Also, the (4 , 5°) is correct, instead of (4 , 3°); and I try to track all errors before posting...

Thanks, James.

Re: You're right...

*Message #11 Posted by [James M. Prange](#) on 12 Nov 2002, 3:44 a.m.,
in response to message #10 by Vieira, Luiz C. (Brazil)*

...and I try to track all errors before posting...

Me too, but I wrote "...when the magnitude is 3." where I should've written "...when the magnitude is 4.", so you're certainly not alone.

What's written is not necessarily the opinion of the author.

Regards,
James

Re: You're right...

Message #12 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 12 Nov 2002, 5:10 a.m.,
in response to message #11 by James M. Prange

So, let's both say to ourselves "Welcome to world of humans", ahn?

(I'm somewhat tired... I didn't sleep any second this last night... and writing soft stuff is relaxing, does not demand so much "energy". Sorry and thank you, guys.)

Re: I'm frustrated...(HP49g Complex Numbers)

Message #13 Posted by [Jim L](#) on 12 Nov 2002, 2:48 p.m.,
in response to message #9 by James M. Prange

I have also been trying to reproduce this and haven't been able to.

I have a feeling that Jason is doing something different from what I'm reading here.

Re: HP49g Complex Numbers

Message #14 Posted by [James M. Prange](#) on 11 Nov 2002, 9:31 p.m.,
in response to message #5 by Jason

I haven't been able to duplicate your results. With the 49G in rectangular and degrees mode, [3 alphas rightshift 6] ENTER gives me [2.99269215078 .209269421232].

Does the ALPHA RightShift 6 sequence at least give you the angle symbol in the command line?

Which ROM revision are you using?

Maybe some flag setting?

Regards,
James

Re: HP49g Complex Numbers

Message #15 Posted by [Jason](#) on 11 Nov 2002, 10:01 p.m.,
in response to message #14 by James M. Prange

alpharightshift6 gives me the correct symbol.

I dont know how to check my ROM version, and I have flag 27 checked.

I am also in rectangular and degree mode.

I have flag 27 checked and I have no idea if there should be another flag checked, the manual doesnt specify anything.

Thanks for your help,

Jason

Re: HP49g Complex Numbers

Message #16 Posted by [Jason](#) on 12 Nov 2002, 7:59 p.m.,
in response to message #15 by Jason

Ok,

I think I know what is wrong. When I have it in RPN, it works, however, it will not work in Algebraic mode. Does anyone know how to do this in algebraic mode or is everyone a hardcore RPN? I am used to TI's, but when I was a freshman, they told me that I needed the HP... they lied.

A request: (was HP49g Complex Numbers)

Message #17 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 12 Nov 2002, 10:48 p.m.,
in response to message #16 by Jason

Hi;

do you have the means to generate a backup and send me? I think this is gonna be the last shot: I'm backing-up my HP49G's memory and I'll load yours on mine. I set mine to algebraic and it works perfectly fine, too.

I must confess I'm an RPN addicted, but I have NOTHING against algebraic-based operating systems or languages. It's a mater of preference, only. I

program on TCL/TK (not a "language", instead a "tool command" language), C++, Pascal and I gave my first steps on programming with FORTRAN. All of them demand algebraic syntax.

Please, I'm anxiously waiting to "see" what's going on your HP49G.

Cheers.

Re: A request: (was HP49g Complex Numbers)

*Message #18 Posted by [Jason](#) on 12 Nov 2002, 11:32 p.m.,
in response to message #17 by Vieira, Luiz C. (Brazil)*

Sorry dude, I dont have a cable to go to my computer. I have the 1.0 version of the ROM for whoever was asking. Cant really update that either w/o the cable. I guess I am just stuck converting back and forth, I will live I guess. Thanks to everyone who tried to help, I must have a weird setting or something.

A guess: (was HP49g Complex Numbers)

*Message #19 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 12 Nov 2002,
11:56 p.m.,
in response to message #18 by Jason*

Hi, Jason;

I'm still intrigued. What about a Memory Lost? Do you have any sort of data you can't loose?

If you wanna try, press

[ON] [F1] [F6] together;
release [F1] [F6];
release [ON]

I did not try it in my HP49G, but in the 48 series, this leads to:

Try to recover memory?

[YES]

[NO]

Select [YES] and star over. Let's keep talking about the Hp49G; I'm sure you'll have good surprises from it. Algebraic or RPL style...

Cheers.

Re: A guess: (was HP49g Complex Numbers)

*Message #20 Posted by [Jason](#) on 13 Nov 2002, 12:51 a.m.,
in response to message #19 by Vieira, Luiz C. (Brazil)*

Whenever I do the ON F1 F6 thing, it goes into a cold boot or something. It gets stuck in an endless cycle. I think the manual said it was a self check, but I let it run for about 10 minutes and it kept cycling through. I had to do a warm reboot to stop it.

I have no idea what is going on.

Re: A guess: (was HP49g Complex Numbers)

*Message #21 Posted by [James M. Prange](#) on 13 Nov 2002,
1:43 a.m.,
in response to message #20 by Jason*

Hi Jason,

To get to the "Try To Recover Memory?" screen, release the F6 key before the F1 key. If you release the F1 key before the F6 key, then (as you found) it goes into a self-test sequence, just as if you had used the ON with F6 key combination.

As for ALG mode, I don't know much about it; it seems awfully complicated to me. It could be that trying to use the 49G in ALG mode is just as difficult as trying to use a TI. But I tried entering a complex number and a vector in ALG mode, and it worked just fine. I also tried it on a 49G with the old 1.18 ROM (in both RPN and ALG modes), and didn't see any difference there.

I highly recommend getting a serial cable to connect your 49G to your PC. Note that you don't need to buy the full "Connectivity Kit"; the software part is freely available at,

among other places, <http://www.hpcalc.org/>. This will allow you not only to upgrade your ROM, but to download software (see what's available at hpcalc.org), backup your calculator to the PC, and develop your own programs on the large screen of your PC.

Come to think of it, I got a free "Connectivity Kit" (a CD-R of software, serial cable, and adapter for the 48 series), the 49G AUG, and the newer 49G Pocket Guide from HP by calling the support number in the back of the User's Guide. I don't know if HP is still doing that, but it's probably worth a try.

Regards,
James

Re: A guess: (was HP49g Complex Numbers)

*Message #22 Posted by [James M. Prange](#) on 13 Nov 2002, 2:04 a.m.,
in response to message #21 by James M. Prange*

PS:

In the event that HP isn't so generous anymore (or in your country), it shouldn't be difficult to make a "do-it-yourself" 49G serial cable, especially if you already have the 49G-to-49G cable and the adapter to fit the 48 series.

If you also have a 48 series serial cable, you can just jumper the two together. If you don't have a 48 series cable, you could use some other serial cable (or connector); an old serial mouse might be a good source.

Search <http://www.hpcalc.org/> for things like "serial cable" or "I/O" for some pointers on making your own cable.

Regards,
James

Re: A guess: (was HP49g Complex Numbers)

Message #23 Posted by [Jason](#) on 15 Nov 2002, 12:14 a.m.,

in response to message #22 by James M. Prange

I reset the memory like you said James, and it works now. Thanks a lot, really helped. I used a TI all through HS, so the HP in algebraic isnt such a stretch for me. Thanks everyone, you all helped a lot.

Jason

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Very expensive HP support

Message #1 Posted by [Guillermo Castares](#) on 11 Nov 2002, 2:12 p.m.

Hello.

I live in Buenos Aires - Argentina. I'm a HP and some others calculators collector. You can see my little collection here: <http://ar.geocities.com/casta1967/calculadoras/index.htm>

Recently I realized that my HP-48SX doesn't work anymore. It have been stored without batterys since year 2000. But now it simply doesn't turn on.

I contacted the customer support center of HP Argentina, and all they can offer me are: 1) that I throw it away and buy a new HP-48GX with the best dealer I could find. 2) they can replace the calculator (with a HP-48GX) but the price is more expensive than the price of a new one.¿!?

¿Is this the normal HP support behavior? ¿Is it the same in your country?

Regards, Guillermo Castarés

What do you mean

Message #2 Posted by [Mike](#) on 11 Nov 2002, 2:35 p.m.,
in response to message #1 by Guillermo Castares

Do you think that HP or any consumer electronics company actually repairs these? It is always cheaper to replace a model with something else.

The labor cost alone would be more than the cost of a new item. With any repair, you need support. Testing, QA, etc. Why would anyone bother to repair these?

Re: What do you mean

Message #3 Posted by [Guillermo Castares](#) on 11 Nov 2002, 3:15 p.m.,
in response to message #2 by Mike

Thanks for your answer. I understand that production costs could be cheaper than the REPAIR work. But my question is: Is normal that the REPLACE price be greater than the price of a new item? In this case: What is the purpose of the "replacing center"? (Nobody will replace a damaged item, because you will save money if you buy a new one!)

(Sorry, my english isn't very good).

Guillermo

Re: What do you mean

Message #4 Posted by [Ernie Malaga](#) on 11 Nov 2002, 3:52 p.m.,
in response to message #2 by Mike

Mike:

Sometimes they do (or, at list, did) perform repairs. Back in the '70s I often visited the local HP representative in Lima, Peru, and they had several technicians fixing calculators -- both desktop and handheld.

Of course that was 25 years ago. Things change.

-EM

Extremely expensive HP 'repair' cost

Message #5 Posted by [Raymond Hellstern \(Germany\)](#) on 11 Nov 2002, 5:27 p.m.,
in response to message #4 by Ernie Malaga

Hi,

a few years ago I asked HP for the repair costs for a HP 5MB Flash card (HP F1018A). The man on the phone said something about 100-120 DM. I said, ok, let's do it.

(You know our old currency DM (Deutsche Mark) was about half an Euro)

A while later HP Germany sent me a 'repair' precalculation of more than 1600 DM !!!

And to top this, even the precalculation should cost me 125 DM !

You understand that I was very upset.

I told them that I could buy ten new flash cards of greater capacity for that price. They said the cost was calculated on the last available price for that card, which was six years old.

I wondered how brainless those people were.

Finally, after some more telephone calls, I cancelled the repair order and got them to take back their invoice for the precalculation. If I find the bill again, I could make a scan for the interested...

Most people I know at HP are very nice, I lent the HP Hannover site a bunch of my HP machines to display them behind glass in their entrance area many years ago (they're still there;-).

But I don't think I ever try to use the official HP service again.

Raymond

Re: Very expensive HP support

Message #6 Posted by [eddie](#) on 11 Nov 2002, 3:08 p.m.,
in response to message #1 by Guillermo Castares

dear mitch unfortunately I really think that is a normal behaviour from any dealer in anything in this world, I am leaving in switzerland and I do not expect anything better. eddie

I recently tried to get a VCR repaired

Message #7 Posted by [Jim L](#) on 11 Nov 2002, 3:19 p.m.,
in response to message #1 by Guillermo Castares

They wanted \$125 up front before they would take it apart and give me an estimate. The "estimate fee" would be refunded if I decided to go through with the repair. The "estimate fee" was already more than a replacement would cost.

That's the way mass produced consumer electronics are these days. They cost more to fix than to manufacture. There's much less labor on an assembly line than in a repair shop.

Re: Very expensive HP support

Message #8 Posted by [Emmanuel, France/Francia](#) on 11 Nov 2002, 3:26 p.m.,
in response to message #1 by Guillermo Castares

It's a rip-off indeed!

May I help you?

I recently cannibalized 2 hp-48s to make one.

Disassembling HP-48s is no bed of roses!

Re: Very expensive HP support

Message #9 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 11 Nov 2002, 3:40 p.m.,
in response to message #1 by Guillermo Castares

Ola, Guilherme; como estás?

I just want to know what did you do beyond replacing the batteries. I know this is not the subject, but have you tried the Hardware RESET? It's achieved by using anything like a straight paper clip (or one very paper clip, unfolded) and insert it in a small hole in the back of the calculator, under the upper-left rubber feet (facing the back of the calculator). There is a small "R" printed in there, and you can find instructions for these procedures in the Owner's Manual.

Back to the subject: I had my HP15C replaced by a new one after the one-year warranty (1984). I paid about 40% of the price of a new one at that time. My old HP15C was left there, and the new one is still with me (~18 years later). I am surprised with the fact you'll have to pay more money you'd spent with a new unit to replace the old one. Nothing about your particular case, but if the calculator is not working anylonger, buy a new one and keep the SX as a spare for replacement (LCD, battery cover and contacts, internals...) OR sale it as a replacement, too. Not a solution, but what else to do... Why not to try Emmanuel's offer?

Success!

Re: Very expensive HP support

Message #10 Posted by [Guillermo Castares](#) on 12 Nov 2002, 8:37 a.m.,
in response to message #9 by Vieira, Luiz C. (Brazil)

Thanks you all. At least now I know I'm not alone in this world! The things I tried were those in the Owner's Manual: 1) Put fresh batteries. 2) Press "ON" and "+" to increase display contrast. 3) Press "ON" and "A" and "F" to do a Reset. My manual do not make any reference to "Hardware reset". I tried it yesterday as Luiz explained it, but the calc seems to be definitively dead.

Guillermo

Re: Very expensive HP support

Message #11 Posted by [Emmanuel, France/Francia](#) on 12 Nov 2002, 2:22 p.m.,
in response to message #10 by Guillermo Castares

If it seems to be really dead, please send me it. I'll try your last chance. Your only fees will be the shipment back to you in case of success. OK?

Re: Very expensive HP support

Message #12 Posted by [Guillermo Castares](#) on 13 Nov 2002, 9:23 a.m.,
in response to message #11 by Emmanuel, France/Francia

Yesterday I made two new tries:

1) Press and hold down "ON" for about 30/60 seconds to *discharge the circuits* as Erich Neubacher did to get his HP-11C alive again. Ref: <http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/forum.cgi?read=23381>

2) Shortcut the battery contacts for a minute or longer, as a friend advises me. I suppose that the purpose is to *discharge the circuits* too.

I was not so lucky. Now I'll keep the calculator as it is. Thanks Emmanuel for your offer anyway.

Guillermo

One suggestion: as you are in Argentina, Buenos Aires...

Message #13 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 13 Nov 2002, 10:28 a.m.,
in response to message #12 by Guillermo Castares

Hi;

what about a simple [ON]-key bad contact? Or a keyboard malfunction? Maybe it's not dead, it's just not receiving the keyboard input.

The problem is how to get to a better conclusion.

About being in Buenos Aires, have you tried to contact Andrés Rodrigues? I'm sure he lives in Argentina, but I'm not sure he is in Buenos Aires. He is one of the Museum's collaborator, and he understands a lot about calculators, too. I'm in Brazil, it's somewhat closer, too. Maybe I can also help.

Just try to contact him, if you want to; who knows!

Best regards.

Re: One suggestion: as you are in Argentina, Buenos Aires...

Message #14 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 14 Nov 2002, 5:53 p.m.,
in response to message #13 by Vieira, Luiz C. (Brazil)

Thank you, Luiz, for pointing this out.

Guillermo: Certainly, I live in Buenos Aires, and it would very much like to help. My experience with the 48xx models is rather poor, but I would like at least to get in contact with you. At this time I am very, very busy; that is what prevented me even from participating in this thread (I managed to take a look at this Forum every other day, but lacked the time needed to post my opinions). In fact, the next week I will be somehow near Luiz, in the northeast of Brazil due to a business trip. If you like, please send me an email message, and we can try to meet or talk by phone around the end of November.

By the way, I can offer you rather complete explanations on how the cost of a repair unit could be higher than the purchase of a new, identical one. I don't mean I think it is right or even logical to happen that way, but there are many cases where this is so.

Please have my special Welcome here, if you like you can take a look at my article "Calculator memories from Argentina", posted in the Memories Forum in April 2000.

Re: One suggestion: as you are in Argentina, Buenos Aires...

Message #15 Posted by [Guillermo Castarés](#) on 15 Nov 2002, 9:20 a.m.,
in response to message #14 by Andrés C. Rodríguez (Argentina)

Thanks Luiz for your suggestion, and thanks Andrés for your welcome. Andrés: I don't know if you remember that we talked by phone once (at least two years ago). As far as I can remember at that time you were using your HP-42S and your daughter were using her HP-32S. Actually I'm not new here in the HPmuseum. One of my programs (Electric Circuits) is in the HP-41 program library since long time, and there are some old messages in the Forum Archives. Recently I made a web page to display my collection of calculators and sliderules (<http://ar.geocities.com/casta1967/calculadoras/index.htm>). I'll be pleased to meet you, and if possible to show you my collection (including, of course, the HP-48SX). I'd like to see your HP-42S too, because I'm a fan of HP-41C/CV/CX (the best calc ever) but I never could afford the HP-42S. Please, let me know when you get more relaxed with you work.

Guillermo

About your trip...

Message #16 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 15 Nov 2002, 10:04 a.m.,
in response to message #14 by Andrés C. Rodríguez (Argentina)

Hy, Andrés;

it's going to be a pleasure talking to you, but as you know, Brazil has its "distancias", as you do in Argentina, and we do not have the flying facilities... But I'll call you, for sure!

At the time you have the address and telephone # of the place you're staying, please, send me an e-mail, let me know!

Best regards.

(good to know you are going to contact Guillermo; hope you can share

more than Hewlett-Packard knowledge)

Re: About your trip...

Message #17 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 15 Nov 2002, 12:29 p.m.,

in response to message #16 by Vieira, Luiz C. (Brazil)

Luiz: I will be in Recife, I agree our countries have "distances", but as soon as I have a phone number I will try to send it to you by email. I am not 100% about my schedule, so please accept my apologies in advance in case my side of the contact fails.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

KAMELEON for new HP Calculators

Message #1 Posted by [Bruce Cohen](#) on 11 Nov 2002, 1:50 p.m.

The Kameleon user interface by Universal Electronics would be an awesome way to make new HP calculators. Just imagine that the key symbols would change as you select menus and would also allow many different calculator models by simply changing software. Can you think of the possibilities for third party and user modified software design?

RPN Lives!

See the link below about Kameleon

<http://msnbc.com/news/833445.asp?0dm=C12QT>

Re: KAMELEON for new HP Calculators

Message #2 Posted by [Paul Brogger](#) on 12 Nov 2002, 12:32 a.m.,
in response to message #1 by Bruce Cohen

The only problem (and it's a significant one, in my book) is the lack of real keys and real tactile feedback.

Whenever I envisioned such a "morphing" user interface for HP calculators, I imagined a little LCD on every keytop and an LCD keyboard face surrounding them -- these could/would change the keytop and keyboard legends in concert with different modes of operation, menu options, or custom key assignments. All of this, of course, while preserving discrete, palpable key buttons.

That ain't gonna happen, even though they'd only need to make two (or maybe a few) different keycaps -- the legends would all be "soft", and come alive at startup.

Who knows, maybe with the evolution of operating systems, software and connectivity, and the blending of computers, telephones, pagers, cameras, recorders, video players, GPS receivers and internet email/chat ports, perhaps the only way to profit in personal electronics will be to

offer customizable handheld devices that can be FULLY configured to the user's needs?

With enough competition for delivery of the most distinctive and easily-used personal hardware, development of a device offering "intelligent keytops" may one day be, in fact, a rational, economically promising endeavor . . .

Isn't it generally true that money invested in improving the person/machine interface is wisely spent?

Re: KAMELEON for new HP Calculators

*Message #3 Posted by [James M. Prange](#) on 12 Nov 2002, 3:23 a.m.,
in response to message #2 by Paul Brogger*

But the article says "...the Kameleon technology combines the tactile feel of pushing on a button with a virtual display." How (or if) they manage that, I don't know. Maybe the button is a lens or window showing a display underneath it? I suppose a display could be built into the button itself, but that sounds very expensive and I'd have serious doubts about the reliability.

I'm definitely going to have to check this gadget out at RadioShack one of these days.

Regards,
James

Re: KAMELEON for new HP Calculators

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 12 Nov 2002, 5:22 a.m.,
in response to message #3 by James M. Prange*

Hi;

I bet on a keyboard with a lens on each "changing-label" key. What I am wondering about is the reading easiness. How "large" should be the lens surface (if this is the technology) or the keys' readable surface so the labels can be read? Resolution? Reflective/self iluminated labels?

I'd like to read more about it.

Cheers.

Re: KAMELEON for new HP Calculators - Reading HPs mind.

*Message #5 Posted by [ee](#) on 12 Nov 2002, 10:36 p.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)*

In addition to Kameleon, Universal has software called Nevo that runs on a Hewlett-Packard Co. (NYSE:HPQ) hand-held computer. Nevo can control more than 1,500 brands of electronics with a display that changes depending on whether one is controlling a stereo, DVD player, or other device.

<http://www.azcentral.com/business/articles/1111TECH-TECH-REMOTECONTROL-DC.html>

-- ee

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-12C

Message #1 Posted by [Thomas Cox](#) on 10 Nov 2002, 7:34 p.m.

While they last, \$31 at K-Mart. Special clearance price. These units were manufactured in China and use 1 CR-2032 battery as compared to the three batteries specified in the manual. Blister pack contains calculator, manual (appears to have been printed in mid-90s), a cheap plastic case and an advertisement from Grapevine Publications for various books. No warranty card or option to register over Internet. Manual says warranty period is one year.

Re: HP-12C

Message #2 Posted by [Glen Kilpatrick](#) on 10 Nov 2002, 8:00 p.m.,
in response to message #1 by Thomas Cox

That's a pretty good price. I got one on an "internal" price, no warrenty, \$29 (plus tax plus shipping).

And I've read elsewhere in the Forum that it's not just a coin battery _vs._ three LR-44 types, that the lower current translates to much lower power use (it had better, after all), and that holding an old-style Voyager next to an AM radio tuned off-station will detect a much louder (broadcast) buzz than a newer style (12C).

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: HP & RPN

Message #1 Posted by [Larry Corrado](#) on 10 Nov 2002, 5:00 p.m.

There was some RPN being used on calculators in the mid 60s. In late '65 or early '66, I used a big Friden (sp?) RPN desktop calculator that had a 4-register stack that was visible on the CRT display. (It was quite the thing at the time, at least in the physics department where I was working.) I would assume that there could have been other electronic calculators using RPN then, too.

Larry

Re: HP & RPN

Message #2 Posted by [Emmanuel, France](#) on 11 Nov 2002, 6:12 a.m.,
in response to message #1 by Larry Corrado

I discovered in 1988 (!) that Soviets used RPN calcs such Elektronika MK-52. I got 4 of this calculator and they were really powerful at their time.
For further information, please visit:
<http://www.taswegian.com/MOSCOW/mk-52.html>

Re: HP & RPN

Message #3 Posted by [Raymond Hellstern](#) on 11 Nov 2002, 8:20 a.m.,
in response to message #1 by Larry Corrado

AFAIK the Curta uses some kind of RPN, too. Maybe all older mechanical calculating machines, since this was the way to go for the 'CPU', and the amount of temporary memory was always low those days;-)

Raymond

Re: HP & RPN

Message #4 Posted by [Gordon Dyer](#) on 11 Nov 2002, 5:51 p.m.,
in response to message #1 by Larry Corrado

I have a copy of the book "Algorithms for RPN Calculators" by John A. Ball, Wiley Interscience, 1978, ISBN 0-471-03070-8.

He starts with a history of RPN and I quote:

" In their advertisements and also in a letter to me, Hewlett-Packard Company (HP), the best known manufacturer of RPN calculators, says that RPN is based on a suggestion by Jan Lukasiewicz (1878-1956), and that RPN was invented and is patented by HP. Aside from the apparent contadiction in these two statements, I do not think that either of them is quite true. My first experience with RPN involved a nice old Friden EC-130 desktop electronic calculator, circa 1964. The EC-130 has RPN with a push-down stack of four registers, all visible simultaneously on a cathode ray tube display. Furthermore, they are shown upside down, that is, the last-in-first-out register is at the bottom. The same orientation is used in instruction books for HP calculators, perhaps by coincidence."

" Around 1966, the Monroe Epic calculator offered RPN with a stack of four, a printer, and either 14 or 42 step programmability. The instruction booklets with these two calculators make no mention of RPN or Jan Lukasiewicz."

.....

" Hewlett-Packard Company is to be commended for the beautiful design of the original HP-35 calulator (c.1972). They avoided many of the pitfalls that lesser minds would have become mired in. HP provided many features in a truly concinnate way. But ignoring the foundations on which this accomplishment was built serves no purpose. In my view, the RPN calculator owes about as much to the venerable mechanical calculator, and to a number of anonymous designers, some of whom worked for Friden, as it does to Jan Lukasiewicz."

I hope you find this enlightening...

Regards,

Gordon Dyer

Re: HP & RPN

*Message #5 Posted by [John Garza \(3665\)](#) on 15 Nov 2002, 10:27 a.m.,
in response to message #4 by Gordon Dyer*

"Algorithms for RPN Calculators" is the classic RPN reference work. If anyone is an RPN fan and doesn't have a copy, find one. You will cherish it.

Also, in the HP35 User's Manual, page i:

"The operational stack and reverse Polish (Lukasiewicz) notation used in the HP-35 are the most efficient way known to computer science for evaluating mathematical expressions"

From all the posts, it appears there is a 60's era history of non HP RPN machines. Perhaps some HP engineer decided to stick to his guns in favor of the more efficient RPN when the rest of the world went to equals signs and parentheses.

Is it just me? But I get the feeling that if that happened today, the engineer would get railroaded by marketing in a heartbeat.

-John

Re: HP & RPN

*Message #6 Posted by [Keith Gobeski](#) on 13 Nov 2002, 3:34 p.m.,
in response to message #1 by Larry Corrado*

I have followed the various RPN threads and I am wondering if the RPN fans are aware that a line of Burroughs (now Unisys) mainframes, starting with the B5000 (circa 1963) and continuing to the present, consists of true stack machines which perform all operations on the process stack using RPN.

Re: HP & RPN

*Message #7 Posted by [Mike \(Stgt\)](#) on 13 Nov 2002, 4:29 p.m.,
in response to message #6 by Keith Gobeski*

HP always said that RPN is used on big irons too. So every time I used "my" HP-41 I had the feeling of using a somewhat advanced chunk of computer science. When I got familiar with VM/CMS (IBM) I soon felt at home as the fundamental concepts are the same (on all computers I think).

Ciao.....Mike

Re: HP & RPN

Message #8 Posted by [Keith Gobeski](#) on 14 Nov 2002, 1:53 p.m.,
in response to message #7 by Mike (Stgt)

Although algebraic expressions may be processed by simulating a stack on any computer, very few computers are true stack machines at the hardware level. Most computers are one- or two-address machines. The IBM 1130 was a one-address computer. The IBM 360 and its successors are two-address computers. Burroughs (Unisys) medium systems are three-address computers.

Stack machines are zero-address computers.

The number of addresses is specified with respect to the number of operand addresses included in a typical instruction.

A zero-address machine ADD instruction contains no operand addresses because the operands are implicitly the top two items in the stack.

A one-address machine ADD instruction contains one operand address because the other operand is implicitly the accumulator.

A two-operand machine ADD instruction contains the address of the first operand which is added to the second operand with the result being stored in one of the two operands.

A three-address ADD instruction contains the address of the first operand which is added to the second operand and stored in the third operand.

Burroughs stack mainframes use the stack for both data and control information. All operations, arithmetic, logical, and control, are performed using the stack.

Re: HP & RPN

*Message #9 Posted by [Katie](#) on 13 Nov 2002, 4:36 p.m.,
in response to message #6 by Keith Gobeski*

The HP3000 minicomputers were also based on a true stack machine architecture, until PA-RISC came along and they emulated the classic 3000 processor in microcode. I believe that the first 3000 design dates back to around 1970 with the first hardware release in 1972. It would be interesting to know what (if any) connection there was between the calculators and the computer group at HP as far as the use of RPN. The 3000's had the top 4 stack entries in registers giving it much faster access to these items, something analogous to the direct access to the 4 stack registers on the 41C.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-41C memory lost? Doh

Message #1 Posted by [David](#) on 9 Nov 2002, 10:55 p.m.

I have an hp-41CV, and when you turn it on it displays "MEMORY LOST", and that is it. Any ideas what this means?

Re: HP-41C memory lost? Doh

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Nov 2002, 2:55 a.m.,
in response to message #1 by David

Hi;

I have seen exactly this in my HP41C when it was about to complete 1 year with me. At that time (Dec. 1983? Jan. 1984?) I was not aware of anything but using it. After about 5-6 years I was delving into its guts and I got a better understanding about its electronics. With another HP41C I successfully simulated this particular situation.

The fullnut (almost all HP41C's, some HP41CV, a f

Re: HP-41C memory lost? Doh

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Nov 2002, 2:58 a.m.,
in response to message #1 by David

Hi;

I have seen exactly this in my HP41C when it was about to complete 1 year with me. At that time (Dec. 1983? Jan. 1984?) I was not aware of anything but using it. After about 5-6 years I was delving into its guts and I got a better understanding about its electronics. With another HP41C I successfully simulated this particular situation.

The fullnut (almost all HP41C's, some HP41CV, a few HP41CX) has a bunch of RAM IC's, basically one that contains the "control" registers (ALPHA, Stack and those one can access with Synth commands) and the others that will contain the "user" registers. If an HP41C, only two

RAM IC's: one of each. If an HP41C/CX, six RAM IC's: the first one for the control registers and five 64-registers RAM IC's, in a total of 320 registers (one is always with the permanent . END., so we can only access 319 for data registers and 4 bytes for program OR 2237 bytes of program and no one register).

In my particular case (finally!) the first RAM IC was dead. I used this IC in two other 41C's and the resulting MEMORY LOST was observed, too. The original "amnesia" HP41C worked fine with the others' control RAM IC.

The bad news is that I cannot tell you this is the only one cause for the MEMORY LOST. This is the one I know!

The codes for the IC's are:

1LA701-xxxxx - first RAM: 16 registers
1LA702 to 705 - block in the first HP41C's: 4 x 16 registers
1LE701 to 705 - block with 5 x 64 registers (320)

In the later HP41CV's (fullnuts), the 6 RAM IC's were soldered in the mainboard as three blocks of two IC's; the mainboard had three positions only. If you have an HP41C that uses this type of mainboard, you'll see two electrolytic capacitors mounted outside the PCB's boundary (left side) and, aligned with them in the right, the three positions for the RAM IC's. There is no specific position for each RAM, the three DIP connectors are in parallel with each other. If you have an HP41C, only two IC's will be found, and one DIP is free. Hope this helps.

I MUST thanks to many guys in here that provided me all of the final information (mostly the path for downloading the 41C's schematics) so I can post it here with confidence.

Cheers.

Re: HP-41C memory lost? Doh

*Message #4 Posted by [Emmanuel, France](#) on 10 Nov 2002, 4:40 a.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)*

Right ... Try those two things. Press & maintain ENTER key, then ON. Release. 0.0000?
Press & maintain <- key, then ON. Release. MEMORY LOST? Else I have the Service Module (please see <http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/forum.cgi?read=23586>) and spare boards for HP-41.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

92169 Leather Covers

Message #1 Posted by [Claudio Grossi](#) on 9 Nov 2002, 6:46 p.m.

Hi,

I have a 92169D Black and a 92169E Brown Leather cover for HP calculators and I was wondering if someone is able to tell me what models of calculators these would suite.

The inside dimensions are approx. 6" x 3 1/2" x 3/4" (150mm x 90mm x 19mm.

Thanks,

Claudio.

Re: 92169 Leather Covers

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 9 Nov 2002, 7:33 p.m.,
in response to message #1 by Claudio Grossi

Hi;

these cases are for the Clamshells (HP28C/S, and HP19B/BII). Their descriptions were found at an "old" Accessories & Applications commercial brochure (eight pages, front and back covers included, dated 04/89, #5090-0017, printed in black and green, related to the financial series - 17B/19B/27S - and the HP28S).

Hope it helps.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Woodstocks on the barbie...

Message #1 Posted by [John Garza \(3665\)](#) on 9 Nov 2002, 5:36 p.m.

Just how fragile are woodstocks when it comes to static electricity? I have a 21, 25, and 27 that were put up a year ago in perfect working order. Now they exhibit blank displays & odd symbols & counters when powered up. They were in a temperature controlled room, not subject to handling for a year. But now they seem to have spontaneously deteriorated. In reading the archives, I'm led to believe it could be old capacitors in the power supplies, or (even worse) static electricity as they were kept in plastic storage boxes with dessicant packets. Any one know the values of those tantalum caps, or a replacement course for 21,25 ACT chips? I've read the 27 will require an "organ donor", as they're hard to come by.

-John

Re: Woodstocks on the barbie...

Message #2 Posted by [David Smith](#) on 11 Nov 2002, 4:04 p.m.,
in response to message #1 by John Garza (3665)

You may have corrosion growing inside the machines. Open them up (two screws under the top feet) and clean the circuit boards with 91% isopropyl alcohol. Let dry overnight. Often times the culprit is not visible to the naked eye.

The only replacement chips are from another machine. The 21/25/29/67/97 ACT chips are interchangeable.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Ebay item...manual only, but anyone ever seen the module?

Message #1 Posted by [gene](#) on 9 Nov 2002, 3:25 p.m.

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1396615643>

Anyone seen this Hayes Surveying module? Looks like it has a cable coming out of the top...did it have an interface?

I'm just curious and looking for more info...anyone have it?

Re: Ebay item...manual only, but anyone ever seen the module?

Message #2 Posted by [Emmanuel, France](#) on 9 Nov 2002, 5:12 p.m.,
in response to message #1 by gene

In my opinion it's an interface made to pilot a theodolit.

Re: Ebay item...manual only, but anyone ever seen the module?

Message #3 Posted by [db\(martinez,california\)](#) on 9 Nov 2002, 5:14 p.m.,
in response to message #1 by gene

gene - except for the name on the cover; the book in it's layout and construction and the data collector that the 41 is attached to look like the old "co-op 41 surveying module" that was sold by tds. the tds manual was written by ted wadman of "an easy course in programming the hp-41" fame. - d

Re: Ebay item...manual only, but anyone ever seen the module?

Message #4 Posted by [Chris Catotti \(Florida\)](#) on 9 Nov 2002, 10:24 p.m.,
in response to message #3 by db(martinez,california)

Yes it is a CO-OP module and interface manual.

Re: Ebay item...manual only, but anyone ever seen the module?

Message #5 Posted by [Peter \(Germany\)](#) on 11 Nov 2002, 5:40 a.m.,
in response to message #4 by Chris Catotti (Florida)

Chris, You are right, the picture on the cover shows the CO-OP data collector. I have one of this, it uses an IL Module to connect to the 41 (built into the case of the data collector, not a stand-alone IL module). But I think the code to operate it and do the surveying calculations was in a separate module. The only communication path seems to be IL, so no code for the 41 can be stored in the POD. And maybe there were different ones. If I remember right, You have one of these modules?

-Peter

Re: Ebay item...manual only, but anyone ever seen the module?

Message #6 Posted by [Emmanuel, France](#) on 11 Nov 2002, 7:53 a.m.,
in response to message #5 by Peter (Germany)

Another data collector module, then. I thought, I was wrong, mea culpa, mea maxima culpa, that the module we were talking about was similar.

(picture unavailable)

Re: Ebay item...manual only, but anyone ever seen the module?

Message #7 Posted by [Chris Catotti \(Florida\)](#) on 11 Nov 2002, 12:30 p.m.,
in response to message #6 by Emmanuel, France

Now am I getting confused ... ?

I have a:

SUN SHOOTER 41TM Co-op Module

It has a sticker on it: 8K#61786

Checking the module the lower 4K is XROM NO.=31 and has 54 functions, XROM 31,00 is: CO-OP ROM

XROM 31, 01 is SC

checksum = 292 HEX

Checking the module the upper 4K is XROM NO.=4 and has 57 fuctions, XROM 31,00 is: SUN

XROM 31, 01 is SOLAHP

checksum = 187 HEX

Is this the same thing?

Re: Ebay item...manual only, but anyone ever seen the module?

*Message #8 Posted by [db\(martinez,california\)](#) on 11 Nov 2002, 9:34 p.m.,
in response to message #7 by Chris Catotti (Florida)*

peter;

my co op 41 surveying module calls itself rom #10 and the particular instrument module which i have, that also contains the alignment/offset and vertical curve programs, calls itself rom #12. i believe that the sunshooter was a more general and stand alone set of programs and was not intended to work with mine or the plotter module. mine are both dated 1986 and require a cx to function.

you are right; no code can be stored in the data collector but the programs were pretty complete, and only occasionally clunky, so you had 2.2k for what little extra you needed. data storage in extended is 299 points. the d. c. that you have could store the northing and easting for 4606 points, less if you want elevations, a raw data file, or a note/descripser. so maybe minus a bit but plus whatever was in extended. i kept my control file in extended.

one of the coolest things about the co op is that you can send data files straight from extended to mass storage. if someone gets the book i'll see if i can print out a program or two so you can key it in and play with it.

btw: have you seen tds/co.cp.'s new handheld? coke bottle shape like a husky in a dam near bullet proof body with a multi line touch screen and keys that feel like a new 41. if any new handheld could be described as sexy....

- d

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP & RPN

Message #1 Posted by [John Garza \(3665\)](#) on 9 Nov 2002, 10:21 a.m.

I've seen lots of books & articles extolling the virtues of RPN. But I've never seen any information on how & why HP chose RPN for their calculators. From a business standpoint, I'm sure there must have been some analysis done to justify the use of this obscure system. After all, how many people would know of Polish Notation and that Jan fellow with-the-funny-last-name-I-can't-spell, if it weren't for HP calculators?

Re: HP & RPN

Message #2 Posted by [Raymond Hellstern \(Germany\)](#) on 9 Nov 2002, 12:02 p.m.,
in response to message #1 by John Garza (3665)

It seems that engineers had much more influence on design matters back then.

One of the sentences in their owner's manuals was "Made for engineers by engineers" (maybe the 2nd and 4th word exchanged)

It seems that engineers wanted to have highly efficient, high quality tools. So some kind of RPN was obligate, and it was even cheaper to produce an RPN machine, because they needed less storage registers, and RAM was very expensive those days.

Nowadays it's vice versa: The 'marketeers' hold the strings, and we all see the result, that new HP calculators are kinda crap (IMHO).

Raymond

Re: HP & RPN

*Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 9 Nov 2002, 4:42 p.m.,
in response to message #2 by Raymond Hellstern (Germany)*

Hi;

as a matter of fact, let's face one important point: RPN is related to the direct CPU operation, in a way operands must be placed before the CPU can use them. As it happens with RPN. This means an operating system that does not offer an AOS interface to the user. It's known that algebraic calculators store the keystroke sequences till an ")" or "=" initiates a LIFO-style (Last In, First Out) execution, that resambles RPN.

There is more about it, and I'm in rush for now.

Cheers.

Re: HP & RPN

*Message #4 Posted by [John Garza \(3665\)](#) on 10 Nov 2002, 9:45 a.m.,
in response to message #1 by John Garza (3665)*

Good point about the engineers vs. the marketeers. Very true. And I know a postfix parser is easier to code than infix. Been there done that :) But what I'm getting at is that (knowing HP), there must have been some document produced by HP along the way that founded the basis for their decision to use RPN. After all, it was not a minor design decision. It's very un-HP like to make arbitrary decisions like that. They are almost always well considered.

-John

Re: HP & RPN

*Message #5 Posted by [Chan Tran](#) on 10 Nov 2002, 8:39 p.m.,
in response to message #4 by John Garza (3665)*

The first hand held calculator the HP35 was supposed to be for HP engineers use only not for sale

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP71B - how slow can it be?

Message #1 Posted by [Thomas Falk](#) on 9 Nov 2002, 7:03 a.m.

Hi everybody,

I have a HP71B with a HPIL module and this machine seems to be very slow. In the program

```
10 a=0
20 print a
30 a=a+1
40 goto 20
```

one loop needs 3 seconds after a complete reset (attn-/ and 3). After switching off the HPIL by "off io" one loop needs 0.6 seconds only. But I have seen it running with about 10 loops per second once, but cannot reconstruct the conditions.

My question is: How fast should a normal HP71B be and what influences its speed for good or bad?

Thanks for any hints,

Thomas

PS: I don't have a manual (yet), please be patient with me.

Re: HP71B - how slow can it be?

Message #2 Posted by [Raymond Hellstern \(Germany\)](#) on 9 Nov 2002, 11:50 a.m.,
in response to message #1 by Thomas Falk

Hi,

pull out any modules, including the IL, put the machine on mains (Netzstecker rein;-), run the program again.

Maybe you have installed some software which reacts on interrupts, like a running clock, or some other background task. Remove them, and you'll see;-)

Raymond

Re: HP71B - how slow can it be?

Message #3 Posted by [J-F Garnier \(France\)](#) on 9 Nov 2002, 11:51 a.m.,
in response to message #1 by Thomas Falk

Use DISP instead of PRINT. PRINT is used for external hpil printer, although it can also be redirected to display by typing: PRINTER IS *

J-F

Re: HP71B - how slow can it be - Thanks!

Message #4 Posted by [Thomas Falk](#) on 11 Nov 2002, 3:20 a.m.,
in response to message #3 by J-F Garnier (France)

Thanks to everybody who helped, especially to the one responding by email.

I didn't expect such things like 'delay' for the display in Basic.

Probably I should really get a manual.

Thanks again.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP accessories - surplus store

Message #1 Posted by [Renato](#) on 9 Nov 2002, 4:07 a.m.

<http://www.surplustraders.net/a> has 82059D available. Unfortunately minimum qty is 100 units. There is also a HP wand (two units) - but I couldn't get them to tell me the part number.

Re: HP accessories - surplus store

Message #2 Posted by [Raymond Hellstern \(Germany\)](#) on 9 Nov 2002, 11:45 a.m.,
in response to message #1 by Renato

could you post a more direct link, as the surplustraders site is too chaotic (IMHO)

Raymond

Re: HP accessories - surplus store

Message #3 Posted by [Chris Catotti \(Florida\)](#) on 9 Nov 2002, 1:54 p.m.,
in response to message #2 by Raymond Hellstern (Germany)

I tried to order 10 last night, and got the following reply today:

From: Marvin Birnbom <marv@surplustraders.net>

Date: Sat, 09 Nov 2002 12:58:39 -0500

To: kd4ace@earthlink.net

Subject: Re: MC337 (QTY 10)

sorry these are temporarily unavailable.

Marv

At 04:47 AM 11/9/02 -0500, you wrote: >Are they new or used? Boxed in original HP Box or loose/bulk? > >Chris Catotti Catotti kd4ace@earthlink.net >TEL: 407-435-XXXX

Marvin Birnbom

SURPLUS TRADERS

PO BOX 276, ALBURG, VT 05440

TEL (01) 514 739 9328

FAX (01) 514 345 8303

E-MAIL: marv@surplustraders.net

FOR OUR 50 LATEST OFFERS - click here:

<http://www.surplustraders.net/a/0307.shtml>

VISIT OUR INTERNET SITE - click here:

<http://www.surplustraders.net/a>

Re: HP accessories - surplus store

*Message #4 Posted by [Renato](#) on 10 Nov 2002, 8:44 p.m.,
in response to message #3 by Chris Catotti (Florida)*

Chris, I asked Marv for the minimum mount - he told it is 100 pieces.

Raymond - yes the site is a mess, sorry.

Best regards

Re: HP accessories - surplus store

*Message #5 Posted by [Renato](#) on 10 Nov 2002, 8:44 p.m.,
in response to message #3 by Chris Catotti (Florida)*

Chris, I asked Marv for the minimum mount - he told it is 100 pieces.

Raymond - yes the site is a mess, sorry.

Best regards

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Date Functions (DOW, DDATE, DATE+)

Message #1 Posted by [A.J. Wolnski](#) on 8 Nov 2002, 9:40 p.m.

I use the date functions of the 41CX (like DOW, DDATE and DATE+). Does anyone know of any other HP calculator that has these same functions?

Re: Date Functions (DOW, DDATE, DATE+)

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 8 Nov 2002, 10:01 p.m.,
in response to message #1 by A.J. Wolnski

Hi;

you will find DATE+ and DDAYS as available functions in the HP48 repertoire. DOW is not available in the HP48, but there is a way to achieve it.

When you have two numbers, one in Level 2 for the date and another in Level 1 for the time, you can use the sequence

TSTR 1 3 SUB

or the program

«TSTR 1 3 SUB »

and you'll have the first three letters of the day-of-week (SUN, MON, TUE...). TSTR (Time STRing) takes both numbers and returns a string of the form

"DOW Date Time"

.

Hope it helps.

I forgot the Financials! (was Date Functions (DOW, DDATE, DATE+))

*Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 8 Nov 2002, 10:53 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Hi;

I completely forgot the financials. Since the HP38E/C (as far as I know), many financials have these functions. The HP12C has DATE and [DELTA]DYS, the HP17BII and HP19BII also have equivalent, interactive menus to find dates and days between dates. Also, the discontinued HP27S has functions for date arithmetic, too (the woodstock HP27 does not have date arithmetic).

Both the HP10B(10BII) and HP14B do not offer date arithmetic.

I'm sorry I did not add this information in previous post.

Best regards.

Re: Date Functions (DOW, DDATE, DATE+)

*Message #4 Posted by [MNeu](#) on 9 Nov 2002, 10:25 a.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Luis Thank you for this program. It works like a charm on my 48G, doesn't work on the 49G (Version 16) Any suggestions?

Re: Date Functions (DOW, DDATE, DATE+)

*Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 9 Nov 2002, 7:17 p.m.,
in response to message #4 by MNeu*

Hi;

In fact, this program runs originaly in an HP49G, O.S. rev #1.19-5, and it works fine.

What do you get when running? Error message? Which one? Did you try each step at a time? Try TSTR alone and see if there is a string in stack Level 1. Check flag -42 (DMY/M.DY) and the time format you are using.

Let's see what's going on.

Cheers.

Re: Date Functions (DOW, DDATE, DATE+)

Message #6 Posted by [M Neu](#) on 11 Nov 2002, 6:07 p.m.,
in response to message #5 by Vieira, Luiz C. (Brazil)

Luis Flags 41 and 42 are clear. Re-entered the program into my 49, no error message, the program works fine. Also, about 15 minutes after sending my request to you, I pushed the NXT button on my 49 one additional time and discovered TSTR. I was so embarrassed. Thnks again for your help. Mike

Re: Date Functions (DOW, DDATE, DATE+)

Message #7 Posted by [db\(martinez,california\)](#) on 8 Nov 2002, 11:00 p.m.,
in response to message #1 by A.J. Wolnski

a.j. - the 12c will take a date & a number of days and give you the day of the week. that could be used as dow. in deltadate (ddate) it will also give the number of days between two dates. devide that by 30.4375 and you'll know how many months old you are. i for example am 567 months old, but i don't look a day over 550. - d

Re: Date Functions (DOW, DDATE, DATE+)

Message #8 Posted by [Renato](#) on 9 Nov 2002, 4:00 a.m.,
in response to message #1 by A.J. Wolnski

HP-41 Standard Applications Handbook has DOW, DDATE programs to key in - so you can use those functions on a 41C/CV

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Repairing LCD screen HP 32sii

Message #1 Posted by [Ben Salinas](#) on 8 Nov 2002, 7:58 p.m.

Does anyone know how I could repair the LCD screen on an HP 32sii. Our school has several (4 or 5) with just broken LCD screen. Does anyone have the schematics for the calculator, so that we could figure out what sort of screen we need to buy. This would be a great help -Thanks

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Powering the 9114B disc drive without a battery pack

Message #1 Posted by [Tom Sherman \(Maine\)](#) on 8 Nov 2002, 7:26 p.m.

The 9114B disc drive will not run off an AC adapter if its battery pack is dead and in place. Apparently the battery pack consists of three 2V cells. Has anyone tried removing the battery pack and powering the disc drive directly with a 6V AC adapter (not the HP 8V adapter/charger)? Can the electrical engineers among us see any reason why this might damage the disc drive? -- because, e.g., the AC adapter delivers (I suppose) rectified current rather than the steady DC of a battery?

Please excuse my ignorance/stupidity on these matters. I find it strange that HP built this large box of a floppy drive, called it portable, and made it unable to run without a rather heavy battery, which is now somewhat difficult to replace.

Thanks for your ideas and enlightenment!

Tom

Re: Powering the 9114B disc drive without a battery pack

Message #2 Posted by [Dale Richmond](#) on 8 Nov 2002, 10:13 p.m.,
in response to message #1 by Tom Sherman (Maine)

I have had no problem powering my 9114B drive from a Radio Shack AC adapter. It is switchable from 3, 5, 6, or 6.5 vdc at 2.5 amps and is labeled as a digital camera power supply, part number 273-1695. The store also had all the adapters necessary to interface with the male plug on the drive. I have had no trouble using this adapter. The voltage is fairly well regulated. I prefer this to the new battery pack I insalled and charger supplied with the drive. Just set the adapter for 6.5 volts and away you go. Good luck (make sure that you get the polarity correct). If you need help drop me an email.

Re: Powering the 9114B disc drive without a battery pack

*Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 8 Nov 2002, 10:22 p.m.,
in response to message #2 by Dale Richmond*

Hi, Dale;

I did not read your post when I wrote and post mine. Have you been in this situation, say, a power loss when writing data? The controller will just stop and show some sort of Interrupt Connection failure message, but I am worried about the media contents.

If you found a noise-free adaptor, that's great! I'm sure you choose the best way. My concerns are just for the media contents.

Cheers.

Re: Powering the 9114B disc drive without a battery pack

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 8 Nov 2002, 10:16 p.m.,
in response to message #1 by Tom Sherman (Maine)*

Hi;

I've been wondering about it too, and I found one big problem on using AC adapters, even if they are completely safe and free of noise (batteries generate safe and free-of-noise voltage and current, most AC adapters don't). Disk drives need peak current demand when spin motors are switched ON and OFF, and batteries can hold this.

Imagine you're transferring data from your pocket system (HP41, HP7x, HP8x...) to a LIF formatted disk and, at the very moment the directory is being updated, it happens a power loss OR a spike. I know that a FAT or LFS based disk may loose the last file or, in some "hard" cases, the complete directory may be lost (depends on the software you're running). What would happen in a LIF disk? I cannot even think of loosing lots of information because of this.

Maybe I'm talking about impossible things, but I thought about this, and having a battery pack to keep voltage and current in any situation makes me feel better...

My US\$ 0.05.

Best regards.

Re: Powering the 9114B disc drive without a battery pack

*Message #5 Posted by [Dale Richmond](#) on 9 Nov 2002, 7:16 a.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)*

I have not had any problem with a power loss during a disk write however I would imagine that it would cause some or all data loss. The reason I prefer to use the ac adapter is that the battery capacity is small and will only power the drive for a short time. I am more concerned about the battery discharging to the point of causing data loss. This actually happened to me while executing the "DIR" function. When the drive would spin up the voltage dropped low enough to cause problems. I have a NEW original replacement Panasonic battery installed so it is not a degraded old battery problem. I would also agree that nothing beats battery power for a stable DC source. I was thinking of using a larger capacity battery and wire it directly to the drive but have had no problems with the AC adapter arrangement. It has a 2.5 amp capacity and you always have the 3 battery indicator LEDs on even during the time when the drive spins up.

Re: Powering the 9114B disc drive without a battery pack

*Message #6 Posted by [Tom Sherman](#) on 9 Nov 2002, 8:56 a.m.,
in response to message #5 by Dale Richmond*

Thanks so much, Dale and Luiz. Very interesting!! I will give it a try with the AC adapter. Great to hear that Radio Shack has the necessary interface adapter.

Cheers and thanks again, Tom

Re: Powering the 9114B disc drive without a battery pack

*Message #7 Posted by [Dale Richmond](#) on 9 Nov 2002, 10:19 a.m.,
in response to message #6 by Tom Sherman*

Tom, the last time I was at my local Radio Shack they had changed the store layout and did not have half of the electronic / hardware selection they used to carry. Hopefully your local store has not been "updated".

Re: Powering the 9114B disc drive without a battery pack

Message #8 Posted by [Tom Sherman](#) on 9 Nov 2002, 11:58 a.m.,
in response to message #7 by Dale Richmond

Well advised. Thanks again, Dale. We are old-fashioned in Maine, so I have a chance to find it. If not, probably their large catalog will list it.

I just determined that the lower slot (the smaller one) of the battery pack is +. I would have guessed the other way around (I have not opened it up). Shows how naive I am.

Tom

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-67 key label restoration

Message #1 Posted by [Jerry Lake](#) on 8 Nov 2002, 6:41 p.m.

I was just given a working HP-67 but the key labels are rubbed off in some spots. The wear seems out of proportion with the general condition of the calculator so I think it's worth pursuing a bit of restoration. Does anybody out there know of a way to recreate the labels? There is a restoration article on the Museum of HP calc's where a guy says he had custom rub-on labels made but his e-mail address is dead.

Thanks, Jerry Lake

Re: HP-67 key label restoration

Message #2 Posted by [David Ramsey](#) on 9 Nov 2002, 1:21 a.m.,
in response to message #1 by Jerry Lake

How could the key labels rub off? I thought the keys were double-shot. Or are you talking about the labels on the face of the unit, rather than the labels on the keys themselves?

Re: HP-67 key label restoration

Message #3 Posted by [Jerry Lake](#) on 9 Nov 2002, 6:38 p.m.,
in response to message #2 by David Ramsey

The key labels I'm talking about are those beneath the keys on the case.

Re: HP-67 key label restoration

Message #4 Posted by [Vassilis Prevelakis](#) on 9 Nov 2002, 2:36 a.m.,
in response to message #1 by Jerry Lake

Don't bother. Just buy a broken HP 67 from eBay and swap the inards.

**vp

Re: HP-67 key label restoration

Message #5 Posted by [John Garza \(3665\)](#) on 9 Nov 2002, 10:10 a.m.,
in response to message #1 by Jerry Lake

IF...you mean the labels on the keyboard itself (gold or blue lettering), then you should use rub on transfer lettering found in many electronic shops. Do this with the unit disassembled and all the keys removed. After it's done, mask the display and spray clear matte acrylic on the keyboard to seal the letters and prevent them from rubbing off.

IF.. on the other hand, you mean the lettering on the slant face of the keys (black color), just use enamel model paint and a very fine brush or sharpened toothpick.

And I'm sure you don't mean the lettering on the tops of the keys, as they are double injection molded. Meaning... you could sand down the top half of the key and still see the lettering.

Hope this helps,

-John

Re: HP-67 key label restoration

Message #6 Posted by [Jerry Lake](#) on 9 Nov 2002, 6:43 p.m.,
in response to message #5 by John Garza (3665)

John Garza-

Thanks for the tip. I haven't seen the press-on lettering anywhere for a while and assumed it had been rendered useless by the PC font programs.

Are you implying the product is commonly available in electronic shops? I'm heading out to visit a couple today.

I'm also looking on Ebay to see if I can buy a broken 67 and use the case. I took mine apart today and cleaned everything. I was able to find an o-ring that fixed the card reader also.

Jerry

Re: HP-67 key label restoration

Message #7 Posted by [Wayne Brown](#) on 11 Nov 2002, 1:04 a.m.,
in response to message #6 by Jerry Lake

I saw rub-on lettering in an Office Max about a year ago, but I don't recall if they had any small enough for a calculator faceplate.

Re: HP-67 key label restoration

Message #8 Posted by [db\(martinez,california\)](#) on 10 Nov 2002, 10:53 a.m.,
in response to message #1 by Jerry Lake

john - i may be wrong, but wasn't it mark hoskins that made those aluminum replacement labels? if it was look for his new address on ebay in his ad/auction of hp67 card reader sticky wheel kits. if not, use the mohp search to look back a year or so for a series of posts on this subject. it was a long bunch with a lot of titles and a lot of flames by people who were worried about the resale value of their calculators against the guy who made the labels. he ended up just printing "replacement label" somewhere on them. that seemed to satisfy most of the "glass case full of hp" (i'm one of those) types and all the people who still use the old stuff (i'm one of those too).

!long live appropriate technology! - d

Re: HP-67 key label restoration

Message #9 Posted by [John Garza \(3665\)](#) on 10 Nov 2002, 12:10 p.m.,
in response to message #8 by db(martinez,california)

I think Jerry was originally talking about the KEY labels on the front of the machine. It's not a new idea to make replacement aluminum "plates" for the backside. I seem to remember someone doing it 20 years or so ago.

For me at least, usability and appearance reign over originality. Almost all fully functional 67s MUST be non-original as they need a drive roller replacment. That means 1) a new drive roller and 2) a wrinkled or replacement back plate.

Besides, I would think a properly modified and fully functional 67 would fetch a higher price than an original non functional one. And I would think, some of the PPC mods (phase 1 interrupt switch, write protect defeat switch, new backplate, etc), if done professionally (i. e. magnetic reed switches, no holes drilled in the case) would fetch an even higher price.

-John

Re: HP-67 key label restoration

*Message #10 Posted by [db\(martinez,california\)](#) on 10 Nov 2002, 4:15 p.m.,
in response to message #9 by John Garza (3665)*

i agree 100%. who goes to a car show just to look at the stockers anyway?

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP stoped production of almost all calculators?

Message #1 Posted by [Silvio de Morais](#) on 7 Nov 2002, 10:39 p.m.

I'm shopping for a 48gx, and found the following statement on samsoncables.com.

"This model (48gx) has been discontinued. Quantities are limited, but we still have some in stock. (According to our distributors, all HP Calculators have been discontinued by HP with the exception of the HP10BII, HP12C, and HP30S.)"

Does anyone know if this is true?

Silvio

Re: HP stoped production of almost all calculators?

Message #2 Posted by [Raymond Hellstern](#) on 8 Nov 2002, 6:26 a.m.,
in response to message #1 by Silvio de Morais

You could check the online shop of HP itself to see which calculators are still available.

Raymond

Re: HP stoped production of almost all calculators?

Message #3 Posted by [J.Manrique López de la Fuente](#) on 8 Nov 2002, 6:26 a.m.,
in response to message #1 by Silvio de Morais

Yes, it could be stopped.. but HP is in Calculators Business, and to stay..

Regards,

J.Manrique

HPCC Member

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP85a & b

Message #1 Posted by [Jeff](#) on 7 Nov 2002, 10:15 p.m.

We have a HP85a and b fitted in our plant but are having some problems with it. we have an operating manual but no service manual. I am trying to find a service manual for either of them, If some one could give me some help it would be much appreciated

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

hp-41 overlay template

Message #1 Posted by [David](#) on 7 Nov 2002, 5:45 p.m.

Does or can anyone maybe make or have an overlay template for the hp-41? maybe a scan or something.

Re: hp-41 overlay template

Message #2 Posted by [Emmanuel, France](#) on 8 Nov 2002, 12:41 a.m.,
in response to message #1 by David

Yes, I made a scan of several. I have it somewhere on my HDD.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Polishing scratches in metal bezel

Message #1 Posted by [Don Davis](#) on 7 Nov 2002, 4:51 p.m.

Thanks to David, Randy, Katie, Renato, and others for helpful advice on my previous restoration questions. I should have said it earlier, but I do appreciate the advice.

Additionally, I'd like to know if anyone has found a way to remove light scratches from the aluminum bezel of Voyager series calculators.

Thanks, Don

Re: Polishing scratches in metal bezel

Message #2 Posted by [Emmanuel, France](#) on 8 Nov 2002, 12:45 a.m.,
in response to message #1 by Don Davis

You can use an Humbrol Metal Cote Polish paint.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Mechanical Self-opening calculator

Message #1 Posted by [Jo Page](#) on 7 Nov 2002, 2:16 p.m.

Hi all,

Looking for help in purchasing a HP Mechanical self-opening lid calculator. Can't seem to find a location to buy one, although I've come across a few websites that have information on them. Your help would be much appreciated.

Jo

Re: Mechanical Self-opening calculator

Message #2 Posted by [Jim L](#) on 7 Nov 2002, 2:35 p.m.,
in response to message #1 by Jo Page

Try the classifieds here or ebay. These things are marketing giveaway items that can be found with just about anyone's name on them. If you pick up one of the inflight magazines on your next trip you can probably find an order form to get one with any logo you want on it. There's usually a free sample offer. You can probably get HP's name since they probably don't check your identity. I mean how often does someone pay to advertise for someone else.

Re: Mechanical Self-opening calculator

Message #3 Posted by [glynn](#) on 7 Nov 2002, 2:46 p.m.,
in response to message #2 by Jim L

This is a "promotional product": as Jim says, a "giveaway". HP does not make them, so far as I can tell. You can order them (you must buy in quantity) from:

<http://www.bestimpressions.com/itfrom40.html>

and put your OWN name on them, logo or catchy phrase. It would seem to be a good marketing tool, though how good a calculator it is, I don't know.

Actually, the Promotional products industry tries to avoid copyright infringing-- they can duplicate any artwork YOU supply, but then the onus of any backlash from the company infringed upon is often covered by an agreement holding the product maker harmless and you fully liable. So don't go off printing logos of companies you don't speak for.

I was probably being too flippant

*Message #4 Posted by [Jim L](#) on 7 Nov 2002, 3:08 p.m.,
in response to message #3 by glynn*

about getting HP's name on one made for you. I was thinking that no one would confuse one of these things with an actual HP product but you're right that a trademark is a trademark and protected anyway.

Re: I was probably being too flippant

*Message #5 Posted by [Ron Ross](#) on 7 Nov 2002, 3:28 p.m.,
in response to message #4 by Jim L*

Well, I suspect that only the NEW HP would promote itself with such a calculator (I have seen them) when they in fact made a Hp6s that could have also been given away as a promotional item for probably less.

But some HP marketing genius (who might not even realize Hp is still in or EVEN WAS, in the calculator business) thought that giving away a cute little four function calculator was a great idea.

Ironic and represenative of how things are at HP today.

And the old Hp would sue your butt off for putting their name on such an item (for reasons of quality), the new Hp would also probably sue, but for the reasons that you might be dipping into their product share.

Re: I was probably being too flippant

Message #6 Posted by [Raymond Hellstern \(Germany\)](#) on 8 Nov 2002, 6:14 p.m.,
in response to message #5 by Ron Ross

In about 1990, the old HP let out a silver colored key clip, which has a small abacus on the other end, connected with rings, in between a silver colored plate with the Hewlett-Packard logo and letters. This abacus has 5 rows with 5 balls each. The text on the abacus frame said: "RECHNEN SIE MIT UNS"

which has at least two meanings in German. 1. calculate with us (our products)
2. be aware of us (our products, etc..)

This promotional item was given to people who bought a new HP-48 from W&W, and maybe on some other occasions. It was announced as the smallest HP calculator ever made, only 3 * 2.5 * 0. centimeters, all pure metal.

However, this promo item looked really nice!

Raymond

Re: Mechanical Self-opening calculator

Message #7 Posted by [Paul Brogger](#) on 8 Nov 2002, 2:05 p.m.,
in response to message #3 by glynn

I found one of these (all black, no HP or other logo) in a clearance bin at a Staples store for \$1.00 . I picked it up for my elementary school kid who likes gadgets.

The smooth, easy swing of the cover up & away from the display looked really cool. Other than that, it's like any of the dime-a-dozen, rubber-keyed, drab, uninteresting four-function calculators that may be found anywhere.

An HP giveaway model *would* be worth something to some of us as ironic/tragic commentary on the passing of "the good old days" -- as a calculator, however, I'd say it's essentially worthless.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

28s

Message #1 Posted by [HB](#) on 7 Nov 2002, 1:08 p.m.

Key commands for a system reboot please! It hit the floor and now all I get is a Black Line.

I'm really hoping it isn't the "black line of death"!!

Any help is greatly appreciated!

HB

Re: 28s

Message #2 Posted by [Andreas Stockburger \(EU\)](#) on 7 Nov 2002, 1:36 p.m.,
in response to message #1 by HB

Hi,

1.) Switch HP28 off 2.) Press and hold "INS" and "->" simultaneously 3.) Press ON 4.) Release all 3 keys

Thats it ...

Best regards

Andreas

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

10C: asterisk occasionally flashes on LCD

Message #1 Posted by [Therese](#) on 7 Nov 2002, 12:22 p.m.

What does this mean? Is my battery getting low? It appears every now and then in the lower left part of the display for just a couple of seconds and then goes away.

Re: 10C: asterisk occasionally flashes on LCD

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 7 Nov 2002, 3:36 p.m.,
in response to message #1 by Therese

Hi;

that's correct, Therese: the blinking asterisk **means** that the batteries are running low for the *internal sensors*. So, you may also have a bad contact (any sort of dirt will cause that, even finger fat). If you have the means, test each battery; maybe one of them is getting low.

It's also good practice checking for batteries leakage (monthly); your HP10C (as you are probably fed up listening) is a lot precious, and this is a simple check to keep it alive.

Best regards.

Re: 10C: asterisk occasionally flashes on LCD

Message #3 Posted by [Therese](#) on 7 Nov 2002, 4:09 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

Obrigada, Luiz

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Questions about the 82240A/B

Message #1 Posted by [Silvio](#) on 7 Nov 2002, 7:57 a.m.

Hi all,

I just bought an 82240A and a B and the 82242A, and I have a few questions.

- 1) What are the differences between the 2 models?
- 2) How can I plot the nice function graph that shows on the 82240B box from a 41CX? The output looks like an advanced version of PRPLOT.
- 3) Is it possible to read data from the IR module 82242A?

Sorry for all the questions, but I'm new to the IR arena - could not afford this technology before moving to US :-)

Thanks a lot,

Silvio

Re: Questions about the 82240A/B

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 7 Nov 2002, 11:52 a.m.,
in response to message #1 by Silvio

Hi, Silvio;

the major difference between both 82240A and B is the available character set. The B version was offered latter, because of the extended character set from the HP48SX, and it contains both ROMAN 8 (the only one available in the A version) and ECMA 96. You can select which of them to use by the escape sequences 27 249 (ECMA96) and 27 248 (ROMAN8). If you want to use the escape sequences, the 82242 Owner's Manual explains how. The HP48SX has the OLDPRN function, that remaps its printing output when you are using the 82240A printer with

it. If you are using the 82240A and you want to print with the B version, the best solution is to clear the PRTPAR variable. If I am not wrong, you do not own any HP48 series, at least for now, right? So, do not worry about this.

The other interesting difference you'll see when using each of them for listing programs or printing any bunch of sequenced text lines. The B version allows a better reading, because an extra blank dot-line is added between each printed line (in fact, this blank dot-line is "borrowed" from the upper line characters, that are one dot-line shorter).

The fancy printout you see in the photo is from the sample program that is shown in the HP42S Owner's Manual. This sort of printout can be generated in any of these: HP42S, HP48(any), HP49G, BUT the HP41. What you see is a mix of text and LCD printing. If you use ACCOL, BLDSPEC, ACSPEC, SKPCOL and PRBUFF you'll be able to build and print custom characters with the HP41, but you'll still have the extra blank dot line when printing. Have a look at chapter 5 (Graphics) in the 82242A Owner's Manual and check for the possibilities. In any case, you'll have to create programs for the HP41 in order to use these features for plotting.

The best way to read data from the 82242A is using INPRT for the HP48 (there are different versions of INPRT for the S and G series). This way, the HP48 will "read" the IR input and save the input data as characters. You can collect program listings, trace calculations and program output, i.e., whatever goes out from the 82242A. Then, simply connect the 48 to your PC and transfer the collected data.

Does it help? If you need anything else, e-mail me; if I can help, that will be my pleasure.

Inté. (seeyah)

Re: Questions about the 82240A/B

*Message #3 Posted by [Glen Kilpatrick](#) on 7 Nov 2002, 11:54 a.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

I didn't know that, that there were different versions for INPRT (I've got it, but never successfully used it, DOH!). Thanks (again :), Vieira.

Re: Questions about the 82240A/B

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 7 Nov 2002, 3:43 p.m.,
in response to message #3 by Glen Kilpatrick

Hey, Glen;

I'm glad I can include fresh information in here. I am sure I got INPRT for the G series at the www.hpcalc.org. Anyway, I have them both somewhere in here. If you do not find them easily, let me know and I'll send them for you by e-mail.

Best regards.

Re: Questions about the 82240A/B

Message #5 Posted by [Silvio](#) on 7 Nov 2002, 1:20 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

Thanks Luiz, it helped a lot. It's a shame we can't have a fine plotting from the 41, but nothing is perfect. I don't have a 48 yet, but I'll have to buy one now ;-)

Also, is there any way to send data to the 41 using the IR module? In that way, one could use the INPTR to read a program from the 41 into a 48 and store it on a PC, for example. And do the reverse when needed. Any ideas?

P.S. Did you get my emails about the X-Memory modules?

Silvio

Re: Questions about the 82240A/B

Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 7 Nov 2002, 3:43 p.m.,
in response to message #5 by Silvio

Hi, Silvio;

first of all, thank you for your help. I'm working on the HP31E and, as soon as I have it running around the table, I'm posting something. Thank you.

The bad news is that the 82242A does not have an input sensor, say, it you cannot use it to receive data. The output can always be used to send data to an HP48 (also, the HP49

does not have any built-in IR, so it cannot be used with IR devices), but it is a printer-related output; this means you will not send anything but IR-coded characters. I am not sure about it, but maybe our wizards in here (no pun intended at all, I respect you all in your powerfull and admirable knowledge) know a way to send code by using synth resources, who knows!

Best regards. Inté!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

hp 17bII

Message #1 Posted by [Andre](#) on 6 Nov 2002, 7:36 p.m.

How many parenthesis can a HP 17BII accept?

Is there any limitation?

Re: hp 17bII

Message #2 Posted by [Raymond Hellstern \(Germany\)](#) on 7 Nov 2002, 2:40 a.m.,
in response to message #1 by Andre

Just try how many you can key in;-)

If your equation has more than e.g. 20 nested parenthesis levels, maybe you should rethink the formula...

Raymond

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Faulty shift & alpha keys on hp39g

Message #1 Posted by [Mike](#) on 6 Nov 2002, 7:13 p.m.

Hoping someone out there has some ideas on this one. I have an hp39g with intermittent faulty shift and alpha keys, mostly they don't work. I have tried spraying electronic contact cleaner in through the keys but this doesn't really help. Maybe it's not faulty keys but something else??

My next step is to open it up and was hoping someone who has already opened one up can point some directions my way on doing this.

Maybe this is a common problem with them, why are there so many of them for sale on the internet, ie ebay??

Mike

Re: Faulty shift & alpha keys on hp39g

Message #2 Posted by [Raymond Hellstern \(Germany\)](#) on 7 Nov 2002, 2:36 a.m.,
in response to message #1 by Mike

If it's still under warranty, I'd simply let HP exchange it for a new unit.

Raymond

Re: Faulty shift & alpha keys on hp39g

Message #3 Posted by [Mike](#) on 7 Nov 2002, 3:46 p.m.,
in response to message #2 by Raymond Hellstern (Germany)

I should have mentioned that warranty is not an option, this is last resort stuff.

Mike

Re: Faulty shift & alpha keys on hp39g

Message #4 Posted by [Raymond Hellstern \(Germany\)](#) on 7 Nov 2002, 7:30 p.m.,
in response to message #3 by Mike

This type of housing (39G,40G,49G) is easy to open. Just take a look at www.hpcalc.org or maybe in the forum archives here.

If you apply some pressure below the display, and try those 'faulty' keys, do they work then?

If yes, it's the same pcb contact problem mentionned in an hpmuseum thread a while ago (-> archives).

Another thread mentionned a company which sells new 39G's for \$25. Maybe that would be an option;-)

Raymond

Re: Faulty shift & alpha keys on hp39g

Message #5 Posted by [Mike](#) on 7 Nov 2002, 9:54 p.m.,
in response to message #4 by Raymond Hellstern (Germany)

Yes I checked and it does seem to be the pcb contact problem. I have tried searching/looking for the thread you mentioned but have had no luck, maybe someone can point me in the right direction or tell me if there was some trick in fixing this problem.

Thanks Mike

Re: Faulty shift & alpha keys on hp39g

Message #6 Posted by [Mike](#) on 7 Nov 2002, 11:27 p.m.,
in response to message #5 by Mike

I have managed to fix the problem. To help anyone else out there who also has this problem this is what I did.

Drilled out the melted poles in the battery compartment then gently pried it open from the screen end down. Then un-twisted the pcb board tags and put a very thin piece of cardboard or thick piece of paper under the ribbon contact for the keyboard to the pcb (so as to apply more pressure), reassembled and now it works great.

Rick

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

YMEC (Yet More Ebay Crazyiness)

Message #1 Posted by [John Garza \(3665\)](#) on 6 Nov 2002, 2:03 p.m.

Like others that post here, I was amazed to see an HP67 MIB going for \$1500+. I'll admit, I've been known to pay top dollar for a particular example when it is needed and I wanted to end the hassle of the search & evaluation process. But I have noticed a trend of increasing prices on ebay over the years. 2 years ago I bought a MIB 67 for \$450, 4 years ago it was a MIB 65 for \$300. So we're looking at..what.. an exponential price curve?

I think it may be what are called "late adopters" of ebay. As with other technological trends, this group tends to have more money than brains. This is not necessarily a bad thing (especially as seen from the seller's viewpoint!).

-John

Re: YMEC (Yet More Ebay Crazyiness)

Message #2 Posted by [David Smith](#) on 6 Nov 2002, 4:11 p.m.,
in response to message #1 by John Garza (3665)

From the looks of things that \$1500 HP-67 was very far from MIB. It is IB, but fairly well used. Price should have been around \$250.

Re: YMEC (Yet More Ebay Crazyiness)

Message #3 Posted by [Raymond Hellstern](#) on 7 Nov 2002, 6:27 a.m.,
in response to message #1 by John Garza (3665)

About ten or eleven years ago, I bought a *real* MIB 67 with lots of additional stuff for \$100, which seemed to be expensive for me those days. However, I wanted it, so I did it. About two years ago, my boss gave me his spare New In Box HP-65 as a present. *That* was really nice.

Raymond

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

XP upgrade from ME

Message #1 Posted by [Martin](#) on 6 Nov 2002, 1:50 p.m.

Hi all I have upgraded from ME to XP pro. I have data recorded to a cd that I can no longer view. Is it because the file system has changed from NTFS to FAT32. I have important photo's of my new baby son so any help would be gladly accepted.

Thanx

Martin

Re: XP upgrade from ME

Message #2 Posted by [Dave Shaffer](#) on 6 Nov 2002, 5:31 p.m.,
in response to message #1 by Martin

Martin,

This is a forum for HP calculators, not PCs.

However, most of us here are also PC users, too. I doubt your problem is due to the file format on the CD. XP should recognize the file format of whatever file system it is looking at. Have you tried opening/accessing your CD with the picture viewer (I think that's what it is called) in XP?

Even simpler, XP should recognize the CD when it is in its drive and at least show file names. Do other CDs work OK with your new system?

(In my opinion, your real mistake was "upgrading" to XP! I will stick with Win98 as long as I can. In fact, most of my PC use is still under DOS!)

You might want to look around for some PC forums for additional suggestions.

Dave

Re: XP upgrade from ME

*Message #3 Posted by [Ren](#) on 8 Nov 2002, 10:10 a.m.,
in response to message #2 by Dave Shaffer*

I agree with Dave about XP being an "upgrade".

Martin, Are you sure the CDR is "closed" that you finalized or "finished" it? Maybe XP will let you do that, but you may have to find another WinME PC with the same CDR software to do it.

Ren dona nobis pacem

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: HP41 Battery Circuit Board

Message #1 Posted by [Dave](#) on 6 Nov 2002, 1:15 p.m.

If you really mean "top dollar" there is a guy who is selling one on e-bay. \$80 starting bid, \$110 BIN. This is pretty expensive, if you ask me. About a year ago there was a guy selling them for \$50. That also was expensive, IMHO.

If this is the part you are talking about, it is the assembly that includes the battery contacts (a chronic failure item due to leaky batteries). Alternatively, there are often options to repair it. If interested in that, I can usually repair the assembly for \$25 plus shipping.

Here are two photos of I/O assemblies that I have repaired in the past. The both work fine now.

[This one had one bad contact.](#)

[This one was much worse.](#)

Here is the e-bay link for the new one if you are interested. [Click here](#)

Re: HP41 Battery Circuit Board

Message #2 Posted by [David Smith](#) on 6 Nov 2002, 4:14 p.m.,
in response to message #1 by Dave

Yes, for the price TAYTEC wants for his battery contact assembly on Ebay, one can find good working machines. I have repaired numerous contact assemblies and they have worked just fine for many years. The \$25 offer mentioned above is very fair.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-48GX's on Ebay

Message #1 Posted by [Don Davis](#) on 5 Nov 2002, 10:30 p.m.

There always seem to be a pile of new 48GX's for sale on ebay at a Buy-It-Now price of \$89. I'd be tempted to buy one as a backup, but I am afraid they will be really old stock. I much prefer the higher contrast of the black LCD display, even though the older models may be a little more substantial. Has anyone here tried these out? Thanks in advance.

Re: HP-48GX's on Ebay

Message #2 Posted by [Scuba Diver](#) on 5 Nov 2002, 10:56 p.m.,

in response to message #1 by Don Davis

No, I haven't, but if the seller is cedmunds then he usually indicates in his description whether it's the newer screen or not. I see he has a new black-on-grey unit for auction now, but the "buy-it-now" price is \$129.

I'm interested in your opinion regarding the contrast of the new machines. Is the contrast in the newer machines really that much better? Is the improvement so significant that it compensates for the lack of "substance" in these newer, Chinese-built units?

I've never been a heavy 48 user, so I don't think I've ever used one for long enough to notice, but I never found the older screen all that difficult to read. If it was an issue with power users, I wonder what took HP so long to fix it?

Re: HP-48GX's on Ebay

Message #3 Posted by [Don Davis](#) on 5 Nov 2002, 11:07 p.m.,

in response to message #2 by Scuba Diver

I wouldn't call myself a power user either, but... I find the screen on the newer 48GX substantially better compared to a unit made when they first came out. I found the old 48SX screen almost unusable in some lighting situations. The 48GX was a noticeable improvement, but the newest version is the first one I really like.

HP-41gx "Substance"? Was Re: HP-48GX's on Ebay

Message #4 Posted by [Silvio de Moraes](#) on 7 Nov 2002, 8:12 p.m.,
in response to message #1 by Don Davis

Hi Don,

What do you mean by the older 48gx models having more "substance"? Do the new models look weak, are they too light? Thanks.

Re: HP-41gx "Substance"? Was Re: HP-48GX's on Ebay

Message #5 Posted by [Don Davis](#) on 7 Nov 2002, 9:20 p.m.,
in response to message #4 by Silvio de Moraes

My first impression was that the newer HP-48GX feels a little lighter than my older unit, and that the printing of the key labels is a little poorer quality. In response to your question, I put them side-by-side, and the difference in weight is negligible. The key legends are a truly little better on the old unit, but the screen is definitely more readable on the newer one. For reference, the old unit was made in Singapore, and the new one in Indonesia. It would seem that my perception that the newer one was less robust was an probably an error. I apologize for giving the wrong information.

best regards, Don

Re: HP-41gx "Substance"? Was Re: HP-48GX's on Ebay

Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 7 Nov 2002, 11:41 p.m.,
in response to message #5 by Don Davis

Hi;

some months ago, I bought an HP48G+ to keep as a spare. I felt gladly surprised when I saw the LCD: the same one that comes with the HP49G, i.e., black dots in a light-gray background. Amazingly easier to read.

Is that what you mean about your 48's LCD?

Just to make sure about it.

Cheers.

Re: HP-41gx "Substance"? Was Re: HP-48GX's on Ebay

*Message #7 Posted by [Don Davis](#) on 7 Nov 2002, 11:48 p.m.,
in response to message #6 by Vieira, Luiz C. (Brazil)*

Yes, the black-on-gray display is the improvement I was referring to.

Re: HP-48GX's on Ebay

*Message #8 Posted by [Douglas Rohm](#) on 11 Nov 2002, 1:36 p.m.,
in response to message #1 by Don Davis*

Hi, I own a Singapore GX and an Indonesia GX. The Singapore unit has the blue screen while the Indonesia unit has the black screen. When I first started using the black screen I felt the same way, that it was easier to read and just looked better. But after going back to my Singapore unit, I have to say I like the blue screen better. In some situations, the contrast is just as good, only that its blue which I find easier to look at.

All in all though, its just a display and they both do the job well so it basically comes down to what you personally like best (blue screen for me).

Best regards, Doug

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Is this a 31E for sale ?

Message #1 Posted by [Renato](#) on 5 Nov 2002, 9:18 p.m.

See <http://www.gsc.state.tx.us/surplus/fsp74.html>

It says:

CALCULATOR HP 31E -- 58661023000 -- 1 EA -- 1.50 -- Located in District: WD

Looks like a 31e for sale, but only for government.

I can't get it - I hope one of you folks can !

regards from Brazil.

Re: Is this a 31E for sale ?

Message #2 Posted by [Emmanuel, France](#) on 11 Nov 2002, 3:36 p.m.,
in response to message #1 by Renato

Please read the pdf doc: http://www.tbpc.state.tx.us/hub/forms/ss_app.pdf I fyou really need one, I have a spare one.

Re: Is this a 31E for sale ?

Message #3 Posted by [Renato](#) on 17 Nov 2002, 1:57 a.m.,
in response to message #2 by Emmanuel, France

Emmanuel, Thank you for the link and for the offer. I posted the address here so that someone else can have a chance to get it. If someone did: can you post the price and the condition of the calc ?

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Solver for the 11C?

Message #1 Posted by [Glen Kilpatrick](#) on 5 Nov 2002, 10:58 a.m.

I ask only because the 20S has a "root-finder" in its library, and loading of such places an algebraic root-finding program into programatic memory (I think it takes ~71% of the total :), with the user to supply a function to solve for in the remaining steps.

So has anyone written such a Solver for the 11C? And if so, please post, and consider submitting to the MoHPC Software Library (<http://www.hpmuseum.org/software/software.htm>). Thank you.

Re: Solver for the 11C?

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 5 Nov 2002, 5:14 p.m.,
in response to message #1 by Glen Kilpatrick

Hi;

there is already a solver program for the HP11C listed in the Owner's Manual. My version is in Portuguese, so I do not have the actual page it is in the English version; try it around p. 160, something like Newton's Solution for $f(x)=0$.

Hope this is what you want.

Cheers.

Re: Solver for the 11C - actual page in manual

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 5 Nov 2002, 5:24 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

Hi;

I searched the HP11C.pdf file (MoHP CD set), and the correct page is:

154

Tha title is:

Newton's Method Solution to $f(x)=0$

If you have the MoHP CD's, the HP11C.pdf is in CD #1.

Cheers.

Thank you, Vieira

Message #4 Posted by [Glen Kilpatrick](#) on 6 Nov 2002, 1:41 p.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)

Thank you, Vieira, that sounds like just the ticket. I have an 11C in the mail to me, was planning ahead, so I'll know where to look....

gk :)

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP48G+ Precise Levelling Programme

Message #1 Posted by [Mathew Balsom](#) on 4 Nov 2002, 5:44 p.m.

Hi,

Im looking for a precise levelling programme for a Zeiss 007 and Zeiss 002 levels to be used in an HP48G+ calculator.

if anyone can help, please let me know as this would be very much appreciated.

cheers Mat Balsom

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

adaptor

Message #1 Posted by [lesley](#) on 4 Nov 2002, 3:25 p.m.

I have an hp adaptor 82059B. What calculators can I use this with?

Re: adaptor

Message #2 Posted by [Emmanuel, France](#) on 4 Nov 2002, 3:39 p.m.,
in response to message #1 by lesley

HP-41, HP-71, HP75, HP-97, HP8216X IL peripherals (except HP82166A IL Converter),
HP2225B ThinkJet printer, HP9114A or B Disc Drive, ...

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Persistence pays off!

Message #1 Posted by [Grant Henson](#) on 4 Nov 2002, 11:30 a.m.

Long-time reader, first-time poster here, just letting you know that I posted my HP memories over at the Memories Forum.

Re: Persistence pays off!

Message #2 Posted by [Scuba Diver](#) on 5 Nov 2002, 10:43 p.m.,
in response to message #1 by Grant Henson

Gee, Grant, your parents bought you a 28C as a high school graduation present?

Do you think they would want to adopt me?

When I was a freshman I stood in the campus bookstore drooling over a 28S, knowing that I'd have to work way too many hours and skip the necessities of life (like beer) if I wanted to buy one.

Believe me, I was really tempted...but then the weekend would roll around and I'd somehow end up at one of the campus bars...

Funny how that happened. Hehehe B.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP41 Repair Cracked Posts

Message #1 Posted by [Peter Graves](#) on 4 Nov 2002, 10:04 a.m.

I have an HP41C with one cracked and one missing screw posts both on the lower part of the calculator. Does anyone have some tips how to repair this?

Re: HP41 Repair Cracked Posts

Message #2 Posted by [David Smith](#) on 4 Nov 2002, 3:07 p.m.,
in response to message #1 by Peter Graves

I fix cracked screw posts with a plastic welding solvent available at most hobby shops. It comes in small bottles and contains the solvent methylene chloride (a.k.a. dichloromethane). It works by melting the plastic together. Standard and super glues will always fail.

My fix for sheared off screw posts (or missing ones) is much the same. However, I drill out the hole in the post until the screw slides into it without threading. I then fuse it to the place where the old post was, and thread a 1/4" longer screw through the hole into the case, tighten it down and let the weld set 24 hours. The screw post now just acts like a bushing, with no screw stress on it. The longer screws thread down into the case plastic where there is a lot of reinforcing, etc.

As far as where to get the longer screws... lotsa luck finding them. They are 2-28 self tapping sheet metal screw with a type "B" point. Also something called "Plastite" (?) screws are preferred.

To replace a missing post you will need to make one either by cutting a post off a truly defective HP41 or out of ABS/styrene plastic. The diameter is non-standard (something like 11/64"?). You will need to machine down some larger rod material.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Wanted stopwatch to 42s

Message #1 Posted by [Rikard Carlsson](#) on 4 Nov 2002, 6:05 a.m.

Has anyone a program for turning the 42s into a stopwatch ? Or even better, a program where you can take a time and then enter the number of pieces produced during the time. The calculator then calculates estimated pieces per minute.

Regards Rikard

Re: Wanted stopwatch to 42s

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 4 Nov 2002, 10:01 a.m.,
in response to message #1 by Rikard Carlsson

Hi;

I do not know if there is a program to simulate a precision stopwatch in an HP42S; it would need some loops and PSE instructions to simulate time counting, unless the HP42 has a poition in memory that can be read and manipulated, so a clock can be simulated. This is the trick that was used to simulate (trully) a clock in the HP28S. Anyway, if you want the program to compute # of pieces for a given time, try this:

```
LBL "PPM"
"T.(sec) each p:"
PROMPT
60
X<>Y
÷
"# of Pieces: "
ARCL X
AVIEW
END
```

Some improvements can be added, like choosing time basis for each piece (seconds, minutes, hours, etc.), input forms, integer # of estimated pieces, output look, storing data for statistics analysis... If you want any improvement, you can e-mail me directly. (Do you know how to type the program in?)

Cheers.

Re: Wanted stopwatch to 42s

Message #3 Posted by [Christoph Giesselink](#) on 4 Nov 2002, 2:32 p.m.,
in response to message #1 by Rikard Carlsson

Some basics to the clock ticks or time questions on the HP42S.

The HP42S programming language is similar to the HP41, but on the HP42S this programming language is rebuild by a high level interface in RPL, so synthetic programming isn't possible. Internally the HP42S is programmed in RPL with the objects known from the HP28 and HP48.

When I remember correct, there was a thought or discussion about native programming on the HP42S in the newsgroup comp.sys.handhelds in the early nineties or here in MoHPC. The thought was, every emulated HP41 command is saved as a RPL pointer object in RAM. When I write a program now, I can fill the program with dummy RPL pointers, then call the integrated memory scanner, go to the position of the program (but don't ask me how to find the address) and overwrite these dummy RPL pointers with own code. That's a sort of sythetic programming for the HP42S and for our further discussion let's asssume that this will work.

Now back to our time problem. Like all high end Pioneer calculators (veryfied on the HP17BII and HP27S) the HP42S has a 13 nibble (52 bit) tick counter at #50000 (=NEXTIRQ). The HP17BII and HP27S use this counter in connection with the timer2 content for the visible clock. So on all high end Pioneer calculators the content of =NEXTIRQ in connection with the timer2 content makes a good time base. When you write a very small piece of code using internal entries to get the ticks, how you want to handle them in the HP42S? Just calculate 2^{52} on your HP42S and you'll get something like 4.5036E15 depending on the display format. Putting 13 nibbles into a 12 nibbles mantissa don't work without precision loss. OK, who's interested in a timer with 1/8192Hz resolution in most cases? So it's possible to pack a tick value with reduced precision into a float number. But remember, we are speaking here about pure assembler code packed into a code object patched by hand into the HP41 code. This object can't of course be edit with the internal editor any more.

I can only say very very hairy. Perhaps I forgot something very important, and there's a much easier way.

Because of that I like my HP48, and with restrictions the HP28S. On both calculators it's quite

easy to add SysRPL or Code objects, but I don't want to discuss especially the techniques of SysRPL programming on the HP28S here.

Regards

Christoph

Re: Wanted stopwatch to 42s

Message #4 Posted by [Richard Garner](#) on 4 Nov 2002, 3:37 p.m.,
in response to message #1 by Rikard Carlsson

I wrote a program about 10 years ago that lets you use the 42S as a clock/countdown timer. I could send it to you if you think it would help. It's not fancy, but it will keep time to within +/- 3 seconds over an hours time. I'm sure it could be modified for splits if needed. I can send it to you or I could post it here.

Re: Wanted stopwatch to 42s

Message #5 Posted by [Chan Tran](#) on 4 Nov 2002, 5:50 p.m.,
in response to message #4 by Richard Garner

The 41 with time module would the the job easily. I have done similiar thing with my 41. I have always been surprised to see that so many people regard the 42S so highly. I think the 41 is a much better calculator even if it has less memory, only 1 line display and larger.

Clock/Countdown Timer 42s

Message #6 Posted by [Richard Garner](#) on 4 Nov 2002, 7:33 p.m.,
in response to message #4 by Richard Garner

Here is the clock program. It's simple, but it did what I wanted it to at the time.

```
00 { 140-Byte Program } LBL •gCLK•h ASSIGN •gSW•h TO 01 ASSIGN •gSETW•h TO
02 ASSIGN •gRUN•h TO 03 05 SF 27 STOP LBL •gSW•h CLRG CLST 10 LBL •gRUN•h
LBL 00 CLA 0.0001 0.0000277 May vary due to processor speed 15 - STO+ 00 RCL 00
•“HMS •g •h 5 Spaces 20 AIP „¥•hH:•h Append H: FP 1E2 * 25 AIP „¥•hM:•h Append M:
FP 1E2 * 30 AIP „¥•hS•h Append S AVIEW GTO 00 LBL •gSETW•h 35 •gSet Time +/- H.
•h „¥•hMMSS•h Append MMSS PROMPT •“HR STO 00 40 GTO 00 END
```

Re: Wanted stopwatch to 42s OOPS

Message #7 Posted by [Richard Garner](#) on 4 Nov 2002, 8:08 p.m.,
in response to message #1 by Rikard Carlsson

Sorry, this should be it.

{ 140-Byte Program }

LBL CLK

ASSIGN SW TO 01

ASSIGN SETW TO 02

ASSIGN RUN TO 03

SF 27

STOP

LBL SW

CLRG

CLST

LBL RUN

LBL 00

CLA

0.0001

0.0000277 (Numbers may vary due to processor speed)

-

STO+ 00

RCL 00

HMS

_____ (5 Spaces)

AIP

H: (Append H:)

FP

1E2

*

AIP

M: (Append M:)

FP

1E2

*

AIP

S (Append S)

AVIEW

GTO 00

LBL SETW

Set Time +/- H.

MMSS (Append MMSS)

PROMPT

HR

STO 00

GTO 00

END

A small remark (Wanted stopwatch to 42s)

*Message #8 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 4 Nov 2002, 10:19 p.m.,
in response to message #1 by Rikard Carlsson*

Hi;

Maybe it's not necessary to mention this fact, but any sort of time counter (stopwatch, clock, etc.) in the HP42S that does not use internal tick counter will only count while the program itself is running. This is not what happens in the HP28S, where the tick counter is an internal register. As Christoph mentions, there is such an internal position in the HP42S' memory that holds this count, but there is no easy way (yet) to use it in a program.

So, the time counting programs that will use loops, as the excellent version shown by Richard Garner, when stopped will stop time counting. Just beware of the fact it cannot be interrupted while counting. HP41's Time Functions access an actual Xtal-based clock.

Just my US\$0.05...

Thanks a lot for your help (NM)

*Message #9 Posted by [Rikard Carlsson](#) on 5 Nov 2002, 12:20 a.m.,
in response to message #1 by Rikard Carlsson*

NM

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

QPI for HP42S

Message #1 Posted by [Erik Ehrling \(Sweden\)](#) on 3 Nov 2002, 6:29 p.m.

I have now typed up a word document containing my version of QPI for the HP-42S. Please send me an email if you would like a copy of it (and do not forget to remove NO_SPAM from the email address first).

Regards, Erik

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP18C & HP28C ROM checksum?

Message #1 Posted by [Christoph Giesselink](#) on 3 Nov 2002, 6:11 p.m.

Does somebody know how are the ROM checksum correction WORDs or BYTEs in the HP18C and HP28C ROMs are calculated. I know how to verify them, but how they are calculated is a mystery to me. When using a correction WORD there are multiple solutions, when using a BYTE there's only one solution and none when the checksum without the last BYTE is #0000h.

So is there are a correction WORD or BYTE?

Where's the position in each block?

When it's a WORD, how they come to the used correction WORD?

TNX,

Christoph

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP19B & HP19BII ROM image?

Message #1 Posted by [Christoph Giesselink](#) on 3 Nov 2002, 6:10 p.m.

Has somebody an idea how to enter and execute code objects on the HP19B and on the HP19BII business calculators? I'm asking because I want to extract the ROM image of my HP19B over the IR port.

TNX

Christoph Giesselink

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

GPL alpha version sources of Emu42 for Win32

Message #1 Posted by [Christoph Giesselink](#) on 3 Nov 2002, 6:07 p.m.

Because of many requests for an HP42S emulator I decided to publish the alpha version sources of an program for Win32 that can emulate a HP42S and similar ones of this series. The sources base on Emu48 and are published **without** any support.

Because it's not finished product, I only publish the sources. You need the MSVC++ v6.0 compiler for compiling the sources and with additional work it will be possible to use the MinGW package for it.

Because of licence reasons ROM images aren't included, read J-F Garnier MoHPC article how to make make one. The emulator needs a one Nibble per Byte format also used by Emu48.

The links:

The emulator sources

<http://privat.swol.de/ChristophGiesselink/Lewis/Hp42demo.zip>

A ROM image CRC checker

<http://privat.swol.de/ChristophGiesselink/Lewis/Lewisrcrc.zip>

Universal image conversation programs

<http://privat.swol.de/ChristophGiesselink/Filetool.zip>

JFG HP42S article

<http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/articles.cgi?read=266>

Regards,

Christoph Giesselink

Re: GPL alpha version sources of Emu42 for Win32

*Message #2 Posted by [Erik Ehrling \(Sweden\)](#) on 3 Nov 2002, 6:25 p.m.,
in response to message #1 by Christoph Giesselink*

Very interesting! I haven't got VSC++, but the existence of an alpha version of a HP42S emulator for Windows is very exciting...

Regards, Erik

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-41CV Repair?

Message #1 Posted by [Michael Faulkner](#) on 3 Nov 2002, 5:04 p.m.

Hello,

I have an HP-41CV that needs repairing, does anyone know how I can go about getting my machine serviced?

Thanks, Michael

Re: HP-41CV Repair?

Message #2 Posted by [Emmanuel, France](#) on 3 Nov 2002, 5:47 p.m.,
in response to message #1 by Michael Faulkner

I have some experience in fixing HP-41s in France or Europe. I'm sure you'll find someone in your country who can do that. Good luck!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

More = Less ($x2^{(\text{Time}/\text{Halftime})}$)

Message #1 Posted by [Tom Sherman \(Maine\)](#) on 3 Nov 2002, 3:14 p.m.

No, this isn't a sermon on the spiritual hazzards of collecting too many HP calculators! The relation $dN/dt = kN$ occurs all over the place in the physical and biological sciences -- in first order chemical reactions, radioisotope decay, simple biological turnover, microbial population growth, the absorption of electromagnetic radiation by matter, the discharge of a capacitor, etc. etc. I used to teach a course on the applications of radioisotopes to biology (back in the sixties), and my students and I would spend hours with slide rules and semi-logarithmic paper, calculating and plotting the decay or build-up of materials. There are four variables in the integrated solution, $N_2 = N_1 * e^{kt}$, so one has four different possible cases to solve for. Since there are so many different applications of this "compound interest" relationship, one can wind up with a library of equations as one roves around the various sciences.

But with the solve routine of the 19B or 27S or 17B etc. calculators, one can cover all the possibilities with the one statement: $\text{MORE} = \text{LESS} \times 2^{(\text{TIME}/\text{HFTM})}$, or if one prefers the natural base, with $\text{MORE} = \text{LESS} \times \text{EXP}^{(\text{TIME}/\text{TRTM})}$, where HFTM stands for half-time, and TRTM stands for turnover time ($=1.44 \times \text{halftime}$). It doesn't matter which way time is flowing in the actual case, whether towards decrease or increase -- you know which it is, and the calculator doesn't care. With the numerical solve routine, you give the calculator three of the factors and it solves for the fourth, whichever it is. And of course "time" and "half-time" can actually stand for "distance" and "half-distance" if that is the nature of the physical problem.

I find it almost indecent that so much can be done with so little -- but that is also the joy, to one brought up in the age of trig and log tables, of the little pocket calculator.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Casio strikes first.

Message #1 Posted by [J.Manrique López de la Fuente](#) on 3 Nov 2002, 3:12 p.m.

Hello everybody,

Since new HP calculators aren't what most of us are waiting, because they are more or less to say "we are back", Casio has released ClassPad 300, just same concept than HP Xpander, but with CAS and more things:

http://www.casio.co.jp/edu_e/classpad/

I hope that Scientific Digital Assistant or HP Xpander II would exist some day..

Best regards,

J.Manrique

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Card Reader HP 82104A Melting Roller

Message #1 Posted by [Robert Pietersma](#) on 3 Nov 2002, 12:04 p.m.

Very many thanks guys for the hints, I found the articles, Fantastic,I will try it.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Card Reader HP 82104A Melting Roller

Message #1 Posted by [Robert Pietersma](#) on 3 Nov 2002, 11:06 a.m.

Suddenly while reading cards, the tranfer just got stuck. After pulling out the card I observed a kind of glew on the card. The card reader was 20 Years old so I took the thing apart and found out that the transport roller had been dematerialized. Taking out the roller is really not too difficult but where can I get replacement. I just bought a never-used-second-hand reader but after putting through some cards I observed exactly the same problem. Who can help me out of this desparate situation.

Re: Card Reader HP 82104A Melting Roller

Message #2 Posted by [Emmanuel, France](#) on 3 Nov 2002, 11:36 a.m.,
in response to message #1 by Robert Pietersma

Please contact waterhosko@aol.com He will be really useful in your case.

Re: Card Reader HP 82104A Melting Roller

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 3 Nov 2002, 11:37 a.m.,
in response to message #1 by Robert Pietersma

Hi;

have a look [here](#) and [here too](#); these links will lead you articles available hete, at the MoHP, too.

Hope you have success (I repaired two of mine after reading thess articles; good material)

Cheers.

Another solution

*Message #4 Posted by [Mike](#) on 3 Nov 2002, 12:05 p.m.,
in response to message #1 by Robert Pietersma*

Another solution, is to use fuel line tubing. Costs less than 10 cents per fix. Fuel line is available at model hobby shops almost everywhere.

This article shows how to repair the 67 but the same material works for the 41 reader.

[HP-67 Card Reader Repair](#)

The one that is best is a matter of preference. I like the fact that there is more surface contact with the tubing on the card and shaft, is nearly identical to the original and is the exact size required. I have fixed nearly 100 readers using this solution and it works great.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP41 program storage

Message #1 Posted by [Jay](#) on 3 Nov 2002, 9:01 a.m.

Is there a method of writing and reading an HP41 program using the HP-IL module to an RS-232 port connected to an IBM-PC, so it can be recalled into calculator memory? I am looking to replace my aged cassette tapes and card reader with storage on a CD-R, so I'd like to find something equivalent to WRTP and READP that would work over the RS-232 link. Perhaps a binary image could be written using synthetic programming and the PPC-ROM? -Jay-

Re: HP41 program storage

Message #2 Posted by [Emmanuel, France](#) on 3 Nov 2002, 9:39 a.m.,
in response to message #1 by Jay

Yes. You can use the Extended I/O HP82183A. The functions INP and OUTP are made for that. I use mine with an HP82169A IL/IB interface and HP82335A on PC. I recover or send data to/from PC using HP Interactive HP-IB software. But with HP82164 RS232c interface, you can use Win 3.1 Terminal.exe, Procomm, ...

Re: HP41 program storage

Message #3 Posted by [Jay](#) on 3 Nov 2002, 10:20 a.m.,
in response to message #2 by Emmanuel, France

Many thanks for the tip on using INP and OUTP! My IL knowledge is pretty rusty after 15 years of neglect, but I have the Extended I/O HP82183A, an HP62160A IL module, a HP82164A RS-232 unit, and even have a copy of Procomm! -Jay-

Re: HP41 program storage

Message #4 Posted by [Emmanuel, France](#) on 3 Nov 2002, 10:38 a.m.,
in response to message #3 by Jay

First set your HP82164A and Procomm lines correctly

.

Please refer to the interface user's manual.

On PC by Alt P, enter for instance 11 (9600,N,8,1), choose you COM port, ...
Saving to PC:

On PC, down 2x arrow (DOWNLOAD), 7) ASCII, File Name, ENTER

On HP-41, ALPHA program name ALPHA XEQ'OUTP

Getting from PC:

On HP-41, ALPHA program name ALPHA XEQ'INP

On PC, up 2x arrow (UPLOAD), 7) ASCII, File Name, ENTER

To be continued ...

Re: HP41 program storage

Message #5 Posted by [Jay](#) on 3 Nov 2002, 1:19 p.m.,
in response to message #4 by Emmanuel, France

Hi Emmanuel, Well, I have some success to report, using Procomm or Hyperterminal I can capture a hex file version of a program by using the command OUP. However, INP shows READ ERR on the 41c. Any suggestions? -Jay-

Re: HP41 program storage

Message #6 Posted by [Emmanuel, France](#) on 3 Nov 2002, 1:36 p.m.,
in response to message #5 by Jay

I think the buffer of HP82164A is too small. Please take a speed under 9600. Try 4800, 2400, 1200, 600 and worst 300. Let me know if OK.

Re: HP41 program storage

Message #7 Posted by [Jay](#) on 3 Nov 2002, 3:08 p.m.,
in response to message #6 by Emmanuel, France

I dropped the speed of the interface to 300 baud, and now see GOTO, PACKING, TRY AGAIN when I try to receive the hex file. Both sides of the RS-232 interface are set at 300, N, 8, 1. The file I'm trying to receive is 79 lines. The HP41C is empty of programs, has a quad memory module, and I executed SIZE 050, and did a GOTO, PACKING, prior to attempting to receive the file. -Jay-

Re: HP41 program storage

Message #8 Posted by [Emmanuel, France](#) on 3 Nov 2002, 3:34 p.m.,
in response to message #7 by Jay

You have not enough place in your program memory. If you have a X-Functions please SAVEP one of your program and then CLP it in program memory. Later you'll GETP it.

Re: HP41 program storage

Message #9 Posted by [Jay](#) on 4 Nov 2002, 11:34 a.m.,
in response to message #8 by Emmanuel, France

Looks like the problem with INP is I'm getting a corrupted download. I tried importing a much smaller hex file at 300 baud, N, 8, 1, the SETRS program that Chris gave as an example (Thanks Chris!), and a few lines were received ok, but there were numerous extra lines with extraneous commands. I'm at least getting something across the wire, so will try a 7-bit xfer next. Thanks for all the help!

Re: HP41 program storage

Message #10 Posted by [Chris\(FLA\)](#) on 3 Nov 2002, 2:46 p.m.,
in response to message #5 by Jay

You might want to turn on flow control on both ends.

This is text from Tony Duell's lifutils hardware setup instructions.

Configuring the interfaces

On the PC, turn off buffering and enable hardware handshaking:

On the HP41, load the SETRS program and run it to set the HP82164 interface to hardware handshake mode and to make it the primary device. A binary file of this program is given in hardware/setrs.p41 in the lif_utils distribution, and is given as a listing below :

```
0001  LBL "SETRS"
0002  66
0003  FINDAID
0004  SELECT
0005  CF 17
0006  REMOTE
0007  "SL2"
0008  OUTA
0009  "LI5"
0010  OUTA
0011  "C0"
0012  OUTA
0013  NOTREM
0014  END
```

Give this a try. I use my PC with Linux and Tony's lifutils as my storage system for my 41 and 71. Works a treat.

Good luck

Chris

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-49G I/O Port repair

Message #1 Posted by [Jeff](#) on 2 Nov 2002, 10:30 a.m.

Is there anyone who has experience with repairing the I/O or RS232 port on the HP-49G? I cannot get the calculator to pass the RS232 test or transfer any data to or from the calc. Would you entertain fixing this one? Please let me know. Jeff

Re: HP-49G I/O Port repair

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 2 Nov 2002, 12:28 p.m.,
in response to message #1 by Jeff

Hi;

there is an external solution - a small hardware assy - for these cases. If I am not wrong, there is a series of 49G with different electrical port characteristics; maybe yours is one of them. As soon as I find the schematics for the external hardware I'm sending for you, right?

Cheers.

Re: HP-49G I/O Port repair

Message #3 Posted by [Emmanuel, France](#) on 2 Nov 2002, 2:26 p.m.,
in response to message #1 by Jeff

Please contact ASAP A friend of mine, Vincent (castvi@aol.com). He has a good experience in disassembling/interfaces HP-49G.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

..._... **HP9144** ..._...

Message #1 Posted by [Emmanuel, France](#) on 2 Nov 2002, 4:44 a.m.

I bought a long time ago an HP9144 HP-IB drive in Germany and I was wondering how it worked. I do not have the user's manual and drivers. What I saw was the fact my PC recognized an HP-IB peripheral via HP82335A card. Thanks for assistance.

Re: ..._... HP9144 ..._...

Message #2 Posted by [Raymond Hellstern \(Germany\)](#) on 2 Nov 2002, 12:10 p.m.,
in response to message #1 by Emmanuel, France

Hi,

you know that the 9144/9145 were made mainly for use with HP9000 Series 300 computers running HP-UX.

I don't know if any drivers exist. AFAIK you could use the tape drive as normal device under HP-UX.

I doubt it will work with a PC.

Raymond

BTW: If you need tapes for this machine, maybe I have some spare...

Re: ..._... HP9144 ..._...

Message #3 Posted by [Emmanuel, France](#) on 2 Nov 2002, 12:55 p.m.,
in response to message #2 by Raymond Hellstern (Germany)

Thanks, Raymond. Then people will find it for sale on hpmuseum and later if not sold, on ebay. I thought I could pilot it via HP82169A from an HP-71B. It has 9 cassettes.

Re: ... _ _ _ ... HP9144 ... _ _ _ ...

Message #4 Posted by [Emmanuel, France](#) on 2 Nov 2002, 2:39 p.m.,
in response to message #3 by Emmanuel, France

Here are some pictures of the drive
and cartridges previously mentioned:

(picture unavailable)

(picture unavailable)

(picture unavailable)

(picture unavailable)

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

what do you use yours for?

Message #1 Posted by [db\(martinez,california\)](#) on 1 Nov 2002, 10:40 p.m.

this question was inspired by something that glynn wrote recently, and something cristoff said to glen kilpatric and me in davis:

if you get paid to use your hp, or if your hp is what you use to do calcs in school, or if other people use the programs that you write: which hp do you use? for what? why?

i expect to hear from surveyors, engineers, teachers, real estate agents, bankers, brokers, programmers, or maybe someone still doing nuclear medicine or ophthalmology with a calculator. i also hope to be surprised.

i'll go first. i use a 41cx to do construction layout. i use it because i need to check the work of surveyors who show up on my project with a casio, a pre-loaded data collector, and no common sense. i think there is less chance of "gigo" in what i do using an hp handheld than any other method. in a perfect world i would still use a 41 or some hp rpn because life is too short to use bad tools.

how about you?

Re: what do you use yours for?

Message #2 Posted by [Dave Shaffer](#) on 2 Nov 2002, 12:10 a.m.,
in response to message #1 by db(martinez,california)

I use, variously, an HP 41CX (my first favorite), an HP 11C (my second favorite because of its compactness), an HP 41C (not quite the second favorite because it has a sticky "7" key), an HP 32SII, and an HP 42 for in-class and in-lab calculations, as well as during homework grading - I teach non-calculus-based physics at the local community college. These same calculators are also used occasionally in the astronomy labs I teach.

I occasionally still use these, and they have been much more heavily used in the past, in my previous career as a professional radio astronomer. The '41s and the '42 have been used with small programs in all of these applications - never more than 20 or 30 steps though.

My HP 35 received heavy use in my last year as a graduate student and the first few years of my career - until the HP 11 came along. The '35 is now relegated to occasional use, mostly to see if the power switch still works!

Re: what do you use yours for?

Message #3 Posted by [Emmanuel, France](#) on 2 Nov 2002, 3:48 a.m.,
in response to message #1 by db(martinez,california)

First please accept my apologies but I do not speak English fluently. I use an HP-67, several HP-41s, HP-71B w/ 41/71 Translator Pac, HP-42S, HP-48SX w/ Zengrange Ltd 41CV Emulator Card, a PC w/ HP-IL/PC card and a 288Kb RAM Casio FX-890P (Intel 80C188 inside!). I'm astronomer amateur and handeld calculators are really useful and the HP-41 is particularly powerful. Synthetic Programming provides running a big program in X-Memories w/ a SIZE 319 and then 319 data registers are available. MCode speeds your routines up. Thus a x100 speed isn't rare. IL peripherals such IL Converter are necessary in order to pilot a telescopestep-by-step motor for instance. Non-IL extensions such Rambox or Eprom Box give you the way to get your own application modules. I use my calcs for scale modelling too, handle my accounts, ...

Addendum

Message #4 Posted by [Emmanuel, France](#) on 2 Nov 2002, 8:55 a.m.,
in response to message #3 by Emmanuel, France

I also pilot my Minolta XG-9 via a modified Time Module (cf. Control the World with HP-IL, by Gary Friedman). (picture unavailable)

Re: what do you use yours for?

Message #5 Posted by [deHavilland](#) on 2 Nov 2002, 7:23 a.m.,
in response to message #1 by db(martinez,california)

Hello, I just graduated from LSU with a BS in Biology. I used my HP32SII for every class I took, from Statistics to Ecology to Physics. It is a fine calculator. I know several people who used very expensive non-RPN graphing calculators (like the TI89) in Calculus, but the calculator only got them into trouble. My HP allowed me to perform mathematical operations, but was not a crutch; the lesson of intuitive mathematics was not lost on me. I am only a novice when it comes to math, calculators, and programming, but I do like to study (self-directed) these subjects. I begin medical school next August, and I hope that there will be pertinent subjects that will allow the use of my HP. If not, I will continue to use it to study (self-directed) mathematics and programming. Are there any physicians who post here? If so, let me know if you were able to use your calculator extensively in medical school and beyond. I have been wondering this for some time now. Thank you all!

Re: what do you use yours for?

Message #6 Posted by [Glen Kilpatrick](#) on 2 Nov 2002, 9:35 a.m.,
in response to message #1 by db(martinez,california)

I always go for the 48S first (last, and almost always), although I'll admit a lot of its use is checkbook balancing (I haven't had a calculus problem in decades). I find that I use the "graphing" capabilities almost not at all, and the visible stack almost continuously (the main display advantage over non-graphical). Having a composable command line is a nice compliment to the multi-line visibility.

But *what* do I do with it? Well, mostly it's a database, a backup device for my organizer. My favorite app is ROLDX (names & addresses), in several incarnations and by James Weisbin, and the second is MLCAL (machine language month calendar, Google can't advise me of the author). An organizer it ain't, yet the sheer quality and pleasure of using it (compared to a Pocket PC, Yeah, RIGHT) brings me back again and again.

Re: what do you use yours for?

Message #7 Posted by [Scoba Diver](#) on 2 Nov 2002, 1:36 p.m.,
in response to message #1 by db(martinez,california)

Well, I'm in banking, and, surprise, surprise, I use a 12C. This calculator sits on my desk at work and gets daily use. I often take it with me to meetings, because you never know when you'll need a calculator, and I HATE the calculator app on my Palm! The 12C is perfect; is offers all of the features one needs, and it easily fits into your shirt or jacket pocket.

I also have a 17BII; I purchased this calculator almost 8 years ago for a Financial Planning course and have barely used it since. It's a great calculator for students, but I must admit I'm not a huge fan of it.

The first HP that I fell in love with was the HP28S. Friends of mine in university used them, and I was incredibly jealous! To me, this calculator represented a huge step forward...infinite stack, some graphing, soft keys and an amazing design...I even loved the "wine" coloured shift key! This calculator told me that HP cared about the machines that they manufactured. Of course, I was a student at the time and couldn't afford the price tag, but I could admire it from afar (aka the campus bookstore)!

This is the point at which I started my love affair with clamshells. I know, they have their design flaws, but if you treat them with care, they're just fine! I now own a 28S and a 19BII; I'm reading the 28S manuals so that I can familiarize myself with all the features, and since I'm going back to grad school in the fall, these units will get LOTS of use.

There's my story in a nutshell (or should I say clamshell)!!! (I know...don't quit my day job!)

B.

Re: what do you use yours for?

Message #8 Posted by [Ben Salinas](#) on 2 Nov 2002, 8:33 p.m.,
in response to message #1 by db(martinez,california)

I mainly use mine for school. I am still in High School, and technically my HP 32sii belongs to the school, although i get to keep it for the full 4 years. I have this "hate" for graphing calculators, so I go through all my math classes without using a graphing calc, just my HP. Needless to say everyone hates me for the equation solver, quick programming, Curve fitting (I just learned about this feature, and am kicking myself now), and speed. I also use it for our UIL meets. UIL is basically a bunch of different high schools competing against eachother in different tests, as in Math, Science, Computer Science, and calculator (where everyone uses a 32sii) I do a bit of programming, but more just for fun. Thats my short story. (After all I am a new user... Was a hardcore TI-30xa user until last year) -Ben

Re: what do you use yours for?

Message #9 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 2 Nov 2002, 11:39 p.m.,
in response to message #1 by db(martinez,california)

Hi;

It took me a while thinking about this subject before writing, s I'd commit less mistakes.

I have no specific use and related calculator. What I must admit is that any RPL is my first choice for almost any activity.

Nowadays I act as a teacher, but my off-classes activities are HW and SW development. I use the HP's more often when studying and designing HW. My level of SW development goes from machine language to a few high-level languages. For now, I'm delving into Linux and related development environment.

I'd write a bit more about RPN and RPL, but almost everybody in here knows how I feel about them, so it's repeating exposure.

I used both HP41CV and HP15C when I was a student at the university (electrical engineering); today, using graphical interfaces and builder languages is mandatory, no space for calculators. The last time I develop something significant (for my own, I am not mentioning some SW development to some friends in the community) was final works on Backpropagation and

Perceptrons using an HP48G (artificial neural networks, 1999). The professor did not believe that it could be done in a calculator. My final degree was A, mostly because of the originality.

That's what I mostly like in using calculators: programming. I believe that there are two limits when dealing with them as programmable tools. The first one may be expressed in one question: "What can this calculator do for us?" This question USED TO BE answered in the calculator's manual, but the utmost models do not have this limits neither well defined, nor known at all. By knowing as much as possible (or desired) about the calculator, the user will go deepest into it's limitations. The second limit may be expressed with another question; "What can we do with this calculator?" For me, this question has answer in an infinite number. I'd never dare answering it briefly, because this is mostly the expression of the user's limitations, not specifically the tool's limitations.

I know this does not answers D.B.'s proposed survey, but I am sure I expressed a little bit more of my own concerns.

Cheers.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Has the HP 19BII been discontinued?

Message #1 Posted by [Drew](#) on 1 Nov 2002, 7:28 p.m.

Thanks,

Drew

Re: Has the HP 19BII been discontinued?

Message #2 Posted by [Scuba Diver \(Toronto, Canada\)](#) on 2 Nov 2002, 1:48 p.m.,
in response to message #1 by Drew

Well, the 19BII has been removed from the HP website and it's becoming extremely difficult to find new units, so I think that you are right, the 19BII has been discontinued.

In the summer I went looking for a 19BII and I could only find them in one store; Staples Business Depot (I think they're known as Staples in the US). They told me that the calculator could no longer be ordered, so once a store sold out, that was it.

To be honest, the new 19BIIs were nothing special; they were poorly made and you could tell. I had the opportunity to try out a few brand new 19BIIs and they were all the same...luckily, I found a new-in-box unit from 1996 at an electronics store and it was great!! You may want to keep your eyes on the classified ads here for an older one.

A few weeks ago someone mentioned that HP was coming out with two new financial calculators; that may be the reason why the 17BII and 19BII were discontinued.

Hope that helps! B.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 10C help please!!!!

Message #1 Posted by [alex](#) on 1 Nov 2002, 12:59 p.m.

I loaned my 10C to someone and they inadvertantly changed the display to read the European decimal system:

3,14

I would like to get back to the English system:

3.14

What are the keystrokes to change it back? Please help!!!

Re: HP 10C help please!!!!

Message #2 Posted by [Emmanuel, France](#) on 1 Nov 2002, 1:06 p.m.,
in response to message #1 by alex

Please maintain '.', and then press 'ON'

Re: HP 10C help please!!!!

Message #3 Posted by [Tom Sherman \(Maine\)](#) on 1 Nov 2002, 1:18 p.m.,
in response to message #1 by alex

With the calculator off, press the period key and hold it down while pressing the ON key. Then release the ON key. You will see (I hope) that the comma has been replaced by a period. You can repeat the procedure if you ever want the comma back, etc.

Thanks guys! Worked like a charm! ntxt

Message #4 Posted by [alex](#) on 1 Nov 2002, 1:40 p.m.,
in response to message #3 by Tom Sherman (Maine)

Re: Thanks guys! Worked like a charm! ntxt

Message #5 Posted by [Emmanuel, France](#) on 1 Nov 2002, 1:46 p.m.,
in response to message #4 by alex

Dear Alex, You're welcome. Kind words... It was our pleasure. Regards from Normandy.

Re: HP 10C help please!!!!

Message #6 Posted by [db\(martinez,california\)](#) on 1 Nov 2002, 9:30 p.m.,
in response to message #1 by alex

you loaned out your 10c??????????????

reminds me of the time in quito when two local friends asked to borrow my camera. i said in my baby spanish "mi mujer, talves. mi camera, necesitaramos hablar. mi calculadora, NUNCA." what i meant to say was "my woman, maybe. my camera, we have to talk. my calculator, NEVER. it must have made sense. "mi mujer" was pissed.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-41C/CV/CX ROM Revisions

Message #1 Posted by [Chris Catotti \(Florida\)](#) on 1 Nov 2002, 11:16 a.m.

I was reading my copy of *EXTEND YOUR HP-41* by W Mier-Jedrzejowicz, pages 639-642, **ROM Revisions**. I wanted to check the ROM revisions on my HP-41's.

The HP-41 is a 64K computer, divide into 16 4K pages of ROM. The most significant digit of the 4-digit hexadecimal address is the page, i.e., the system ROM's begin at addresses 0000, 1000 and 2000. The TIME module begins at 5000, the printer at 6000, the HP-IL at 7000. The lower and upper ports start at 8000 (lower Port 1) through F000 (upper port 4).

The ROM revision letter is a single letter located at xFFE in each ROM where x corresponds to the page 0 through F.

One way to check this is the following:

1. Assign **STO b** to a key. The PPC ROM function **MK** works. Use 145, 124, -12 to assign it to the shifted B key.
2. create the nonnormalized number 00000000xFFD, where **x** is the RO<M page of interest (0, 1 or 2 for system ROMs).
3. Go to any program in any ROM, for example if MATH pac is installed GTO "SINH".
4. Press key where **STO b** is assigned.
5. Press SST and keep it down. You should see the next program step. LBL 00 corresponds to a revision A, LBL 01 to revision B, and so on to LBL 14 which corresponds to O.

Here are the System ROM versions for ROM pages 0, 1 and 2:

ROM's	Date Codes	Comments
-----	-----	-----
DDE	1926-1940	All classical bugs
FDE	1936-1952	Bug 3 removed
FEE	1951-2034	Bug 1. 2. 4 removed as well
GFF	2035-84??	Bug 5, 7, 8 removed too. The first version of the H-41CV
HFF	84??-present	The current versionm of the HP-41CX
NFL	2329-present	Current version of the HP-41CX

Again from page 632 *Revision numbers are not always changed, even when small changes are made to the instructions in a ROM. The HP-41CX revision numbers have not been changed, though a number of changes have been made to the reset code (what happens when you press ON while holding down ENTER and backarrow). Even the change in the turn-on code which makes it possible to do a MEMORY LOST when you have a zero length buffer did not merit a new revision number.*

My Question - finally

How can I tell which version of HP-41CX I have, since the revision letters have not changes? Are there more that two releases of HP-41CX operating systems? Does anyone else care? Tools I have to look at ROMs are **CCD Module**, **PPC ROM**, **ZENROM**, **HEPAX Module**, and others.

Best Wishes,
Chris

Re: HP-41C/CV/CX ROM Revisions

Message #2 Posted by [Emmanuel, France](#) on 1 Nov 2002, 1:02 p.m.,
in response to message #1 by Chris Catotti (Florida)

Dear Chris,

I think you have to compare each ROM. Studying disassembled listing is a good solution. I use an Eprom copy of a service module and when I turn one of my HP-41s, it beeps and shows the followings messages:

CPU OK

SELECT CPU

I press '-' and I get:

ROM 0:N 1:F 2:L

If you practise MCode, those three letters come from codes at addresses 0FFE, 1FFE and 2FFE.

Yours.

Re: HP-41C/CV/CX ROM Revisions

Message #3 Posted by [Chris Catotti \(Florida\)](#) on 1 Nov 2002, 3:26 p.m.,
in response to message #2 by Emmanuel, France

I am pulling out those digits, but W. Mier-Jedrzejowicz says that " the HP-41CX revision numbers have not been changed, though a number of changes have been made" (Page 642).

Perhaps the ROMs have a checksum digit such that:

(sum of all bytes in the 1K page) modulo (256) = HH

where HH is a constant two digit hexadecimal number and is the same for all ROMs.

Did HP code it this way? Can I examine a specific CHECKSUM byte (what address) in search of at least identifying that one 41CX is the same or different from another?

Re: HP-41C/CV/CX ROM Revisions

Message #4 Posted by [Emmanuel, France](#) on 1 Nov 2002, 3:54 p.m.,
in response to message #3 by Chris Catotti (Florida)

Dear Chris,

Here are the displays I was talking about.

After pressing 'ON':

(picture unavailable)

(picture unavailable)

After key '-' for instance:

(picture unavailable)

Codes from 2 different HP-41CX:

Fullnut 0FFF 08C

1FFF 0C0

2FFF 1B9

Halfnut 0FFF 08C

1FFF 0C0

2FFF 1B9

XFFF is a rom checksum.

They are both NFL version?!

Re: HP-41C/CV/CX ROM Revisions

Message #5 Posted by [Chris Catotti \(Florida\)](#) on 2 Nov 2002, 1:55 a.m.,
in response to message #4 by Emmanuel, France

I have checked three 41CX's with the same result.

Reference the original message. I found one 41C, S/N 2048A01265 that has:

ROMs	DATE	CODES	COMMENTS
----	-----	-----	-----
GEF	2049		GOLD BALL CONTACTS AT BATTERY TUNNEL. BUGS 1, 2, 4 REMOVED. BUG 7 PRESENT

Has anyone seen these three system ROMs together?

Re: HP-41C/CV/CX ROM Revisions

Message #6 Posted by [Emmanuel, rance](#) on 2 Nov 2002, 3:03 a.m.,
in response to message #5 by Chris Catotti (Florida)

I'll check all of mines. There's NFL, GFF, GFE, ... I read somewhere that you can get thoses codes with the IL-Devil. I'll let you know when I'll find the article.

Re: HP-41C/CV/CX ROM Revisions

Message #7 Posted by [Chris Catotti \(Florida\)](#) on 2 Nov 2002, 9:47 a.m.,
in response to message #6 by Emmanuel, rance

I am using a **HEPAX** module function **DISASM**

The function prompts for a four digit HEX start and end address, and then displays the m-code listings. For ROM versions just enter xFFE for start and finish rangr\es where x is 0, 1 Or 2 for system ROMs or 3-F for the rest. The Checksum is the next byte xFFF. The checksums for 41CX (NFL ROMs) have matched your value.

Re: HP-41C/CV/CX ROM Revisions

Message #8 Posted by [Emmanuel, France](#) on 2 Nov 2002, 12:00 p.m.,
in response to message #7 by Chris Catotti (Florida)

Right, Chris !

Re: HP-41C/CV/CX ROM Revisions

Message #9 Posted by [Raymond Hellstern \(Germany\)](#) on 2 Nov 2002, 12:17 p.m.,
in response to message #8 by Emmanuel, France

Hi,

I'm using my own ML cmd REVX? for this. ROM page in X --> REVX? --> Revision string appended to ALPHA.

This works for pages 0 - 15, where the first three (built-in) pages give the ROM rev of the OS, e.g. N,F, and L, higher pages return a 4 character string, like TM1C, EF1D, etc, and some return simply @@@@.

Raymond

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP Expands Calculator Business Worldwide with New Master Distributors

Message #1 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 1 Nov 2002, 8:52 a.m.

From the HP web page:

<http://www.hp.com/hpinfo/newsroom/press/2002/021031a.html>

(It even mentions the 12C as "THE" RPN model)...

Re: HP Expands Calculator Business Worldwide with New Master Distributors

Message #2 Posted by [Dave Shaffer](#) on 1 Nov 2002, 1:36 p.m.,
in response to message #1 by Andrés C. Rodríguez (Argentina)

Note that the only mention of developing anything seems to be:

"detailed, aggressive marketing programs"!

No mention of any new calculators.

Re: HP Expands Calculator Business Worldwide with New Master Distributors

Message #3 Posted by [Paul Brogger](#) on 1 Nov 2002, 5:01 p.m.,
in response to message #2 by Dave Shaffer

I'm not giving up just yet.

Marketing programs are the only thing you'd develop with distributors. (I don't think I'd want to let distributors speak on behalf of users, for instance . . .)

And the mention of the 12C is only as an *example* of an RPN calculator -- not *the* one. Given their current product line, it's certainly the most widely recognizable model in current release. (Virtually everyone who owns a -48 or -49G knows what a -12C is, while the reverse cannot be stated with such confidence.)

So, I'm clinging to hope that the rumors of forthcoming models contain a few shreds of truth, that there's a hopped-up native-RPN -42S replacement among the newcomers, and that its off-shore manufacture won't leave it *utterly* unuseable . . .

(Come to think of it, maybe it is time to give up!)

Re: HP Expands Calculator Business Worldwide with New Master Distributors

*Message #4 Posted by [Robin](#) on 1 Nov 2002, 6:02 p.m.,
in response to message #3 by Paul Brogger*

Hey Paul, where did you hear that rumour about an HP42S replacement? Please let me know. You just put a permanent smile on my face.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

magnetic card for HP 67-97

Message #1 Posted by [Piero Italy](#) on 1 Nov 2002, 6:03 a.m.

Anybody know source for buy old/new magnetic card for this HP calculator or have experience to built-it?

Re: magnetic card for HP 67-97

Message #2 Posted by [Emmanuel, Francia](#) on 1 Nov 2002, 7:18 a.m.,
in response to message #1 by Piero Italy

I have some spare 40 magnetic cards holders and 80 magnetic cards bags. Ciao.

Re: magnetic card for HP 67-97

Message #3 Posted by [Chris\(FLA\)](#) on 1 Nov 2002, 3:11 p.m.,
in response to message #1 by Piero Italy

Yes, Go to this site:

<http://calcpro.com/>

Then select "Obsolete Calculator Accessories" from the drop down menu. Then click find.

Chris

Re: magnetic card for HP 67-97

Message #4 Posted by [David Smith](#) on 1 Nov 2002, 5:57 p.m.,
in response to message #1 by Piero Italy

The cards are also offered quite regularly on Ebay. Try searching for Ebay seller TAYTEC, he usually has them offered for quite reasonable prices.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Hp 48 s/sx manual

Message #1 Posted by [furrydog](#) on 31 Oct 2002, 8:05 p.m.

Looking for a download site for hp 48s/sx manual, can anyone help? Thanks

Re: Hp 48 s/sx manual

Message #2 Posted by [Emmanuel](#) on 1 Nov 2002, 2:43 a.m.,
in response to message #1 by furrydog

Dear 'FurryDog', I'm selling those manuals. Please my ad on this site. <p> HP manuals and QRGs only (FS) HP-48SX Owner's manuals I & II, and QRG (English)€/ \$ 45 | HP-48 QRG (French)€/ \$ 5 | HP-41C Petroleum Fluids Pac €/ \$ 25 | HP-41C Real Estate Pac €/ \$ 20 | HP-41C Aviation Pac €/ \$ 20 | All items are in real good cosmetic condition. Prices include worldwide shipping. I disclaim any responsibility in case of loss or damage. Please add €/ \$ 5 for insurance up to €/ \$45. <p> Yours

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP EE calculations

Message #1 Posted by [E Sanuel Levy](#) on 31 Oct 2002, 7:03 p.m.

HP CALCULATIONS I used HP pocket calculators for electronic calculations, and I needed a fast way to solve common problems using as few keystrokes as possible, and getting maximum information during the process. This method uses the repeating-t register. Formulas then in use were derived for pen and pencil mathematics, and have been totally outmoded by the calculator. These are keystroke procedures for quick solutions. Resistive Dividers; when calculating from known resistors, enter the lower resistor repeatedly. Key in the top resistor, and add, the result is the total resistance; then divide, the result is the fractional output voltage of the divider. Then multiply and subtract to see the output resistance from the divider. To design such a divider, key in the output resistance desired, and enter repeatedly. Key in the division fraction, and divide to see the upper resistance. Divide again to restore the fraction, key 1, subtract, change sign, divide, and see the lower resistor. The relation between the upper resistor and the output resistance is the fraction of the divider. 1 minus the fraction is the relation between the output resistance and the lower resistance. Given either resistor and the fraction; the other value may be found. I have used this method to find the added end "stop" resistors for setting particular potentiometer control ranges. The difference between the end range of the potentiometer fractions relates the potentiometer resistance to the total resistance. Thus a particular value of potentiometer may be used. An example of this solution: I chose to use a 1K potentiometer to adjust a power supply output, for use as a lamp dimmer. The control IC regulated at a voltage from the potentiometer of 4.75 volts. The voltage range was chosen as 16 to 24 volts output. Here we solve for the resistors to be added to the potentiometer to divide the output voltage to 4.75 volts which is the control voltage of an IC. Key 4.75, enter, 16 divide, see the fraction 0.3, and store 0. Key 4.75, enter, 24 divide, see, 0.2, store 1, and subtract. See 0.10, this is the change in fraction caused by changing the potentiometer setting, store 2. Key 1000, recall 2, divide, see 10105 ohms, this is the total resistance of the circuit, enter it repeatedly. Recall 2, multiply, see 1000 as a check of the procedure. Clear X, recall 0, multiply, see 3000. Clear X, recall 1, multiply, see 2000, as a further check, it is 1000 ohms different from the previous solution, thus when the potentiometer is moved to the end, the resistance to ground changes by 1000 ohms. 2000 must be added from the lower end of the potentiometer to the ground return. To find the upper resistance, you can subtract 3000 from the total resistance, see 7105 ohms, this is the upper resistance added to the potentiometer circuit. Some compromise values may be chosen. Transistor bias; I was solving for a transistor bias divider, and wondered how to account for the base current drop in the divider. I thought to divide the divider output resistance by Beta and add it to the actual emitter resistor. To do this procedure, solve

the bias divider resistors, storing the divider fraction. With R0 in the register key Beta, divide, add and see the emitter resistor equivalent to be added. Key the actual emitter resistor and add, see the total emitter resistor, accounting for the bias source drop. Key the source voltage; recall the fraction, multiply and see the divider voltage. Key 0.7, subtract, see the emitter voltage. Interchange X&Y and divide, to see the emitter current: check by multiplying by the collector resistor, to see the collector resistor drop. Summing network; I needed to design a telemetry output that combined several signals, to a common output, having a 10 K output resistance. The signal of interest was a +/- 12-volt VCO control voltage. The telemetry output was to be 0-5 volt, using the range 0.5 to 4.5 volts normally. The centering voltage was 2.5 volts from a regulated 12 volts supply. A third resistor to ground gave the desired output resistance. I found a general solution. Each resistor is determined by the fraction of its input voltage contributed to the output sum, thus the telemetry signal was to output 1/6th of its signal. The resistor was then 10K, enter repeatedly, and multiply by 6, see 60K. The centering voltage was 2.5 volts derived from +12, a ratio of 4.8 times, multiply to get 48K. The third resistor was found by subtracting the other two fractions from 1, $1 - 1/6 - 1/4.8$, a fraction of 0.625 and dividing, to get a resistance of 16K. Some compromise values were used, which proved satisfactory. RC frequency corners; the process may be simplified in that $2\pi fRC=1$. The known values are multiplied together and the product inverted to give the missing element. For a constant frequency solution enter 2PiF repeatedly. For a variety of solutions 2Pi may be entered repeatedly. Tuned circuits; intermediate results in the solution can give useful information. The square root of L/C is the impedance value of the component values alone at resonance. Key in L, then C, and store C in a register, divide and take the square root; this is the impedance of the resonant elements. Recall the capacitance value and multiply, then multiply by 2Pi and invert to see the frequency in Hertz. This is the frequency corner formula using Ro as the R value. The square root of L/C is also the output resistance Ro, of a simple LC filter, such as a power supply filter, and can be used to estimate transient voltages caused by current changes. Resonant values; when using a constant frequency, resonant values may be calculated quickly. Key in 2PiF and enter it repeatedly. Then key in either L or C, multiply twice, and invert to see the other resonant circuit element. When 2PiFL is shown, it is the reactance of the circuit values. This procedure gives quick trials of various circuit values, gives impedance values for filter and by-pass elements, and value choices for a given circuit Q. Ohms law; this may seem simple, but it can be used as a rapid verification of dissipation and the voltage and current relation. Remember the little circles of voltage E divided by the IR product. Key in the voltage repeatedly, and divide by either I or R to see the other value, as in $E=IR$. The power in a resistor can be found by keying in the resistor and dividing to get I, then multiplying to get EI. It can be used to solve $W=EI$, by entering the power repeatedly, and dividing to get either E or I. These methods allow rapid solutions; they will increase your ability to investigate possibilities in your choices. Practice will allow fast and sure answers to a wide range of problems. Familiarity will allow you to extend these methods to your particular problems. E. Samuel Levy, 754 Temple St. San Diego 92106 Tel 619-223-6292 e-mail designnut@cox.net

Good point!

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 1 Nov 2002, 11:14 p.m.,
in response to message #1 by E Sanuel Levy

Hi;

I read some lines of your post in a brief, but this was enough for me to understand this is not a post to be read in brief. I'm taking some notes about it, I'm reading it carefully, so I can understand your method.

Anyway, as far as I have already gone, I see that you use HP calculators the way I believe they must be used: with good sense. Knowing about their powerful resources will lead the user to easily find the answers. Also, using the basics with deep understanding will help the development of such descriptive methods.

I'm thanked for your time spent so I can see what you have been done. Sharing your method will, surely, help other users to use their calculator more efficiently.

Best regards

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP71B/HPIL/9114B File Operations

Message #1 Posted by [Philip](#) on 31 Oct 2002, 4:28 p.m.

All, I need some help with some file operations using the HP71B with 9114B disk drive. I have an HP labeled disk and I can perform CAT :1 to get the files listed on the diskette. I'm trying to copy all the files on original to a backup disk. All files that are of type BASIC or TEXT copy fine. However, there are 2 files that have "-5808" in the file type field and they give an "Invalid File Type" message when performing a copy. Any ideas? does the negative number on the file type mean they are protected and does that mean they can't be copied? Is there anyway around the copy protection if that is the case.

Thanks

Re: HP71B/HPIL/9114B File Operations

Message #2 Posted by [Emmanuel, France](#) on 31 Oct 2002, 5:27 p.m.,
in response to message #1 by Philip

-5088 indicates another format unknown by a "normal" HP-71B. Could be a format used by a special module (Translator Pac, Forth Assembler,...) or by another calculator (HP-41, ...). I'll search, don't worry.

Re: HP71B/HPIL/9114B File Operations

Message #3 Posted by [Philip](#) on 31 Oct 2002, 5:44 p.m.,
in response to message #2 by Emmanuel, France

Aha! This is a disk for the HP71 Data Acquisition ROM so I guess that means I need to have the ROM installed while performing the disk operations. Is that correct?

Thanks for the help.

Re: HP71B/HPIL/9114B File Operations

*Message #4 Posted by [Emmanuel, France](#) on 1 Nov 2002, 4:23 a.m.,
in response to message #3 by Philip*

Yes, Philip. You're right. If you can load the ROM and have an HHP Eprom Module, I can help you.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

hp 11c

Message #1 Posted by [mrcrow](#) on 31 Oct 2002, 3:29 p.m.

got this in london in 1983 still going strong but my hp 720c printer heads wont align..just 2 1/2 years old any advice to an old pro.

Re: hp 11c

Message #2 Posted by [Fred](#) on 31 Oct 2002, 4:33 p.m.,
in response to message #1 by mrcrow

Whats the point? I do not see the connection between a non mechanical calculator and a very mechanical printer and surely not all 11C calculators were functioning 2 1/2 years after purchase for whatever reason.....

Re: hp 11c

Message #3 Posted by [mrcrow](#) on 2 Nov 2002, 5:59 a.m.,
in response to message #2 by Fred

thought someone would suggest what i should do with the 720c to clear the fault. or what might be causing it. thanks for your reply.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

hp9122d floppy drive

Message #1 Posted by [andy](#) on 31 Oct 2002, 10:14 a.m.

Hi,

I am going to attempt to connect to an hp9122d floppy drive utilizing my 71b (or 75) along with an hp82169 hpil->hpib converter. The 9122d is very similar to the 9114a except it has hpib instead of hpil.

Has anyone else succesfully connected to an hp hpib floppy drive through an hp82169 convert? If so, do you have any advice?

Thanks,

Andy

Re: hp9122d floppy drive

Message #2 Posted by [Alex](#) on 31 Oct 2002, 1:03 p.m.,
in response to message #1 by andy

I don't think this will work. The 9122D is a "SS-80" command format drive, while I'm pretty sure the 9114-type drive is the older "Amigo" format, and I would think the HP-IL stuff is designed for "Amigo". If you could find a 9121-type drive, that is "Amigo" and might work. I did not have any luck connecting a 9114B drive to a HP1631D logic analyzer using the 82169 converter (sort of reverse from what you are trying).

Alex - www.calcmuseum.com

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-67 for \$1500?!

Message #1 Posted by [Amazed](#) on 30 Oct 2002, 11:40 p.m.

<http://cgi6.ebay.com/aw-cgi/eBayISAPI.dll?ViewBids&item=1392504740>

Re: HP-67 for \$1500?!

Message #2 Posted by [gifron](#) on 31 Oct 2002, 12:40 a.m.,
in response to message #1 by Amazed

Has anyone else ever been confused? I am. joe_oil has already bought at least four 67's (w/o boxes), all at high prices (like most things he buys), but nowhere near this extreme. He has good feedback from multiple sellers who also have good, high feedback. The feedback looks legit, so the bids on those items look legit. What am I missing?

thelxiepia??

Re: HP-67 for \$1500?!

Message #3 Posted by [Juan J](#) on 31 Oct 2002, 9:35 a.m.,
in response to message #2 by gifron

A very seroius case of the collector's bug?

What you are missing...

Message #4 Posted by [Mike](#) on 31 Oct 2002, 2:33 p.m.,
in response to message #2 by gifron

You are definitely missing something... you are presuming that something about joe_oil is fishy. What if fishy to me is the winning bid.

Check that feedback. Only 2 bid miles apart from each other. It may well be that someone knows of joe_oil's bidding history and tried to run him up.

I wonder if the winning bidder will actually pay for the item?

Oh! And about the quantity of items being bought. I can name several supposed collectors on this site (no not me) that apparently only buy but turn around and sell under different names. They buy tons of HP items of the same model.

What happens now?

Message #5 Posted by [Tom \(UK\)](#) on 31 Oct 2002, 2:44 p.m.,
in response to message #4 by Mike

If the seller says the top bidder won't buy and offers it to joe_oil, what should the price be??

If you take out all the bids by a defaulting bidder then the price payed could be about \$5 above the highest 'other' bids. \$160 in this case (\$5 above tomd - NOT me by the way).

What do others think about the price when a seller contacts the second highest bidder in this way?

Should buyer's resist and re-bid if the item is relisted? Or do higher and higher prices mean 2nd bidders are tempted to buy things at what could be inflated prices?

(PS I'm using the above as an example - for all I know the highest bidder is OK and will pay the price they bid)

The price should be...

Message #6 Posted by [Mike](#) on 31 Oct 2002, 3:27 p.m.,
in response to message #5 by Tom (UK)

2.5% higher than the previous high before joe_oil. I wouldn't pay more than \$155 + 2.5%

Mike

But what would you sell it for?

Message #7 Posted by [Todd G.](#) on 1 Nov 2002, 6:09 a.m.,
in response to message #6 by Mike

Perhaps, but what would you sell it for? There are a number of sellers on eBay who will turn around and sell the very same items they buy, frequently at incredibly high reserve prices. Despite their cries that they are not "dealers" and that they provide "added value" to the items they sell, in most instances, the price gouging is clearly evident after doing a little research. It's one thing when a bidder bids a large amount because he's voluntarily setting the price for himself. It's something entirely different when a seller REQUIRES a high bid to purchase an item.

My price would be...

Message #8 Posted by [Mike](#) on 2 Nov 2002, 11:08 a.m.,
in response to message #7 by Todd G.

You say "but what..." as if you already asked this question and it wasn't answered. This is the first time you asked...

But I'll answer

I would sell such a package at around \$500. Since I have not seen the actual calculator, I can't be sure. The box is only so-so.

Great running & great cosmetic HP-67 alone can sell from \$250 to \$300. With a good box and all the packaging, \$450 to \$500. If the Application pack was sold separately, it would sell for more. Reserve of \$450, Buy-it-now of \$500.

Let me ask you a question. Say, you had a 67 in great working and great cosmetics. **What would you sell it for?** I mean would you sell it for \$100?

Doubt it! You'll likely claim that you'd start it at \$1 and let it go where it may. But I can say for a fact that you would be dissatisfied if it only sold for \$100 with everyone else getting much more (true value).

And let me ask you another question, since you believe that \$1500 is too high. If you sold such a calculator and it went for \$1500 (clearly too high in your mind), would you take that \$1500? Why?

My auctions will never see those \$1500 prices. I set prices based on my time, the fact they are fully tested, and/or any faults are disclosed and according to what they should sell for. Buy-it-now just provides a means to end an auction quickly.

And yes, I do "add value." When anyone buys from me they know for 100% certainty that nothing is hidden, the unit works (likely repaired since most actually don't work) and has been tested.

There are a lot of copy-cat sellers that are trying to leverage off of my auctions. Sometimes they use the same words. Many post an auction # of mine. But almost none of them actually add any value to the calculators. Many don't even know if their calculators work. They are simply hoping to capitalize off of my auction prices. They say "as is" or "untested" and it's basically a trust me risk that bidders take.

I have had a few vintage calculators fail many months after they were sold. I have repaired these for free. How many sellers would do that? How many sellers even know how?

I give calculators away to many people. I repair calculators and readers for other collectors, that have purchased from me. One past customer bought a 67 on eBay and had the seller ship it to me first to repair the reader. All at no charge.

There are many pitfalls in buying HP calculators on eBay. There are occasionally great buys, like the \$14 HP-15C or the \$25 HP-41CX. But when anyone buys from me, they know before they bid exactly what they will get and that is a 100% fully tested calculator.

I seem to remember once that I got a 27S manual on eBay and when you complained, I sent it to you for FREE.

[Calculator buying tips](#)

Oops!

*Message #9 Posted by [Mike](#) on 31 Oct 2002, 3:29 p.m.,
in response to message #5 by Tom (UK)*

I meant the next highest bid increment over \$155. Not sure if that is 2.5% or \$5.00 as someone pointed out but it certainly is not the obvious \$1500. That is the only way you can avoid shill bidding.

HP-67 for \$1500

*Message #10 Posted by [joe_oil](#) on 31 Oct 2002, 7:38 p.m.,
in response to message #9 by Mike*

Interesting thread. I must admit that \$1500 for an HP-67 might appear ridiculous.

I was prepared to buy that HP-67 at or below my last bid. However, Thelxiepia seemed intent on winning the bid with no regard for cost (what I call a dangerous bidder as I myself have sometimes been).

For the record, I think Thelxiepia's bids were legitimate, and I do not expect to be contacted by the seller.

If, though, Thelxiepia was simply playing a game with bids that were not viable, then my counter bids would also be deemed not viable. Hence, I would not expect to offer more than the bid made before Thelxiepia's first counter bid.

Re: HP-67 for \$1500

*Message #11 Posted by [db\(martinez,california\)](#) on 31 Oct 2002, 11:36 p.m.,
in response to message #10 by joe_oil*

joe oil;

i have a question for you because someone said that you have bought several of one model of hp. i hope you take it as a question. i am not baiting you and i want to read your answer.

why would you want more than one of any model?

i'll tell you my take on it first, since i am writing this now and it's easy to just continue. it seems avaricious and totally incomprehensible to me to want to

have more than one example of any hp that you do not use for work (so you want a spare) or that you like to program extensively (so you might have two versions running to compare). it is your money that you are imho overspending, and you are not doing anything really detestable like buying up a load of the last 42's and selling them for a profit so it is your right. you may also be sifting through a lot of calcs to find one that you really love and are selling the off the seconds. i do believe however that if people are hoarding, it robs some of the rest of us of the chance of owning and using some of these rare and beautiful "works of art" - and that in running up the accepted price (the one you pay and then sell for) you have done a disservice to other people with your same interests.

all that is just my opinion and partly because i enjoy finding old rpns at flea markets and junk stores or trading for them almost as much as using them - except for the 41, which sits next ot my heart (literally) and gets used a bunch of times each day.

anyway, i hope that you don't take this like i'm bashing you. i don't mean to be. after all we do have an appreciation of great technology in common.

looking forward to your answer. - d

Can I borrow your words?

Message #12 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 1 Nov 2002, 12:19 a.m.,

in response to message #11 by db(martinez,california)

Hello, D.B. Good reading from you.

I thought no one else could see these facts as you mention. I'll wait for, say, four-five years from now to go "hunting" Hewlett-Packard calculators again, for a fair price. In fact, I believe it won't take such a long time, maybe three-four years, so we, who really understand what's the meaning of "works of art" applied to HP calculators, will have our (fair) chance to access them not for profit, but for our own daily use. Until then, these wannabuy people (just those whose interst fit in, please; no general addressing!) will realize the calculators they have bought are valuable as tools, not toys. There is no meaning on "showing" them as relics because they are not, they are state-of-the-art, top technology tools, not fancy toys to be exposed. Those who know about it will not like to see them instead of using, program-ming them. Those who do not know "*what are these strange remote controls for*" will keep the small talking

and tasting their drinks.

Time will tell.

(Comments? Flames? Blames?)

Re: Can I borrow your words?

*Message #13 Posted by [glynn](#) on 1 Nov 2002, 3:45 a.m.,
in response to message #12 by Vieira, Luiz C. (Brazil)*

Welllllll--

I did not, really, want to jump into one of these "ebay craziness" threads again (having got my fill some months ago). I am, as db is, and as Luiz is, a "user" more than a "collector". It may, therefore, be hard for me to comprehend the motives and actions of someone who sees A DIFFERENT VALUE than I do in an item, like a HP-67.

But there is no doubt in my mind anymore that collectors see through a different pair of spectacles than I do; it is not up to me to judge their motivations, though in some instances their actions seem to be counter to my sensibilities.

Will collectors "spoil" my options as a user? Well, maybe; perhaps they already have put some things out of my reach, or, more accurately, out of what MY OWN VALUE JUDGEMENT tells me is a reasonable reach. I always wanted a 16c; but I look at current auction prices and say, "no way"-- when many who only want it to "complete their series" DO find the prices within their budget. They see some value I don't, or are more interested in fulfilling their quest than I am in fulfilling mine. "To each his own."

As far as a 67 for \$1500-- yes, to me, that seems nutty; but then, perhaps, a few years from now, I will watch my collector-type friends here gloat at such bargains and marvel at ebay auctions where one goes for \$3000 or more. Then I may kick myself for not having had the foresight to "stock up"-- or at least consider the idea that, in addition to being a cool "tool" to use today, it may be one of those few cases where a piece of technology is actually an investment, capable of paying off monetarily at some future date.

As someone who helped "dumpsterize" an Imsai in the early eighties

(arggh), I fully acknowledge that the very things we de-value in the present are often prized in a collector's context. How many of us users threw away the boxes our calcs came in and marked up our user's manuals with highlighters and pen? (bad, naughty user!) Now, here we are, a decade or so later, and we sit on the sidelines as collectors wave their wallets at us, begging us for what we thought was a waste of space.

I gotta tell you, the story of my 9100a. I found it at a surplus store in 1986, got it for \$35. I had no idea WHAT it was, or could do-- and didn't care. What I really wanted at the time was a big aluminum case, for a project I was intent on building. It looked like something I could GUT, drill and cut to fit MY needs. So I bought it. When I got it home, just for a lark, I plugged it in and turned it on. The display faded on, and I was intrigued, not only that the display was a vectorized CRT, but that the dang thing STILL had a set of numbers from its last owner's last calculations-- core memory being non-volatile, there they were. So I played with that, put the 9100a aside in the thought that I might not tear it up just YET... and forgot completely about it until cleaning my closet before a move about four years ago. So I have what now seems to be "a collectible". And, now, I want to treat it as such. Dumb luck, it was-- but for now, I'm giving it a good home, and if I stumbled onto a 9101 (added memory box) or the port multiplexer for, say, a couple of hundred or so, I would not blink twice at "adding to my investment".

So-- user, collector; whatever each of us fits, it is because of the WAY we see what we have (and/or want to have) that determines what we consider sensible and reasonable. And I'd figure that there really are more than just those categories to factor in. The collector of only mag-card models may not understand why an HP-25 has anybody paying over \$50 for it. Or a collector who wants One of Each may shake his head that some collector is buying all the 67's that come up, and paying way over what HE would. But most of the REST of the world, meanwhile, is wondering what ANY of us are doing, anyway!!!

I have to say, though, to Joe_Oil and whomever else: it is NOT my understanding that if a bidder outbids you and does not honor HIS commitment, that lets you out of yours. ANY bid YOU make, you make willingly and accept the terms of that bid.

I myself once made a bid on ebay "out of spite" against another

agressive bidder... and now am the owner of a fairly expensive network analyzer (um, I don't have a network)... but I made the bid and so it fell to me. If auction participants are allowed to act in bad faith, then ANY auction becomes merely a first gambit in a play upon the seller's patience; a "gypsies bazaar" of counter-offering rather than an auction where the highest price wins. If someone defaults on their high bid, the seller should reserve the right to hold another auction, OR to sell to the next bidder in line, leaving appropriate feedback to ALL who won't honor the commitment they made.

If **I** were holding an auction, and two misfits ran it to the sky and then each defaulted, I would feel they had wronged me-- wasting my time and driving away potential interest in my item. Ebay makes it clear that a bid is serious business-- so if you AREN'T as serious as you make out with a bid in MY auction, expect me to try to get you kicked off ebay. I won't be interested in your argument that you should only pay x or $x+5$. I'll hold my NEXT auction without your golden advice, and without your bogus participation.

Anyway, in an ideal USERS world, there would be enough HP-67s for each of us. For collectors, that would constitute horror. But users like me are only at the mercy of the collectors whims to the degree that neither HP nor any other manufacturer has been willing or able to supply my needs as a calc user in 2002ad. If HP were still selling what I want to have, I wouldn't be caring what collectors do with the "old stuff"!!!!

Not!

*Message #14 Posted by [Mike](#) on 1 Nov 2002, 9:09 p.m.,
in response to message #12 by Vieira, Luiz C. (Brazil)*

In 3 or 4 years, they will be costing twice as much. There is a finite number of calculators. Most that are selling now will not be available in 3 or 4 years.

However, by that time there will be millions of more buyers. Supply and demand. The supply is fixed. Probably less than 1% of the population that knows about (or will want) HP use eBay.

Re: Not!

Message #15 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 1 Nov 2002,
11:34 p.m.,
in response to message #14 by Mike

Hi, Mike

my question still remains, with another approach: will HP calculators prevail as collectible pieces in three-four years? Let's get back 18 months only and check for their prices, availability and demand. Have they been offered in the same way they've been now at E-bay, say, 18 months ago?

I think many things will happen from now on, mostly if HP keeps producing (designing?) calculators. Anyway, I am convinced that users, the ones who know what Hewlett-Packard calculators are for, are the ones that can cease this "fever". I am not completely sure about it, but I would like to know what sort of electronic equipment (from HP or any other brand), other than calculators, that have been produced in such a large number of units or types. Say: oscilloscopes, multimeters, analyzers... TV sets and any domestics are off question, as PC's too; no way to beat them. Anyway, there is an expressive group of users that will claim that HP calculators of any time are valuable. Simply valuable.

What if us, calculators users, decide not to search for them? Who else will "understand" their value? Collectors only? I don't think so. Or, maybe, I'm completely wrong.

No one will offer hundreds of dollars to buy an 8088-based PC-XT today. Maybe in 20-25 years from now, as a relic (I keep at home, as tech reference, two working XT MB's, a power supply, an original green CGA.... My shrink is a lot concerned about it.). And that's simply because there is no one interested on lighting one of this dinos up to see what can be done with it. Unless there is another group of people I do not know about, offering hundreds of dollars for them...

I believe vacuum-tube radios are another sort of expensive and rare collectibles in USA (world wide?). I am an electrical engineer and I worked as a technician for the time I was at the university. I repaired a few of these boxes, but I was never called

to collect them. And I saw many old vacuum-tube radios at that time.

And there are many collectible items around the world.

About PC's: there are PC users world wide, and I am not sure if collecting computers is of any interest. About vacuum-tube radios: AFAIK, only technicians or declared radio lovers collect them. If collectors expose their radios, history will be exposed there, too. (when was the first vacuum-tube radio produced and commercialized? I do not know.)

What about Hewlett-Packard calculators, produced since 1968? Despite being wonderful, powerful, easy-to-use computing tools at the time they were delivered, and also some of the most trustable, all-terrain, top-tech calculators available, what else is interesting about them that other people that are "not in the business" will see in them? At least, interesting enough to turn them into collectibles?

If there is nothing else that's interesting about them, than users are the ones who pulled them out of their boxes and showed them to the world... as profitable collectibles.

Comments?

Depend on collectibility

*Message #16 Posted by [Mike](#) on 2 Nov 2002, 11:14 a.m.,
in response to message #15 by Vieira, Luiz C. (Brazil)*

You say: No one will offer hundreds of dollars to buy an 8088-based PC-XT today

That is because that XT has not reached collector status yet. I have seen many similar computers sell for hundreds of dollars, depending on the brand and model.

I have sold restored 8080 machines for \$2000.00. So, vintage computers do sell well and are very collectible. An Altair recently sold for \$5000.00 on eBay.

Go out and try to buy an Apple Lisa or a Dec PDP-8 and tell

me about old computers not going for high prices.

Re: Depend on collectibility

*Message #17 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 2 Nov 2002, 12:53 p.m.,
in response to message #16 by Mike*

That's it! We're almost in the same understanding of facts.

When was the XT launched? 20 years ago? A bit more? I don't remember, really. And it did not reach collectibility status yet. And it is no longer under production. But in three-four years, the HP calculators that have just gone off-production will reach collectibility status, as you have already mentioned, right?

Why?

Get the point now?

Emotional not Collectible

*Message #18 Posted by [Mike](#) on 2 Nov 2002, 4:17 p.m.,
in response to message #17 by Vieira, Luiz C. (Brazil)*

The HPs that have just gone out of production are not really rare at all. There is just a emotional reaction to HP going out of business of calculators.

There were millions of 32sii made, for instance, there is a temporary spike but it will quiet down. Think about it, why should a 32sii cost more than a 27S or 42S? It shouldn't!

HPs will always be collectible but the high prices that we are seeing right now are not because of rarity; just emotional reaction.

In 3 or 4 years, HP calculators will still be collectible, spikes will smooth out, and prices will stabilize. I suspect what we might see are poorer quality items

because the better ones will be taken out of the market. But the higher quality ones will still command high prices.

Re: Emotional not Collectible

Message #19 Posted by [Ren](#) on 6 Nov 2002, 6:57 p.m.,

in response to message #18 by Mike

Mike wrote:

There were millions of 32sii made, for instance, there is a temporary spike but it will quiet down. Think about it, why should a 32sii cost more than a 27S or 42S? It shouldn't!

I write: But rarity alone does not determine if an item will be a "collectable" in the future. Think about Captain Midnight decoder rings, probably millions of those were made and were loved and lost or thrown out by the kids that had them. Or the original Barbie doll, lots of those made too, now very collectable. If there are millions of students using 32SII's using and abusing and losing their calculators (remember they aren't built as strong as the old calcs) in ten years many of them may want to restock or "return to the Good Old Days" and then the value of the remaining "cheap" 32SII's will soar. Will they cost more than the 42S or 27S? Maybe, as they may value it as much as others value the others. So, commonality is a factor of "collectability" If they ever stop making "Bic Stick" pens, (egads! maybe they've already stopped!) Those in mint condition will be "worth" more than the 19 cent original price...

Ren dona nobis pacem

Re: Depend on collectibility

*Message #20 Posted by [David Smith](#) on 2 Nov 2002, 4:42 p.m.,
in response to message #16 by Mike*

I have an IBM AT, serial number 000020. Bought it the day it came out for \$3200. I have been offered quite a bit more than that for it... and I still have it. I suspect if you had an original PC or XT with a similar serial number the right person would pay a bundle for it.

Re: Depend on collectibility

*Message #21 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 2 Nov 2002, 5:12 p.m.,
in response to message #20 by David Smith*

Hi;

can we call it an Isolated Case? If a 0000x0 (better yet, a 00000x) serial # of some off-production item is shown, it would value a lot more than any xyztla serial #, right? I'd keep it too, for sure.

Anyway, do you "use" it as often? Switch it on, run something to show if it is fine and turn it off again sometimes, right? It's a collectible item... not a tool for itself.

Agree?

Re: Depend on collectibility

*Message #22 Posted by [David Smith](#) on 2 Nov 2002, 7:15 p.m.,
in response to message #21 by Vieira, Luiz C. (Brazil)*

Yes, it actually does get used. It controls a piece of hardware that will not work with modern (i.e. faster than 25Mhz) machines.

This is, indeed, something to be mentioned!

*Message #23 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 2 Nov 2002, 7:52 p.m.,
in response to message #22 by David Smith*

Hi;

I had a situation like this in my former job: a supervising system (data acquisition board) that would run only in an 8MHz system (clock dependant): only a PC-XT would "fit" in. At the time the system was designed,, this was a good time reference.

About the same situation: think of an 82143A, that basically can only be controlled by an HP41.

What else to say? I understand what you mean.

Re: HP-67 for \$1500

*Message #24 Posted by [joe_oil](#) on 2 Nov 2002, 12:17 a.m.,
in response to message #11 by db(martinez,california)*

martinez,

May I answer your question with a few questions?

How many ties do you own?

How many telephones or TVs, stereos or radios are in your house?

How many cars do you own?

How many girlfriends do you have?

How many different bottles of wine do you store?

How many pairs of glasses do you own?

Bla Bla Bla Bla.....

I like HP equipment, and I exercise my privilege of fairly bidding for these items. I enjoy the way they smell. I enjoy programming them. Quite simply, I love old HP equipment, and I am building an extensive collection of fully functional units.

Why? Because I can.

"Because I can"

*Message #25 Posted by [Anonymous](#) on 2 Nov 2002, 7:49 a.m.,
in response to message #24 by joe_oil*

I cannot say I would never do the same if I could. Honestly, if I have enough money to spend with something I like, I'd try to buy as many items as I could, so I could keep them running anytime I want to.

At least, I'd do that as far as it's not so boring, because I'd have everything I want, at anytime I want, in any circumstances, at any cost. No difficulties at all! Just buying and holding.

But that's none of anybody's business, right?

And that's as it is just because I can.

Re: "Because I can" (off topic...)

*Message #26 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 2 Nov 2002,
7:52 a.m.,
in response to message #25 by Anonymous*

This is getting even better.

What is this all about, please?

Shills, thrills and spills

*Message #27 Posted by [glynn](#) on 1 Nov 2002, 7:13 a.m.,
in response to message #9 by Mike*

Mike;

While I understand the logic, I don't really agree with the remedy proposed.

If a seller has someone colluding with him to run up the price, am I any less stupid for following him up that ramp?

Mostly, when asked about when to bid (early or late), whether or not to use "bots", and in response to grouses about "snipers stealing an item away from me", you correctly state that the HIGH bid gets the item: you bid what you sincerely are willing to pay. If that is more than enough, the item is yours; if not, better luck next time.

But it IS possible that the seller is using a "shill". There are two potential uses for that shill. One is to run up the price to flush out a pigeon... perhaps someone like me, who must have that item even at a price I might have balked at initially, in the absence of aggressive competition. The other use for a shill is to run up the price beyond anyone else, ending the auction "successfully", thereby setting a price precedent for some future auction or to hype up the market in general for that and/or related items.

If a bidder is finding he is in higher cotton than he sincerely desires to pay, the LAST thing he should do is act upon his competitive instinct (this advice from a reformed ebay "angry young man"). He should instead realize that NEARLY ANYTHING on eBay once will be followed by another soon enough, and Fate is telling him to sit this one out. Then he should do his research and assure himself that he is realistic about his price target and can beat 99.9% of the competition to get what he wants. If he is sure that no shilling is involved and that the auction actually constitutes a new price target, then he may be willing to bid that high. So be it. But he should NEVER bid something that he, in good faith, is not full willing to pay.

Now if I bid on something and come in #2, and the seller says, hey Glynn, the high bidder defaulted, would you like it at your high bid? I shall say, oh yes-- provided that you FIRST post a negative feedback on bidder #1, and copy (cc) me on a note to eBay about the defaulter. Anything LESS than that is to be regarded as an "off-eBay" solicitation, don't you agree?

Now if I bid on something and come in #2, and the seller says, "auction completed", I have no reason to believe that a shill was used... but if I have used SENSE in establishing MY price, the shiller raised that price by no more than one bid increment, therefore did not accomplish a precedent as he might have hoped.

If I bid on something and come in #3, and the two high-flying birds above me raised the price substantially, I STILL have no proof that a shill was involved. I therefore have to decide whether the auctions end was a "fluke", perhaps driven by newbies with little sense. If I doubt the SELLER's integrity IN THE LEAST, I should be filled with a sense of relief at not having to deal with HIM. Another auction and an honest non-shilling dealer is my best remedy.

Maybe my buddies, however, get caught in the giddy fever of advancing prices and allow precedents to be set. "The last few of these sold on eBay for \$XXX" say the next auctions. Well, IF they get that for their items, so be it-- it's the market of fools at work. But chances are better than average that the bubble will work itself out; sellers won't get what they expected out of their auctions, and the averages will come back down to a level supportable by the market for REAL; and sooner or later, those holding bogus shilled auctions have to REALLY sell their items at the peak of the speculative boom, or they wasted their "education" efforts towards their prospects. In the meantime, buyers should look askance at a seller offering two or more of the same item within a few months of each other in an inflated market. As a bidder, asking questions of the seller is worthwhile, including the serial number of the item you are bidding on.

Finally, if you see what APPEARS to be shilling by a seller and his buddy, you COULD ask eBay to investigate. Maybe a look by eBay security at the established facts of two individuals will result in a nulled auction, or maybe they will feel the heat and drop their ploy.

Anyway, if shilling is driving ANYONE to insane heights, it is, in the main, the responsibility of the sincere bidder to take a grip on himself, not be led to that insanity.

We in MoHPC should be looking out for bad auctions and NOT letting them set us up for future slaughter. To act, however, as if nothing is wrong when a high bidder defaults, as long as we get the item at some percentage above the last "reasonable" bid, is to let the unscrupulous seller off the hook, encourage people to "chase" the shill, and ultimately allow our emotional involvement in one particular auction get the better of our common sense. We DO need to combat shilling. The best way I can think of is to refuse to be that "pigeon", report

strange anomalies to those in authority, be an informed and patient buyer, and ask the seller to give us the information we need to be informed, serious buyers.

As a seller, one should take pains to answer our questions in the auction copy, including serial #s, have original pictures, and not allow frivolity, stating in your rules that, in the case of a default, you will handle the dispensation of your item this way (i.e., another auction, going to 2nd bidder, etc.) A jerk defaulting-buyer should be treated as scum and the feedback should be mercilessly applied.

Anyone approaching you the seller with a whiny "but the price should be set back to..." should be aware that you, too, can be the victim of a scam-- where an auction is made murky by an alter-ego or two of low feedback and poor traceability-- and the seller is then asked to honor a price set in a time when the dynamic duo were scaring off all other competition.

Remember, if I want to pay \$20 more than anybody else prior to the work of some misfit(s), but they've already begun their work, I can't even offer my bid-- why, it's "too low"... so when one later says, well, the devil (his buddy) made him do it, so the price OUGHTA be, hehheh, well, you get the picture.

So, anyway, that's just my advice. Y'all, be cautious, try not to get caught up in fever. And for goodness sake, do NOT EVER bid what you can't justify later, when your fever subsides!!!

--grh.

What Arrogance

*Message #28 Posted by [Mike](#) on 1 Nov 2002, 9:12 p.m.,
in response to message #27 by glynn*

What arrogance! Why does stupidity have anything to do with this. Are you calling Joe stupid?

What I said was that some people know of joe's buying habits. That does not make him stupid, as you like to allude.

Re: Shills, thrills and spills

*Message #29 Posted by [joe_oil](#) on 2 Nov 2002, 12:03 a.m.,
in response to message #27 by glynn*

I believe you would argue for hours over the number of angels that dance on the head of a pin. No disrespect intended, but a moot bid is a moot bid.

If an item has been bid up by someone who has no intention of honoring that bid, then how is the second-in-line bidder to know that he/she has not been duped?

The only fair and honest solution is to void all bids from the time the invalid bidding began, and to start the process over (after having banned the liar from participating in EBay).

I believe you have not properly analyzed this situation.

Pure as the driven snow :^)

*Message #30 Posted by [gifron](#) on 1 Nov 2002, 12:56 p.m.,
in response to message #4 by Mike*

Is there anyone here who has only bought, and never sold?

I definitely have bought more than I've sold, but like most collectors (of anything), I have to pay for my hobbies by some means. Selling my duplicates has helped in the past. That given, I would much rather sell for a high price than for a low one. And no, I would not trade a duplicate 10C for a needed 12C, just to complete my collection, or to do finance calculations more efficiently.

There probably are a few pure snowmen, who have never sold a single HP out of their collections. Nevertheless, you can be a collector, and still do some horse trading.'

IMHO

Doubtful

*Message #31 Posted by [Mike](#) on 1 Nov 2002, 9:31 p.m.,
in response to message #30 by gifron*

Doubtful, but I imagine there are a few.

There are more that whine about the high prices but then when they sell, sell at high prices too. Very hypocritical.

There is one person that has over 1000 transactions, apparently all purchases. But several of us have found that he is likely selling under a different name, at high prices.

Re: Doubtful

*Message #32 Posted by [Marc](#) on 2 Nov 2002, 8:14 a.m.,
in response to message #31 by Mike*

and that seller would be cjd55? Right?

Buyer & Seller

*Message #33 Posted by [Max](#) on 2 Nov 2002, 9:59 a.m.,
in response to message #32 by Marc*

and that seller would be cjd55? Right?

So Tom and Cindy are close relatives?

Now I understand...

Thanks for the hint!

Re: Doubtful

*Message #34 Posted by [David Smith](#) on 2 Nov 2002, 4:52 p.m.,
in response to message #31 by Mike*

Not to mention people that send you nasty emails and complain bitterly if you happen to snipe them. Then they turn around and place bids on everything that you have open bids on whenever you outbid them. Bozo behavior like that is what turned me on to sniping in the first place.

Re: Doubtful

*Message #35 Posted by [Don Davis](#) on 2 Nov 2002, 8:02 p.m.,
in response to message #34 by David Smith*

Sorry to be ignorant, but . . . what is "sniping?"

Re: Doubtful

*Message #36 Posted by [Mike Sebastian \(Texas\)](#) on 3 Nov 2002, 11:22 a.m.,
in response to message #35 by Don Davis*

"Sniping" is the placing of an eBay bid in the last few seconds before the auction closes, and thereby increasing the probability of winning the auction. The morality of sniping has been a stridently debated topic in the past on this forum.

Re: HP-67 for \$1500?!

*Message #37 Posted by [Emmanuel, France](#) on 1 Nov 2002, 8:22 a.m.,
in response to message #1 by Amazed*

Oh, God! I have three of those HP-67s, each w/ user's manuals, QRG, original Standard Pac and Adapter. <p> OK, special promotion for the guy who wants to buy them. The set for USD 3,000.00 instead of USD 4,575.00 (1,525.00 x 3). <p> Good price, discount price for everybody!

Re: HP-67 for \$1500?!

*Message #38 Posted by [Emmanuel, France](#) on 1 Nov 2002, 8:27 a.m.,
in response to message #37 by Emmanuel, France*

It was a joke! Of course ...

Re: HP-67 for \$1500?!

*Message #39 Posted by [David Smith](#) on 1 Nov 2002, 6:08 p.m.,
in response to message #37 by Emmanuel, France*

Oh, but you didn't mention that lovely brown box. In my opinion the boxes are worth more than their contents. For every boxed machine you see maybe 50 machines without boxes. The box means nothing to a user or semi-collector, but for the die hards, a machine is naked without it.

Re: HP-67 for \$1500?!

Message #40 Posted by [Emmanuel, France](#) on 1 Nov 2002, 6:33 p.m.,
in response to message #39 by David Smith

Yes, I did not mentionned it. I have somewhere two boxes with mark 'Service Technique HP-France'. I can understand people who want something absolutely. I know that. I bought a special HP-41 Blanknut Option 001 for \$175: (picture unavailable)

Re: HP-67 for \$1500?!

Message #41 Posted by [Emmanuel, France](#) on 1 Nov 2002, 6:36 p.m.,
in response to message #39 by David Smith

And I was joking. Of course ...

Repairs for 42S

Message #42 Posted by [Randy](#) on 3 Nov 2002, 10:00 a.m.,
in response to message #41 by Emmanuel, France

I need help to repair the sticking keys on my 42S. I read an article within this website, but can't find it now that I need it. Soes anyone know how to access it?

Re: Repairs for 42S

Message #43 Posted by [Ellis Easley](#) on 4 Nov 2002, 3:50 p.m.,
in response to message #42 by Randy

I guess you posted in this thread by accident, but I think the post you are looking for might have been "swept" into the Archives. A certain number of the latest messages are always in the current Forum and as new messages are posted, the older messages are moved to the highest numbered Archive. The same search methods work in the Forum and the Archives. There is a wealth of information there but it might take a little patience to search the several Archives to find what you are looking for. Good luck!

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Is there hp42s emulator for Linux?

Message #1 Posted by [J.Manrique Lopez de la Fuente](#) on 30 Oct 2002, 6:35 p.m.

Hello,

I am searching HP calculator emulators for GNU/Linux for some machines, and I haven't found any for hp42s. Is there any?

Thanks,

J.Manrique

Re: Is there hp42s emulator for Linux?

Message #2 Posted by [Greg Howland](#) on 30 Oct 2002, 11:05 p.m.,
in response to message #1 by J.Manrique Lopez de la Fuente

The only RPN calculators I've seen for Linux are closer to a the 10C rather than the 42S. These would be 'gcalc' and 'xcalc -rpn'.

Re: Is there hp42s emulator for Linux?

Message #3 Posted by [Greg Howland](#) on 31 Oct 2002, 1:26 a.m.,
in response to message #2 by Greg Howland

I meant 'grpn' instead of 'gcalc'.

Re: Is there hp42s emulator for Linux?

Message #4 Posted by [J.Manrique Lopez de la Fuente](#) on 31 Oct 2002, 9:01 a.m.,
in response to message #2 by Greg Howland

Hello,

I am not searching a RPN calc for Linux, since I use XCAS for that. I search hp42s emulator for Linux.

Is there a hp42s ROM available like hp48 or hp49 one in hpcalc.org?

Thanks,

J.Manrique

Re: Is there hp42s emulator for Linux?

Message #5 Posted by [bill duncan](#) on 31 Oct 2002, 2:12 a.m.,
in response to message #1 by J.Manrique Lopez de la Fuente

There is both an HP-41C emulator as well as an HP-48G emulator available for Linux. I've used both for years and they work great.

The HP-41C emulator is called "NSIM":

<http://www.brouhaha.com/~eric/hpcalc/nsim/>

The HP-48G simulator is available on <http://www.hpcalc.org/>

Hope this helps. Cheers.

Re: Is there hp42s emulator for Linux?

Message #6 Posted by [J.Manrique Lopez de la Fuente](#) on 31 Oct 2002, 9:20 a.m.,
in response to message #5 by bill duncan

Yes, I know both. But any for hp42s?

Thanks,

J.Manrique

Re: Is there hp42s emulator for Linux?

Message #7 Posted by [Erik Ehrling \(Sweden\)](#) on 31 Oct 2002, 6:52 a.m.,
in response to message #1 by J.Manrique Lopez de la Fuente

Is there a Linux-version of Emu48? Then you could run HP-42X (a HP-42S emulator for the HP-48GX by Hrastprogrammer) in it... (HP-42X works fine in Emu48 for Windows).

The only drawback I can see is that HP-42X is US\$60...

Regards, Erik

PS. Is anyone out there working on a HP-42S emulator for Windows/Linux? Something similar to V41 by Warren Furlow but emulating the HP-42S instead of the HP-41CX ... It would be extremely nice to have, and at least for me personally, likely to be the calculator that I use the most (even more than the real HP-42S!)

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Russian Manuals for HP48G?

Message #1 Posted by [Chris Randle \(UK\)](#) on 30 Oct 2002, 5:14 p.m.

Does anyone know if the HP48G has Russian manuals available anywhere? Quick web search threw up nothing and the calculator link on HP's Russian site links back to the US pages.

Re: Russian Manuals for HP48G?

Message #2 Posted by [Emmanuel](#) on 31 Oct 2002, 2:49 a.m.,
in response to message #1 by Chris Randle (UK)

I think those manuals do not exist. May be I'm wrong. Russians are not kind of handeld calculators such HP-48. Too expensive then not useful for HP! They were using MK-52 or MK-85 for instance, and for studies, desktop computer.

A bit off-topic...

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 31 Oct 2002, 10:20 a.m.,
in response to message #2 by Emmanuel

Hi, Emmanuel;

I am always trying to know as much as I can from other cultures, and I know almost nothing about some countries and people. About Russians, do you know if there is any site were I can find good information? Basically technology and social information, no politic interests. I add my e-mail address if you believe that sending this information directly to me is better.

Thank you and excuse-me using the forum this way, folks.

Cheers.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-41: Question on Halfnut vs Fullnut

Message #1 Posted by [Juergen Rodenkirchen \(GER\)](#) on 30 Oct 2002, 3:18 a.m.

Just a quick question: Does any HP-41C/CV/CX FULLNUT have a separate CPU board and, vice versa then, does any HALFNUT just have a single board? What about FULLNUTs that have been repaired and "became" HALFNUT during that process? Thanks for your time!

Juergen

Re: HP-41: Question on Halfnut vs Fullnut

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 30 Oct 2002, 10:16 a.m.,
in response to message #1 by Juergen Rodenkirchen (GER)

Hi;

the keyboard PCB and the LCD module for the halfnut (newer) and the fullnut (earlier) are different from each other. I have both types: HP41CV full- and halfnut. There is no way to use the main PCB of a fullnut with the inner circuitry of a halfnut. The halfnut LCD module contains ROM and RAM, while the uP is in the keyboard. All of these are in the main PCB of the fulnut.

Hope this clarifies.

Cheers.

Re: HP-41: Question on Halfnut vs Fullnut

Message #3 Posted by [Juergen Rodenkirchen \(GER\)](#) on 30 Oct 2002, 1:48 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

Hi Luiz!

Thanks for the comprehensive answer to my question! And, yes, it helped to clarify things :-)

Juergen

Re: HP-41: Question on Halfnut vs Fullnut

Message #4 Posted by [Tony Duell \(UK\)](#) on 30 Oct 2002, 7:49 p.m.,
in response to message #1 by Juergen Rodenkirchen (GER)

The Fullnuts have a separate CPU/logic board. The keyboard PCB in a Fullnut is just the keyswitches, and the display driver hybrid is soldered to one edge of this PCB. The display driver hybrid is just the display driver. The CPU board contains the CPU chip, ROM, RAM, PSU chip, timer chip (in a CX), and so on. The halfnuts have everything on one PCB. The CPU is a surface-mount device soldered to the back of the PCB, under the keyboard. The display driver hybrid now also contains the ROM, RAM and PSU circuits. Halfnut CXs have a little hybrid PCB mounted across the back of the main PCB, over the CPU. It contains the extra ROM, extended RAM, and timer circuits. Alas, the ROM code in the display driver is different between the CV and CX, so you can't upgrade a CV just by adding the extra PCB. AFAIK, no fullnut was ever converted into a halfnut by HP. To do that you'd have to replace the entire top case (including the PCBs). Just about all that's common between the fullnut and halfnut models is the bottom case and I/O assembly (the flexible PCB that connects to the modules and the battery pack).

Re: HP-41: Question on Halfnut vs Fullnut

Message #5 Posted by [Juergen Rodenkirchen \(GER\)](#) on 31 Oct 2002, 3:40 a.m.,
in response to message #4 by Tony Duell (UK)

Hi Tony!

Thanks a lot for the many additional information. After digesting your input, I think my original question is now fully answered: If I do understand you right, then merely the Fullnuts do have a separate board indeed. Also, thanks for the very interesting information on Halfnut CV vs CX! As for the Fullnut -> Halfnut conversion: If I don't mix up things, I believe a certain source of information (that I do not remind at the moment) stated that Fullnuts were occasionally converted into Halfnuts by HP service during a repair. However,

following your explanation I think that you're indeed right and HP never did this as it would have made no sense, so to speak. Thanks again for your input.

Juergen

Re: HP-41: Question on Halfnut vs Fullnut

*Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 31 Oct 2002, 10:08 a.m.,
in response to message #5 by Juergen Rodenkirchen (GER)*

Hi, Jurgen;

in fact, after the fullnut being off-line, any fullnut sent to be repaired by HP was simply "replaced" for a new halfnut.

What was somewhat discussed here (at least by me) was the original and rare HP41C in a halfnut version. When the halfnut series were launched, the HP41C was no longer in production. Anyway, some exquisite HP41C in a halfnut case replaced original, non-operating fullnut HP41C's from HP "headquarters".

I believe this is a somewhat rare HP41 series model: an original HP41C halfnut.

My US\$ 0,10 (how much is this in Euro?)

Cheers.

Re: HP-41: Question on Halfnut vs Fullnut

*Message #7 Posted by [Juergen Rodenkirchen \(GER\)](#) on 31 Oct 2002, 2:03 p.m.,
in response to message #6 by Vieira, Luiz C. (Brazil)*

Hi Luiz!

I do understand your point. Besides, I do agree with you in that the HP-41C Halfnut probably would be a very interesting collectors item. Btw, 1 Euro is almost the same as 1 US\$ (currently 1E approx. 0,997US\$ I think). Many thanks for your inputs again ... and a general and sincere "thank you" for your valuable, untired efforts on answering questions and providing help on this great forum :-)

Best wishes, Juergen

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Erik Ehrling (Sweden) and QPI for HP-42S

Message #1 Posted by [Erwin](#) on 30 Oct 2002, 2:26 a.m.

Hello Erik,

You responded on my message "Fractions on the HP-42S", telling me that you had a program for me. I had forgotten to give my email adress in the message! I've send you an email to tell you that i was indeed interested in this program, but the email was send back to me as your mail box was unavailable.

Will you please send me the program, and thank you in advance for doing so! :-)

Best regards, Erwin

Re: Erik Ehrling (Sweden) and QPI for HP-42S

Message #2 Posted by [Erik Ehrling \(Sweden\)](#) on 30 Oct 2002, 6:11 a.m.,
in response to message #1 by Erwin

Hi Erwin!

I have received several requests for the program; therefore I will tidy it up a bit and post it to this forum. (Unfortunately I don't think I will have time to do this before Friday or Saturday.) //

Best regards, Erik

PS. As for my email address - remove the word NOSPAM from the address (this is meant to reduce the amount of SPAM-mail...)

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-41 Module Museum and XROM Numbers

Message #1 Posted by [Chris Catotti \(Florida\)](#) on 30 Oct 2002, 1:20 a.m.

I have been toying with formats and contents. Try:

<http://home.earthlink.net/~kd4ace/HP-41C/index.htm>

Pease let me know if you have any use for this informtion, or suggestions before I add more modules.

Re: HP-41 Module Museum and XROM Numbers

Message #2 Posted by [Mike \(Stgt\)](#) on 30 Oct 2002, 11:56 a.m.,
in response to message #1 by Chris Catotti (Florida)

There was a change of several XROM-numbers from version 1B to 1C. Programs written for MATH 1A or 1B may probably fail with 1C or 1D.

Ciao.....Mike

```
XROM: 01
FUNC: 46
VERS: MA1B
IRVC: none
CKSM: 04E (78 dec) ok
FAT:
XROM 01,00  MATH 1B      AF41
XROM 01,01  'MATRIX     A062
XROM 01,02  'SIMEQ       A0B4
XROM 01,03  'VCOL        A0C1
XROM 01,04  'VMAT        A0D3
XROM 01,05  'PVT         A193
XROM 01,06  'DET         A347
XROM 01,07  'INV         A388
XROM 01,08  'EDIT        A3D7
XROM 01,09  'SOLVE       A420
XROM 01,10  'SOL         A44A
XROM 01,11  'POLY        A548
XROM 01,12  'ROOTS       A5CF
XROM 01,13  'INTG        A791
XROM 01,14  'DIFEQ       A849
XROM 01,15  'FOUR        A93C
XROM 01,16  'C+          ABC5
XROM 01,17  'C-          ABD4
XROM 01,18  'C*          ABF4
XROM 01,19  'C/          AC09
```

XROM 01,20	'MAGZ	AAB3
XROM 01,21	'CINV	ABDF
XROM 01,22	'Z^N	AA8D
XROM 01,23	'Z^1/N	AAE1
XROM 01,24	'e^Z	AAC7
XROM 01,25	'LNZ	AAD4
XROM 01,26	'a^Z	AB62
XROM 01,27	'LOGZ	AB77
XROM 01,28	'Z^W	ABAB
XROM 01,29	'Z^1/W	AB8E
XROM 01,30	'SINZ	AB0E
XROM 01,31	'COSZ	AB27
XROM 01,32	'TANZ	AB41
XROM 01,33	'SINH	AC1B
XROM 01,34	'COSH	AC2F
XROM 01,35	'TANH	AC3D
XROM 01,36	'ASINH	AC4C
XROM 01,37	'ACOSH	AC70
XROM 01,38	'ATANH	AC5C
XROM 01,39	'SSS	AC87
XROM 01,40	'ASA	AD08
XROM 01,41	'SAA	ACCC
XROM 01,42	'SAS	AD33
XROM 01,43	'SSA	AD4E
XROM 01,44	'TRANS	ADC4
XROM 01,45	'*FN	AF1F

XROM: 01

FUNC: 46

VERS: MA1C

IRVC: none

CKSM: 0FB (251 dec) ok

FAT:

XROM 01,00	MATH 1C	A068 *
XROM 01,01	'MATRIX	A06B
XROM 01,02	'SIMEQ	A0BD
XROM 01,03	'VCOL	A0CA
XROM 01,04	'VMAT	A0DB
XROM 01,05	'PVT	A19B
XROM 01,06	'DET	A36B
XROM 01,07	'INV	A3AC
XROM 01,08	'EDIT	A3FB
XROM 01,09	'SOLVE	A444
XROM 01,10	'SOL	A46E
XROM 01,11	'POLY	A56C
XROM 01,12	'ROOTS	A5F3
XROM 01,13	'INTG	A7B6
XROM 01,14	'DIFEQ	A86E
XROM 01,15	'FOUR	A961
XROM 01,16	'Z^N	AABC
XROM 01,17	'MAGZ	AAE2
XROM 01,18	'e^Z	AAF6
XROM 01,19	'LNZ	AB03

XROM 01,20	'Z^1/N	AB10
XROM 01,21	'SINZ	AB3D
XROM 01,22	'COSZ	AB56
XROM 01,23	'TANZ	AB70
XROM 01,24	'a^Z	AB91
XROM 01,25	'LOGZ	ABA6
XROM 01,26	'Z^1/W	ABBD
XROM 01,27	'Z^W	ABDA
XROM 01,28	'C+	ABF4
XROM 01,29	'C-	AC03
XROM 01,30	'CINV	AC0E
XROM 01,31	'C*	AC23
XROM 01,32	'C/	AC38
XROM 01,33	'SINH	AC4A
XROM 01,34	'COSH	AC5E
XROM 01,35	'TANH	AC6C
XROM 01,36	'ASINH	AC7B
XROM 01,37	'ATANH	AC8B
XROM 01,38	'ACOSH	AC9F
XROM 01,39	'SSS	ACB6
XROM 01,40	'SAA	ACFB
XROM 01,41	'ASA	AD37
XROM 01,42	'SAS	AD62
XROM 01,43	'SSA	AD7D
XROM 01,44	'TRANS	ADF3
XROM 01,45	'*FN	AF50

Re: HP-41 Module Museum and XROM Numbers

Message #3 Posted by [Chris Catotti \(Florida\)](#) on 30 Oct 2002, 12:53 p.m.,
in response to message #2 by Mike (Stgt)

Thanks! I'll clean up my webpage. How exactly did you list out the XROM's Functions, memory addres and Checksum?

Do you recall what exactly was wrong with Version A of the Math Pac.

Best Wishes,

Chris.

Re: HP-41 Module Museum and XROM Numbers

Message #4 Posted by [Raymond Hellstern \(Germany\)](#) on 30 Oct 2002, 1:49 p.m.,
in response to message #3 by Chris Catotti (Florida)

Hi,

there exists a program/fcn called PRFAT, maybe it's in Assembler3, or made with some of its functions, or David Assembler, I don't recall at the moment.

Twenty years ago I wrote a similar program, mainly in ML, to print XROM FATs and code, using David Assembler functions.

Regards,

Raymond

Re: HP-41 Module Museum and XROM Numbers

Message #5 Posted by [Tony Duell \(UK\)](#) on 30 Oct 2002, 7:55 p.m.,
in response to message #4 by Raymond Hellstern (Germany)

One of the programs in my 'lif utilities for linux' distribution (available from the HPCC web site) will produce an XROM name table from a ROM image. It doesn't provide all the information you want, though. The output is either a pair of (decimal) numbers and the name (which is the format used for XROM name files in my HP41 program listing utility) or a more human-readable version which also indicates whether it's a FOCAL or MCODE function in the ROM, and the entry point address.

Re: HP-41 Module Museum and XROM Numbers

Message #6 Posted by [Mike \(Stgt\)](#) on 30 Oct 2002, 5:33 p.m.,
in response to message #3 by Chris Catotti (Florida)

Just see [here](#).

Sorry, but at the moment I may only do such things on VM/CMS (running on a IBM host).

Ciao.....Mike

Re: HP-41 Module Museum and XROM Numbers

Message #7 Posted by [John Smith](#) on 30 Oct 2002, 12:57 p.m.,
in response to message #1 by Chris Catotti (Florida)

Adding another column to the table with a brief description of each function would be both nice and most useful, i.e:

'SIMEQ 01,02 Solves a system of linear equations

'e^Z 01,24 Computes e^Z for complex Z

It doesn't have to be very large, a brief description as shown above can do wonders and it's certainly much better than none. It would enhance the usefulness of your data immensely, for instance any user could easily find whether there exists any module for the HP-41 which includes some keyword to deal with Fourier series. The brief description will allow him/her to search for "Fourier" and find which keywords in which modules, if any, do something about them.

This is specially true for the many keywords that have quite cryptic, non-descripting names (usually to save ROM space) such as the many hundreds in the PPC-ROM, for instance, where only a Quick Reference Guide or Manual can give you a clue to what the keyword does. Some examples: CX, VK, E?, YC+C, MSIJR, DDT, ...

Also, if my memory serves me correctly, you have a typo on your table. Function 'FN should be '*FN, with the '*', right ?

Re: HP-41 Module Museum and XROM Numbers

Message #8 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 30 Oct 2002, 2:29 p.m.,
in response to message #7 by John Smith

Hi;

that's what I had in mind when I wrote you the e-mail, Chris. If you intend to diversify and add the briefs for each function, I'll use your page as a reference.

Success. It's a great job!

Cheers.

Re: HP-41 Module Museum and XROM Numbers

Message #9 Posted by [Emmanuel, France](#) on 1 Nov 2002, 10:57 a.m.,
in response to message #1 by Chris Catotti (Florida)

I hope that the following listings will help you. They are a part of disassembled listings made with a Zenrom or Hepax module. There's differences between the four versions. Thus for instance errors can occur by using 1D ROM with a 1D.

```
C000 001 XROM    01
C001 02E FCNS    46
C002 00F  MATH 1A
C003 03D ADDR    CF3D
C004 200 `MATRIX
C005 062 ADDR    C062
C006 200 `SIMEQ
C007 0B4 ADDR    C0B4
C008 200 `VCOL
C009 0C1 ADDR    C0C1
C00A 200 `VMAT
C00B 0D3 ADDR    C0D3
C00C 201 `PVT
C00D 093 ADDR    C193
C00E 203 `DET
C00F 047 ADDR    C347
C010 203 `INV
C011 088 ADDR    C388
C012 203 `EDIT
C013 0D7 ADDR    C3D7
C014 20E `SOLVE
C015 00F ADDR    CE0F
C016 20E `SOL
C017 039 ADDR    CE39
C018 205 `POLY
C019 08E ADDR    C58E
C01A 206 `ROOTS
C01B 015 ADDR    C615
C01C 20A `INTG
C01D 0DB ADDR    CADB
C01E 20D `DIFEQ
```

C01F	01C	ADDR	CD1C
C020	204	`FOUR	
C021	020	ADDR	C420
C022	20C	`C+	
C023	0C6	ADDR	CCC6
C024	20C	`C-	
C025	0D5	ADDR	CCD5
C026	20C	`C*	
C027	0F5	ADDR	CCF5
C028	20D	`C/	
C029	00A	ADDR	CD0A
C02A	20B	`MAGZ	
C02B	0B6	ADDR	CBB6
C02C	20C	`CINV	
C02D	0E0	ADDR	CCE0
C02E	20B	`Z N	
C02F	093	ADDR	CB93
C030	20B	`Z 1/N	
C031	0E2	ADDR	CBE2
C032	20B	`e Z	
C033	0C8	ADDR	CBC8
C034	20B	`LNZ	
C035	0D5	ADDR	CBD5
C036	20C	`a Z	
C037	063	ADDR	CC63
C038	20C	`LOGZ	
C039	078	ADDR	CC78
C03A	20C	`Z W	
C03B	0AC	ADDR	CCAC
C03C	20C	`Z 1/W	
C03D	08F	ADDR	CC8F
C03E	20C	`SINZ	
C03F	00F	ADDR	CC0F
C040	20C	`COSZ	
C041	028	ADDR	CC28
C042	20C	`TANZ	
C043	042	ADDR	CC42
C044	209	`SINH	
C045	032	ADDR	C932
C046	209	`COSH	
C047	046	ADDR	C946
C048	209	`TANH	
C049	054	ADDR	C954
C04A	209	`ASINH	
C04B	063	ADDR	C963
C04C	209	`ACOSH	
C04D	087	ADDR	C987
C04E	209	`ATANH	
C04F	073	ADDR	C973
C050	209	`SSS	
C051	09E	ADDR	C99E
C052	20A	`ASA	
C053	01F	ADDR	CA1F
C054	209	`SAA	

C055	0E3	ADDR	C9E3
C056	20A	`SAS	
C057	04A	ADDR	CA4A
C058	20A	`SSA	
C059	065	ADDR	CA65
C05A	207	`TRANS	
C05B	0D7	ADDR	C7D7
C05C	205	`*FN	
C05D	071	ADDR	C571

C000	001	A
C001	02E	.
C002	00F	O
C003	041	a
C004	200	@
C005	062	b
C006	200	@
C007	0B4	4
C008	200	@
C009	0C1	a
C00A	200	@
C00B	0D3	c
C00C	201	A
C00D	093	S
C00E	203	C
C00F	047	`
C010	203	C
C011	088	H
C012	203	C
C013	0D7	`
C014	204	D
C015	020	
C016	204	D
C017	04A	
C018	205	E
C019	048	
C01A	205	E
C01B	0CF	!
C01C	207	G
C01D	091	Q
C01E	208	H
C01F	049	
C020	209	I
C021	03C	<
C022	20B	K
C023	0C5	e
C024	20B	K
C025	0D4	d
C026	20B	K
C027	0F4	d
C028	20C	L
C029	009	I
C02A	20A	J

C02B 0B3 3
C02C 20B K
C02D 0DF !
C02E 20A J
C02F 08D M
C030 20A J
C031 0E1 a
C032 20A J
C033 0C7 `
C034 20A J
C035 0D4 d
C036 20B K
C037 062 b
C038 20B K
C039 077 `
C03A 20B K
C03B 0AB +
C03C 20B K
C03D 08E N
C03E 20B K
C03F 00E N
C040 20B K
C041 027 '
C042 20B K
C043 041 a
C044 20C L
C045 01B [
C046 20C L
C047 02F /
C048 20C L
C049 03D =
C04A 20C L
C04B 04C
C04C 20C L
C04D 070 •
C04E 20C L
C04F 05C
C050 20C L
C051 087 G
C052 20D M
C053 008 H
C054 20C L
C055 0CC
C056 20D M
C057 033 3
C058 20D M
C059 04E
C05A 20D M
C05B 0C4 d
C05C 20F 0
C05D 01F _

F001	02E	FCNS	46
F002	000	MATH	1C
F003	068	ADDR	F068
F004	200	`MATRIX	
F005	06B	ADDR	F06B
F006	200	`SIMEQ	
F007	0BD	ADDR	F0BD
F008	200	`VCOL	
F009	0CA	ADDR	F0CA
F00A	200	`VMAT	
F00B	0DB	ADDR	F0DB
F00C	201	`PVT	
F00D	09B	ADDR	F19B
F00E	203	`DET	
F00F	06B	ADDR	F36B
F010	203	`INV	
F011	0AC	ADDR	F3AC
F012	203	`EDIT	
F013	0FB	ADDR	F3FB
F014	204	`SOLVE	
F015	044	ADDR	F444
F016	204	`SOL	
F017	06E	ADDR	F46E
F018	205	`POLY	
F019	06C	ADDR	F56C
F01A	205	`ROOTS	
F01B	0F3	ADDR	F5F3
F01C	207	`INTG	
F01D	0B6	ADDR	F7B6
F01E	208	`DIFEQ	
F01F	06E	ADDR	F86E
F020	209	`FOUR	
F021	061	ADDR	F961
F022	20A	`Z^N	
F023	0BC	ADDR	FABC
F024	20A	`MAGZ	
F025	0E2	ADDR	FAE2
F026	20A	`e^Z	
F027	0F6	ADDR	FAF6
F028	20B	`LNZ	
F029	003	ADDR	FB03
F02A	20B	`Z^1/N	
F02B	010	ADDR	FB10
F02C	20B	`SINZ	
F02D	03D	ADDR	FB3D
F02E	20B	`COSZ	
F02F	056	ADDR	FB56
F030	20B	`TANZ	
F031	070	ADDR	FB70
F032	20B	`a^Z	
F033	091	ADDR	FB91
F034	20B	`LOGZ	
F035	0A6	ADDR	FBA6
F036	20B	`Z^1/W	

F037	0BD	ADDR	FBBD
F038	20B	`Z^W	
F039	0DA	ADDR	FBDA
F03A	20B	`C+	
F03B	0F4	ADDR	FBF4
F03C	20C	`C-	
F03D	003	ADDR	FC03
F03E	20C	`CINV	
F03F	00E	ADDR	FC0E
F040	20C	`C*	
F041	023	ADDR	FC23
F042	20C	`C/	
F043	038	ADDR	FC38
F044	20C	`SINH	
F045	04A	ADDR	FC4A
F046	20C	`COSH	
F047	05E	ADDR	FC5E
F048	20C	`TANH	
F049	06C	ADDR	FC6C
F04A	20C	`ASINH	
F04B	07B	ADDR	FC7B
F04C	20C	`ATANH	
F04D	08B	ADDR	FC8B
F04E	20C	`ACOSH	
F04F	09F	ADDR	FC9F
F050	20C	`SSS	
F051	0B6	ADDR	FCB6
F052	20C	`SAA	
F053	0FB	ADDR	FCFB
F054	20D	`ASA	
F055	037	ADDR	FD37
F056	20D	`SAS	
F057	062	ADDR	FD62
F058	20D	`SSA	
F059	07D	ADDR	FD7D
F05A	20D	`TRANS	
F05B	0F3	ADDR	FDF3
F05C	20F	`*FN	
F05D	050	ADDR	FF50

A000	001	XROM	01
A001	02E	FCNS	46
A002	000	-MATH	1D
A003	068	ADDR	A068
A004	200	`MATRIX	
A005	06B	ADDR	A06B
A006	200	`SIMEQ	
A007	0BD	ADDR	A0BD
A008	200	`VCOL	
A009	0CA	ADDR	A0CA
A00A	200	`VMAT	
A00B	0DB	ADDR	A0DB
A00C	201	`PVT	

A00D	09B	ADDR	A19B
A00E	203	`DET	
A00F	06B	ADDR	A36B
A010	203	`INV	
A011	0AC	ADDR	A3AC
A012	203	`EDIT	
A013	0FB	ADDR	A3FB
A014	204	`SOLVE	
A015	044	ADDR	A444
A016	204	`SOL	
A017	06E	ADDR	A46E
A018	205	`POLY	
A019	06C	ADDR	A56C
A01A	205	`ROOTS	
A01B	0F3	ADDR	A5F3
A01C	207	`INTG	
A01D	0B6	ADDR	A7B6
A01E	208	`DIFEQ	
A01F	06E	ADDR	A86E
A020	209	`FOUR	
A021	061	ADDR	A961
A022	20A	`Z N	
A023	0BC	ADDR	AABC
A024	20A	`MAGZ	
A025	0E2	ADDR	AAE2
A026	20A	`e Z	
A027	0F6	ADDR	AAF6
A028	20B	`LNZ	
A029	003	ADDR	AB03
A02A	20B	`Z 1/N	
A02B	010	ADDR	AB10
A02C	20B	`SINZ	
A02D	03D	ADDR	AB3D
A02E	20B	`COSZ	
A02F	056	ADDR	AB56
A030	20B	`TANZ	
A031	070	ADDR	AB70
A032	20B	`a Z	
A033	091	ADDR	AB91
A034	20B	`LOGZ	
A035	0A6	ADDR	ABA6
A036	20B	`Z 1/W	
A037	0BD	ADDR	ABBD
A038	20B	`Z W	
A039	0DA	ADDR	ABDA
A03A	20B	`C+	
A03B	0F4	ADDR	ABF4
A03C	20C	`C-	
A03D	003	ADDR	AC03
A03E	20C	`CINV	
A03F	00E	ADDR	AC0E
A040	20C	`C*	
A041	023	ADDR	AC23
A042	20C	`C/	

A043	038	ADDR	AC38
A044	20C	`SINH	
A045	04A	ADDR	AC4A
A046	20C	`COSH	
A047	05E	ADDR	AC5E
A048	20C	`TANH	
A049	06C	ADDR	AC6C
A04A	20C	`ASINH	
A04B	07B	ADDR	AC7B
A04C	20C	`ATANH	
A04D	08B	ADDR	AC8B
A04E	20C	`ACOSH	
A04F	09F	ADDR	AC9F
A050	20C	`SSS	
A051	0B6	ADDR	ACB6
A052	20C	`SAA	
A053	0FB	ADDR	ACFB
A054	20D	`ASA	
A055	037	ADDR	AD37
A056	20D	`SAS	
A057	062	ADDR	AD62
A058	20D	`SSA	
A059	07D	ADDR	AD7D
A05A	20D	`TRANS	
A05B	0F3	ADDR	ADF3
A05C	20F	`*FN	
A05D	050	ADDR	AF50

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 86 - Bootdisk?

Message #1 Posted by [Daniel Wagner](#) on 29 Oct 2002, 9:38 a.m.

Hi,

I recently got hold of a HP 86 - System... I'm new to this kind of stuff, so be patient with me :) When I switch on my HP 86, the Floppy-Drive makes a sound, but since I don't have a System/Bootdisk, it stops after a few seconds and then everything is dead :(I guess i would have to get a Bootdisk to have anything displayed on the screen? If so, where can I get a Bootdisk?

Thanks in advance! Daniel Wagner

PS: Sorry for my bad English, I'm a German...

Re: HP 86 - Bootdisk?

Message #2 Posted by [Jim L](#) on 29 Oct 2002, 10:37 a.m.,
in response to message #1 by Daniel Wagner

I don't think you need a "bootdisk". BASIC is in ROM and should be ready when you turn it on.

Re: HP 86 - Bootdisk?

Message #3 Posted by [Daniel Wagner](#) on 29 Oct 2002, 12:32 p.m.,
in response to message #2 by Jim L

Ummm so why does it try to read from the disk without me doing anything? Btw: When it is 'dead' it isn't really dead... when i press 'Run' or 'line end' it beeps... maybe this helps you guys?

Daniel Wagner

Re: HP 86 - Bootdisk?

Message #4 Posted by [Ellis Easley](#) on 30 Oct 2002, 10:39 a.m.,
in response to message #3 by Daniel Wagner

I think it has the ability to look for an "autorun" program on the disk drive and run if it finds it. I think the 85 will look on the tape drive for the same purpose.

Re: HP 86 - Bootdisk?

Message #5 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 30 Oct 2002, 12:55 p.m.,
in response to message #4 by Ellis Easley

If I recall correctly, the 86 needs an external monitor (monochrome, NTSC timing). Have you checked the monitor?

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP X25 - "Calypso"

Message #1 Posted by [Y K Wong \(Singapore\)](#) on 29 Oct 2002, 12:48 a.m.

I have recently acquired the HP X25 - the one that died before it ever hit the market. I though may be some of you folks might be interested to have a view of this interesting device!

It is available here <http://www.geocities.com/jagpage/calculator.html>

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Regarding 9114a disc drive

Message #1 Posted by [Alain](#) on 28 Oct 2002, 6:47 p.m.

Hello,

talking about HP9114a, I just received a unit with no manual and no power supply. Can anybody tell me what kind of power supply should I try to find. Is a power supply with 8V / 3 watts max ok? How long does it take to charge the battery ?

Thanks

Alain

Re: Regarding 9114a disc drive

Message #2 Posted by [Alain](#) on 28 Oct 2002, 7:51 p.m.,
in response to message #1 by Alain

Well,

I found a little handle on the back of the unit (oh well, I didn't know that the power pack was removable) and found part of the answer on the power pack. 20V ac / 500mA max input is what the power supply must deliver. Now, I will have to find a compatible power supply, any suggestions ???

Thanks

Alain

Re: Regarding 9114a disc drive

*Message #3 Posted by [Emmanuel](#) on 29 Oct 2002, 2:09 a.m.,
in response to message #2 by Alain*

Cher Alain, As-tu a batterie rechargeable HP88014B? Il te faut un transfo type HP82066B (220V 50Hz) ou HP82059D (90-120V 50-60Hz 7VA). Je peux t'envoyer d'un scan' de mon manuel si tu veux. Cordialement.

Dear Alain, Do you have the rechargeable battery pack HP88014B? You need an HP82066B (220V 50Hz)adapter or HP82059D (90-120V 50-60Hz 7VA) transformer. I can send you a scan of my user's manual if you want it. Yours.

Re: Regarding 9114a disc drive

*Message #4 Posted by [Christoph Klug](#) on 29 Oct 2002, 3:54 a.m.,
in response to message #3 by Emmanuel*

Dear Alian,

inside the battery pack is placed an 6V/2,4Ah lead cell. Open the pack (removing the top plate) and check the lead cell. Loading this is possible with 6,8V DC voltage. It is hard to find compatible cells with identic size for replacing - but in German exist a company called BATTMANN who have them in stock...

Best wishes from Germany- Christoph

Re: Regarding 9114a disc drive

*Message #5 Posted by [Raymond Hellstern](#) on 29 Oct 2002, 4:14 a.m.,
in response to message #4 by Christoph Klug*

Hello,

a while ago I posted some info about the exact replacement type for the original Panasonic cell.

Regards,

Raymond

Re: Regarding 9114a disc drive

Message #6 Posted by [Alain](#) on 29 Oct 2002, 6:21 a.m.,
in response to message #3 by Emmanuel

Merci pour l'information,

pour le moment je ne sais pas si la pile est toujours bonne. Oui Emmanuel, une copie du scan serait grandement apprécié. Cependant, je suis un peu confus, "Boîte" conteant la pile et l'alimentation indique clairement d'utiliser comme source d'alimentation extérieur 20V ac / 500mA max input, ce qui est différent de HP82059D (90-120V 50-60Hz 7VA) (je suis en Amérique du Nord).

Jusqu'à présent, sur la base du 20V ac / 500mA max input, j'ai trouvé que les modems US Robotics utilisaient le même type de transfo. J'étais alors à la recherche de vieux modems.

Merci !

Alain

Well,

for the moment I really don't know if the cell is dead because I have no compatible transfo to charge it. Yes Emmanuel, if you could send the scan, it would be appreciated. But, since it is saying on the batttery pack to use a 20V ac / 500mA max input, I was really looking for a different type of transfo than the HP82059D (90-120V 50-60Hz 7VA) (I'm in North America). Am I wrong ?

I found that US Robotic Modems use 20V ac / 500mA max transformer. So I was trying to find old US Robotic Modems.

Thanks

Alain

Re: Regarding 9114a disc drive

*Message #7 Posted by [Emmanuel](#) on 29 Oct 2002, 7:36 a.m.,
in response to message #6 by Alain*

Je vais t'envoyer quelques vues internes et externes. Ce sont les mêmes adaptateurs que pour HP-41, HP-75, HP-71, HP-97 et pour les périphériques IL de la famille HP8216X (exception faite du convertisseur d'interface) par exemple.

I'll send you some internal and external views. They are the same adapters for HP-41, HP-71, HP-75, HP-97 and for HP8216X family IL peripherals (except IL converter) for instance.

Re: Regarding 9114a disc drive

*Message #8 Posted by [David Smith](#) on 29 Oct 2002, 1:49 p.m.,
in response to message #1 by Alain*

The 8VAC, 3W spec is a lot closer to what you need than 20V, 10W. The drive uses the 82059 series chargers that HP used for just about every HP41, 71, 75, etc and accessories. It is very easy to find on Ebay. Prices tend to be from \$5 to \$20 each.

Re: Regarding 9114a disc drive

*Message #9 Posted by [Alain](#) on 29 Oct 2002, 2:22 p.m.,
in response to message #8 by David Smith*

Thanks for the info.

I still find funny that on the battery unit, it says 20 Vac / 500 mA maximum. for the input side with an arrow pointing on the connector. Is there anybody having the same text on their unit ???

Regards

Alain

Re: Regarding 9114a disc drive

Message #10 Posted by [Emmanuel](#) on 29 Oct 2002, 3:18 p.m.,
in response to message #9 by Alain

Yes, I have it too. I would like to know how to put pictures into the forum messages.

Oui, je l'ai également. J'aimerais savoir comment intégrer des images aux messages du forum.

Re: Regarding 9114a disc drive

Message #11 Posted by [Dan M](#) on 29 Oct 2002, 8:57 p.m.,
in response to message #9 by Alain

The HP 88014B Battery Back Instruction Booklet (HP pn 88014-90005, Printed in U.S. A. 12/1/85) has this to say about rechargers:

CAUTION This battery pack is designed specifically to work with an HP recharger; HP is therefore not responsible for damages caused by using a non HP recharger.

The rechargers listed next are recommended for use with the HP 88014B Rechargeable Battery Pack.

Model AC Voltage Identification

HP 82059B 90 to 120 United States

HP 82066B 210 to 250 Europe

HP 82067B 210 to 250 United Kindgom

HP 82067B Opt 001 210 to 250 Republic of South Africa

HP 82068B 210 to 250 Australia

HP 82069B 90 to 120 Europe

Oh yeah, along with the 20V~/500 ma MAX. INPUT on the battery label, can't you read the part "WARNING: NO USER SERVICEABLE PARTS INSIDE. USE ONLY WITH ADAPTERS NOTED IN THE INSTRUCTION MANUAL."

Whatever. I hope that the little charging circuit inside the battery case is fairly robust, and could probably take 20V no problem, even though a Malaysian-made 82059D adapter says it puts out 8 VAC 3 VA max.

Sorry for the lack of information-added.

Summary:

1. Open the box.
2. Replace the battery.
3. Replace the fuse, if needed.
4. Give it some AC and charge it up.

Have a great day,

Dan

Re: Regarding 9114a disc drive

*Message #12 Posted by [Alain](#) on 29 Oct 2002, 9:37 p.m.,
in response to message #11 by Dan M*

Thanks to everyone,

the Wall-Transformer I originally mentionned was a HP-82059D. So, according to previous posts, it should work. So, the battery pack is charging. I will see soon if I need to open the battery pack. For the moment, I get a "Power light on" and a "Fail light on" but nothing else.

Regards

Alain

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: HP-41C Help Request

Message #1 Posted by [David Smith](#) on 28 Oct 2002, 4:16 p.m.

If your machine is a fullnut version with the separate CPU card, you also need to clean the contacts and strips beneath the CPU card. Use 91% isopropyl alcohol. Clean both the strips (carefully) and the contact pads on the circuit boards. Same for the battery contact assembly. Dont let alcohol get on the display window or it will fog it. Also scrub down the back side of the keyboard with alcohol. You may also want to clean the back side of the LCD module. I use an "acid" brush with the bristles trimmed short and stiff (or a tooth brush). Be careful again to not let alcohol get on the display window.

Re: HP-41C Help Request

Message #2 Posted by [Terry Hayward](#) on 29 Oct 2002, 6:28 p.m.,
in response to message #1 by David Smith

I have just recovered my old HP41C from the loft! It has the same problem - zilch on the display. I would like to try to get it to work by cleaning it up as suggested but cannot see how the case opens - bit of guidance would be appreciated- thanks

Re: HP-41C Help Request

Message #3 Posted by [lars](#) on 30 Oct 2002, 6:28 a.m.,
in response to message #2 by Terry Hayward

i have some pictures at

<http://www.mekanik.ikp.liu.se/staff/larjo/hp41.html>

--lars

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

42S Dust

Message #1 Posted by [gifron](#) on 28 Oct 2002, 2:13 p.m.

I've always wondered about this... How on Earth does that dust get inside a sealed unit? I recently got out my 42S, and noticed that it has a significant amount of dust behind the display! I don't remember it being there before (maybe I missed it). Sure, it's been sitting on a shelf and should be dusty, but how does dust get INside? And more importantly at this point, is there any way to get it out?

Re: 42S Dust

Message #2 Posted by [Raymond Hellstern \(Germany\)](#) on 28 Oct 2002, 6:23 p.m.,
in response to message #1 by gifron

Obviously you're talking about the old displ variant, where a protective glass is over the actual display.

Note that there is no vacuum between the protective glass and the display, and the calc case isn't really sealed. So it's normal for dust to get in between;-)

I don't know a safe method to get rid of the dust w/o opening the unit, but maybe pressed air could help.

Raymond

Re: 42S Dust

*Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 28 Oct 2002, 11:56 p.m.,
in response to message #2 by Raymond Hellstern (Germany)*

Hi;

if you carefully inspect the batteries compartment, you'll see there are small gaps on it all over the access of dust in there, right under the LCD.

If you use clean air source, you can try using it there (e.g. plastic-model airbrush). Just take precautions for static charges that can be produced.

Success.

It's not sealed

*Message #4 Posted by [Mike](#) on 29 Oct 2002, 2:40 p.m.,
in response to message #1 by gifron*

There is nothing sealed about this. It's just tightly held together. There are gaps.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Repairing card reader for HP41C

Message #1 Posted by [Anonymous](#) on 28 Oct 2002, 11:08 a.m.

I would like to know if somebody can help me to repair a card reader for my dear old HP41C. I really have not the time to do that. Can somebody make me a proposition ??? It seems to be a little bit "gummy" and always displays MALFUNCTION.

I would like to know if the card reader can work fine in the HP41C supplied just with an external DC supply pack? What will be the peak current ? Because I have no more battery. And I dont want to use electric piles.

Thanks.

Re: Repairing card reader for HP41C

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 28 Oct 2002, 11:50 a.m.,
in response to message #1 by Anonymous

Hi;

have you read [this article](#) or [this one](#)? If not, they're good starting references.

Anyway, were are you? Depending on your location, you'll find someone closer to you that will be able to offer repair. Also, describing the symptoms a bit better would help. I could try, but you're probably not in Brazil, are you?

Success.

Re: Repairing card reader for HP41C

Message #3 Posted by [Frédéric ALBERT\(from France\)](#) on 29 Oct 2002, 2:44 a.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

You're right. I'm in France. In Europe now.

It is a little bit delicate for me, because I have been already in contact with somebody posting often on this forum which proposed me a package containing exactly the copy of these two documents (maybe with a translation in French) with two "well calibrated" O-rings for the moderate sum of 25 euros (today 1 euro is 1.0161 US dollar). I was a little bit suprised !!!! Maybe I was wrong, and I'm really ready to admit that if you think it is the right price.

I'm sure that this man will understand I'm speaking about him. And really I prefer not to be in contact with such person. It's very clear for me that I will not and never give you anything allowing you to know who he is.

I am doubtless a little bit artless to believe it, but I was believing that the community of the HPmuseum was a good community providing help for people needing help in any domains concerning HP calculators. It's clear that I do not make a generalization, because it is the beginning of racism, discrimination and hatred. It is possible that I'm just idealistic a little to believe that things can have a right price (I really hate the market economy).

Well, my problem is always the same. My father offered me an HP41C after my Baccalaureat en 1989. I really appreciate using this calculator for many reasons but I do not trust maybe enough me to begin such a repair alone.

Thanks for any help.

Frédéric

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 9114A Disc Drive Problem

Message #1 Posted by [Daniel Diggelmann](#) on 27 Oct 2002, 7:01 p.m.

I have one HP 9114A which work flawlessly. Then I got a second one which supposedly has a weak battery. So I tried to power it up with the good battery of my first drive. It came on but didn't work. Now both drives don't come on with either battery pack. Seems as something has fused inside the battery packs. Any ideas are much appreciated. Daniel

Re: HP 9114A Disc Drive Problem

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 27 Oct 2002, 9:39 p.m.,
in response to message #1 by Daniel Diggelmann

Hi;

I'm not sure about the details, but the HP9114A Operator's Manual, p. 2-9, mentions that the batteries are fused. There's no mention for the fact that they may be repaired.

If you are going to open the pack, please, do it on your own risk. I'm just passing the same information I was given, O.K.?

Best regards.

Re: HP 9114A Disc Drive Problem

Message #3 Posted by [Daniel Diggelmann](#) on 28 Oct 2002, 2:33 a.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

Thanks Luiz,

I've opened the two batteries and found out that they have different PCBs. One battery is of Type A the other of Type B (more complex PCB). But I didn't see any element on them which could fuse. So I took the good battery of Type B to the Type A battery which now lets me power up both drives. So now I have another problem. I tried to format a Maxell DS, DD 1.0 MB diskette with my HP41CX. When I do NEWM 128 it formats nearly the whole diskette and then stops with message NO MEDM. Strange and it does it on both drives. What's going on here - this has once worked. But I must say that I haven't used the good drive since about one year. Do I use the right type of disks?

Re: HP 9114A Disc Drive Problem

Message #4 Posted by [Steve \(Australia\)](#) on 28 Oct 2002, 2:53 a.m.,
in response to message #3 by Daniel Diggelmann

I'd try using a floppy drive cleaning disc. I've found it has made my drives
DRAMATICALLY more reliable :-)

On another point...

Would it be possible for you to scan both PCB's (both sides too)? I'm interested in the difference between various charger units HP used.

My email address is steveh at iinet dot net dot au.

From memory there was a fuse in mine... I'll try to check when I get home.

Re: HP 9114A Disc Drive Problem

Message #5 Posted by [Daniel Diggelmann](#) on 28 Oct 2002, 11:27 a.m.,
in response to message #4 by Steve (Australia)

I have taken snapshots of the PCBs and have sent them to Steve. Anyone else interested just let me know.

Re: HP 9114A Disc Drive Problem

Message #6 Posted by [Andreas Müller](#) on 28 Oct 2002, 3:37 a.m.,
in response to message #3 by Daniel Diggelmann

Hi Daniel, there IS a fuse on both PCBs. Referenced to the PCB of type B the fuse is the part located directly on the left of the 5 Pin connector. It is either labeled 5AF or it looks like a resistor - body green with code red red black(? I don't remember exactly) green on it. IT IS A 5A QUICK ACTING FUSE. When I come home this evening I can send you photos of both and I will verify if the black ring(in the code) is correct. Kind regards,
Andreas

Re: HP 9114A Disc Drive Problem

Message #7 Posted by [Daniel Diggelmann](#) on 28 Oct 2002, 5:19 a.m.,
in response to message #6 by Andreas Müller

Thanks to all for your help so far. I'm sure I'll be able to repair the power supply issue with the help of the photo by Andreas. Now there's still the problem with formatting the diskettes. Just not sure if I'm using the right ones. Besides that has anybody use the DOS program SYDEX to format diskettes?

Re: HP 9114A Disc Drive Problem

Message #8 Posted by [Massimo Gnerucci \(Italy\)](#) on 28 Oct 2002, 7:15 a.m.,
in response to message #7 by Daniel Diggelmann

Besides that has anybody use the DOS program SYDEX to format diskettes?

Hello Daniel,

I did use CopyQM, TeleDisk, FormatQM(?) and others ... 10+ years ago.

I should be able to find them in the floppy stack down in the basement.
What's your question about these programs?

Greetings,
Massimo

Re: HP 9114A Disc Drive Problem

*Message #9 Posted by [Daniel Diggelmann](#) on 28 Oct 2002, 7:53 a.m.,
in response to message #6 by Andreas Müller*

I found the fuse on the Type B PCB to be broken. I'll possibly replace it with something similar. I also found out that I was a bit too impatient. The formatting problem has disappeared after fully charging the battery. Now both drives work properly. I've also tested writing a HP41 program on one drive then reading it on the other drive and vice versa. Thanks for all your help.

Re: HP 9114A Disc Drive Problem

*Message #10 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 28 Oct 2002, 10:07 a.m.,
in response to message #9 by Daniel Diggelmann*

Hi, Daniel;

good news from you! Congrats.

One information I took from the HP9114A Operator's Manual that I found interesting: use the AC adaptor as many times as you can. Using the HP9114A with the AC adaptor directly connected to the AC outlet and to the batteries is sort of good practice.

Despite finding it strange, I've been keeping this procedure.

Best regards.

Re: HP 9114A Disc Drive Problem

*Message #11 Posted by [Andreas Müller\(GER\)](#) on 28 Oct 2002, 5:45 p.m.,
in response to message #9 by Daniel Diggelmann*

Hi Daniel, I just sent you the snapshots - I know you do not need them anymore - with some comments and hints. In a few days I can send you the schematics too, if you are interested. Just let me know. Kind regards, Andreas

Re: HP 9114A Disc Drive Problem

Message #12 Posted by [Dale Richmond](#) on 30 Oct 2002, 6:27 p.m.,
in response to message #9 by Daniel Diggelmann

I have replaced the 5 amp fuse in the charging circuit and have a question regarding the charging cycle. When charging partially discharged battery the voltage measured at the battery will slowly increase as the battery is charging. When the battery is completely charged the charger output voltage will slowly rise to 8.05 volts and then drop to 7.5 volts in a continuing cycle (no load on the battery or charger) When the voltage is at its highest a green LED will turn on on the PCB and apparently cycle on and off as the voltage changes. It is a type B circuit board. I have not checked to see if this occurs with a load on the battery. I was just wondering if this is normal for this circuit.

Re: HP 9114A Disc Drive Problem

Message #13 Posted by [Andreas Müller\(GER\)](#) on 1 Nov 2002, 6:01 p.m.,
in response to message #12 by Dale Richmond

Hi Dale, for me this sounds like a kind of 'trickle charge mechanism'. But I wonder if the voltage is correct. When you read datasheets and application notes of lead acid batteries (there is good info at Hawker's website) you will find (for a 6V battery) 7.5V max. voltage for cyclic use and about 6.9V max. voltage for standby use. But in all cases 7.5V is the highest allowed voltage. So, maybe there is something wrong with the charger circuit? Another thing is the little NTC on the PCB. Maybe this resistor is a built in temperature compensation for the 'end of charge' voltage. I have a netlist of the PCB. I hope to have a schematic of it in a few days. Then, perhaps I can tell you more. Kind regards, Andreas

Re: HP 9114A Disc Drive Problem

Message #14 Posted by [Andreas Müller\(GER\)](#) on 4 Nov 2002, 6:47 a.m.,
in response to message #13 by Andreas Müller(GER)

Hi Dale, I made some measurements on the PCB of my Battery unit. It is toggling in the same way you described. The voltage readings are 7.81V max. (LED switches on) and 7.33V min. (LED switches off). Both voltages drop when the NTC is heated, for example by hand. It is a trickle charge! The schematic is ready. I have to make it a bit more 'readable' and then pdf it. Do you want the schematics?

Kind regards, Andreas

Re: HP 9114A Disc Drive Problem

*Message #15 Posted by [Dale Richmond](#) on 4 Nov 2002, 8:12 a.m.,
in response to message #14 by Andreas Müller(GER)*

Andreas, I am interested in the schematics for the charger. My main concern was that I did not damage the circuit board when I replaced the 5 amp fuse. This seem like an unusual way to implement a trickle charge. Thanks for the information!! Dale Richmond

Re: HP 9114A Disc Drive Problem

*Message #16 Posted by [Andreas Müller\(GER\)](#) on 4 Nov 2002,
11:52 a.m.,
in response to message #15 by Dale Richmond*

Hi Dale, <<This seem like an unusual way to implement a trickle charge.>> You are right. It is a 2 point regulation - like the basic heating regulation at home - resulting in a mean voltage of about 7.5V. Regards, Andreas

Re: HP 9114A Disc Drive Problem

*Message #17 Posted by [David Smith](#) on 28 Oct 2002, 4:20 p.m.,
in response to message #3 by Daniel Diggelmann*

You need to cover the hole in the corner of double sided disks for them to be recognized by the hP drive. This just happens to be where HP placed the optical sensor for detecting an inserted disk.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-41 Service module, Eprom Box and Rambox

Message #1 Posted by [Emmanuel](#) on 27 Oct 2002, 5:20 p.m.

I entered 4096 lines of Hex codes into my W&W 32K Rambox. Configuration : one 4K bank and page 4 01000000 11111111 11111111 HP-41 switched on and ... CPU OK followed by SELECT CPU - key returns ROM 0:N 1:F 2:L on my HP-41CX

Now I burn 2 Eproms on a Mountain Computer MC00506A IL Eprom Programmer. One 2716 and one 2732. Both inside an HHP-16K Eprom box. Configuration 4K and page 4 0100 0000 HP-41 switched on and ... CPU OK followed by SELECT CPU - key returns ROM 0:N 1:F 2:L on my HP-41CX too Stupendous, isn't it? Thanks, Richard and Joe!!!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Is it true HP isnt making the 49G

Message #1 Posted by [Criss P.](#) on 27 Oct 2002, 2:29 p.m.

I have heard some people say that HP will no longer be making the HP 49G or developing any new calculators. Is there any truth to this? And if so, should I buy a 49G now or will I still be able to in half a year?

Thankyou

Re: Is it true HP isnt making the 49G

Message #2 Posted by [Ellis Easley](#) on 27 Oct 2002, 3:21 p.m.,
in response to message #1 by Criss P.

Shortly after the 32SII was discontinued, while there were still units in some stores for the list price of \$60, the price on Ebay went to \$150. If this is repeated on the 49G (when and if it goes away), the price might go up to around \$500. It might truly be the last RPN, unless something happens.

Ideas come to me while I am writing my missives here: television sets nowadays come with a disposable (and easily replaced with a generic equivalent) remote control that contains the codes to operate hundreds of different VCR's, cable boxes, and now probably DVD players, only a tiny fraction of which any user will need. Why can't the makers of calculator IC's (I think Mike Sebastian says it's pretty much down to Toshiba) be prevailed upon to add RPN capability as a user option? From studying the early TI calculator booklets, I understand that "AOS" uses as much, or more, RAM as the 4 level stack. Not only do numbers need to be remembered, operations are also held in a stack until the "=" key (or parentheses or whatever) is pressed.

Maybe HP will bring this up with their new suppliers. HP certainly has the code required, and could help a supplier incorporate it.

Re: Why no RPN option?

Message #3 Posted by [Paul Brogger](#) on 29 Oct 2002, 9:08 a.m.,
in response to message #2 by Ellis Easley

I'm sure neither the cost of the IC's themselves, nor the cost of RAM is a determining factor. It's no doubt the costs of developing (software) and of adequately testing, documenting, and supporting a whole different "mode of operation" that will prevent such an option from being made routine.

HP may have some code that has worked for several implementations, and they might even be willing to share it with another manufacturer (don't hold your breath!), but that manufacturer would likely have to nearly double the software development, testing, documentation and support budgets in order to make the option available to a relatively tiny fraction of the potential market.

Even piggy-backed on the creation of an AOS device, RPN no doubt doesn't look to decision-makers like a very profitable enterprise.

Re: Why no RPN option?

Message #4 Posted by [Emmanuel, France](#) on 1 Nov 2002, 10:48 a.m.,
in response to message #3 by Paul Brogger

Heard that they were reducing the number of calcs. HP-12C will survive, be sure. To be or not to be RPN nowadays? That's the question ... It was really useful and powerful during war against AOS. It was a notation, not a language. I'm an HP-41 fanatic and my words aren't objective.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Fractions on HP-42S

Message #1 Posted by [Erwin](#) on 27 Oct 2002, 11:09 a.m.

Hello All,

Is there any way to do fractions on my 42S like you can do on the 32SII? e.g. a programm?

Thanks

Re: Fractions on HP-42S

Message #2 Posted by [Erik Ehrling \(Sweden\)](#) on 27 Oct 2002, 3:27 p.m.,
in response to message #1 by Erwin

Hi!

I have a H42S version of QPI that is identical to the program with the same name on the HP48.
Send me an email if you want me to write it down and email it to you?

Best regards, Erik Ehrling

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

How to reassemble a HP15C ?

Message #1 Posted by [Nicolas](#) on 27 Oct 2002, 10:56 a.m.

I looked at all the posts but no answer for this question.

I have a HP-15C. I disassembled it for repair but how to get the electronic card back in and fix it (keyboard problem).

If anyone could help me, i'll appreciate.

Thanks a lot.

Nicolas

PS : sorry for the mistakes, message from France ;)

Re: How to reassemble a HP15C ?

Message #2 Posted by [Ellis Easley](#) on 27 Oct 2002, 2:50 p.m.,
in response to message #1 by Nicolas

I have disassembled two Voyagers: a 12C and a 15C, both with the single PCB. I cut off the tops of the heat-staked posts in both cases to remove the PCB. On the 12C, I built up a pad with layers of duct tape to fill the space between the case back and the PCB. This works but gives the keyboard a spongy feel. On the 15C, I glued the PCB in place with some superglue (cyanoacrylate) that had become thick with age. I applied a small drop to each post and pressed the PCB with my fingers for a minute or more till the glue set, one post at a time. The thicker kind of superglue that is sold that way (non-running) might work just as well - I feel it is important not to use the regular thin glue because it could run down and interfere with the keyboard contacts.

(I think it was) Randy Sloyer suggested using a hot knife to soften the mushroom shaped caps of the heat staked posts and then form the softened plastic back into a cylinder, freeing the PCB and allowing the posts to be re-heat staked to reassemble the machine. He suggested using a

wood burning tool with a variable auto-transformer to control the temperature of the tip. He said it is important to have the temperature just high enough to soften the plastic, if the temperature is much higher the plastic is burned and cannot be re-used.

Here's an idea that just occurred to me: I think one reason why a space filler gives a spongy feel (other than the softness of my duct tape!) is that the pressure on the filler is transmitted through to the back of the calculator case, which is free to bow out in the middle. If instead of the pad there was a thinner sheet of very stiff material (with a layer of insulation between it and the PCB if necessary) and then an "X" shaped sheet metal spring pressing from the corners of the case back to the middle region of the stiff material, the force would be transmitted to the corners, where the screws are. Or maybe four small, stiff coil springs in the corners. Or how about a piece cast from acrylic resin to exactly fill the space - would that be stiff enough to do the job without springs?

A combination of these ideas would be to cut a sheet of stiff metal to fit snugly inside the case back and then glue onto it a number of little blocks of hard rubber (not foam) to push against the PCB. As I recall, the space that needs to be filled is not of a uniform thickness - I remember using strips of tape in different numbers of layers for the front and the back - unless I'm just thinking of making clearance for the IC's. But whether uniform or not, each rubber block would be the right thickness for its space. A sheet of aluminum 0.050" or 0.0625" (1/16") thick would be stiffer than the case back without adding much weight - certain alloys or annealing might provide more stiffness.

This approach ignores the bowing out of the case front (full of holes!) as a contributor to the sponginess, or just looseness, of the keys. I like Randy's idea but it is too late for my calculators. Also, it would be nice if there was an effective way to reassemble the unit that could be undone and re-used easily. After I glued my 15C, I found the machine had a tendency to give a double entry on the "4" key. I think this is because I didn't completely dry out the keyboard switch sandwich (the calculator had to be disassembled to clean PCB corrosion from battery leakage, which was causing it to go through a set of batteries in about a week). The multiple keyboard entry has gotten better over time.

Re: How to reassemble a HP15C ?

*Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 27 Oct 2002, 3:40 p.m.,
in response to message #2 by Ellis Easley*

Hi, Ellis;

just to add one of my own concerns about reassembling the Voyagers.

Every solution that would use the back half of the calculator's case as a "shield" to hold any sort of material that will press the main PCB against the keys leads me to wonder about this fact: the four screws that hold the back of the calculators and their plastic threads were not design to retain that much pressure. I am afraid they will be loose with the time, for as many times as they are unscrewed to repair the calculator.

Is it too much concern or not? When I look at the HP41's screws and I realize they were design to hold not only the back case but to keep flex circuits in contact with each other, I see the difference: they are bigger and deeper.

Any comments?

Best regards

Re: How to reassemble a HP15C ?

*Message #4 Posted by [Nicolas](#) on 28 Oct 2002, 6:00 a.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)*

Thanks a lot to you both.

I already tried to fill empty space on the back of the PCB but not with one single aluminium plate, what is not a bad idea. I just have to find or build it :/

I think I will try to glue it, another idea I had a long time ago. I didn't do it 'cause I was not sure it could work. I think also I'll have one chance and only one to success (cyanoacrylate doesn't excuse any fault).

I thought also to find very little screws, like watch ones, and try to screw the PCB. But without success, all I found were too big.

I'll keep you informed of my reassemble operation I called 'what do you want to glue today' :)

Thanks again.

Nicolas

Re: How to reassemble a HP15C ?

*Message #5 Posted by [Ellis Easley](#) on 29 Oct 2002, 8:14 a.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)*

Luiz, I agree, the screws won't stand up to a lot of force. Any spring or hard rubber spacers would need to be just the right size so they are just barely compressed when the machine is screwed together. Then together they would provide a solid backup when keys are pressed, and the force of the key presses would be distributed among the four screws.

I want to try Randy's idea next time I need to open up a Voyager.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP41 Memory Modules

Message #1 Posted by [Ty Rogers](#) on 27 Oct 2002, 9:32 a.m.

What memory modules are for what calculators? Will the Quad memory, 82106A, X memory modules work in all three 41 calculators?

Re: HP41 Memory Modules

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 27 Oct 2002, 10:15 a.m.,
in response to message #1 by Ty Rogers

Hi;

plan memory modules as Quad Memory and single 82106A will ONLY work with the HP41C; both HP41CV and HP41CX will not use them and you may disrupt calculator operation if you try using them.

X-Memory will work fine directly in an HP41CX, because it can only be accessed by X-Functions. Anyway, if you have an HP41C/CV with X-Functions, X-Memory will work fine, too.

Just an advice about X-Memories: maximum of two modules in a plan HP41 (I do not know anything about modified calculators). And, in this case, a simple rule: place them side to each other, never in the same column: internal connections will not allow two X-Memory to work in the same column.

Hope this clarifies.

Cheers.

Re: HP41 Memory Modules

Message #3 Posted by [Raymond Hellstern \(Germany\)](#) on 27 Oct 2002, 10:19 a.m.,
in response to message #1 by Ty Rogers

Quad (82170A) or single memory modules (82106A) can only be used in the HP-41C, not the CV or CX.

You can use either **one** Quad memory **or** up to four single memory modules.

Up to **two** X-Memory modules (82181A) can be used in the C, CV, or CX.

In the C or CV you need an additional X-Functions module (82180A) to gain access to the X-Memory. The CX has the X-Functions built-in.

hth,

Raymond

Re: HP41 Memory Modules

Message #4 Posted by [Ty Rogers](#) on 28 Oct 2002, 8:16 a.m.,
in response to message #3 by Raymond Hellstern (Germany)

Thanks Guys

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

RA->Lim NiceGuy SAME (was Re: HP 28S Keyboard incident)

Message #1 Posted by [Glen Kilpatrick](#) on 26 Oct 2002, 9:06 p.m.

In case no one else noticed your dead, uhhh, DEED (Action, Generosity, _etc._), that was very nice of you, R. A. Lim.

DEAD??? I should certainly Hope Not, not for being that nice a guy.

gk :(

{Glen wanders away, muttering to himself, "Gotta proofread posts more carefully"}

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Im looking for a HP RPN calculator, which one is good to get?

Message #1 Posted by [K.C.](#) on 26 Oct 2002, 5:52 p.m.

Hi.

I wanted to get a RPN calculator but the only new ones that ive seen on the market is an HP financial and the HP48/49.

I just want a HP Scientific that has Reverse Polish Notation. Can any one give me some advice on how to find one, which ones are the best, and how much money I might be spending?

Also does anyone know of any good websites that would teach me how to use RPN?

Thanks

Re: Im looking for a HP RPN calculator, which one is good to get?

Message #2 Posted by [Jim L](#) on 26 Oct 2002, 6:35 p.m.,
in response to message #1 by K.C.

Here is some info on learning RPN. <http://www.hpmuseum.org/rpn.htm>

You can find calculators at the [classified ads](#) and other places. As for best and the amount of money, you'll need to supply some parameters. I'm not sure if you need my idea of the "best".

Re: Im looking for a HP RPN calculator, which one is good to get?

Message #3 Posted by [K.C.](#) on 26 Oct 2002, 9:20 p.m.,
in response to message #2 by Jim L

Sorry for the vague post but im not really sure what im looking for yet, because im not sure whats available.

Im a first year university student taking engineering. I use a HP-30S scientific right now and I dont really like it. I also have a TI-83+ but Im not allowed to use it in any of my classes because of the graphing.

Its hard to enter long equations and work with numbers on my HP-30S and Im looking for something more efficient. Im going to eventually buy a HP-49G but it might not be for a while and id still need to have a nice scientific.

Thanks in advance.

Re: Im looking for a HP RPN calculator, which one is good to get?

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 26 Oct 2002, 9:58 p.m.,
in response to message #3 by K.C.

Hi;

if you are not allowed to use a graphics calculator, you'll not be allowed to use the HP49G as well, neither any 48, nor any of these: HP38/39/40G: they're all graphics calc, too.

It seems to me that you can try any of these non-graphing: (no specific selection order, only the not-so-rare RPN models)

HP32SII

HP41C/CV/CX

HP11C or HP15C (the HP10C is too valuable and rare for the job)

The HP42S would also be a choice, if it's not a graphics calculator...

Hope you have success.

Re: Im looking for a HP RPN calculator, which one is good to get?

Message #5 Posted by [K.C](#) on 26 Oct 2002, 10:11 p.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)

Im getting the 49G for assignments and stuff like that. thats why i want a scientific for quizes and stuff.

other than the internet, do you know of any other places that i could try looking?

Thanks for the response

Re: Im looking for a HP RPN calculator, which one is good to get?

Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 27 Oct 2002, 10:09 a.m.,
in response to message #5 by K.C

Hi;

I am in Brazil, I'm not sure about how easy would it be to find HP stuff in your place. Anyway, this is the best e-place to ask about it.

Have you tried the [MoHP Classified adds](#)? It is a lot safe and you can simply get in direct contact with the guys.

Success.

Re: Im looking for a HP RPN calculator, which one is good to get?

Message #7 Posted by [Ellis Easley](#) on 27 Oct 2002, 1:21 p.m.,
in response to message #3 by K.C.

K.C. said:

"Its hard to enter long equations and work with numbers on my HP-30S and Im looking for something more efficient."

If K.C. wants to be able to enter complete equations into the calculator, wouldn't that limit the choice of HP's to those with a memory stack and algebraic capability like the 28C/S, 48S/SX/G/GX (-/GX+? or -/G+?), 38G, 39G or 49G? Entering an equation in RPN is a matter of evaluating it numerically step-by-step, in a more efficient way than the "Algebraic Entry" systems.

I know the 28C/S can be programmed to display graphics, but isn't it true that they don't have graphing functions (other than primitive bitmap operations) built-in? If so, and if K. C. wants both RPN and symbolic equation capability, in a machine without graphics capability, the 28C or 28S would be the choices.

Re: Im looking for a HP RPN calculator, which one is good to get?

Message #8 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 27 Oct 2002, 3:51 p.m.,
in response to message #7 by Ellis Easley

Hi, Ellis;

the HP28S offers plotting resources, say, it's not necessary to create a program to plot the graphics of an expression or equation. In fact, it can plot even discrete data, as the one used in statistics, but it has only dot resolution.

There is a PLOT menu for the HP28. It is a graphics calculator alright, with math plotting habilities.

Just my US\$0,15.

Cheers.

Re: Im looking for a HP RPN calculator, which one is good to get?

Message #9 Posted by [K.C.](#) on 27 Oct 2002, 4:16 p.m.,
in response to message #8 by Vieira, Luiz C. (Brazil)

I have been looking around and i think that these calculators would fit me best:

HP-42S HP-32S HP-32SII HP-15C HP-11C

Now my problem is finding one, im not even sure if I will be able to afford one.

Re: Im looking for a HP RPN calculator, which one is good to get?

*Message #10 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 27 Oct 2002, 4:26 p.m.,
in response to message #9 by K.C.*

Hi;

undoubtedly, the HP32SII is the easiest to find. Then you try to get any HP41 (C/CV/CX) or one of each HP11C/HP15C. As a rare piece, the HP32S will be a bit harder to find.

Success.

Re: Im looking for a HP RPN calculator, which one is good to get?

*Message #11 Posted by [K.C.](#) on 27 Oct 2002, 7:35 p.m.,
in response to message #10 by Vieira, Luiz C. (Brazil)*

I found a couple 32SII's on ebay but there really expensive, there are some 15C's too but also expensive. I'll keep my eye out on the classified board though. Is there anywhere else I could try looking.

Thanks

Try your local stores

*Message #12 Posted by [Jim L](#) on 27 Oct 2002, 8:00 p.m.,
in response to message #11 by K.C.*

I picked up a 32SII on clearance last Tuesday for \$29.95. They had another and I was seriously tempted to pick it up for ebay but I left it.

The classifieds section here is sometimes less insane then ebay especially if you get to know people or have something to trade but I find that most of the cheap calculators are local.

Re: Try your local stores

*Message #13 Posted by [Ron Ross](#) on 27 Oct 2002, 8:36 p.m.,
in response to message #12 by Jim L*

You could buy an Hp19bII. Used, they run about \$50 on ebay and still are available new for about \$120-135. It is the same form factor as a 28s (also still usually reasonable on ebay). Actually a very good calc with lots of features, I just prefer the simpler layout of a pure scientific, but the 19B does have trig, great solver, great stats, and also units conversions.

Re: Try your local stores

*Message #14 Posted by [K.C.](#) on 28 Oct 2002, 1:07 a.m.,
in response to message #13 by Ron Ross*

Should I be looking in some sort of small private stores or would larger stores even chains carry a HP RPN?

Thanks.

Re: Try your local stores

*Message #15 Posted by [Ellis Easley](#) on 29 Oct 2002, 8:21 a.m.,
in response to message #14 by K.C.*

Office supply chains carried some HP calculators and have sold them at clearance prices from time to time - I got a 39G for \$25 at an Office Depot store about a year ago, when HP's list price was still \$90.

Re: Try your local stores

*Message #16 Posted by [Paul Brogger](#) on 29 Oct 2002, 9:16 a.m.,
in response to message #13 by Ron Ross*

I saw several HP-10BII (I know, not RPN) at a K-Mart on clearance for \$24.00 -- some of those stores may be clearing out the last of other models as well.

(I probably should have bought one, just to have it, but a non-RPN, non-Scientific, non-programmable doesn't excite much interest . . .) (Maybe for eBay in a couple months?)

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 85 CPU

Message #1 Posted by [Jean-Marc Alliot](#) on 26 Oct 2002, 3:23 p.m.

Does anybody know which CPU used the HP 85 ? The information doesn't appear in the museum HP 85 page.

Thanks

Re: HP 85 CPU

Message #2 Posted by [Ex-PPC member](#) on 28 Oct 2002, 4:59 a.m.,
in response to message #1 by Jean-Marc Alliot

Follow this link to find the info you're looking for:

[The HP-85's Revolutionary CPU](#)

Best regards.

Re: HP 85 CPU

Message #3 Posted by [Vassilis Prevelakis](#) on 28 Oct 2002, 8:26 p.m.,
in response to message #2 by Ex-PPC member

You can also find a lot of information about the Series 80 CPUs by reading the HP 85 Assembler Manual in the MoHPC CDROMs (roms/85asmrom.pdf)

**vp

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP38C Battery Polarity

Message #1 Posted by [Larry Corrado](#) on 26 Oct 2002, 6:27 a.m.

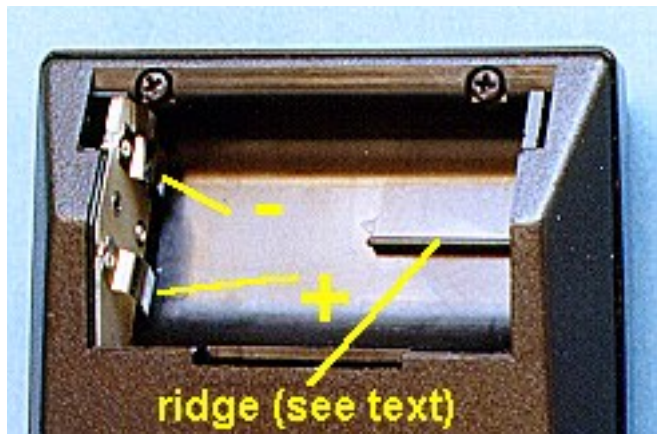
I have an HP38C which I would like to test using a dc power supply connected directly to the battery pack terminals. Does anyone know which terminal is positive? I assume I'll use a double AA voltage of about 2.8 V to test it.

I'm soon to acquire a 38E. I assume it has the same battery pack situation. Is that true?

Thanks! Larry

Re: HP38C Battery Polarity

Message #2 Posted by [Jim L](#) on 26 Oct 2002, 11:41 a.m.,
in response to message #1 by Larry Corrado



This is from: <http://www.hpmuseum.org/batts/battery.htm>.

Re: HP38C Battery Polarity

Message #3 Posted by [David Smith](#) on 26 Oct 2002, 3:29 p.m.,
in response to message #1 by Larry Corrado

When installing batteries in a Spice series machine, place a strip of ribbon or paper around the pack to make removing it easier. These machines have a tendency for the battery pack to damage the battery contacts when you remove them. One thing that likes to happen is the bottom (free) end of the battery clip snags between the top contact of the battery and the seam around it. When you try to pry the battery out, the clip snaps off. Not helped by the tendency of the batteries to corrode in these machines.

Re: HP38C Battery Polarity (Thanks!)

Message #4 Posted by [Larry Corrado](#) on 27 Oct 2002, 10:03 a.m.,
in response to message #1 by Larry Corrado

Jim: Thanks for the picture and Web reference. I had looked around the HPMuseum for the polarity info, and somehow overlooked it.

David: Thanks for your tips on 30 series batteries.

The machine worked great when I powered it up.

Larry

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Thanks, Richard and Joseph!

Message #1 Posted by [Emmanuel](#) on 26 Oct 2002, 5:49 a.m.

I would like to thank mister Richard Taylor and mister Joseph Edelmann for their help in getting a Mountain Computer MC00506A IL Eprom Programmer and HHP-16K Eprom Box. All is in working condition. Thanks again, you are very nice persons! It was a real smooth transaction.

Re: Thanks, Richard and Joseph!

Message #2 Posted by [TAYTEC](#) on 26 Oct 2002, 2:48 p.m.,
in response to message #1 by Emmanuel

Thank you Emmanuel, for your kind words and for your contribution to the HP Calculator Community.

Sincerely,

TAYTEC

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP10Bii

Message #1 Posted by [Ramon Griffin](#) on 25 Oct 2002, 8:47 p.m.

I teach a short course on Time Value of Money and use of the HP 10Bii or HP 12c calculator. I had a call today from a sight impaired person asking for help in learning to use one of the calculators.

I have found simulators for the calculators and wonder if the authors have provided for function key strokes which would allow the sight impaired person to couple the simulation with a voice recog. program and perform calculator functions.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-19C Gone Loco!

Message #1 Posted by [John Garza \(3665\)](#) on 25 Oct 2002, 5:34 p.m.

Everytime I turn it on, the printer advances paper and won't stop!

Anyone seen this before?

-J

Re: HP-19C Gone Loco!

Message #2 Posted by [David Smith](#) on 25 Oct 2002, 5:59 p.m.,
in response to message #1 by John Garza (3665)

Yes... been there, done that.

Could be a bad connection between the internal boards, a bad transistor on the printer board (individual or in one of the quad transistor IC's), or (much worse a problem) one of the HP custom IC's. Option 2 most likely, then 1, then 3.

Re: HP-19C Gone Loco!

Message #3 Posted by [John Garza \(3665\)](#) on 27 Oct 2002, 1:29 a.m.,
in response to message #2 by David Smith

This seems strange, but it appears to be related to the battery. The wild printing never happens when the machine is plugged into the charger, or shortly after being disconnected. Let it set (turned OFF) an hour, and it goes loco again when turned on. Funny though, the low battery indicator never comes on, and the display seems normal during the loco printing.

My fully charged Ni-MH pack put out 5.61v, but I noticed it dropped to 5.56v within a few minutes after removal of the charger. At about 5.40v, the loco printing starts. Disassembling the battery pack, it looks like 2 cells have some internal short as they discharge much quicker than the other two. I replaced all 4 cells with alkalines (6.09v now), and all is well.

The display is just perceptibly brighter, but everything works.

Very weird.

-JG

Re: HP-19C Gone Loco!

*Message #4 Posted by [David Smith](#) on 27 Oct 2002, 6:18 p.m.,
in response to message #3 by John Garza (3665)*

A four cell Nicad/NiMH pack has a nominal volatge of 4.8V, full discharge at 4.0V, full charge at 5.2-5.6V. You might try rebuilding the pac with new cells, but it sounds like mayby something is flakey with the power supply in the calculator.

Re: HP-19C Gone Loco!

*Message #5 Posted by [Katie Wasserman](#) on 27 Oct 2002, 10:29 p.m.,
in response to message #4 by David Smith*

The printer in the 19C (and 10) draws a lot of current when it's running. Batteries that have a high internal resistance (because they're failing) won't provide enough current for the motor to do its thing and stop. For whatever reason it just keeps running on like that. The solution is good batteries (Nicad or NiMH) and clean battery contacts. I don't think that there's anything wrong with your calculator, the 19C's that I have exhibit this same behavior with poor batteries. The low battery warning doesn't report this problem becasue it's turned off during printing when the voltage really takes a dive. However, the decimal point will often flash once or twice after a line is printed before the battery voltage recovers.

Re: HP-19C Gone Loco!

*Message #6 Posted by [David Smith](#) on 29 Oct 2002, 1:45 p.m.,
in response to message #5 by Katie Wasserman*

Yes, the battery contacts in the 19C (and all Woodstocks for that matter) are a weak point in the design. It really helps to put a small wad of aluminium foil in the battery contact holes in the battery pack. HP service people actually made this recommendation to people who complained about 19C battery problems.

The Woodstock battery pack had three different versions. The first had the two cells connected together with only the dual coil spring. This had the possible problem of flakey connections. In reality it was probably the most reliable type.

Next they added a strap welded across the cells. This fixed the flaky contact problem between the cells, but since the cells could no longer move independently, they often made poor contact if the battery contacts in the calculator were not even with each other.

Finally they made the strap between the batteries longer with a little "U" shaped fold in it. The cells could now move somewhat independently, but often not enough to insure good contact.

In wad I trust.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Help with printer 82143A

Message #1 Posted by [Silvio de Morais](#) on 25 Oct 2002, 12:59 p.m.

Hello,

I just got a 82143A printer with no AC Adaptor/Charger. Does anyone knows if I can buy a regular adaptor? What would be the specs fot it?

Thanks for any help,

Silvio

Re: Help with printer 82143A

Message #2 Posted by [Richard Garner](#) on 25 Oct 2002, 2:10 p.m.,
in response to message #1 by Silvio de Morais

I thought almost all of the HP 41C/CV/CX devices used the same power supply adapter, the 82059A/B. These can be found on eBay on a regular basis.

Re: Help with printer 82143A

Message #3 Posted by [Victor](#) on 25 Oct 2002, 8:16 p.m.,
in response to message #2 by Richard Garner

The 82059A/B will also work with the HP-91/92/97 series, along with most HP-41 peripherals. You will also need a good battery pack to operate the printer.

Re: Help with printer 82143A

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 26 Oct 2002, 2:47 a.m.,
in response to message #1 by Silvio de Moraes

Hello, Silvio (are you in Brazil too? Perhaps a brazilian one?)

The specification that comes with the three AC adapters I have are:

82059B (comes with some printers) - 90-127VAC input (7Watts) - Output: 3W, 8VAC

82040B (Made in Brazil) - 90-127V AC input - Output: 3VA, 8VAC

82056B (sold in Europe) - 220V AC input - Output: 3VA, 8VAC

If you need some measurements (output current with load, voltage drop, etc.) let me know.

Best regards.

Re: Help with printer 82143A

Message #5 Posted by [David Smith](#) on 26 Oct 2002, 3:32 p.m.,
in response to message #1 by Silvio de Moraes

Better to use the 82059 C or D. The "D" is the most common plug you will find. Some of the A and B units will not plug into the 82143A because there is no gap between the plug contacts. A little razor knife work cures that problem.

Re: Help with printer 82143A

Message #6 Posted by [Silvio de Moraes](#) on 26 Oct 2002, 6:43 p.m.,
in response to message #1 by Silvio de Moraes

Thank you all. I'll try to get a 82059 on e-Bay.

Silvio

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP41 ROM/RAM box status update (long)

Message #1 Posted by [Meindert Kuipers](#) on 25 Oct 2002, 4:48 a.m.

Let me give you a quick update on the current status of the MLDL2000 development project. In addition I have a few questions for the community that I would like to have some feedback on.

I have now completed the first phase of MLDL2000, which is a full functional simulation of a 'Classic ROMBox'. There is no hardware yet, but I am about to purchase a Xilinx CPLD prototyping board and start building some real hardware. The updated design (VHDL files) is at www.kuipers.to/hp41 together with a view of the simulation results and testbench (this information is now all under the GNU license). This part is ROM only, and was done to prove that the concept would work and to get myself up to speed with the HP41 interface and the VHDL language. The device used is a Xilinx Coolrunner XPLA3 CPLD with 64 macrocells, and I am using about 60% of its resources. As I expect that the number of registers will go up dramatically when the data shift register is implemented I hope that in the final MLDL2000 everything will fit in a 128 macrocell device, but that will be pretty tight. The next step is a 256 macrocell device (which is on the prototyping board I am considering) and that will be more than enough. The main problem I am facing is that I do not need many I/O pins, but rather a lot of registers and macrocells. But devices with more macrocells have more I/O pins anyway, and are physically larger.

I am now working on the next step: use one EPROM only, with use of the Settings Registers. This requires 3 cycles to get EPROM data and makes the state machine more complicated, but will reduce power consumption and number of parts (1 EPROM only). I expect that this will be implemented in hardware for debug. The Bank Switching will be part of this device as well.

I have also started to work on the schematic. I have to learn the program (Eagle CAD, which has a free version at www.cadsoft.de) and build libraries, as none of the parts I intend to use are in there. But I could use some help in making the schematic (and layout in a later stage).

Following will be expansions with MLDL RAM and an interface to a PC. I do not know exactly how to do the PC interface yet, but most likely it will be using the parallel port to exchange data. At the same time Flash programming needs to be implemented.

I will update the specifications to reflect larger Flash EPROM (2 or 4 instead of 1 Mbit) and larger

SRAM (size not yet known). I am looking for a volunteer to make a set of basic functions to manage the MLDL2000. I am considering to define a new peripheral to control the MLDL2000. Any comments? The following functionality needs to be managed:

- direct access to the Flash Eprom and SRAM
- I/O to and from the PC interface
- Switching, enabling/disabling/write protecting ROM/SRAM banks
- Flash programming

What about the name? I have now been using MLDL2000, but it is much more than that. Any suggestions?

One of the better ways to communicate as a development community is a mailing list. Let me know if you like the idea and I will set it up (my provider has the facilities to setup a mailing list through my domain at kuipers.to).

Continue with your valuable feedback!

Meindert

Re: HP41 ROM/RAM box status update (long)

Message #2 Posted by [Andreas Müller](#) on 25 Oct 2002, 11:41 a.m.,
in response to message #1 by Meindert Kuipers

Hi Meindert, I am using Eagle CAD Pro at work and at home(both are legal Versions). So, if I can help you just let me know. BTW, if you have spare pins it would be nice to have one or more I/O Pins accessible by the 41 - for sure only usable in a built in version. Such I/Os could be used for speed switching for example. Kind regards, Andreas

Re: HP41 ROM/RAM box status update (long)

Message #3 Posted by [Christoph Klug](#) on 28 Oct 2002, 10:34 a.m.,
in response to message #1 by Meindert Kuipers

Dear Meindert

for interfacing HP-41 to PC world there exist the "classic" HP-IL Interface Loop solution, which works with the HP-IL/PC Interface Card. Furthermore this is compatible to all the other nice IL-Devices for mass storage, printing, plotting, hardware-interfacing/controlling and measurement.

If you want to add an interface to your MLDL box, please realize RS232 (and not a parallel port) because RS232 is the most used interfacen standard for PC's, PDA's, HP-48, and last not least the hardware interface system from Tony Duell (up to now only for HP-48).

Best wishes - Christoph Klug

Re: HP41 ROM/RAM box status update (long)

Message #4 Posted by [Meindert Kuipers](#) on 29 Oct 2002, 3:54 a.m.,
in response to message #3 by Christoph Klug

I understand that IL would be nice, as RS-232 would be a great option. My problem with the MLDL that I am designing is that I need a direct wire into the MLDL, not through the HP41. That means that IL cannot be used. RS-232 requires a microcontroller for building some kind of protocol, and I do not have those resources either

I am open to ideas. I have thought about USB, but that would mean a microcontroller as well on the MLDL side.

Meindert

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

The remaining models...

Message #1 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 25 Oct 2002, 1:00 a.m.

Hi;

I just accessed the HP page for calculators and the only ones I find information about are:

HP12C
HP10BII

HP20S
HP30S

HP39G
HP48GX
HP49G

Should we wave them a good-bye right now or wait a little more?

Re: The remaining models...

Message #2 Posted by [Dave](#) on 25 Oct 2002, 3:39 p.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

Just hold your breath for the enw lineup!!

Why? Are they going to stink?

*Message #3 Posted by [Gene](#) on 25 Oct 2002, 4:43 p.m.,
in response to message #2 by Dave*

Personally, if they are rebadging calculators this fall ala HP-6S type stuff, or it looks like the HP-30S, then they will stink.

There really has not been time to do anything else.

The new group is going to be some 5-15 people, AFAIK, and that's not enough to do much real development.

I don't have my hopes set very high. Perhaps I'll be surprised.

Re: Why? Are they going to stink?

*Message #4 Posted by [Glen Kilpatrick](#) on 26 Oct 2002, 6:33 a.m.,
in response to message #3 by Gene*

5-15? That's pretty small. And you wouldn't think they'd *all* be doing development, somebody's got to occasionally take a field trip to China, liason with production. Do you have any info as to location, that is where these 5-15 will be sitting?

Re: Why? Are they going to stink?

*Message #5 Posted by [J.Manrique López de la Fuente](#) on 26 Oct 2002, 9:42 a.m.,
in response to message #3 by Gene*

At least there is a group of people working on it.

And you should think about new ways for business like "outsourcing", that could give same quality at less cost.

Anyway, you should remember that first, these people need to make money, so don't expect marvellous machines soon. But they must replace hp49 and hp39/40 lines in the near future.. so there is hope for new marvellous coming.

Best regards, J.Manrique

That's what we heard about ACO too!

*Message #6 Posted by [Gene](#) on 26 Oct 2002, 10:19 a.m.,
in response to message #5 by J.Manrique López de la Fuente*

The outsourcing that has occurred so far has not resulted in good "quality" products like those of old.

Bad keyboards, hurried to market products, cheap knock-offs of other calculators. This may reflect better what is to come.

The new group has pretty much said that the new products will be outsourced. So far, that's not a good sign for the near future. If they have to "make \$\$", then this isn't a good sign either.

Remember, the calculators we all like were made when there were 1000s of people working on them in Oregon.

Now, we'll have a couple of dozen, tops.

Don't get your hopes set too highly.

Re: The remaining models...

*Message #7 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 25 Oct 2002, 11:17 p.m.,
in response to message #2 by Dave*

Hi, Dave;

I am expecting the two mentioned financial models (HP meeting in London); do ou know something more? At least, something that can be exposed here?

Scientific new ones?

Ahn?

Cheers.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Voyager series display

Message #1 Posted by [Martin Melhus](#) on 25 Oct 2002, 12:12 a.m.

I have an old HP-11C that took a bad fall (off the top of the car,) and survived except that the LDC display is partially shot. It still kinda displays numbers, but not very legibly. There is a big ugly sort of black bruise across much of the display; the unbruised part is perfectly legible.

Does anyone know of a drop in replacement for the LCD element that would not require cannabilizing an old HP, (or does anyone have a display element that I could buy from them?) Any other solutions for this problem?

Regards, Martin Melhus

Re: Voyager series display - A bit warning

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 25 Oct 2002, 12:41 a.m.,
in response to message #1 by Martin Melhus

Hi;

I also have a broken Voyager's LCD with a black bruise, too. Except for the new Chinese HP12C's (that work with a single 3.3V cell), all others have interchangeable LCD's. If you are lucky enough to find a unoperative, 3 x 1.5V cell Voyager with a good LCD, simply replace yours for its.

I do not know if there is any other equipment that uses the Voyager's LCD.

Hope you have success.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Restoration question

Message #1 Posted by [Don Davis](#) on 24 Oct 2002, 11:50 a.m.

I bought an old HP-25 as-is from a surplus company. Luckily, it operated fine after I rebuilt the battery pack. The display area had some scratches, which I have been able to almost completely polish out using car wax. The plastic part of the case has all lettering intact, but the finish of the plastic is dull as if it were cleaned with an aggressive solvent or something. Has anyone tried anything to restore the look of the plastic? This thing is slowly shaping up into a nice piece, and I'd like to keep going.

Also, the label on the front has a tear. If a reasonable approximation of the original artwork was available, I could get a new one printed at a print shop. Any thoughts?

best regards, Don

Re: Restoration question

Message #2 Posted by [David Ramsey](#) on 24 Oct 2002, 12:04 p.m.,
in response to message #1 by Don Davis

I've found that using a (small!) amount of car interior "enhancers" like Armor All will restore a nice gleam to older plastics.

Re: Restoration question

Message #3 Posted by [Randy Sloyer\(US\)](#) on 24 Oct 2002, 5:50 p.m.,
in response to message #1 by Don Davis

Here is a thread from August about trying to brighten the case on a 97:

<http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/archv008.cgi?read=21087>

I don't know if these would help on the keyboard area, but there were lots of good clean-up tips in it.

As for having a new label printed, I think it would be cost prohibitive. The cost of making a silk screen alone would be in excess of \$100 when you consider the camera work involved. There would be two images involved since the 25 label is 2 colors. You could make one screen with both images, but it would still be a two pass printing process. I would make a screen with one image on the top, the other on the bottom and just flip the screen over in the frame. Unless you have a friend in the business, or you REALLY REALLY wanted to restore the 25, I think the cost would be out of reach. On the positive side, the silver mylar would be no problem to source.

Then again, if you could find a 50 people that wanted a label at \$3-\$4 each, you might be able to do it. But then that would raise the issue of copyright since the Hp logo on the label is certainly a copyrighted image. Don't want to open that can of worms here (again).

Probably a lot easier to buy a dead 25 (read cheap) for the bits. You can always use the extra feet and spare battery for a Woodstock.

Re: Restoration question

Message #4 Posted by [David Smith](#) on 24 Oct 2002, 7:04 p.m.,
in response to message #3 by Randy Sloyer(US)

Unless you get real lucky, even dead HP25's ain't usually cheap... figure 25 bucks. More if it looks nice or even has the battery. Even more for case/charger/manuals.

A whole lot of them have label problems. The ink on the front label is prone to wear/wash off if cleaned with solvents. Also the rear label usually has a scratch across it where somebody pried out a stuck battery pack. It also invariably comes off wrinkled.

I checked my stash of dead Woodstock carcasses and all my front labels have been recycled for these very reasons. The ones that still have rear labels are all scratched, cut etc :(

Re: Restoration question

Message #5 Posted by [Randy Sloyer\(US\)](#) on 24 Oct 2002, 10:41 p.m.,
in response to message #4 by David Smith

Shows you what I know about Woodstocks. Not much. I owned a 25C until I threw it away a few years ago it a fit of rage when it starting returning answers valid to only 1 decimal place. Never knew you could kill the unit with the charger without batteries. I still regret it. :-(

I got to thinking about the labels and it might be difficult to reproduce the look. I don't think they were screen printed. While it would be the easiest way to create one, I think the originals where transfer printed. This is common on thin films. I think the clue is the thickness and the lack of durability of the ink. The ink is very thin with an offset or pad transfer process. A silk screened label would have an almost raised ink area and it would not have the gloss and flatness of the original label. So, I think they traded durability for the glossy look. This also precludes being able to touch them up. Would never have the same finish.

What we need is someone to find a pallet load of NIB 25C or 29C's in a warehouse somewhere...

Re: Restoration question

Message #6 Posted by [Don Davis](#) on 24 Oct 2002, 11:18 p.m.,
in response to message #5 by Randy Sloyer(US)

A pallet-load of NIB 29C's . . . now you've done it. I'll dream about that tonight (sick, I know.) But I'll settle for the one which was taken off my desk years ago. I still keep the serial number, hoping some day it will find its way home to me - like the animals in those "Homeward Bound" movies!

About the labels - The one on the HP-25 in question is pretty glossy. The one on my HP-21 is flat. As you suggest, both are thin and look to be impossible to touch up.

Finally, on the plastic finish - the original is a nice matte finish. Armor-All and things like it give a glossy look. I'd prefer to keep the matte look if possible. Also, I have heard that some of these treatments look good for a short time, but actually contribute to long term damage because they attack the plastic. Any thoughts?

Re: Restoration question

Message #7 Posted by [Renato](#) on 25 Oct 2002, 3:37 p.m.,
in response to message #4 by David Smith

"stash of dead Woodstock carcasses" ? Any chance that I can get some of those ? I am looking for old calcs cases, for a project (developing new guts for old calcs). Keyboards would be nice also.

Re: Restoration question

Message #8 Posted by [David Smith](#) on 25 Oct 2002, 6:14 p.m.,
in response to message #7 by Renato

Unfortunately, I have been shuffling parts up and down the line as I have fixed other machines. What is left is all heavily engraved, cracked, melted, exploded, squashed, stripped, etc cases. All the keyboards I have left are broken, corroded, etc and totally unrepairable (beleive me, I'm not one to let a spec of HP go to waste).

I convert the crud into external battery charger units for 25C and 29C machines as I get them in. If I come across something that looks useable I'll let you know.

Re: Restoration question

Message #9 Posted by [Katie](#) on 24 Oct 2002, 11:50 p.m.,
in response to message #1 by Don Davis

I use the Novus series of plastic scratch removers and polishes. They sell three different grades:

#3 - Heavy Scratch Remover -- It's a seriously abrasive polish that really removes plastic but works great on deeply scratched LED lenses.

#2 - Fine Scratch Remover -- If you're going to get just one of these get this one. It's great for getting out light scratches, cleaning any plastic surface and leaving a nice glossy finish.

#1 - Plastic Clean & Shine -- works well, just make sure that you work it into the surface and remove it completely; otherwise it sort of dulls the finish.

This stuff is pretty cheap if you buy from tanning bed supply houses (I guess that they get a lot of scratches!)

Try this one:

Re: Restoration question

Message #10 Posted by [David Smith](#) on 25 Oct 2002, 6:07 p.m.,
in response to message #9 by Katie

I found a place on Ebay that sells it in the larger bottles. They are a pinball machine supplier. I can't find their URL any more, but I bet they still sell on Ebay. Search for NOVUS. They sell the stuff directly or on EBAY with a reasonable Buy-it-now. I think one of each type in the (8oz?) bottles was \$20 or so.

Re: Plastic polishes

Message #11 Posted by [Randy Sloyer](#) on 25 Oct 2002, 6:32 p.m.,
in response to message #1 by Don Davis

I have never heard of damage being caused by the standard "Armor-All" type products. The reason they don't last is that they are water based. So the water evaporates eventually, and you're left with the dull finish again.

One of my other interests is Soaring. We use a number of different products on the canopies of the sailplanes to polish the Plexiglas to a scratch free finish. Some of these products do have some micro-fine grit to remove scratches and liquid polymers to fill in the scratches. These would probably work well to "spruce" up the cases you mention.

The most common stuff we use that has been around for 20+ years, about \$6/bottle:

M-1708 Mirror Glaze Cleaner

M-1008 Mirror Glaze Polish

Available here:

http://www.meguiars.com/product_showroom/showroom_search.cfm

And a newer product that is even better, but more \$\$:

LP Acrylic Polish and Sealant

Available here:

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP12C

Message #1 Posted by [Vicki](#) on 24 Oct 2002, 8:39 a.m.

I'm an idiot....how do I get my HP12-C to two decimal places? Somehow I managed to make it round. Please Help!

Re: HP12C

Message #2 Posted by [Ex-PPC member](#) on 24 Oct 2002, 9:26 a.m.,
in response to message #1 by Vicki

Simply press [f] [2], where [f] is the yellow prefix key.

Same trick works for any number of decimal places from 0 to 9.

Regards.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Handbook for HP 49G

Message #1 Posted by [Marcus](#) on 24 Oct 2002, 7:07 a.m.

Hi all I want to buy a HP 49G for a friend in Venezuela. (I live in germany). Are there any differences in the american calculator, spanish calculator or german version? Or is there only a difference in the handbooks??

If only in the handbooks... where can I get these in spanish? (f.e. as a PDF File)

Where can I buy really cheap a HP 49 G?

If anybody has an idea! Please help...

Thanks a lot!!

Re: Handbook for HP 49G

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 25 Oct 2002, 1:06 a.m.,
in response to message #1 by Marcus

Hi;

just about the handbooks (User's Guide). There are two specific guides that come with the HP49G: the basic User's Guide that comes with the calculator and the Reference Guide that can be downloaded.

You can download the User's Guide from [this link](#). You can chose the language (English, Spanish or Portuguese), but it seems that only the User's Guide is available. I think that there are other sources, like www.hpcalc.org, that you can search for them.

If you do not find, e-mail me. I have downloaded some HP49G's docs when they were available, and I can e-mail them for you.

Best regards.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 28S Keyboard incident

Message #1 Posted by [Hedinsson E.](#) on 23 Oct 2002, 7:56 p.m.

My faithful 1986 HP28S just had a 'hard landing' on the floor. No external disorders but one keyboard row 'dead' i.e.;left [Y:(] and right [EVAL : -].

Everything else OK.

Any advice for appropriate measures?

BRGDS Hedinsson

Re: HP 28S Keyboard incident

Message #2 Posted by [R. A. Lim](#) on 23 Oct 2002, 9:43 p.m.,
in response to message #1 by Hedinsson E.

Not sure how to fix your calculator, but I have a HP-28S that I do not use anymore. It has passed the system test and keyboard test. The only problem with it is that the battery cover has been damaged and is loose.

I had bought a HP 48G to replace this calculator. I could not find a battery cover replacement. If your battery cover is still in good shape, then this maybe the replacement for you. I also have the owner's manual in fair/good condition.

If you are interested, pls let me know. Will need you to fund the shipping/insurance costs from Florida to your location.

Gus

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-41 Printer

Message #1 Posted by [Luis](#) on 23 Oct 2002, 6:19 a.m.

Hello All,

Could someone explain me the differences between the 82143A and 82162A printers?

Thanks!

Luis

Re: HP-41 Printer

Message #2 Posted by [Chris Catotti \(Florida\)](#) on 23 Oct 2002, 6:37 a.m.,
in response to message #1 by Luis

I believe mechanically they are the same. The 82143A plugs directly into one of the HP-41 four module ports, and has the printer ROM built in. The 82162A connect to an HP-IL cable. Therefore the HP-41 IL module has the printer ROM built into it, with a switch on the HP-IL module case to turn off (disable) the printer ROM.

Re: HP-41 Printer

Message #3 Posted by [Chan Tran](#) on 23 Oct 2002, 12:26 p.m.,
in response to message #2 by Chris Catotti (Florida)

Also the 82162A can print bar code and the 82143A can not

Re: HP-41 Printer

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 23 Oct 2002, 3:46 p.m.,
in response to message #2 by Chris Catotti (Florida)

Hi;

this printer ROM enable/disable switch in the HPIL allows you to use the HP82143A if you have an HPIL connected to the HP41. Both HPIL printer functions and HP82143A built in functions share the same XROM numbers (at least the ones with the same name). This way, you may CONNECT both HP82143A and HP82162A in the same HP41, but you will use ONLY the HP82143A; the HP82143A connector IS the interface itself, and it becomes active in the moment you plug it in the HP41. It means that it cannot be disabled as one can do with the HPIL printer functions.

My US\$0,05.

Re: HP-41 Printer

Message #5 Posted by [Christoph Klug](#) on 24 Oct 2002, 5:55 a.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)

If you work with the DEVELOPMENT module for monitoring the HP-IL Interface Loop commands, it is possible to print them with the HP82143 (not with the HP82162 because last device would generate additional print-data transfer to the loop).

Best Wishes - Christoph Klug

Re: HP-41 Printer

Message #6 Posted by [Vassilis Prevelakis](#) on 24 Oct 2002, 11:16 a.m.,
in response to message #5 by Christoph Klug

Christoph Klug wrote:

> If you work with the DEVELOPMENT module for monitoring the HP-IL Interface
> Loop commands, it is possible to print them with the HP82143

You can also do the same thing with the HP-41 IR module and 82240 printer

**vp

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-42S display versions

Message #1 Posted by [Don Davis](#) on 22 Oct 2002, 11:13 p.m.

I have 2 HP-42S calculators with different displays. The older one (by serial number) has a display bezel which is nearly flush with the glass. The newer unit has a bezel which meets the glass at about a 60 degree angle. The newer display seems more readable to me. Both were manufactured in Singapore.

Does anyone know the serial number where the newer displays began? This would be helpful to me as I am considering purchase of an additional unit.

best regards, Don

Re: HP-42S display versions

Message #2 Posted by [Karl Schneider](#) on 23 Oct 2002, 2:03 a.m.,
in response to message #1 by Don Davis

Don --

I can narrow it down for you a little. My eBay-purchased 42S is a "flat bezel" with serial #2939S33496 (late 1989).

Several of my co-workers have employer-provided "curved bezel" units with serial #'s from late 1990.

Those units exhibit the minor permutation/combination bug mentioned in MoHPC. My older unit does not. I believe that the ROM revision coincided with the changes to the face.

Re: HP-42S display versions

*Message #3 Posted by [Erik Ehrling \(Sweden\)](#) on 23 Oct 2002, 3:09 p.m.,
in response to message #2 by Karl Schneider*

The new version started somewhere at the end of 30xxxx or at the beginning of the 31xxxx.... (have seen both variants with serials starting with 30, have never seen one with the old with a serial of 31 or above)

Best regards, Erik Ehrling

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP41CX, ext mem prob...

Message #1 Posted by [JasonG](#) on 22 Oct 2002, 10:36 a.m.

Hi there.

I have managed to save a program to extended memory with a non-printing character at the end of the name. Don't ask me how I managed it, I have _no_ idea. Well, the problem is that I cannot now purge the offending file, I just get 'FL NOT FOUND' each time, even though I use <backspace> in Cat4 to put the name directly in the alpha register.

Does anyone have any suggestions as to how I can remove this file without fritzing the whole of memory?

Many thanks in advance.

JasonG

Re: HP41CX, ext mem prob...

Message #2 Posted by [Christoph Klug](#) on 23 Oct 2002, 6:01 a.m.,
in response to message #1 by JasonG

Dear JasonG

for deleting the program-file find out the file position number in X-Memory. Enter this number to X-Register. Now execute EMDIRX which places the file name in ALPHA-Register. Last execute PURFL for deleting the program file from X-Memory....

Best wishes from Germany - Christoph Klug

Re: HP41CX, ext mem prob...

*Message #3 Posted by [Raymond Hellstern](#) on 23 Oct 2002, 8:08 a.m.,
in response to message #2 by Christoph Klug*

Hi Christoph,

EMDIRX does not exist in the standard X-Functions module. I suspect it to be in either the X-I/O or the X-IL module.

Regards,

Raymond

Re: HP41CX, ext mem prob...

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 23 Oct 2002, 3:38 p.m.,
in response to message #3 by Raymond Hellstern*

Hi;

EMDIRX is exclusively available in the HP41CX; maybe you'll find other equivalent in a non-standard HP41 module (e.g. HEPAX). X-IO does not have any, and... X-IL? I only know X-IO for the HPIL; is there any other? I'm curious.

Re: HP41CX, ext mem prob...

*Message #5 Posted by [JasonG](#) on 24 Oct 2002, 6:31 a.m.,
in response to message #2 by Christoph Klug*

Many thanks...this worked. :-)

Incidentally, I don't understand why the Cat 4 & backspace method to get the file name into the alpha register didn't work properly (no odd character at the end of the filename) but the EMDIRX method did...any ideas?

Regards

JasonG

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: CAS-Enabling Aplet for the HP39G

Message #1 Posted by [mapet](#) on 22 Oct 2002, 4:24 a.m.

Maybe you have also written IR enabler for HP 40G? It could be very useful for me...:-)

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP32s Are Sold!

Message #1 Posted by [J.C. Randerson](#) on 21 Oct 2002, 8:45 p.m.

I have been absolutely swamped with email asking to buy the HP32s that I offered in the classified ads. At first I tried to respond to each, but after 40 it was hopeless to keep track. I realized I had to sell to the first in time offer to buy all 3, which I have done.

I apologize to any of you who may feel you were left hanging, but I've never dealt with anything quite like this before. I was taken completely by surprise, indeed, I wondered if anyone would even want the HP32s at all.

If the general demand for HP scientific calculators matches that with the mail I got, HP screwed up horribly by cancelling HP32 production.

Re: HP32s Are Sold!

Message #2 Posted by [Glen Kilpatrick](#) on 22 Oct 2002, 12:04 p.m.,
in response to message #1 by J.C. Randerson

Thank you for the update, J.C. I was one of those, lost in the crowds, lucky I wasn't trampled in the stampede!

gk :)

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP marketing item

Message #1 Posted by [John Smith](#) on 21 Oct 2002, 9:32 a.m.

Hi, I've been collecting HP calcs for the last 20 years, and besides the calcs themselves, I always sought for, and obtained, marketing items for them, such as brochures, leaflets, catalogs, adds, anything.

Some of them were quite elaborate in those past, golden days, such as some wonderfully detailed, many-pages HP-65 brochures, and also those for financial models such as the HP-92, which were full of very good examples, and very good advice on the important features, etc. Some were even educational, as the one titled "ENTER versus =", which, by the way, was the very first HP marketing device I was exposed to, and after reading it carefully and trying (by hand) the examples, it actually sold me the concept for life.

The question is, I think that not only HP classical calculators were extremely high quality devices, but their marketing brochures, leaflets, etc, were also of the highest caliber and highly convincing for any technical user (engineer, chemist, etc) who got to read them.

However, though there seems to be a sizable number of HP collectors, and you can see lots of adds asking for and offering HP items (say, in eBay, in MoHP, etc.), I don't recall ever seeing people asking for a particular brochure, or selling one, or mentioning the fact that they do collect them. I don't recall either ever seeing a Web site or page with pics of those brochures, save a few here (MoHP), or their contents scanned.

Why is this ? Am I the only one who has a respectable collection of such brochures ? Aren't they rare, and sought for ? It amazes me that no one seems to collect these wonderful pieces of the best marketing there was. They are amazing to see and amazing to read, and after reading one of them you're really itching to get the feature machine in your hands, try for yourself the neat examples, and experience the quality the brochure has so convincingly sold to you.

If any of you knows about some web site where such items are discussed, catalogued, and/or pictured, please post the URLs. Also, though I don't intend to offer for sale any of them, I wonder if such items do have prices as well, or they're not marketed at all, not even among collectors.

Re: HP marketing item

Message #2 Posted by [Bill Hemphill](#) on 21 Oct 2002, 9:53 a.m.,
in response to message #1 by John Smith

I agree 500%!! When I first got into HP calculators, I remember looking forward to receiving the HP brochures. I would read them front to back, over & over again. Of course, mainly I was dreaming of when I could (if ever) afford to purchase some of these amazing calculators.

They had a lot of very useful information in them. They were obviously written by professionals for professionals.

I only wish I had kept them.

Re: HP marketing item

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 21 Oct 2002, 10:28 a.m.,
in response to message #1 by John Smith

Hi;

I have a few (just a few) brochures my own, some in Portuguese, others in English. In fact, most of them are folders. I also have some of those brief catalogs that came with the calculators. All material I could save since the 80's is still with me.

I scanned some of them (the ones I believe were created in Brazil) and sent to Dave; I know they will be listed in the 7th. MoHP CD (or in its first DVD-ROM). I also have a couple of magazines announcing the HP41C/CV and their peripherals.

The saddest experience I have is related to 1987/88, when I asked for information about the HP16C from USA HP. The answer was a brief letter (I don't remember who wrote it) where the writer mentioned: "I include a brochure about the HP16C so you can get acquainted to its features."

There was no brochure included in that letter.

If guys people in here are interested on this subject, I can scan whatever I have and send to a data bank to store these images, so anyone can get access to them. I would love having the originals, but being able to read them is also a treasure.

Best regards.

Re: HP marketing item

Message #4 Posted by [David Smith](#) on 21 Oct 2002, 11:34 a.m.,
in response to message #1 by John Smith

The marketing and advertising brochures seem to be widely collected. When they show up on Ebay, they always have lots of strong bids.

Re: HP marketing item

Message #5 Posted by [Larry Corrado](#) on 21 Oct 2002, 12:36 p.m.,
in response to message #1 by John Smith

Funny you should bring this up today. At breakfast this morning, I looked over three HP Personnal Computer Digests from 1977,78, and 81 (being very careful not to get my greasy fingerprints on them.) I found these in a an old file I started back in about '76 when I was thinking of buying calculators for work. The file is about an inch thick, and contains HP, TI, Sharp, and Rockwell brochures, and an old Elek-Tek (Chicago) catalog. I have no plans to sell them at present, but would be happy to scan specific pieces for use by the Museum. I could also look up info people might be after.

Yes, the brochures were first class, very complete, with beautiful pictures and descriptions.

Ciao.

Re: HP marketing item

Message #6 Posted by [Chris Catotti \(Florida\)](#) on 21 Oct 2002, 1:33 p.m.,
in response to message #5 by Larry Corrado

I have a small collection and file any one I get by the HP Part Number, such as:

STATUS: FILED

PART NUMBER TYPE: HP

PART NUMBERR: 5952-6077D

DOCUMENT TITLE: THE NEW HP-97 FULLY-PROGRAMMABLE PRINTING
CALCULATOR FROM HEWLETT-PACKARD.

LANGUAGE: ENGLISH

REWVISION: USA 9/76

FORMAT: STAPLED

I have all these listed in an Excel file that I populate with data as time permits. I will put the file up on the web if anyone wants me to.

Brochure sob story

*Message #7 Posted by [Woody](#) on 21 Oct 2002, 1:35 p.m.,
in response to message #1 by John Smith*

Although I have always been a big fan of HP calcs, I did not know that the brochures were of interest. I just found this site a couple of months ago.

4 months ago, my wife and I cleaned out our files, some dating back 30 years. I threw out all of those old HP brochures, ads, and catalogs from my college days when I salivated over all things HP. I even had my HP boxes, some folded flat, as well. My wife always laughed at my wrapping all of them in plastic bags and hiding them in the basement/closet/cabinet. Although they were interesting to look at, I was in a clean-out mood, so they went.

...I wonder what landfill they went to anyway ?

ARRRRRRRRRRGGGGGGGGGGGGGGHHHHHHHHHHHHH!!!!!!!!!!

*Message #8 Posted by [badboy!](#) on 23 Oct 2002, 1:49 a.m.,
in response to message #7 by Woody*

say it ain't so!

Why did you mention this...

*Message #9 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 23 Oct 2002, 9:07 a.m.,
in response to message #7 by Woody*

... right here? (sob!)

Group Therapy

*Message #10 Posted by [Woody](#) on 23 Oct 2002, 11:38 a.m.,
in response to message #9 by Vieira, Luiz C. (Brazil)*

My therapist says that you have to share your story something like 10 times to cleanse your psyche. So, I'm off on my journey.

I realize it is painful, but I hope to grow through this experience. "I'll never throw anything out again!", I declared. (...Stoney stare from my wife at this point.)

I did find my HP42S manuals safe and sound, still shrinkwrapped, though, and that made me feel a little better. It just goes to show that one man's trash is another man's treasure.

Re: Group Therapy

*Message #11 Posted by [Don Davis](#) on 23 Oct 2002, 12:50 p.m.,
in response to message #10 by Woody*

Maybe telling my story will help me then. About 3 years ago I was looking for a 29C to replace mine (stolen), and a guy offered me a 19C. I bought it for \$100, like new in the box with the manuals and everything. Even the battery was good. But, I was still focused on the 29C and another person found out I had the 19C. He kept emailing me about it until I agreed to sell it for the same \$100 I had just paid. I immediately regretted it!

There - now maybe the nightmares will stop. Maybe.

Re: Group Therapy / Dr. Mikey

*Message #12 Posted by [David Smith](#) on 24 Oct 2002, 7:08 p.m.,
in response to message #11 by Don Davis*

Dr. Mikey,

Where are you? Oh, the humanity! The pain, the pain! Well, pass me a beer at least. Better make it two.

ok, time for group hug!

*Message #13 Posted by [me](#) on 24 Oct 2002, 10:31 p.m.,
in response to message #12 by David Smith*

begone painful memories, begone!

Re: HP marketing item

*Message #14 Posted by [Gianmaria \(Italy\)](#) on 21 Oct 2002, 3:31 p.m.,
in response to message #1 by John Smith*

You may take a look here: [url:<http://www.rgmconsultants.it/tix/ad/bro/brochures.asp>] it's an italian website with a lot of scannerized brochures, and here there is also a rare HP-9100A brochure: <http://www.rgmconsultants.it/tix/ad/bro/hp/9100/9100.htm>. I have to thanks Mr. Giorgio Morocutti that gave me this brochure in swap with an Apple II series (he is an Apple fans :-)

Re: HP marketing item

*Message #15 Posted by [tomdrewski](#) on 21 Oct 2002, 6:28 p.m.,
in response to message #1 by John Smith*

I, also, have been actively collecting the older HP calc brochures, maybe even more so than the machines themselves. A few were found on Ebay, but most were not. They are not all that easy to find, as you know. But luckily, I have at least one of every model's brochure including the red dot. The brochures were indeed fascinating, and befitting the machines they represented. happy hunting

Re: HP marketing item

*Message #16 Posted by [John Smith](#) on 22 Oct 2002, 9:18 p.m.,
in response to message #15 by tomdrewski*

Tom wrote:

"A few were found on Ebay, but most were not. They are not all that easy to find, as you know."

No they aren't. Matter of fact, I've never, ever seen one in eBay.

"The brochures were indeed fascinating, and befitting the machines they represented"

Certainly. What upsets me most is, while there are many sites on the web where you can

find details, pictures, prizes, catalogs of HP calcs, there's no place I know of which does the same with those amazing brochures, so there's no way to simply look at them, know how many different ones there are, know how much they're worth if at all, or even trade your spares or duplicates with other people !

I've got a good collection of them, including some that seem to me specially rare or worthwhile (but no way to know !), such as these:

"The student's Choice ... The Professionals' Choice ... The Logical Choice." (5953-1916, USA, 6/78)

"Finding your way through the advanced personal calculator maze" (5952-6096F) [does indeed feature a maze, which you must solve !]

"Hewlett-Packard - The first family of calculators"

"A guide to profitable decision making" (5952-6069)

[this one is a wonderful selection of real-life financial problems and decisions, tale-like, centered around a fictitious character, Mr. Robert Cooper ! HP had wonderful examples those days, and a lot of imagination]

"This man is using the smallest computer ever made ... "

[this is a really wonderful, large, many-page brochure on the HP-65, a marvel of smart design (the brochure) and clever marketing ideas. No "student attractors" here, only first-line professionals were the target.

By the way, though HP's brochures, leaflets and adds were first rate, they were not alone. I also own a small collection of Texas Instruments brochures, and some of them are pretty amazing, too, by their sheer quality, size, details, and eye appeal. The ones dedicated to the SR-58 and SR-59 are a marvel, and the extremely rare one which features the incredible SR-60 desktop calculator (alphanumeric ! magnetic cards ! 1920 memory steps ! 100 memories !) has to be seen to be believed.

Re: HP marketing item

Message #17 Posted by [Raymond Hellstern](#) on 23 Oct 2002, 8:28 a.m.,
in response to message #16 by John Smith

Hi,

>>Tom wrote: >> >>"A few were found on Ebay, but most were not. >>They are not all that easy to find, as you know." > >No they aren't. Matter of fact, >I've never, ever seen one in eBay. >

it seems you simply missed them;-)

I saw many HP brochures and flyers on eBay during this year. Some went for astonishing high prices, others for nearly the minimum price.

I just got hold of some full-colored HP-related brochures called 'Cursor' (the W&W house magazine), which weren't made by/for HP directly, but show and explain the advanced W&W products for HP calculators, like the famous 41CY and RAMBox.

Maybe they'll show up on eBay in the near future...

Regards,

Raymond

HP41CY? (was HP marketing item)

Message #18 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 23 Oct 2002, 9:19 a.m.,
in response to message #17 by Raymond Hellstern

Hi;

I sometimes find myself a bit lost about news and existing stuff. Raymond wrote:

>>... like the famous 41CY and RAMBox...>>

What is the HP41CY?

Thanks.

Re: HP41CY? (was HP marketing item)

Message #19 Posted by [John Smith](#) on 23 Oct 2002, 10:40 a.m.,
in response to message #18 by Vieira, Luiz C. (Brazil)

German firm W&W did manufacture a number of those so-called HP-41CY, which is just a 41CX modified to speed it up, plus extra modules pre-installed inside, like an internal RAM-BOX, for example. That made it the most powerful 41 model available, by far.

Re: HP41CY? (was HP marketing item)

Message #20 Posted by [Raymond Hellstern \(Germany\)](#) on 23 Oct 2002, 5:11 p.m.,
in response to message #19 by John Smith

Yes, the CY is based on a CX, with *64K* RAM Box inside, and a speed up switch. Some models have the X-Memory modules built-in, too.

You can programmatically switch between the two 32K 'banks', no need to pull a switch. This way you can write really BIG programs;-)

You can even replace the CY's internal RAM Box OS by the MBK ProfiSetII Operating System, which is ways more user friendly (IMHO).

Raymond

Re: HP41CY? (was HP marketing item)

Message #21 Posted by [Steve Borowsky](#) on 23 Oct 2002, 9:23 p.m.,
in response to message #20 by Raymond Hellstern (Germany)

Raymond wrote:

<<Yes, the CY is based on a CX, with *64K* RAM Box inside, and a speed up switch. Some models have the X-Memory modules built-in, too.

You can programmatically switch between the two 32K 'banks', no need to pull a switch. This way you can write really BIG programs;-)

You can even replace the CY's internal RAM Box OS by the MBK ProfiSetII Operating System, which is ways more user friendly (IMHO).
>>

Hmmm...I might have a few of these, though I didn't know it. Several years ago I bought a bunch of what I thought were CX's, but I later found they were speeded up via a small pushbutton in the ac adapter port. Now i'm thinking they may be CY's. How would I access the extra features if they are?

Steve

Re: HP41CY? (was HP marketing item)

*Message #22 Posted by [Raymond Hellstern](#) on 24 Oct 2002, 8:08 a.m.,
in response to message #21 by Steve Borowsky*

Hi,

if they have the extra RAM boxes installed they're CY Turbo's, else they're 'just' Turbos. For bank switching there are commandos like PG01 and PG10, at least if the RAM Box OS is installed;-)

Regards,

Raymond

BTW: If you happen to have a CY for spare, would you sell one of these to me?

Re: HP41CY? (was HP marketing item)

*Message #23 Posted by [Meindert Kuipers](#) on 24 Oct 2002, 10:19 a.m.,
in response to message #22 by Raymond Hellstern*

See the thread: HP41 (flash) ROM/RAM/MLDL box survey. I am designing this and would be very much like the HP41CY.

Meindert

Re: HP41CY? (was HP marketing item)

*Message #24 Posted by [Raymond Hellstern \(Germany\)](#) on 24 Oct 2002, 5:35 p.m.,
in response to message #23 by Meindert Kuipers*

Hello Meindert,

yes I know, and I'm really interested in buying at least one (or as many as I can afford;-) of your phantastic boxes, preferably in a module housing.

Regards,

Raymond

Re: HP marketing item

*Message #25 Posted by [gifron](#) on 25 Oct 2002, 9:54 a.m.,
in response to message #16 by John Smith*

Interesting. I've not thought of collecting the brochures, and don't know that I've ever seen very many. Thanks for starting this discussion. I guess now I'll have to start collecting something else:-O

I did notice that The Bull Cabinet (<http://members.aol.com/tbcab/private/hewlettpackard.htm>) has one for the 45, and I saw a couple in with calcs on eBay, so I guess they are available if you look hard enough.

I wouldn't mind seeing some scans - I tried the site mentioned by Gianmaria above, and got to the direct link, but couldn't find any other brochures on the site - Didn't try too hard though, outta time, gotta collect.

Re: HP marketing item

*Message #26 Posted by [Pocketcom Mania](#) on 25 Oct 2002, 12:12 a.m.,
in response to message #1 by John Smith*

I have an HP brochure for HP-41CV/CX and HP-71B. It simply tells you how you can reap the full potential of these machines. I like the command lists very much. The HP staff not only gave me the brochure but also explained their functionalities in detail. After she told me their prices, I couldn't do anything but said thank you very much to her! :P

Group Hugs and Therapy Away for now??? Back to the brochures...

Message #27 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 25 Oct 2002, 1:37 a.m.,
in response to message #1 by John Smith

Hi, Guys;

being the painfull and bad memories gone away, is there a chance that the existing brochures are scanned and sent to someones' data bank, so we can download them?

I believe Dave's e-room is already filled with a lot of existing valuable stuff, and (maybe not) the DVD-ROM will have enough space for them, but I would like to know if anyone that is regularly visiting the Museum would accept the "job": storing scanned brochures to be downloaded.

I'm still trying to find an e-place for my home page, and if it is wide enough, I'm offering for storing the scanned data. All I want to know is if the guys that already/still have the brochres will scan and disclose them for downloading.

Any comments? Suggestions? Flames and Blames?

Best regards.

Re: Group Hugs and Therapy Away for now??? Back to the brochures...

Message #28 Posted by [Pocketcom Mania](#) on 26 Oct 2002, 9:48 a.m.,
in response to message #27 by Vieira, Luiz C. (Brazil)

If nobody has this brochure, I'll scan it and send it to Dave via email. I don't want to duplicate the effort. However, you guys have to wait for some time!

It's an awesome brochure. The coolest thing is that it brought the world's best calculator and the world's best handheld computer together. When I read this brochure, I just imagined that I had all the stuff in hand. :P

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Self Test on 28S

Message #1 Posted by [Scuba Diver](#) on 19 Oct 2002, 9:30 p.m.

Hi there!

Over the past few months I've had the opportunity to run the self-test on three different HP 28Ss.

Prior to displaying the "OK-28S" message, the units appear to run some sort of "screen test" (I'm probably not describing it properly, but hopefully you know what I mean).

The interesting thing is; each unit's screen test was different!! No two units showed the same designs during this test.

I would have expected that the self-test would run in exactly the same way on all 28Ss; can anyone explain the differences?

At first I thought that maybe this was an indication of different ROM versions; but two of the units were manufactured within weeks of one another!

Any insight would be greatly appreciated! Thanks! B.

Re: Self Test on 28S

Message #2 Posted by [Raymond Hellstern \(Germany\)](#) on 20 Oct 2002, 11:38 a.m.,
in response to message #1 by Scuba Diver

Unlike the 42S, which has some built-in constants for this purpose, it seems that the 28S uses random patterns for the display tests.

Raymond

Re: Self Test on 28S

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 20 Oct 2002, 2:33 p.m.,
in response to message #1 by Scuba Diver

Hi;

this is just a guess: as you are running RAM tests, have you cleared RAM contents prior to run them? (e.g. Memory Clear procedure) Maybe, just maybe, RAM contents are used to generate the display patterns (I had one HP28S, Brazilian made, recently stolen, and I bought an used, USA-made; did not have the chance to compare these patterns).

Cheers.

Re: Self Test on 28S

Message #4 Posted by [Scuba Diver](#) on 21 Oct 2002, 12:09 a.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)

Actually, I have cleared the memory in all 3 units, and each unit's test is identical.

Although the test results vary from unit to unit, the test result on each unit is always the same, regardless of how many times I run it...I've tested it at different times of the day, just in case the clock had something to do with it. I've also removed the batteries and reinstalled them, and once again, they are still the same.

Although I'm not much of a computer expert, logic tells me that either (a)the ROMs are different or (b)there is some piece of data that the unit uses to randomize the test. Based upon my test results, I can only assume that (a) is correct.

Does anyone else have any other ideas? B.

Re: Self Test on 28S

Message #5 Posted by [J-F Garnier \(France\)](#) on 21 Oct 2002, 6:40 a.m.,
in response to message #4 by Scuba Diver

There is only one HP-28S ROM version: 2BB.

You can check it by keying: #10d SYSEVAL.

Regards.

J-F

Re: Self Test on 28S

Message #6 Posted by [Christoph Giesselink](#) on 21 Oct 2002, 3:06 p.m.,
in response to message #4 by Scuba Diver

If you think there are different versions of the 2BB ROM, check the CRC correction words of the two 64KB pages of the ROM. You can find the two CRC words (two CRC's per 64KB page) at #1FFF8-1FFFF and #3FFF8-#3FFFF. To read them you need a PEEK program.

But that isn't necessary, the garbage you see in display during the self test on the HP28S is a remainder of 32KB user RAM test. The used RAM test destroys the RAM content, so the old content must be saved first. The display RAM is a good place for this. The different display output during the self test is a function of the different content of the user RAM at testing time.

If you don't believe this, check the following code.

Regards,

Christoph

Disassembled HP28S RAM test code:

```
* RAM test
018DF  P=      0
018E1  LC(5)   #C0000          start of user RAM
018E8  D=C      A
018EA  GOSUB   [01941]        save #400 nibs of RAM into disp area
018EE  LC(5)   #00043
018F5  P=      4
018F7  GOSUB   [015D0]        user RAM test of area with pattern (destroys
content)
```



```

018FB  GONC      [0191A]          Ram OK -> NC -> jump
* error condition
018FE  CD0EX
01901  B=C       A
01903  GOSUB    [01972]          restore #400 nibs of RAM
01907  C=B       A
01909  D0=C
0190C  LC(1)    4
0190F  ST=1     9
01912  GOSUB    +0008A          # Address: 0199C
01916  GOTO     +00008          # Address: 0191E
0191A  GOSUB    [01972]          restore #400 nibs of RAM
0191E  P=       0
01920  LC(5)    #00400          next page of RAM
01927  D=D+C    A
01929  LC(5)    #D0000          reached last address?
01930  ?D#C     A, GOYES [018EA]
01935  ?ST=1    9, RTNYES       return on error
0193A  LC(1)    4
...

* save #400 nibbles of RAM at D[A] to display
01941  C=D       A              D[A] addr. of RAM page
01943  D0=C
01946  D1=(5)    #FF840          start of display (slave)
0194D  LC(5)    #00220          no. of nibs to copy
01954  GOSBVL    04FF2          copy!
0195B  D1=(5)    #FFC00          start of display (master)
01962  LC(5)    #001E0          no. of nibs to copy (#220+#1E0=#400)
01969  GOSBVL    04FF2          copy!
01970  RTNCC

* restore #400 nibbles of RAM at C[A] from display
01974  D1=C
01977  D0=(5)    #FF840
0197E  LC(5)    #00220
01985  GOSBVL    04FF2
0198C  D0=(5)    #FFC00
01993  GOTO     -00031          # Address: 01962
01962  LC(5)    #001E0
01969  GOSBVL    04FF2
01970  RTNCC

* copy routine
04FF2  C=C-1     A
04FF4  GOC       +0004A          # Address: 0503E
04FF7  P=C       0
04FFB  CSR       A
04FFD  C=C-1     A
04FFF  GOC       +00025          # Address: 05024
05002  A=DAT0    W
05006  DAT1=A    W
0500A  D0=D0+    16
0500D  D1=D1+    16
05010  C=C-1     B

```

05013	GONC	-00011	# Address: 05002
05016	C=C-1	XS	
05019	GONC	-00017	# Address: 05002
0501C	C=C+1	X	
0501F	C=C-1	A	
05021	GONC	-0001F	# Address: 05002
05024	A=DAT0	WP	
05028	DAT1=A	WP	
0502C	CD0EX		
0502F	C+P+1		
05032	D0=C		
05035	CD1EX		
05038	C+P+1		
0503B	D1=C		
0503E	P=	0	
05040	RTNCC		

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Statistics programs for 15C

Message #1 Posted by [R Lion](#) on 19 Oct 2002, 12:02 p.m.

Perhaps someone could be interested... I've written some programs for statistics for the 15C:

Entering Data with frequencies (one or two variables)- Confidence interval for mean and sample size
 - Confidence interval for proportion and sample size - Binomial distribution $B(n,p)$ - Normal standard distribution and inverse Normal s. distr.

If you want, feel free for mailing me

Raul

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Where can I find HP-IL Cables

Message #1 Posted by [Alain](#) on 18 Oct 2002, 5:20 p.m.

Hello all,

are there any alternative sources to eBay of HP-IL cables. Any known cable company that still provide them ? Should I consider making my own ? If so, does it exist a documentation to explain it ?

Thanks !

Alain

Re: Where can I find HP-IL Cables

Message #2 Posted by [Raymond Hellstern \(Germany\)](#) on 18 Oct 2002, 5:58 p.m.,
in response to message #1 by Alain

Hi,

I think the cables are not the big problem. But you really won't get the connectors/plugs from other sources than from...HP-IL cables;-)

So, maybe someone here has an open ear for your wish, and offers you some IL cables.

Regards,

Raymond

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Manual For HP 32SII

Message #1 Posted by [Eric](#) on 18 Oct 2002, 4:29 p.m.

I lost my manual for the HP 32S II Caculator and I'd information where I can buy another copy. Please email me at gent88@aol.com. Many thanks.

Eric

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Showed an HP 67 to a kid today

Message #1 Posted by [Kenneth Gargas](#) on 18 Oct 2002, 4:04 p.m.

I use the term "Kid" in a complimentary way. He's a senior in college, computer science major, a really bright guy. He's the kind that rewrites FreeBSD kernels on weekends for fun. Give him a challenge, a supply of caffeine, and he'll program a few thousand lines of code by next morning.

Anyway he saw my HP67 in my office and was intrigued. This machine is older than he is, so I demonstrated. His first reaction was wow, how good the LED display is. The dialog went something like this:

"Yeah I remember reading about these, reverse something?" "Reverse postfix notation. 2 ENTER 3 PLUS. Fewer keystrokes and you can see all the intermediate results" He understood immediately. "How deep is the stack?" "4 levels" "ONLY 4?! Ha ha" "Well memory was expensive back then." "When was this made?" "1978" (He was born in 1982.) His eyes lit up. He played with it for a while and I think figured out most everything on it.

But he didn't notice the slot for the card reader. So I ran a card through it for him. "WOW that's really cool! How much can you store on a card?" "I'm not exactly sure, I think it's about 256" "256 k?" "No 256 bytes" Then I showed him my collection of program cards, Mathpak, Statpak, and a few others.

"That's amazing! I'd have no idea how to program that in 256 bytes."

Even old HP technology never fails to impress. I'm going to bring in my HP41CX with wand, printer, and card reader to show him.

Re: Showed an HP 67 to a kid today

Message #2 Posted by [Ion Abraham \(New Mexico, USA\)](#) on 18 Oct 2002, 6:59 p.m.,
in response to message #1 by Kenneth Gargas

Three cheers to you, Kenneth! Who knows, your friend might gain something from perusing the old solution books.

Best regards,

Ion Abraham Albuquerque, New Mexico

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 42-S Screen repair?

Message #1 Posted by [John](#) on 18 Oct 2002, 2:34 p.m.

I have an HP 42-S that got dropped, and the screen cracked and no longer displays. Does anyone know how to repair/replace such a thing? It's a great calculator, shame to lose it!

Thanks, -John

Re: HP 42-S Screen repair?

Message #2 Posted by [Tony](#) on 18 Oct 2002, 3:39 p.m.,
in response to message #1 by John

Does HP still have service replacement on the 42S?

If they do, it may cost you.

Re: HP 42-S Screen repair?

Message #3 Posted by [John](#) on 18 Oct 2002, 3:44 p.m.,
in response to message #2 by Tony

I called them, and they said they stopped servicing the 42s in 2000. (It was discontinued mid 90s).

They said there's no replacements, and no trade-ins at this time... :(

Is there any market in broken hp calculators (for parts?) I also have both full manuals, which may be worth something...

-John

Re: HP 42-S Screen repair?

Message #4 Posted by [Dave Shaffer](#) on 18 Oct 2002, 4:26 p.m.,
in response to message #3 by John

All the HP service repair units were sold a while ago (that made for quite a story here for a while).

I got one of them - but the came minus the manual, so at least I would be interested in your manuals!

Re: HP 42-S Screen repair?

Message #5 Posted by [Randy Sloyer\(US\)](#) on 18 Oct 2002, 6:25 p.m.,
in response to message #1 by John

I have replacement LCD's.

Send me an email to the link in my name above with "42S LCD" in the subject field.

Re: HP 42-S Screen repair?

Message #6 Posted by [Paul Brogger](#) on 18 Oct 2002, 6:50 p.m.,
in response to message #1 by John

I've fixed 42s displays using 17BII displays as replacements. Now that *that* model is no longer generally available, that might be a bit harder.

But I wrote up complete (I think) directions, and they're available elsewhere under "Repairs" (or some such) on this MoHPC web site.

Good luck, and feel free to contact me if you've any questions.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP48sx data transfer via serial port

Message #1 Posted by [Stephen](#) on 18 Oct 2002, 11:41 a.m.

I am attempting to transfer data to/from my HP48sx calculator via kermit running under either Windows/DOS or Linux. It does not work.

On a different computer running the same software (in a DOS prompt), the transfer works fine, so I am certain that the HP48 and the cable are not damaged. Instead, it is a problem with my serial port setup on the computer.

On the other computer (the one that works fine), I use a DOS based kermit and the commands:

set port com1

set speed 9600

set parity none

-- then I send the file and all is fine.

It does not work fine on my home computer. However, if I copy a text file to the com port I can see that the data packets will arrive:

HP48: open the connection (I/O -> OPENI)

Linux: cp test /dev/ttyS0

HP48: I/O -> BUFL

HP48: drop

HP48: I/O -> SRECV

More information: (in Linux)

```
setserial -g /dev/ttyS*
```

```
/dev/ttyS0, UART: 16550A, Port: 0x03f8, IRQ: 4
```

```
/dev/ttyS1, UART: 16550A, Port: 0x02f8, IRQ: 3
```

```
/dev/ttyS2, UART: 16550A, Port: 0x03e8, IRQ: 4
```

```
/dev/ttyS3, UART: unknown, Port: 0x02e8, IRQ: 3
```

```
ttyS0 = com1, ttyS1= com2, ttyS2 = com3, ttyS3 = com4
```

I have a modem on com2. Com1 and com3 are physical ports on the back of the computer. There is nothing attached to com3. I do not require the modem, since I use a network card for internet connectivity.

Any ideas on how to get the data transfers via kermit to function properly?

Stephen

Re: HP48sx data transfer via serial port

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 18 Oct 2002, 3:09 p.m.,
in response to message #1 by Stephen

Hi;

Which port is your mouse connected to? Both pairs Com1/Com3 and Com2/Com4 share the same interruption request (4 and 3 respectively). I had problems with that under Windows, but plain DOS worked fine (no mouse). Try logging in an unused terminal and keep text mode; maybe this will work, too.

Anyway, have you tried to connect two computers using this serial port? I used Kermit under DOS, but I did not run it under Linux; this way you can check for comms under Linux in a different way.

Success.

Re: HP48sx data transfer via serial port

Message #3 Posted by [Stephen](#) on 19 Oct 2002, 11:25 a.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

My mouse is connected to the PS/2 port. It should not have any effect upon the COM/ttyS* ports.

I have tried to do the file transfers in Windows, DOS, Linux (X) and Linux (console mode - no gpm/mouse running). The result does not change... the software and the calculator just keep on retrying until they time out.

Re: HP48sx data transfer via serial port

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 20 Oct 2002, 2:38 p.m.,
in response to message #3 by Stephen

Hi;

I have a PC running Linux and another one to run whatever I want to (both are PII 233MHz, 64MRAM, one with a 4GBytes HD, the other with an 8GB). Let me know which Linux you are running and, if you can, let me know where to download "Kermit for Linux" from OR send me a zipped file with it. I'll try it from here.

Anyway, if you have success, let us know, too.

Cheers.

Re: HP48sx data transfer via serial port

Message #5 Posted by [Glen Kilpatrick](#) on 20 Oct 2002, 8:09 p.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)

There must be *many* places to download kermit from, but I refer you to its home, Columbia University ---

<http://www.columbia.edu/kermit/>

However, its unix section reminds me that kermit may be included in "free" distributions. Are you sure you don't already have a "local copy", on your install CDs?

Re: HP48sx data transfer via serial port

Message #6 Posted by [Stephen](#) on 20 Oct 2002, 8:12 p.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)

As John has suggested, I think I have an IRQ conflict. Linux is not the problem, nor is the distribution. I have a 486 with the same Linux distribution installed (Debian Woody) and everything works fine on it.

fyi: I'm using ckermit.

I will try to resolve the conflict when I find the time to do so. Thanks for the replies.

Re: HP48sx data transfer via serial port

Message #7 Posted by [John](#) on 19 Oct 2002, 11:34 a.m.,
in response to message #1 by Stephen

More information: (in Linux)

`setserial -g /dev/ttyS*`

`/dev/ttyS0, UART: 16550A, Port: 0x03f8, IRQ: 4`

`/dev/ttyS1, UART: 16550A, Port: 0x02f8, IRQ: 3`

`/dev/ttyS2, UART: 16550A, Port: 0x03e8, IRQ: 4`

`/dev/ttyS3, UART: unknown, Port: 0x02e8, IRQ: 3`

`ttyS0 = com1, ttyS1 = com2, ttyS2 = com3, ttyS3 = com4`

I have a modem on com2. Com1 and com3 are physical ports on the back of the computer. There is nothing attached to com3. I do not require the modem, since I use a network card for internet connectivity.

Any ideas on how to get the data transfers via kermi to function properly?

I would say you have an IRQ conflict. Go into your BIOS and disable COM3 - ttyS2 and try again.

Cheers

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Posted Bio (finally)

Message #1 Posted by [Ion Abraham \(New Mexico, USA\)](#) on 17 Oct 2002, 8:52 p.m.

Hello,

Just a quick note to let you all know that I finally posted my bio. I had been meaning to do this forever, especially because I was one of the original endorsers of the idea, but somehow never got to it.

So now I have a slight cold, and was bored, so here it is. Let me know if you'd like to know anything else.

Best regards,

Ion Abraham Albuquerque, New Mexico

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

82169a and an hpib disc drive

Message #1 Posted by [andy](#) on 17 Oct 2002, 10:10 a.m.

Has anyone utilized an 82169a (hpil-hpib) to interface their calcualtor with an hpib 3.5" disc drive?
If so, which one?

The 9114a hpil 3.5" drives are somewhat rare, but the hpib 3.5" drives are not.

Thanks,

Andy

Re: 82169a and an hpib disc drive

Message #2 Posted by [Alex](#) on 17 Oct 2002, 4:12 p.m.,
in response to message #1 by andy

No, but I have tried using an 82169A to connect a 9114 to a HP1631 logic analyzer (instead of a 9122 w/HP-IB) and the logic analyzer did not see the floppy drive. If anyone has had success doing that I'd like to hear about it.

Alex Knight The Calculator Museum Web Page <http://www.calcmuseum.com>

Re: 82169a and an hpib disc drive

Message #3 Posted by [Christof \(Davis, CA\)](#) on 17 Oct 2002, 8:50 p.m.,
in response to message #2 by Alex

I'm curious about this, too. I should soon have hpil for my 41 and have 2 hpib interfaces for two different types of unix workstations

I haven't got a lot useful to hook up to the HPIB, but that will come. If I could get a 41 to talk to a sun workstation.... well.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP41 (flash) ROM/RAM/MLDL box survey

Message #1 Posted by [Meindert Kuipers](#) on 17 Oct 2002, 6:55 a.m.

I am proceeding nicely with the development of a FPGA for a ROM/RAM/MLDL box for the HP41. This will be much like the HEPAX module, but Flash-based, meaning that ROMs can be programmed almost on the fly by the user and will be non-volatile, even without battery.

I am close to selecting hardware for prototyping, and I would like to know if there is any other interest from the HP41 community. If so, I obviously need to take a different approach. The preliminary specifications can be reviewed on www.kuipers.to/hp41, where a preliminary design (VHDL-based but no schematics yet) is available.

I do not intend to make a commercial business out of this, but rather to cover the cost. The design will be made public anyway. My current guess is that the cost will be somewhere between \$100 and \$200, but really depends on the technology used. My research shows that SRAM is absolutely necessary as a buffer to program Flash Eprom. The HP41 itself is simply too slow to deal with current Flash technology.

There are currently the following options:

- fit it in a module: looks feasible with BGA components, except for the SRAM battery backup. If you can all live with feeding the SRAM from the system battery than that is fine with me. The Flash Eprom is there to keep data forever. Connectors will be difficult to implement as well for I/O functions to and from a PC. I have a very limited quantity of empty modules and port connectors, and it is my intention to supply complete PCB's with components only.
- fit on a PCB inside the HP41: possible with TSOP components
- fit in a seperate box: can be any size, from shoebox to matchbox with a flatcable to the HP41 port.

Be patient, I do not expect to have any real hardware out within four months, but your input is appreciated.

Thanks,

Meindert

Yes, in a module preferably

*Message #2 Posted by [Gene](#) on 17 Oct 2002, 7:21 a.m.,
in response to message #1 by Meindert Kuipers*

I'd buy one at that price range.

How much ram would it emulate? 8k or ?

Ok, a card reader enclosure would be ok as well...

*Message #3 Posted by [Gene](#) on 18 Oct 2002, 9:06 a.m.,
in response to message #2 by Gene*

What kind of PC interface are you considering? Serial? USB?

?

Yes, Interested

*Message #4 Posted by [Dan M \(Vermont, USA\)](#) on 17 Oct 2002, 8:16 a.m.,
in response to message #1 by Meindert Kuipers*

Yes, I'm very interested. Would prefer it to fit in a module, I have a limited number of empty module cases and connectors.

Thanks,

Dan

Tentatively Interested, Also Prefer Module

*Message #5 Posted by [Steve Seto](#) on 17 Oct 2002, 9:32 a.m.,
in response to message #1 by Meindert Kuipers*

System battery power sounds like it would be OK. Any idea what the total power demand (at state change) might be? Any chance of current starvation or voltage sag?

Re: HP41 (flash) ROM/RAM/MLDL box survey

Message #6 Posted by [Philip Reagan](#) on 17 Oct 2002, 9:37 a.m.,
in response to message #1 by Meindert Kuipers

Yes, I'm interested. A module would do for me but an external box is not completely out of the question.

Re: HP41 (flash) ROM/RAM/MLDL box survey

Message #7 Posted by [Massimo \(Italy\)](#) on 17 Oct 2002, 10:19 a.m.,
in response to message #1 by Meindert Kuipers

I am definitely interested in either a plug-in module or an external box; not so excited about an internal PCB.

The price range is acceptable, too.

Count me in! If needed I can provide a module to cannibalize.

Massimo

Re: HP41 (flash) ROM/RAM/MLDL box survey

Message #8 Posted by [JasonG](#) on 17 Oct 2002, 11:01 a.m.,
in response to message #1 by Meindert Kuipers

Hi there.

Yes, I am very interested in this project. I'd be most interested in a module, or board to fit a module case, as I carry my 41 in my pocket most of the time and would rather avoid having external boxes.

Many thanks, and please keep us informed as to you progress.

Regards

JasonG

Re: HP41 (flash) ROM/RAM/MLDL box survey

Message #9 Posted by [Emmanuel](#) on 17 Oct 2002, 1:38 p.m.,
in response to message #1 by Meindert Kuipers

I'm interested too. A module more than an external box.

Re: HP41 (flash) ROM/RAM/MLDL box survey

Message #10 Posted by [David Smith](#) on 17 Oct 2002, 1:41 p.m.,
in response to message #1 by Meindert Kuipers

Module is by far the best. External box or even card reader is OK. One could even salvage old 82143A printer pods. How about a VERY big EEPROM that could hold about every ROM ever written with a way to map a given ROM to a given port number. That was what my design was going to attempt.

Re: HP41 (flash) ROM/RAM/MLDL box survey

Message #11 Posted by [Chris Catotti \(Florida\)](#) on 17 Oct 2002, 2:10 p.m.,
in response to message #10 by David Smith

Module would be my first choice. I would buy one.

Re: HP41 (flash) ROM/RAM/MLDL box survey

Message #12 Posted by [Meindert Kuipers](#) on 17 Oct 2002, 3:09 p.m.,
in response to message #1 by Meindert Kuipers

I had a few questions regarding capabilities, so I will give a quick outline:

- total of 16 4k(* 10 bits) ROM blocks, can be mapped in any page and any bank. More is possible but maybe not practical
- total of 8 4k(*10 bits) SRAM blocks, can be mapped in any page and any bank
- SRAM banks can be programmed in Flash EPROM
- configuration (which ROM image is mapped where) is in SRAM or Flash
- uses low power CPLD (probably Xilinx Coolrunner), 3.3 V
- Flash Eeprom and SRAM use 8-bit interface only (uses two cycles to access 10-bit word)

- 3- or 4-wire interface to PC for up/downloading ROM images, Flash programming, configuration, communication

Other wishes? Let me and the group know! For more technical details, email me.

Meindert

Specs...another question...

*Message #13 Posted by [Gene](#) on 17 Oct 2002, 5:07 p.m.,
in response to message #12 by Meindert Kuipers*

Could you have more than one of these internal at a time? I guess of course you could have 2 and swap them, but ...

Just a thought. Gene

Re: Specs...another question...

*Message #14 Posted by [Richard W. Smith](#) on 17 Oct 2002, 11:49 p.m.,
in response to message #13 by Gene*

Please consider a snap-on box similar to the card reader. It might have room for several of these modules plus batteries and, together with the calculator, would fit nicely into the standard 41 case.

Thanks.

Card Reader? Specs...another question...

*Message #15 Posted by [Christof \(Davis, CA\)](#) on 18 Oct 2002, 2:49 a.m.,
in response to message #14 by Richard W. Smith*

I have actually thought about reworkign a card reader.

The card reader reads bits and sends them to the 41, has a decent rom pac, and lots of space. But you don't need the magnetic strips! this should not be impossible to tie into the current plans, but:

I was thinking of checking the software in the rom to see if it would necessarily be limited in "card" length. if it is not (within reason), then one can emulate the read and write circuitry to operate on a flash, no?

This could, perhaps, keep the one relatively native mass storage functionality, allow

space for ppc/paname/hpildev/hepax/zeprom and more ram, and give us really Good mass storage.

now that would make one hell of a box :)

Yes, very interested!

Message #16 Posted by [Raymond Hellstern \(Germany\)](#) on 17 Oct 2002, 4:40 p.m.,
in response to message #1 by Meindert Kuipers

Hi,

wow, that sounds great!

Yes, I'll buy one of those too. Module preferred. I can provide empty module(s)

Regards,

Raymond

Re: Yes, very interested!

Message #17 Posted by [Juan J](#) on 17 Oct 2002, 7:11 p.m.,
in response to message #16 by Raymond Hellstern (Germany)

I am interested too. A module is good for me, and the price sounds good.

Please keep us updated.

Re: HP41 (flash) ROM/RAM/MLDL box survey

Message #18 Posted by [Christof \(Davis, CA\)](#) on 17 Oct 2002, 7:39 p.m.,
in response to message #1 by Meindert Kuipers

I'm not averse to an internal unit, but a module is probably best.

I could cannibalize a pair of modules if I needed to. one of these would end up in the vehicle mounted hp- (which is coming along, I've got some basic wiring for the space, a model of the 41 casing, a battery pack to rebuild, and a power supply)

Re: HP41 (flash) ROM/RAM/MLDL box survey

*Message #19 Posted by [Christoph Klug](#) on 18 Oct 2002, 3:13 a.m.,
in response to message #18 by Christof (Davis, CA)*

Very nice project ! Because a ram-box system gives HP-41 most advanced features ! Pack this technology inside modul case or card-reader housing. Do not limit memory space to 32KByte. Please add bank switching capabilities and enlarge memory to minimal 64KByte - better would be 128KByte or 256KByte.... !!! Port consumption of only one needed HP-41 plug in slot gives optimal overall system configuration : Remember you also need one port for X-Memory (or Double X-Memory) one for the IL-Module and a last one free to conserve system flexibility...

Best wishes from Germany - Christoph

Re: HP41 (flash) ROM/RAM/MLDL box survey

*Message #20 Posted by [James MacPhail](#) on 18 Oct 2002, 3:53 a.m.,
in response to message #1 by Meindert Kuipers*

I am interested at \$150 +/-.

I wonder if the design could provide a pass-through port, so you would still have 4 available ports with this new box installed.

I think using the 41's bus for backup power is fine. Perhaps the external connector could also provide power so one could remove the box without losing the SRAM.

Although "in a module" sounds great, I would not advocate this option if it doubled the cost and made small production runs problematic, which I expect it does.

Something in the "card-reader style" seems like a good compromise to me. Lots of room for parts, external connectors, etc.

I wonder if more than one configuration is best...

- 1) An "as small a package as possible" (eg. a module, made with technology that can't be done except in quantity), and
- 2) A larger box with battery backup, and extra ports (hopefully possible to make in one-off quantity by an electronics enthusiast)

Oh, I think I should point out that flash memory is not 'forever' on the time-scale of use for this

(decades). There should be enough fuse programmed code in it that when the flash is wiped out, the box can still be brought up and used (without loading some boot flash via some fancy in-circuit programming setup).

Good luck!

Re: HP41 (flash) ROM/RAM/MLDL box survey

Message #21 Posted by [Meindert Kuipers](#) on 18 Oct 2002, 4:48 a.m.,
in response to message #1 by Meindert Kuipers

I warmed by all your enthousiastic responses!

I want to add a few comments to some of the suggestions that have been made.

In the first place, I want the ROM/RAM/MLDL in as small a space as possible, preferably a module, but I am not certain if that will really work.

In the second place, the scope of the project is to be able to put as many ROM images as possible inside an HP41, and to allow user to develop and swap their own MCode. Why does there seem to be need for extra module ports? I can only see use for the time module (mine is built inside with quad memory), extended functions and memory (I have a doubled module for that) and possibly cardreader and printer. Your CCD ROM, Math, PPC, David Assem (my favourites) and everything you have go into Flash EPROM.

I do not intend to make a mass-storage device, I want to use my PC for that, and that is why I intend to build a simple interface for that as well. Mass storage would require loads of Mcode development, but is not impossible. I can add as much (Flash) memory as you like, and 4 Mbit (giving you permanent storage of around 40 ROM images) should to be sufficient to make you wildest fantasies come true. Do you want to store your own user code programs? Put them in a ROM image or in SRAM. I plan to enable access to every single byte in Flash/SRAM anyway, so feel free to build code around it. Just as long as you do not forget that it will not be possible to program Flash straight from the HP41. That will have to be done through buffers in SRAM, and may even be possible under control from a PC only.

Meindert

Re: HP41 (flash) ROM/RAM/MLDL box survey

Message #22 Posted by [Christoph Klug](#) on 18 Oct 2002, 6:09 a.m.,
in response to message #21 by Meindert Kuipers

What about the handling of plug in modules with internal bank switching like the AEC-ROM or the HEPAX-Module ? Both have 3 x 4KByte = 12 KByte.

Re: HP41 (flash) ROM/RAM/MLDL box survey

Message #23 Posted by [Meindert Kuipers](#) on 18 Oct 2002, 7:10 a.m.,
in response to message #22 by Christoph Klug

Sure,

Bank switching will work!

Re: HP41 (flash) ROM/RAM/MLDL box survey

Message #24 Posted by [Christof \(Davis, CA\)](#) on 18 Oct 2002, 10:21 a.m.,
in response to message #21 by Meindert Kuipers

Your ideas and plan are all great and make sense! I'll still answer the conceptual questions you raised :)

1: having onboard or "pc-free" mass storage (especially in a unit the size of the card reader) keeps you relatively independent. One of my largest complaints about modern handheld technologies is you end up having to carry MORE hardware instead of less because you need a laptop to actually do any developmental work or save that work. Not that I would not buy 2 given just about anything you can make, of course. :) (I think of the idea I have of converting the card reader to not be developing mass storage, but changing the media that the existing mass storage system uses.)

2: The extra module ports interest is not a major priority for me (3 empty is enough 99% of the time) but there are always special cases, especially if the 41 is used as a controller device and/or development/experimenting platform. The more I think about the capabilities of your planned system, the less I think I need extra ports beyond the four, but this is definitely an area where the 41 could have used more prevalent accessory development :)

40 ROM images (or 30ROM images and state/system/data backups beyond my imaginable needs) sounds great!

the next question: do you need anything?

Re: HP41 (flash) ROM/RAM/MLDL box survey

*Message #25 Posted by [James MacPhail](#) on 18 Oct 2002, 9:03 p.m.,
in response to message #21 by Meindert Kuipers*

The desire for a pass-through port may be just me, or my imagination, but I see adding this to the electronics as being nearly trivial. Adding to the packaging is more of a problem, but a simple cutout would be adequate IMHO (no need for fancy guides, seals, etc.)

More than once I have wanted to have my card reader, HP-IL and wand. Usually it is easy to swap, but I advocate not building-in more limitations than necessary.

Re: HP41 (flash) ROM/RAM/MLDL box survey

*Message #26 Posted by [James MacPhail](#) on 18 Oct 2002, 9:21 p.m.,
in response to message #21 by Meindert Kuipers*

I worry that designing solely for a module will create future supply problems.

The BGA (or other minimal size) parts will only be available in large (expensive) quantities. (Or may not be readily available at all due to production/allocation problems.)

Assembly will only be possible with fancy (expensive) equipment, with expensive setup charges.

The many-layer circuit board will only be economical to fabricate in quantity.

As a result, a production run will require collecting funds up-front from many buyers. This will work fine the first time, and perhaps the second time if within a year. But thereafter, the difficulty in arranging all of the above will mean that no additional production runs are done, particularly after a couple of years have passed.

Since the module sized design is not buildable by most electronics hobbyists, this will leave us in the well-known situation where a very important accessory (eg. HEPAX or whatever example you wish) is simply in too short supply for those that could use it.

This is only my opinion/concern, and how I would approach the project. Clearly it is not my project, and Meindert should decide based on all opinions (especially his own). I will certainly buy as many as I can afford/justify.

Re: HP41 (flash) ROM/RAM/MLDL box survey

Message #27 Posted by [David Smith](#) on 21 Oct 2002, 11:45 a.m.,
in response to message #26 by James MacPhail

I have assembled some small ball grid packages on PCB with only a hand soldering iron. The PCB had a grid of through holes that matched the balls on the BGA package. The BGA was seated over the through holes and then soldered down from the back side. This worked well for the small (20 pin range packages) we were using.

Of course, interested!

Message #28 Posted by [Juergen Rodenkirchen \(GER\)](#) on 18 Oct 2002, 9:24 a.m.,
in response to message #1 by Meindert Kuipers

... I'd prefer a module, too. Which solution however, please keep us updated on the development progress!

Re: HP41 (flash) ROM/RAM/MLDL box survey

Message #29 Posted by [Håkan Thörngren](#) on 18 Oct 2002, 10:46 a.m.,
in response to message #1 by Meindert Kuipers

This is GREAT NEWS! I am eager to get this device!

I would prefer a module, if RAM is fitted it is OK to feed it only from the main battery. I am slightly calm to the idea of having it internally, but it might be acceptable. I would not like an external box (I already have that and it is not something I like to carry around). If a module is not really possible due to size constraints, I would prefer to have something slightly larger than a module, like the IR printer, which protudes slightly but does not interfere much with pocketability.

I would like to buy two MLDL modules.

Re: HP41 (flash) ROM/RAM/MLDL box survey

Message #30 Posted by [Andreas Müller](#) on 22 Oct 2002, 4:44 a.m.,
in response to message #1 by Meindert Kuipers

Yes, I'm very interested. - I'll buy at least one. - Any kind of package is OK, but the smaller ones are preferred. I have one module housing, eventually two. - Why not using MultiMedia Card, SD Card or SmartMedia Card as Memory? They are available as FLASH Version and some(AFAIK) are available as RAM. Two of them (RAM/FLASH) should fit in a Card Reader. I'm just dreaming. - Is it possible to use Gold Caps / Ultra Caps or the like in the module for intermediate short time powering? - May be I can help you in getting microconnectors for the connection to the PC. Kind regards, Andreas

Re: HP41 (flash) ROM/RAM/MLDL box survey

Message #31 Posted by [Mark Power](#) on 25 Oct 2002, 11:06 a.m.,
in response to message #1 by Meindert Kuipers

That sounds great especially in a module. Presumably it could contain more than 16K which I seem to recall was the limit on the original MLDL boxes?

Re: HP41 (flash) ROM/RAM/MLDL box survey

Message #32 Posted by [David Smith](#) on 25 Oct 2002, 6:18 p.m.,
in response to message #1 by Meindert Kuipers

If it was external or in a card reader case, IBM has a very teeny gigabyte plus hard drive ;) I have a few of those HP 10 and 20 meg matchbox sized drives. Talk about overkill...

Re: HP41 (flash) ROM/RAM/MLDL box survey

Message #33 Posted by [Daniel Sancho](#) on 30 Oct 2002, 5:48 p.m.,
in response to message #1 by Meindert Kuipers

I think is very interesting. I thought about a module (or double sized module) with a pic or similar that act as controller and an MMC/SDCard reader/writer. In the module commands compatible with card reader + tape reader + disk unit. So, the pic acts as an emulator and stores the data and programmes in the Multimedia card. It makes possible to interchange files from HP to PC and PDA with an MMC/SDCard Reader.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

hp48gx help

Message #1 Posted by [rob](#) on 16 Oct 2002, 5:17 p.m.

Yesterday, I did something dumb. I spilled soda all over my calculator. Everything works fine, except that the keys are now sticky. How can I take the top part off, so I can clean the keyboard. Thanks

Re: hp48gx help

Message #2 Posted by [andy](#) on 17 Oct 2002, 10:07 a.m.,
in response to message #1 by rob

I wouldn't suggest trying to take your 48 apart.

First, I would try using electrical contact cleaner (it comes in an aerosol can and evaporates very quickly).

Hold the 48 so the screen is above the keyboard (so the contact cleaner won't drip on to the screen) and spray down the keyboard. This shouldn't damage the calculator and may help to rinse away the soda. Be aware, however, that I've never tried this myself on a 48. I have cleaned the keyboard of an hp80 business calculator in this manner with excellent results.

Andy

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 87: Two questions

Message #1 Posted by [R. Posthumus](#) on 16 Oct 2002, 3:39 p.m.

Recently I aquired an HP87 with a CP/M ROM and a dual diskdrive unit (82901M). There was no cable for linking the diskdrive to the HP87.

First question: Which cable do I need, where can I buy them ? Second question: How do I use the CP/M ROM ?

Thanks in advance.

Re: HP 87: Two questions

Message #2 Posted by [glynn](#) on 16 Oct 2002, 10:02 p.m.,
in response to message #1 by R. Posthumus

I think that the 82901m is just an hpib device; that should mean you can connect it to the HP87 HPIB interface via an hp 10833-type cable (10833a, 10833b, 10833c... different lengths, the "a" being the shortest).

The CP/M subsystem, I think, is MORE than a ROM-- it is a module that LOOKS externally like a packaged ROM module, but it is really a slave processor (a z80), so that stuff written for CP/M will have a native-mode cpu to run on. That is very cool-- opens up a new door of software for you to explore-- but in order to use this module, I do believe you are supposed to use a supplied BOOT diskette that contains CP/M 2.2 by Digital Research Corp.

Somebody probably has a copy of this boot diskette somewhere or would be able to point you to the right place to find it.

CP/M on a HP87 sounds like it would be fun. The '87 would make for a great terminal. Since DR bit the dust, Caldera (I think) retained the software rights, then put it in to public domain a few years ago, including even some of the source code. I remember a few CP/M related mirrors having it around. Crawl the web and see what you can find. The tricky bit might be finding a way to get it onto the 82901m format, with the HP module calls, so you can boot it up. But, I

suspect, if you put your need out, someone can help with a copy of theirs to boot up with.

Also, somebody out there may have docs for your CP/M module. Docs are always useful w/ hp stuff.

Best luck.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP48S

Message #1 Posted by [Howard Jones](#) on 15 Oct 2002, 11:01 p.m.

Does anybody know how I can make the display like this:- 1,234,567.890,123 instead of the present 1234567.890123 I can change it through flag 40(I think) to:- 1234567,890123 Thank you.

Re: HP48S

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 16 Oct 2002, 12:33 a.m.,
in response to message #1 by Howard Jones

Hi;

the plain numbers you see are shown this way when STandarD mode is active. If you change to FIXed decimal places, being the Level 1 contents the number of decimal places in the range 0 to 11, the thousands separators (comma or period, depends on which is the radix mark) will appear. There are no thousands separators when STandarD mode is active.

Hope this answers your question.

Cheers.

Re: HP48S

Message #3 Posted by [Howard](#) on 20 Oct 2002, 9:18 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

Thank you Luis. That fixed it.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Mathematical formulas

Message #1 Posted by [Tomas Anderson](#) on 15 Oct 2002, 4:11 p.m.

Hi, I have with pleasure used your calculators and computers for 35 years. All mathematical formulas for the HP 17BII (Business) I have been unsuccessful to obtain. Some are in the HP 17BII manual and some about TVM and interest are on the web, but far from all. F.ex. the formula for IRR and many others are missing. Please inform me if you have any site where all formulas can be found.

Kind regards, Tomas Anderson

Re: Mathematical formulas

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 15 Oct 2002, 6:24 p.m.,
in response to message #1 by Tomas Anderson

Hello;

maybe I'm wrong, but it seems you wanted to address your post to Hewlett-Packard Company itself. In fact, this Museum and particularly this Forum are exclusively private initiative.

Anyway, about the formulas: I know the IRR and about all related financial formulas used in Hewlett-Packard calculators can be found at the HP12C's "Owner's Handbook and Programming Guide", Appendix D, titled "Formulas Used". This manual also refers to other specific publications in particular cases, like *Standard Securities Calculation Methods* as a reference for Bond calculations.

Hope it helps. But if you still need the formulas, feel free contacting me so I can send you more info.

Best regards.

Re: Mathematical formulas

Message #3 Posted by [Math Geek](#) on 18 Oct 2002, 11:55 p.m.,
in response to message #1 by Tomas Anderson

I do not know exactly what HP uses, but I have a functional set derived using the 28S algebraic equation solver, if you are interested.

E-mail me if you want me to send them.

Re: Mathematical formulas

Message #4 Posted by [Tomas Anderson](#) on 23 Oct 2002, 8:10 a.m.,
in response to message #3 by Math Geek

Hi Math,

Many thanks for your response. I would very much like to receive the set of 28S algebraic equation solver.

Tomas

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

hp-45 stopwatch

Message #1 Posted by [John Fitz](#) on 15 Oct 2002, 1:41 a.m.

I'm new to this forum so I don't know if this is an old topic; forgive me if it is. I bought a hp-45 right after they came out and remember several co-workers showing me how by pressing several keys together and in sequence, you could use the calculator as a digital stop watch. As I remember, it wasn't very accurate. Anyone here heard of that and remember how it was done? Thanks, John

Re: hp-45 stopwatch

Message #2 Posted by [glynn](#) on 15 Oct 2002, 1:52 a.m.,

in response to message #1 by John Fitz

On the main page of MoHPC here, look under the heading, "the Classics", and then click on the description of the HP-45. It has a paragraph describing the timer function and how to control it.

If you wish to tinker, the main page's Collecting & Using Section has a pointer to the article on "Adding a Crystal to the HP-45".

Have fun!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Collectors: HP Only ?

Message #1 Posted by [John Smith](#) on 14 Oct 2002, 6:53 p.m.

Hi all,

I'm curious to know: do you people in this forum who are collectors collect just HP machines ? Or are there other brands or models which you also collect and appreciate ? If yes, which ones the most and why ? I believe TI is mostly despised among hardcore HP fans like myself, but, what about other brands ? Is HP alone on its throne ?

Also, would you say that HP models are definitely well above every other brands in quality and performance, or perhaps the issue isn't quite so clear, and might even be the other way around ? Is HP past fame the result of really superior products, or is it more a matter of blind faith in the superiority of its machines, a kind of chauvinism, not really justified by hard facts ?

Finally, HP machines tend to raise to stratospheric prices in eBay, supposedly reflecting their superior quality and/or rarity and/or desirability. That's a fact. The question is, are there any other brands which also get such extremely high prices as well ? Which ones ? Do they deserve it or is it just another inflationary bubble ?

Re: Collectors: HP Only ?

Message #2 Posted by [Victor](#) on 14 Oct 2002, 7:43 p.m.,

in response to message #1 by John Smith

I collect a wide variety of machines. The ones that I have most of are HP's, TI's and National Semiconductor/Novus.

HP's were the most expensive back in my day (the 70's), but I liked RPN logic, and they were of very high quality; most of them still work today (if you replace the battery pack).

TI's were considered "the dark side" by myself and the other HP lovers I knew. They had the same or more functionallity as HP and were less expensive, but they were poorer quality. I'll

admit I bought several then, but they broke down frequently. I always regretted it. I can't resist the temptation of collecting them now since many of my friends owned them.

I also collect National Semiconductor/Novus calculators, since they offered several different models (many variations of 4-function, "Mathematician", "Scientist", "Financier", "International Computer", and "Statistician", both in programmable and non-programmable form) with RPN, and I frequently read their brochures when I was younger. Now they can be had relatively cheaply. However, I have found them to be poorer quality and less capable than the HP's.

Re: Collectors: HP Only ?

*Message #3 Posted by [Christof \(Davis, CA\)](#) on 14 Oct 2002, 7:54 p.m.,
in response to message #2 by Victor*

There are 3 reasons I'm so attached to HP

1. quality
2. a LOT of programmables with very good models for handheld usability
3. quality

I have a couple TI programmables, and a lot of trs-80/sharp programmables.

I'm a nut for handheld computing, I think there's serious magic in the achieving of good usability/size/extensibility/programmability ratios.

HP has a special place in my "collection" mostly because they have produced some of the best- if not **the** best of the handhelds.

Re: Collectors: HP Only ?

*Message #4 Posted by [Steve Borowsky](#) on 14 Oct 2002, 10:47 p.m.,
in response to message #1 by John Smith*

<<I'm curious to know: do you people in this forum who are collectors collect just HP machines ? Or are there other brands or models which you also collect and appreciate ? If yes, which ones the most and why ? I believe TI is mostly despised among hardcore HP fans like myself, but, what about other brands ? Is HP alone on its throne ?>>

I don't collect just HP's, not even just calculators, but HP's are a central part of my collection. For some reason I like early, portable, microchip technology. In addition to those qualifiers,

anything that is innovative, well-designed, fits its intended purpose well. There's something else, an element of effort that comes through in a design. There was an attempt to carry the technology as far as it would go, you could see that the people cared about what they were doing, made right decisions. It's a 'magical' combination that stands out through time, even though the technology is obsolete. In fact that obsolescence makes it stand out even more. I don't despise TI's. I don't despise anything. It's not like that. It's more like certain things stand out against a neutral background.

<<Also, would you say that HP models are definitely well above every other brands in quality and performance, or perhaps the issue isn't quite so clear, and might even be the other way around ? Is HP past fame the result of really superior products, or is it more a matter of blind faith in the superiority of its machines, a kind of chauvinism, not really justified by hard facts ? >>

HP seems to have taken the technology most seriously, and took it further than anyone else. TI was closest with the 59, and even surpassed HP in many respects with that model, but they didn't follow up. HP was pretty consistent for two decades with excellent designs.

<<Finally, HP machines tend to raise to stratospheric prices in eBay, supposedly reflecting their superior quality and/or rarity and/or desirability. That's a fact. The question is, are there any other brands which also get such extremely high prices as well ? Which ones ? Do they deserve it or is it just another inflationary bubble ?>>

There are few as high as HP right now, but that could change. Compucorp can get as high as some HP's. Some Sinclair models. Even some Casio and Sharp handheld computers.

Inflationary bubbles on ebay are not impenetrable though. Someone could get a 15C for \$23 with 'buy-it-now' even while the bubble is at \$200. Whether or not something deserves the price is subjective, but it can be argued that if it got that price it deserved it, barring any kind of fraud. ebay is a wonderful resource. You could spend decades looking for something you may find on ebay in weeks or months. You may have to pay for it but hey. It's far easier to be ready to pounce on a good deal on ebay than it is to spend years searching in vain until you find it in a flea market in a town where your car happens to brake down.

Re: Collectors: HP Only ?

Message #5 Posted by [db\(martinez,california\)](#) on 15 Oct 2002, 12:09 a.m.,
in response to message #1 by John Smith

i'm a slut. i like any old rpn. i have a privileg, a microcifra and an electronika that are as cool as a lot of hp's. i hate using aos calcers but you have to admit that the ti 58/59 series was a fine instrument; a more robust design than the hp spice series and more accurate than any hp before the saturns. i have one of each collecting dust.

everything that we like in hp units can be found -piece meal- in other rpn machines. a couple of russians were very versatile as programables, like i said once-the privileg is very accurate, some national semi's have a tactile feedback keyboard and the garrett's keyboard feels like a 91/97.

having said that: i use my 41 one or two dozen times a day and will carry nothing less. most of what i do does not require it but it doesn't feel right to get paid and use anything else.

Re: Collectors: HP Only ?

Message #6 Posted by [Raymond Hellstern \(Germany\)](#) on 16 Oct 2002, 8:50 a.m.,
in response to message #5 by db(martinez,california)

Hi db,

the Privileg could be a relabelled Commodore;-)

Regards,

Raymond

Re: Collectors: HP Only ?

Message #7 Posted by [db\(martinez,california\)](#) on 16 Oct 2002, 11:47 p.m.,
in response to message #6 by Raymond Hellstern (Germany)

it may be. mine is an sr 54 and thats all i know about it. it does have nicer keys than the other 4 commodores that i've seen. they are not as snappy as an hp but as good as an old ti or navtronic.

Re: Collectors: HP Only ?

Message #8 Posted by [thibaut.be](#) on 15 Oct 2002, 2:32 a.m.,
in response to message #1 by John Smith

Thought my interest is totally devoted to HP (I have about 50 calculators), I have recently bought a TI 59...

Re: Collectors: HP Only ?

Message #9 Posted by [Victor](#) on 16 Oct 2002, 7:07 p.m.,
in response to message #8 by thibaut.be

Shame on you!! :)

Re: Collectors: HP Only ?

Message #10 Posted by [Mike \(Stgt\)](#) on 15 Oct 2002, 5:19 a.m.,
in response to message #1 by John Smith

HP only (>100, about 20 FSOT, 23 to be complete [from my point of view]). I got some others, but they had been a "foreign body" in my show case.

Ciao.....Mike

BTW, I used intensively the HP-41, now the 200LX exactly fits my needs, but currently I'm looking for a adequate replacement. Probably I have to wate the same developement cycle as from 41 to 200. M.

Re: Collectors: Why?

Message #11 Posted by [Ernie Malaga](#) on 15 Oct 2002, 10:33 a.m.,
in response to message #1 by John Smith

I don't want to raise ill will, but I have to ask the following question: Why collect calculators at all?

I'm asking out of personal experience -- I'm a collector too, of sorts at least. I have a 41CX, 32S, and a 28C. I'd be hard pressed to state that I use any of them on a daily basis.

What's that itch to possess calculators? Wouldn't it be enough to have one or two, and go to web sites such as this one to look at other machines?

Comments, please?

Re: Collectors: Why?

Message #12 Posted by [John Smith](#) on 15 Oct 2002, 11:37 a.m.,
in response to message #11 by Ernie Malaga

You could ask the same question about collecting *anything* :-)

Why buy yet another stamp or coin when you could easily and cheaply look them up in some catalog ?

Several reasons:

- To make a profit. You buy at one price, then sell (much) later at another. This is done all the time with stamp collections, as an investment.
- Because you want to physically own the items. It's not the same feeling looking at some gold coin in a paper catalog or on a screen than having it actually in your hand, feeling its weight, its texture. It's not the same seeing some vintage car in a display or catalog as compared with actually driving it.
- plus there's the intimate satisfaction of knowing that that thing you like it's actually yours, you own it.

Get the point ? Same with calculators ... and women.

Re: Collectors: Why?

Message #13 Posted by [Paul Brogger](#) on 15 Oct 2002, 7:39 p.m.,
in response to message #11 by Ernie Malaga

I don't consider myself a "collector" --- more of an interested hobbyist. I "collect" whatever scientifics the local Goodwill or Salvation Army (or other) thrift store happens to have when I drop in.

I'm still interested, I think, for two reasons. First, I "grew up" programming in constrained environments, and so like to play around with portable, limited, easy-to-learn programmable things. Second, calculator use is nostalgic: reminding me of my undergraduate days, when I would carry on my belt the answer to most *any* (it seemed) technical question that was likely to arise on a given day -- it was a real feeling of confidence and power.

And make no mistake, I think HP had 'em all beat from the quality, ease-of-use, rational design, and utility standpoints.

Re: Collectors: Why?

*Message #14 Posted by [Mike \(Stgt\)](#) on 16 Oct 2002, 5:51 a.m.,
in response to message #11 by Ernie Malaga*

From my (not yet published update of my) site: "I once had a vision. Then I bought an HP-41C and this vision became reality."

That's it. No, not really: Since the relation to my wife went from nice to not-so-nice I have the time for a hobby of my own ;)

Ciao.....Mike

A bit dated, but I will do the update ASAP: <http://ourworld.compuserve.com/homepages/nutem/>

Re: Collectors: Why?

*Message #15 Posted by [Victor](#) on 16 Oct 2002, 7:06 p.m.,
in response to message #11 by Ernie Malaga*

All during high school, I read the brochures and fantasized about owning these calculators. Now that I'm older, have a job, and through the miracle of the internet and eBay, I can make this fantasy a reality!

Weird? Yes, I agree.

Re: Collectors: HP Only ?

*Message #16 Posted by [Bill Smith](#) on 15 Oct 2002, 11:14 a.m.,
in response to message #1 by John Smith*

not sure when i became a collector. the only calcs i've ever had until recently were HP (a friend gave me her Novus because it was RPN). so for me, nostalgia is a big part of it...the recollection of being able to run a program on my 25 rather than sloshing through the Corvallis rain to receive yet another core dump from the computer center.

i moved on to a 34C, 15C in college, and a 41CV at work. i eventually sold the 25 and 34C, with little regret. i'll never part with my 15C, and bought a 12C to keep in my car instead. i traded a NIB 32Sii for a 41CX, and pick up 41 accessories as opportunity, time, and budget allow, just because i always wanted them. other than 41 series, the palmtops are the only remaining items i must have (so far only 100lx, 200lx are mine, still looking for a deal on a 95lx and 1000cx).

guess you could say i'm a collector of limited interest.

/bs

Re: Collectors: HP Only ?

*Message #17 Posted by [Tom Lianza](#) on 16 Oct 2002, 1:18 p.m.,
in response to message #16 by Bill Smith*

Hi All,

I collect many brands. HP has some great calcs, but there were others. I have a rather complete collection of the comupucorp 300 series machines and I also have plenty of monroe machines. Commodore made a number of machines that were pretty good from the standpoint of functionality but very short on quality. I also collect Russian Scientifics. They are interesting for their quirkyness...some of them are just plain inaccurate! An interesting series of machines was made by Aristo in Germany. Very unique looking and well built... not to technially advanced however. Over all, it's just a great hobby and I've met a number of great people as well....

Re: Collectors: HP Only ?

*Message #18 Posted by [Anonymous ..](#) on 16 Oct 2002, 6:36 a.m.,
in response to message #1 by John Smith*

I'm not a collector.

Why ? Because, to be a collector is to be alienated to something. And my way of life (it may be considered as an alienation) is to clear my life of alienations !!!!

Thanks to everybody.

Re: Collectors: HP Only ?

Message #19 Posted by [Steve Borowsky](#) on 16 Oct 2002, 12:42 p.m.,
in response to message #18 by Anonymous ..

Anonymous wrote:

<<to be a collector is to be alienated to something. And my way of life (it may be considered as an alienation) is to clear my life of alienations !!!!>>

Could you explain this? How is being a collector being alienated from something? You mean from the thing you're collecting?

Re: Collectors: HP Only ?

Message #20 Posted by [Anonymous](#) on 17 Oct 2002, 3:53 a.m.,
in response to message #19 by Steve Borowsky

Being a collector will lead you to desire. You will want to own new items, new collectables. To be in the possession will lead you to the desire of possession.

I prefer to be in love. In love of everything I meet in my life.

We are our own jail.

Many thanks to everybody.

Re: Collectors: HP Only ?

Message #21 Posted by [Marc Brucker](#) on 17 Oct 2002, 8:47 a.m.,
in response to message #20 by Anonymous

Like Gollum and The Ring?

Re: Collectors: HP Only ?

*Message #22 Posted by [Steve Borowsky](#) on 17 Oct 2002, 9:09 a.m.,
in response to message #20 by Anonymous*

Anonymous wrote:

<<Being a collector will lead you to desire. You will want to own new items, new collectables. To be in the possession will lead you to the desire of possession.

I prefer to be in love. In love of everything I meet in my life.

We are our own jail.

Many thanks to everybody.>>

Oh, so you mean alienation from a desire-free state, a state that allows one to love everything impartially without preference or predjudice. A noble goal, but perhaps the repression of the less noble, more mundane elements in our nature is not the best way to achieve it. Doesn't self-acceptance go hand in hand with other-acceptance? The exclusive emphasis on either may be the real problem.

Re: Collectors: HP Only ?

*Message #23 Posted by [John Smith](#) on 16 Oct 2002, 6:45 a.m.,
in response to message #1 by John Smith*

Thanks to all of you who commented on my original questions. Now that it seems the thread is more or less over, I think it's proper to briefly give my own opinions as well. All that follows is IMO, of course:

> do you people in this forum who are collectors collect just HP machines ?

Though I do have a large number of HP machines, even as many as three or four for some models, most mint or new, I also collect other brands, mainly SHARP, with the occasional CASIO and TI thrown in for good measure.

> would you say that HP models are definitely well above every other brands in quality and performance, or perhaps the issue isn't quite so clear

It isn't quite so clear. There are contemporary models by other brands that are superior to HP's in a number of ways.

> Is HP past fame the result of really superior products, or is it more a matter of blind faith ?

50/50

> are there any other brands which also get such extremely high prices as well ?

Yes, there are. Some have already been mentioned in this thread, and I've seen several SHARP machines getting well over \$200 and, in one case, \$375 in eBay. Same for some CASIOs.

So it seems we collectors won't be out of business any time soon. If our HP collections are complete (95C and all) and/or most HP machines are way too expensive, there are other brands that may keep us enjoying that hunting feeling again.

Re: Collectors: HP Only ?(OT)

*Message #24 Posted by [Steve Borowsky](#) on 16 Oct 2002, 12:50 p.m.,
in response to message #23 by John Smith*

John Smith wrote:

<<Though I do have a large number of HP machines, even as many as three or four for some models, most mint or new, I also collect other brands, mainly SHARP, with the occasional CASIO and TI thrown in for good measure>>

Ahh! A Sharp collector! (I have some too). Maybe you could explain to me the high prices a few models get while others do not. I'm thinking of the 5100 series and/or the 5500 series I think. Is it just that these are the most rare or the coolest or...?

Re: Collectors: HP Only ?(OT)

*Message #25 Posted by [John Smith](#) on 16 Oct 2002, 5:46 p.m.,
in response to message #24 by Steve Borowsky*

Steve wrote:

> Maybe you could explain to me the high prices a few models get while others do not. I'm thinking of the 5100 series and/or the 5500 series I think. Is it just that these are the most rare or the coolest or...?

That's right. The EL-5100 series are among the oldest (circa 1980, i.e: *almost 23 years old*) really advanced scientific calculators, and arguably *the most beautiful calculators ever made*, and incredibly solidly built. The two units I own are absolutely mint, silvery

and smooth, and working perfectly after all those years. For their time, they were incredibly advanced calculators and a real pleasure to use, being extremely slim and lightweight.

Though they aren't really comparable, as they aren't programmable, placing an HP-41C next to a Sharp EL-5100 will easily remind you of "Beauty and the Beast", really ! :-)
Poor 41C's chunky black plastic body seems nearly preposterous when compared to the extremely slim, all-metallic, silvery SHARP. And the segmented, 12-char grey LCD display is also no match for the Sharp's 24-char, dot matrix yellow LCD display. Same for the colour-coded keyboard, where each and every key has a metallic ring surrounding it, also color-coded (gold, silver). A truly *jewel* of a machine.

If you want to see info and images of this superbly beautiful calculator, click these links below, though be warned that the images *don't do it justice, at all !* The actual, machine, when in your hand, is much, much prettier, really awesome if in mint condition.

[Sharp EL-5100's info & pic from Viktor T. Toth's superb site](#)

[Good EL-5100 image from The Pocket Computer Museum](#)

[Sharp EL-5100's info & pic from Michael Briley's "Too many calculators" site](#)

Re: Collectors: HP Only ?(OT)

Message #26 Posted by [Christof \(Davis, CA\)](#) on 16 Oct 2002, 9:38 p.m.,
in response to message #25 by John Smith

For the programmables, the cost goes up with the models that fit in the cassette/
printer cradle. (which is a fantastic system, and very expensive. Something as
unified for the 71b would have been nice)

Also, the models with the largest displays and best graphics handling are also very
pricey.

but these aren't, strictly speaking, calcs. As pocket computers, though, they are
superb machines with a constant development history to the present. And as Sharp
didn't (entirely) cave into the abortion that is CE, your biorythm program from 1979
on the first sharp will run without much modification on your newest wizard.

Pretty cool, eh?

Re: Collectors: HP Only ?(OT)

*Message #27 Posted by [Steve Borowsky](#) on 16 Oct 2002, 11:30 p.m.,
in response to message #25 by John Smith*

Steve wrote:

John Smith wrote:

<<> Maybe you could explain to me the high prices a few models get while others do not. I'm thinking of the 5100 series and/or the 5500 series I think. Is it just that these are the most rare or the coolest or...?

That's right. The EL-5100 series are among the oldest (circa 1980, i.e: almost 23 years old) really advanced scientific calculators, and arguably the most beautiful calculators ever made, and incredibly solidly built. The two units I own are absolutely mint, silvery and smooth, and working perfectly after all those years. For their time, they were incredibly advanced calculators and a real pleasure to use, being extremely slim and lightweight.>>

Oh I see. So there was a lot that was new in the 5100; a lot of new concepts and new functionality. With nonvolatile ram and advances in LCD's came formula storage and an editable command line. The latter was a real revolution though not at all friendly to the survival of RPN, at least not to most people,(but who cares about them?). Sharp did a nice job of packaging these features, particularly in size. All this new capability in a package that was significantly smaller than most calcs of the day would have been very impressive, and rightly so.

Re: Collectors: HP Only ?(OT)

*Message #28 Posted by [Wayne Brown](#) on 17 Oct 2002, 8:20 a.m.,
in response to message #25 by John Smith*

I'm a confirmed HP/RPN bigot, and I really like the looks of the HP-41. However, I have to confess that the Sharp EL-5100 looks really... ummm... "sharp!" It looks a bit like an upscale version of an HP-71 or one of the Voyager calcs.

Re: Collectors: HP Only ?(OT)

*Message #29 Posted by [Paul Brogger](#) on 18 Oct 2002, 8:33 a.m.,
in response to message #25 by John Smith*

Mine is an EL-5100S -- in only "good" condition.

It worked only sporadically when I got it, but I found that the clear plastic insulator inside the back cover had worn through, and as a result the batteries grounded against the case. I stuck part of a post-it in there (non-permanent but effective) and it now works fine!

I note in the third of your links that the 5100S is supposed to have an "improved" display. Mine is the typical blue-gray color (and so not as distinctive as the yellow), but is indeed a very clear and readable display.

Thanks for the information and links!

Re: Collectors: HP Only ?(OT)

*Message #30 Posted by [John Smith](#) on 18 Oct 2002, 9:43 a.m.,
in response to message #29 by Paul Brogger*

Hi, Paul, you wrote:

> Mine is an EL-5100S [...] I note in the third of your links that the 5100S is supposed to have an "improved" display. Mine is the typical blue-gray color (and so not as distinctive as the yellow), but is indeed a very clear and readable display.

Your gray display is the improved version, indeed. SHARP was the leader in LCD research, and their first yellow version included a special filter to block out ultraviolet radiation, which would create black stains and otherwise damage the display, hence the yellow color. The gray version is more resilient to UV, so no extra filter needed.

As long as you avoid UV (i.e: sunlight) on your 5100 display (or TRS-80 PC-1/ Sharp PC-1210, 1211, etc), there's nothing to worry about. All my many yellow LCD Sharps have extremely clear and clean displays though they are 20+ years old.

As far as I know, there are no HP yellow-LCD displays, but perhaps there's some large HP desktop calculator/computer which uses one ? By the way, it would be

nice to have a yellow-LCD HP-41C, right ? :-)

> Thanks for the information and links!

You're welcome, glad you liked it, and again, thanks to everyone who posted to this thread, your comments have been most interesting.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

48sx screen problem

Message #1 Posted by [Jaime Ruiz](#) on 14 Oct 2002, 4:59 p.m.

Hi:

I have a 48sx that probably need screen repair. I have no idea on what to do HELP!!!!!!

Regards:

Jaime Ruiz Isabela, PR

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Rubber Feet

Message #1 Posted by [Michael Weitzner](#) on 14 Oct 2002, 1:59 p.m.

How can I get replacement feet for an HP-12C? Even though the item is still current, HP doesn't stock small parts for calculators anymore.

Re: Rubber Feet replacement

Message #2 Posted by [glynn](#) on 14 Oct 2002, 11:52 p.m.,
in response to message #1 by Michael Weitzner

I don't think these feet will be all that hard to replace.

I do not have a 12c, but a 15c (very similar body) and I think it would be possible to cut some rubber sheet (say from a tire repair kit, the kind sold for bicycles) into rectangles of the proper size, and glue it down with contact cement.

Any comments, y'all? ;-)

Re: Rubber Feet replacement

Message #3 Posted by [Woody](#) on 15 Oct 2002, 10:44 a.m.,
in response to message #2 by glynn

Try a hobby or craft shop. (The kind that sells stuff to make flower arrangements, clocks, painted shirts, etc. by hand.) We have Michael's Craft shop or Hobby Lobby where I live. I have seen thin rubber sheets with adhesive backing there and filed it away for later use. It looked like it would work well, but it was a year or so ago when I saw it.

Another option would be a home improvement or hardware store. They sell a large assortment of small rubber pads to place under appliances and furniture.

No great answer I'm afraid, but maybe a few leads.

Re: Rubber Feet

Message #4 Posted by [David Smith](#) on 15 Oct 2002, 12:47 p.m.,
in response to message #1 by Michael Weitzner

Almost all the tire patch/craft store rubber is too thin to make feet. They need to be around 1/16 inch thick. A truck tire inner tube works well. Also try EPDM roofing rubber. Home Depot sells it in their garden area (used to line fountains). Only problem is it comes in 15 foot wide rolls (at around \$1 sq/foot). Stick them down with double sided scotch tape.

Re: Rubber Feet

Message #5 Posted by [Michael Weitzner](#) on 15 Oct 2002, 3:37 p.m.,
in response to message #4 by David Smith

Thanks for the responses.

I guess I will have to be creative. I will try radio shack or my bicycle patch kit. Thanks.

Re: What About Woodstocks?

Message #6 Posted by [Larry M.](#) on 15 Oct 2002, 10:02 p.m.,
in response to message #5 by Michael Weitzner

Does anybody know of a good replacement material for the two feet at the top of an HP-25? Thanks.

Re: What About Woodstocks?

Message #7 Posted by [db\(martinez,california\)](#) on 15 Oct 2002, 11:02 p.m.,
in response to message #6 by Larry M.

someone here suggested whittleing woodstock feet out of similar colored eraser material. thats the best idea i've found.

re 12c: the cheaper tire repair kits have thicker rubber.

Re: What About Woodstocks?

*Message #8 Posted by [David Smith](#) on 16 Oct 2002, 3:22 p.m.,
in response to message #6 by Larry M.*

Yes, I make my Woodstock footsies out of an eraser made by Sanford. It is available at just about any office supply store. Works and looks just like the real thing. It is a bit more "crumbly" than the originals, but removes pencil marks better ;). Sometimes you have to cut out a few of them to find a piece of the eraser that does not have small bubbles in it.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Update on HP95-lx prototype

Message #1 Posted by [Edwin Herdman](#) on 14 Oct 2002, 12:28 p.m.

I'll be getting a camera soon, so I'll be able to post a page with more complete information on this system.

I found a bug in the system within the first few minutes of use and had to take the batteries out; beyond that, there are virtually no deviations from the normal 95lx and in fact I've been able to use the standard manuals woodshop (the excellent eBay seller who I bought the unit from) sent along with the system to figure out some of the unit's features, seeing as how this is the only 95 I own.

Something else of interest is the business card feature. I saw a photo of the standard 95lx business card and I thought it looked rather clumsy with the faux-shadowing (and I think that of the excessive use of ASCII shadowing in DOS programs for the system's big PC brother as well). On my unit, I have 3 fields on a blank background, along with the other usual display elements.

There are two .PCX files burned onto the ROM that apparently are supposed to be useful for display purposes. One features oversized application icons along the left and bottom of the screen with text saying (I believe) "press an application key..." and looks pleasant overall. This file is named ICONS.PCX, don't have the exact date at the moment.

The other file is terrible, and looks like a programmer made it, perhaps after 72 hours of sleep. It features all the application icons along the left side, but they didn't scale properly and don't look quite round. Along the right side is a huge solid black block with the words "Lotus and HP present" -- note that they used the company logos, and the "t" in Lotus apparently suffered from an attempt to make it prettier, with two clear pixels that nearly line up in the center. At the bottom of this solid block is "JAGUAR" in big, ugly letters. Somewhere around the center of the picture is a stray pixel hanging off a letter where it shouldn't. Altogether, it reads "Lotus and HP" return "present" return "JAGUAR"

This last picture is quite bad for reasons that you can test on a Texas Instruments TI-83 type of calculator: As it uses a LCD display, a solid column will cause pixels underneath to become darker. This effect is noticeable under the block I mentioned earlier.

Besides that, everything else seems mostly in order, just without all the useless text ornaments in the usual system. It runs MS-DOS 3.11 and has the standard amount of RAM. Selecting a file in the filer does not start the program but displays the program code, but isn't terribly useful since there are often undisplayable ASCII machine instructions. The clamshell is identical to the final one.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Suggestions for HP: Make an HP-12C+ calculator

Message #1 Posted by [Gene Wright](#) on 14 Oct 2002, 10:58 a.m.

What should go into a 12c+?

1) Faster. Solve for "i" in a second or two, rather than 10-15. 2) Programming features: Add subroutines/return; add $x > y$ and $x \text{ NOT EQUAL } 0$ 3) Add fix function for formatting display, replacing using f [digit], which uses up the yellow-shifted locations of each numeric digit 4) Add direct computation of slope and intercept for linear regression 5) Add permutations and combinations 6) Add x^2 7) Add trig and inverses, common log and antilog, degrees or radians mode 8) Fix solution given when solving for "n" to be actual # of periods, not rounded up automatically 9) Add hyperbolic trig functions (using a prefix key perhaps) 10) Add more memory for programs 11) Add Normal Distribution and Inverse Normal Distribution 12) Add population standard deviation calculation

There are 26 easy to use "unoccupied" locations on the 12C keyboard that are available for functions. My suggestions use:

#1 - None #2 - 4 locations #3 - 1 location #4 - 2 locations #5 - 2 locations #6 - 1 location #7 - 10 locations #8 - None #9 - 1 location #10 - None #11 - 2 locations #12 - 1 location

a total of 24 of these 26 locations. C'mon HP, you've got 2 locations free!

Gene

P.S. The unused locations are: yellow shifted locations of the STO, RCL, CHS, EEX, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, ., E+, /, *, -, + keys; blue shifted locations of the STO, RCL, /, *, -, + keys. Note that being able to use the yellow shift locations of 0 - 9 REQUIRES a FIX function.

Re: Suggestions for HP: Make an HP-12C+ calculator

Message #2 Posted by [Scuba Diver](#) on 14 Oct 2002, 3:25 p.m.,
in response to message #1 by Gene Wright

Now, if you can manufacture it without using painted keys, then sign me up!

Oh, yeah, one other thing. If you insist on making it in China, then reward workers based upon QUALITY, not QUANTITY.

B.

Re: What Makes an HP-12C special?

Message #3 Posted by [glynn](#) on 14 Oct 2002, 9:32 p.m.,
in response to message #2 by Scuba Diver

Forgive, all, what may seem impertinent, but:

I notice that practically ANYONE involved in business or finance has a 12c. HP has had business-oriented calcs before & after this one, yet none seems to be the gold standard that the 12c is. Is it the form factor, the RPN, the lack of complexity, the precision of the calculations, the professional feel; WHAT...

I know also TI, Casio, Sharp, Canon, etc have had "financial" calcs. But they never reproduced the cachet, did they?

What exactly did HP do so RIGHT, here in the 12c, that has kept HP producing a variant long after all others in the series have been retired?

I know it sold well; was really just wondering (since I haven't experience with financial calcs) what financial users valued in it so much as to make it almost a passport into the boardroom?

Re: What Makes an HP-12C special?

Message #4 Posted by [thibaut.be](#) on 15 Oct 2002, 3:16 p.m.,
in response to message #3 by glynn

Being a financial manager, I've noticed that many of my colleagues own a 12c or a 17B.

To understand why, one should get back to the 80's, when this calc, along with the 11C, was sold while the Spice series was still available.

The 12C was [i]the[/i] manager's calc : golden bezel, many financial calculations capabilities that they one day learned at the university but forgotten in the meantime. The look was there and, even if many people used them, most of the time it was for banging figures rather than computing complex financial equations. In other word, it became more an accessory rather than a powerful calculation tool.

I'm not sure HP was aiming to this success : actually most of the functions on the 12c were already present on the 38C, but I guess the 12C had this something special that, alike the engineer's slide rule in the shirt pocket, it became equivalent to a "finance guy" label.

On my side I use a old 41C for banging figures, but I often use other calculators that I take from my collection, a bit like choosing my tie every day...

Re: What Makes an HP-12C special?

Message #5 Posted by [Scuba Diver](#) on 15 Oct 2002, 8:37 p.m.,
in response to message #3 by glynn

Well, I have a 17BII, a 19BII and two 12Cs; I use the 17 and 19 at home; the 12C is on my desk at work.

In business, image often transcends reality. I was given this piece of advice early on in my career, "Don't dress for the job you have, dress for the job you want." That includes my accessories. Nice watch, cufflinks, and a 12C.

It's rare that one performs calculations in a meeting, but when you do, it's nice to have a small, attractive calculator. (As a sidenote, it's also nice to pass to someone else for them to use. They usually freak when they realize that the calc has no equals key!)

Do I amortize someone's mortgage with it? No. Do I calculate the Internal Rate of Return? No. I do simple calculations, and the 12C allows me do perform those with a bit

of class.

Call me a snob. Call me anything. Just don't call me late for dinner.

B.

Re: What Makes an HP-12C special?

*Message #6 Posted by [thibaut.be](#) on 15 Oct 2002, 11:23 p.m.,
in response to message #5 by Scuba Diver*

Well, I recognize here a typical behavior... it's primitive psychology: members of a group have their own codes, customs, fashions...

On my side in board meetings my favourite trick is along with commercial people when they announce a turnover growth of 10%/year for 5 years, to calculate a total growth+61% instead of +50% ;-). There my 12C has an advantage

Re: Suggestions for HP: Make an HP-12C+ calculator

*Message #7 Posted by [Woody](#) on 15 Oct 2002, 10:58 a.m.,
in response to message #2 by Scuba Diver*

Having lived and worked in China for several years, I can tell you that their industrial capability spans the entire gamut. Some of the products produced there are very high quality. Some, obviously, are not. The quality of the finished product most likely will depend on the product specifications, quality, and cost parameters that are given to the contract manufacturing company more than their location. (That is, assuming that one has done their homework relative to identifying competent manufacturing firms to work with.)

Re: Suggestions for HP: Make an HP-12C+ calculator

*Message #8 Posted by [Stephan](#) on 15 Oct 2002, 3:01 p.m.,
in response to message #7 by Woody*

Woody said:

"Having lived and worked in China for several years, I can tell you that their industrial capability spans the entire gamut. Some of the products produced there are very high quality. Some, obviously, are not."

So did I, and I have to agree. You get the whole range of quality - problem is, you get it all within one lot from the same supplier. Best chances are to cooperate with either

FOEs or companies with heavy foreign investment.

Re: Suggestions for HP: Make an HP-12C+ calculator

Message #9 Posted by [rsenzer](#) on 15 Oct 2002, 3:44 p.m.,
in response to message #1 by Gene Wright

I would like to see the fraction mode similar to the 32SII or the 30S fraction capability on any new 12C or similar.

Re: Suggestions for HP: Make an HP-12C+ calculator

Message #10 Posted by [Frank](#) on 16 Oct 2002, 12:03 p.m.,
in response to message #1 by Gene Wright

I just suspect Calculators are not real high on the agenda right now, as post merger results are not looking promising. Must be the economy ;+} (HP reason) or just perhaps the founding family may have been somewhat correct in the pre-merger assessment. In any regards, I hope they can get it straightened out unlike a few others that will never recover.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP48.EXE on HP Jornada 525

Message #1 Posted by [Mike \(Stgt\)](#) on 14 Oct 2002, 8:29 a.m.

Hi all!

Anybody here who got the HP48-Emulator running correctly on a Jornada 525? It works (slowly) but the bitmaps of the keyboard are somewhat too big. In other words: how may I hide the title bar?

TIA for any hint.....Mike

Re: HP48.EXE on HP Jornada 525

Message #2 Posted by [DJ](#) on 14 Oct 2002, 10:52 a.m.,
in response to message #1 by Mike (Stgt)

Try this script:

<http://ca-on.hpcalc.org/hp48/pc/emulators/pocketpc48g.zip>

Re: HP48.EXE on HP Jornada 525

Message #3 Posted by [gene](#) on 14 Oct 2002, 4:28 p.m.,
in response to message #2 by DJ

How does that work? I've tried the 48 emulator on my Jornada 565, but the bottom menu/title bar has still been showing (keyboard input icon, etc).

I need some english to help me understand what to do. :-)

Gene

Re: HP48.EXE on HP Jornada 525

Message #4 Posted by [DJ](#) on 14 Oct 2002, 5:37 p.m.,
in response to message #3 by gene

On PocketPC, the top and bottom bars won't go away. The KML script you use must fit in between. The one in my previous post should work. Some of the older scripts won't fit on PocketPC because they were made for the previous version WinCE which only had one bar at the top and nothing at the bottom, giving you 20 extra pixels or so. You may have to edit the offsets in the old scripts to get them to work (a real pain). Make sure you have the latest HP48.exe as well. As I recall, there was an offset bug in a prior version. You should find the latest here: <http://web.jet.es/leobueno/soft/emu48ce.exe>

Re: HP48.EXE on HP Jornada 525

Message #5 Posted by [Mike \(Stgt\)](#) on 15 Oct 2002, 4:45 a.m.,
in response to message #4 by DJ

Thank you for the URLs. I tested now with hp48.exe V1.23 and the correct bitmap/KML. But it tanks "my" Jornada 525: colors are reverse (inverse, not exactly negative) and after 5 tests I have to do a reset. Strange. Seems a 525 is not sufficient for this.

Ciao.....Mike

BTW, if I show the keyboard bitmaps with a viewer the colors are intact.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Talking about eBay craziness ...

Message #1 Posted by [John Smith](#) on 14 Oct 2002, 8:13 a.m.

... have you seen this ? :

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1386148962>

Can you imagine, paying \$263 for a Forth/Assembler ROM for the 71B ? Not the machine plus the ROM and a complementary lollipop, just the ROM and its manual ?

When I tried to sell mine in the Add sections of MoHP a few years ago I got no takers at all, despite the fact that the three volumes of the IDS (Internal Design Especifications) and a lot more 71B assembler listings and info were included as well, and that I wasn't specifying any particular price at all. Finally, just one person wrote offering \$50, and he got them all, a massive package.

Seems to me that prices such as the ones recently seen for such crappy machines as the newest incarnation of 32SII just demonstrate that the market has gone crazy and there are no longer bona-fide collectors, but just people who are inflating the bubble more and more.

It won't collapse, mind you, but people will simply give HPs a miss and begin collecting more affordable machines. And some people are going to find themselves with a lot of unsold machines, after having paid preposterous prices to get them in the first place.

Re: Talking about eBay craziness ...

Message #2 Posted by [Ron Ross](#) on 14 Oct 2002, 9:41 a.m.,
in response to message #1 by John Smith

First, the market is CRAZY. And as a collector, I cannot afford to finish my collection from ebay at this time. But a calculator is worth whatever someone is willing to pay for it (actually with ebays policy, what two people are willing to pay for it).

I feel the high prices are due to three factors:

1. Stupid, sentimental, over-attached, dimwitted collectors with more \$\$\$ than brains (That probalby applies to each of us at some time or another, ie. I've got to HAVE IT!).
2. Most often, an engineer whose caculator finally gives out or is lost, can't find Hp anymore, and has to resort to ebay and isn't in the mood to shop, has no idea about prices, and wants that replacement, come hell or high water.
3. I suspect every so often SHILLING does take place. Even if a sale or trans-action doesn't go through, a new high in calculator prices is made and this drives up the value of a well stocked and deep inventory. No way is an Hp32 worth over a \$120 as a tool, when you can buy a much more capable Hp48 for under \$100 new, retail. But since the 32 is not made any longer, it is now a collectable. And as such, it commands whatever the market will bear.

I liked my 15c best for daily use, but I now use a 48G exclusively for any work, just because IT IS EXPENDABLE and REPLACABLE. It is even a better calculator as long as it is on my desk. But I sure do miss the pocket size calc and would buy another if Hp were to still make an 11c or 15c (and they could, they still make a 12c).

But since I live in a real world where Hp calcs are collected (and Why not!, I engage in this myself, from time to time), I just am thankful of the collection I already have. And exercise patience. 20-40 years from now, our children just might put our Calculators out on the curb and sell for a buck apiece (Now that Hurts, a collection of Thousands of dollars, being sold for \$20-50 total). Definitely a possiblity for some of us. Nightmares, anyone?

Re: Talking about eBay craziness ...

Message #3 Posted by [Christof \(Davis, CA\)](#) on 14 Oct 2002, 12:28 p.m.,
in response to message #1 by John Smith

I'm not a "collector" per se. I don't honestly care about boxes, sales brochures, or whatnot. I'm not even *particularly* attached to comsetics. (that being said, I do have some calcs I'm collecting because I can afford to and they are also backups to models I do use at loeast occasionally)

I just want usable machines, of the type I use. I'm enough of an explorer that this list is pretty large- basically from the 67 on. I can't afford a 71, haven't seen one in usable condition (I do like manuals of some sort. and battery coverplates) that I can afford. I'm certainly not paying the eternal \$550 buyitnow price!

I'm glad the machines I love are valued. And I like finding a good deal once in a while. But the ebay insanity is more annoying to my usage based collecting habit than my plans for retirement or whatnot. I'd love to see the "ubble" deflate some.

Re: Talking about eBay craziness ...

Message #4 Posted by [Christof \(Davis, CA\)](#) on 14 Oct 2002, 12:28 p.m.,
in response to message #1 by John Smith

I'm not a "collector" per se. I don't honestly care about boxes, sales brochures, or whatnot. I'm not even *particularly* attached to comsetics. (that being said, I do have some calcs I'm collecting because I can afford to and they are also backups to models I do use at loeast occasionally)

I just want usable machines, of the type I use. I'm enough of an explorer that this list is pretty large- basically from the 67 on. I can't afford a 71, haven't seen one in usable condition (I do like manuals of some sort. and battery coverplates) that I can afford. I'm certainly not paying the eternal \$550 buyitnow price!

I'm glad the machines I love are valued. And I like finding a good deal once in a while. But the ebay insanity is more annoying to my usage based collecting habit than my plans for retirement or whatnot. I'd love to see the "bubble" deflate some.

Send me your address

*Message #5 Posted by [Mike](#) on 14 Oct 2002, 3:22 p.m.,
in response to message #4 by Christof (Davis, CA)*

I assume you are referring to my 71B on ebay. Yes, the price is high but not higher than anyone elses. The 71 that I have is near mint, includes a card reader that can sell for \$200 (yes, that's high too but it would sell in 1 hour, if I sold it seperately). It also includes a 64K RAM (front plug-in) and mint manuals still in original shrinkwrap.

The reason for the post is to show how things are exagerated here that \$550 is not for a mere 71B.

Now, after having said all of that, send me your mailing address and I'll send you a good usable 71B for FREE. Of course, it won't include card reader, RAM modules, docs, HP-IL or case. But since you are not looking for these things, that shouldn't be a problem.

Re: Send me your address

*Message #6 Posted by [Christof \(Davis, CA\)](#) on 14 Oct 2002, 3:50 p.m.,
in response to message #5 by Mike*

I wasn't trying to suggest that there was anything fundamentally wrong with the price for that partcular one- other than the general inflation annoyances. *all* the 71B setups are pricey.

Believe me, I've drooled over that 71 setup a bit.

No problem with you getting the going rates. I just dislike the going rates.

The rest I will do in email :)

Re: Send me your address

*Message #7 Posted by [Scuba Diver](#) on 14 Oct 2002, 8:21 p.m.,
in response to message #6 by Christof (Davis, CA)*

Mike: I always enjoy looking at your auctions because of your thorough item description (including all of the pictures!) I wish all eBayers were as diligent as you...then we'd have a better idea of the quality of the item before we bought it. Unfortunately, "mint" means different things to different people (one seller once told me that his calc was mint, except for the fact that the battery cover was cracked and a few pixels on the screen didn't work!).

B.

I realize my prices are high

*Message #8 Posted by [Mike](#) on 14 Oct 2002, 10:59 p.m.,
in response to message #7 by Scuba Diver*

But my auctions are always 100% tested. Ocasionaly I'll sell something that has a problem but the problem is disclosed. Like my 9825. But what people don't see are the literally hundreds of garbage (or parts only) items that were sold originally as good and working only to show up as junk.

I enjoy restoring, repairing and finding a great deal. Some I sell, some I keep, some I give away. But there is little risk in any of my auctions.

I know what you mean by "mint" meaning different things. To me, mint means "can't tell it from one right off the assembly line." That is why I rarely use the term mint and when I do it's more likely that it is "near mint." Near mint is what I use to mean better than other people's mint:-) (not really)

Many are trying to leverage off of my prices but still don't state clearly what they are selling. Too many, "not tested" by collectors. Or "unknown condition" by collectors or other such vague statements.

Here is a tip sheet that I put together for those bidding on ebay. [Tip Sheet](#)

Maybe it will help some new ebayers.

Re: "Near Mint"

*Message #9 Posted by [Paul Brogger](#) on 15 Oct 2002, 9:41 a.m.,
in response to message #8 by Mike*

I thought "Near Mint" was a flavor for a weak, caffeine-free herbal tea . . .
{8-}

Re: Send me your address

*Message #10 Posted by [Steve Borowsky](#) on 14 Oct 2002, 11:08 p.m.,
in response to message #6 by Christof (Davis, CA)*

Christof, contact me. I have some 'paperwork' regarding the 71 you might be interested in (free of charge).

Re: Send me your address

*Message #11 Posted by [Christof \(Davis, CA\)](#) on 14 Oct 2002, 11:26 p.m.,
in response to message #10 by Steve Borowsky*

yknow, all things considered, I have to say this is definitely the overall best community of users I've ever been a part of.

Re: Talking about eBay craziness ...

*Message #12 Posted by [Vassilis Prevelakis](#) on 15 Oct 2002, 5:34 a.m.,
in response to message #1 by John Smith*

And if that were not enough, the HP 82490A, HP41 Translator Pac for the HP-71 (Item [#1386397239](#)) went for \$210.50.

Outrageous! This kind of behaviour must be outlawed. :-)

Seriously, I am a bit tired of the continuous bitching about high prices on eBay. If you don't like it, don't use it. Complaining about it won't make any difference.

People who have the time to shop around find good prices, people who don't (or do not know how to shop around), pay high prices. This is how the market works.

However, lets look at the beneficial aspects for these "high" prices. If an HP71B cost \$30.00, then it wouldn't be **worthwhile** creating an auction for the translator module. The owner would either leave it were it was, or just throw it away.

Here the difference between user and collector becomes significant. I use my HP41CXs and my HP33C every day. I wouldn't use an HP48G or an HP49GX because they are ugly, their form factor is inconvenient and I find their user interface too heavy for my casual use. I have also purchased replacements for these calculators in case they break down.

I am **not** a collector. I don't care one bit that I am using scanned manuals from the MoHPC CDROM, I couldn't care less that my HP33C does not have a battery pack, or charger (it uses two NiMH cells that are charged in an external charger). And if one of the calculators did come in a box, I'd probably throw it away (especially if it was one of these infernal styrofoam contraptions that shed bits all over the carpet).

I, therefore, do not mind getting calculators without boxes or manuals. And since I intend to use them, I don't mind the odd scratch here and there.

This allows me to purchase stuff that go for lower prices, but I have to wait longer for the right price. Patience and vigilance are eventually rewarded.

For us users, the MoPC is an invaluable resource, because it provides us with information and access to manuals and programs that are extremely difficult to find on the open market. The collector will always purchase an original manual, this means that scanning it and contributing to the MoHPC will not reduce its retail price. I encourage people who have manuals that are not in the MoHPC collection, to scan them and contribute them, as they are the lifeblood of the museum. Special thanks are, of course, due the curator.

Thanks Dave.

**vp

Re: ROMS? was: Talking about eBay craziness ...

*Message #13 Posted by [Christof \(Davis, CA\)](#) on 15 Oct 2002, 3:28 p.m.,
in response to message #12 by Vassilis Prevelakis*

>>>And if that were not enough, the HP 82490A, HP41 Translator Pac for the HP-71 (Item # 1386397239) went for \$210.50. <<<

Well- what is the status on the 71 ROMs? I'm game to try and make some rom packages, or ram packages, if I can get the bits and plans (assembly, yes. design, not yet.)

(making an HPIL module is probably a bit more involved, alas)

A little bit off-topic (was Re: ROMS? was: Talking about eBay craziness ...)

Message #14 Posted by [Juan J](#) on 15 Oct 2002, 8:53 p.m.,
in response to message #13 by Christof (Davis, CA)

Looks like the 71 ROM prices are going up. I'm one more of those who stopped trying to understand the HP market prices. We've seen \$1000 HP-65s and I myself got an expensive HEPAX module a while ago. Perhaps I contributed to inflate prices, I am afraid. On the other hand, some collectors will pay anything for an item they want: it happened to me, and can happen to anyone.

I know it is a little bit off-topic, but does anyone out there have a copy of the HP-41 Translator user's manual? I have been looking for one lately, and it is not on the Museum CDs.

Thanks in advance.

It's not just HP

Message #15 Posted by [Mike](#) on 16 Oct 2002, 10:45 a.m.,
in response to message #14 by Juan J

I saw an Altair computer go for \$5000 just about 2 weeks ago. Altair was the first but \$5000?

Re: Talking about eBay craziness ...

Message #16 Posted by [Vassilis Prevelakis](#) on 15 Oct 2002, 6:39 a.m.,
in response to message #1 by John Smith

John Smith on 14 Oct 2002, 8:13 a.m. wrote:

... people who are inflating the bubble more and more.

It won't collapse, mind you, but people will simply give HPs a miss and begin collecting more affordable machines. And some people are going to find themselves with a lot of unsold machines, after having paid preposterous prices to get them in the first place.

People ending up with unsellable overpriced stuff, is the **definition** of a burst bubble.

**vp

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

82143A printer battery packs

Message #1 Posted by [Christof \(Davis, CA\)](#) on 14 Oct 2002, 3:25 a.m.

I'm building the battery packs for some of these printers form scratch and was wondering (apologies if I missed this info on the site somewhere)

what is the polarity of the two internal connectors?

and just ot be sure, the 4 subC NiCd batteries will in fact do the trick for a battery pack?

(if I get into a groove and make a dozen of these, I'll holler)

Re: 82143A printer battery packs

Message #2 Posted by [Christof \(Davis, CA\)](#) on 15 Oct 2002, 2:27 a.m.,
in response to message #1 by Christof (Davis, CA)

It's ugly, but it works. It's *much* prettier printing than the 82240A.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 32sii replacement units

Message #1 Posted by [fred4406](#) on 14 Oct 2002, 12:38 a.m.

Does anyone out there know if HP is going to sell off the extra 32sii warranty replacement units sometime in the future. IF so, when would this happen and through what source would someone try to obtain one? I would guess that it would happen about a year after the last new 32sii was sold, but I have no idea when that occurred.

Re: HP 32sii replacement units

Message #2 Posted by [Randy Sloyer\(US\)](#) on 14 Oct 2002, 5:47 a.m.,
in response to message #1 by fred4406

If Hp follows their previous support timeline of 5 years, we should be able to buy the remaining inventory in January 2007.

They will be the new color scheme, black with teal and lavender or whatever colors they're called. Complete with painted keytops.

Re: HP 32sii replacement units

Message #3 Posted by [Dave Shaffer](#) on 14 Oct 2002, 4:30 p.m.,
in response to message #2 by Randy Sloyer(US)

These will probably show up the same way the 42S units did a while ago - as some semi-exotic HP part number and description, stumbled upon by one of our enterprising band who just happens to be checking HP's on-line catalog.

If that happens, order quickly! The 42S's sold out in a few days.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

A new family tree for HP calculators

Message #1 Posted by [jose goncalves](#) on 13 Oct 2002, 7:21 p.m.

Hello, friends

I prepared a reviewed version of my family tree of HP calculators. It is available in PDF format at

<http://www.hpmuseum.org/guest/goncalv/hptree.pdf>

I included all comments made by the friends at The Museum. So, if you have any comments, please let me know. (What do you think of it, Luiz ?)

Right now I have 27 different models in my collection plus 3 noncalculators (HP71B, HP75D and HP85). All these calculators in my collection but 4 are operating and in pretty good condition.

Re: A new family tree for HP calculators

Message #2 Posted by [Erik Ehrling \(Sweden\)](#) on 14 Oct 2002, 2:26 a.m.,
in response to message #1 by jose goncalves

Very nice! Hm... not my intention to be picky, but isn't the HP42S a descendent of the HP41CV rather than the HP41CX?

Regards, Erik

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: ebay craziness again

Message #1 Posted by [Raymond Hellstern \(Germany\)](#) on 13 Oct 2002, 7:18 p.m.

and as you can see on the pictures, the seller has more than one unit of these 32SII's. The price is not far away from those NIB 41CX's, where I think it must be several hundred units.

Raymond

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP Integrator calculator on ebay? What is this?

Message #1 Posted by [gene](#) on 13 Oct 2002, 5:03 p.m.

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1776893725>

Has buttons and prints. Any idea what this was for? What year?

Re: HP Integrator calculator on ebay? What is this?

Message #2 Posted by [Dave](#) on 13 Oct 2002, 5:57 p.m.,
in response to message #1 by gene

it is an integrator (finding the area under a curve) for a gas chromatograph instrument.

Re: HP Integrator calculator on ebay? What is this?

Message #3 Posted by [Jim L](#) on 13 Oct 2002, 7:22 p.m.,
in response to message #2 by Dave

Here's the [lower tech version](#) :-)

Re: HP Integrator calculator on ebay? What is this?

Message #4 Posted by [Mike \(Stgt\)](#) on 14 Oct 2002, 8:14 a.m.,
in response to message #1 by gene

Brings up memories as we used those for HPLC and alike 25 years ago in my apprenticeship.

Ciao.....Mike

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

ebay craziness again

Message #1 Posted by [gene](#) on 13 Oct 2002, 4:44 p.m.

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1387375864>

This is an HP-35. What do you see to make it over \$280?

Wow. Gene

Re: ebay craziness again

Message #2 Posted by [Massimo Gnerucci \(Italy\)](#) on 13 Oct 2002, 5:47 p.m.,
in response to message #1 by gene

Q: What do you see to make it over \$280?

A:joe_oil (and comicbooks1)... :)

Massimo

Re: ebay craziness again

Message #3 Posted by [Randy Sloyer\(US\)](#) on 14 Oct 2002, 5:37 a.m.,
in response to message #2 by Massimo Gnerucci (Italy)

I think it rates in the same level of foolishness as this one:

<http://cgi.aol.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1387678553>

A new high for a 32Sii? Gee, let me think (quick, give me a calculator) Thats only \$0.59 per byte of programmable memory.

And at the going rate for a 48GX, it's only 21,866% more per byte.

Kinda makes 2102's seem cheap back in the '70's.

I am I missing something here? :-)

Re: ebay craziness again

Message #4 Posted by [joe_oil](#) on 31 Oct 2002, 8:23 p.m.,
in response to message #1 by gene

Consider that HP is now HPQ.

Consider that the 1980-1990 line was superior in durability than anything since.

Consider that there are a limited number of these left in the world.

Finally, consider that HP calculators are so great that there is even a forum for discussion over the internet.

This is no crazier than the folks out buying up old Coke signs, coolers, etc. for thousands of dollars.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 41CX Byte Grabber??

Message #1 Posted by [paul](#) on 13 Oct 2002, 3:28 p.m.

How can a 'byte grabber' be assigned to a key WITHOUT doing a total memory wipe on the 41?

Thanks

Paul

Re: HP 41CX Byte Grabber??

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 14 Oct 2002, 12:26 a.m.,
in response to message #1 by paul

Hi;

I'm not gonna tell you about wiping all memory out, but I just want to add two small advice for dealing with Synth Programming on the HP41:

1 - AVOID using

[GTO] [.] [.]

(if you do not need to, do not use this sequence). I lost some synth sequences (in fact, their effect in memory) after pressing [GTO][.][.];

2 - if you have a

Re: HP 41CX Byte Grabber??

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 14 Oct 2002, 12:26 a.m.,
in response to message #1 by paul

Hi;

I'm not gonna tell you about wiping all memory out, but I just want to add two small advice for dealing with Synth Programming on the HP41:

1 - AVOID using

[GTO] [.] [.]

(if you do not need to, do not use this sequence). I lost some synth sequences (in fact, their effect in memory) after pressing [GTO][.][.];

2 - if you have any mass storage device (card reader, HPIL any) that can save status information, use it; the assignment and the byte grabber (jumper) will be saved and retrieved anytime you want to.

Does it help?

Cheers.

Re: HP 41CX Byte Grabber??

Message #4 Posted by [Chris Catotti \(Florida\)](#) on 14 Oct 2002, 5:27 p.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)

The mass storage (card reader, disk drive, tape drive) work great, The PPC ROM has a hey assignment program in the ROM. If you have a bar code reader, there are several good key assignment programs. I could look up the decimal codes for the byte grabber (BG7). Email me if you need a hard copy of the bar codes, etc for key assignment programs (free).

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Private End Code - Bumped

Message #1 Posted by [paul](#) on 13 Oct 2002, 3:26 p.m.

Hello. Sometime back I was able to get some help from this forum to disable the 'Private' end code for my 41. Since the card reader took a dump, it was necessary that I get back into the programs I had written.

Now, I again, come to this forum and ask your assistance. I would like to know how to place a 'Private' code back into the end of the two main programs that I use. I need this as a personal safeguard mainly, to avoid inadvertently placing some steps into the program that shouldnt be there, as well as stopping anyone from also doing the same thing.

Any help would be greatly appreciated.

Thank you

Paul

Re: Private End Code - Bumped

Message #2 Posted by [Mike \(Stgt\)](#) on 14 Oct 2002, 8:06 a.m.,
in response to message #1 by paul

Write it to a magnetic card with WPRV and read it back to the calculator. That's the official way ;)

Ciao.....Mike

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 35 type 1

Message #1 Posted by [Randy](#) on 13 Oct 2002, 11:37 a.m.

I have an HP 35, type 1, that I bought used in about 1973. It came with the grey plastic case, leather case, charger, manual and a packet of sales literature (I still have all of these items). I used it through college and continued to use it in the years since. It shows quite a bit of wear, but still works. The serial number is 00007. The impression of the 7 is slightly deeper than the 0's. I am interested in selling it, but am not sure how to price it, as it seems to be quite unique (type 1, EXTREMELY low serial number). Can anyone give me any advice? Thank you.

Re: HP 35 type 1

Message #2 Posted by [Glen Kilpatrick](#) on 13 Oct 2002, 2:23 p.m.,
in response to message #1 by Randy

It's hard for me to know how really special yours is (it's not of a kind that I'd buy). But An eBay search for "35" in calculators, asking for "Completed Items", such as <http://search-completed.ebay.com/search/search.dll?GetResult&query=35&from=R10&ht=1&currdisp=2&itemtimedisp=1&category2=11711&combine=y&st=2&SortProperty=MetaEndSort> suggests \$34, \$36, \$50, & \$70. And my impression is that 35's used to be worth more (so they're dropping in value, maybe). So presuming that you want to sell rather than treasure, you may want to sell sooner rather than later, and probably not expect as much as \$100....

Not even IMHO, more my SWAGuestimate.

Re: HP 35 type 1

Message #3 Posted by [Frank B. \(Germany\)](#) on 13 Oct 2002, 2:39 p.m.,
in response to message #1 by Randy

A Red-Dot HP-35 should bring several hundred dollars on Ebay!

Frank.

Re: HP 35 type 1

Message #4 Posted by [Glen Kilpatrick](#) on 13 Oct 2002, 5:08 p.m.,
in response to message #3 by Frank B. (Germany)

Looking at today's <http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/forum.cgi?read=22985> I see that they *really* are crazy on eBay, so Randy, forget my historical analysis, it's what they pay tomorrow that counts, not what they paid last week.

Re: HP 35 type 1

Message #5 Posted by [Christof \(Davis, CA\)](#) on 13 Oct 2002, 9:57 p.m.,
in response to message #1 by Randy

a plain jane HP35 with maybe a charger and no case, manuals, etc.

25-75 bucks.

an early run red dot all bugs all bits in working condition.... I cna't afford it. I'd guess that you cna find a buyer willing to offer over \$300- I've seen \$600 sales. I could be off by a factor of up to 150% easily :) and Ebay is differnet from here. I'd rather sell here for 75% of the ebay average, or even less if I got a good deal in the first place.

The price is going to vary, but it's not going to be hard to move that. Especially if you trade for a pile of toys.(especially if it really does beat the earliest known serno on this site, which is: 1143) but check the decoding! you may and probably do have the 7th of a given production week, not necessarily the first production week.

My guess is that by morning you will have gotten at least three emails offering fairly reasonable sums.

Re: HP 35 type 1

Message #6 Posted by [Randy](#) on 13 Oct 2002, 10:36 p.m.,
in response to message #5 by Christof (Davis, CA)

You are correct. I misread the serial no. The printed portion is, in fact, 1143A, and the stamped portion is 00007. Thanks for your insights!

Re: HP 35 type 1

Message #7 Posted by [Christof \(Davis, CA\)](#) on 14 Oct 2002, 3:22 a.m.,
in response to message #6 by Randy

you have 1143A00007?

wow.

I'd like to just hold it for a while. That's pretty cool

Re: HP 35 type 1

Message #8 Posted by [Raymond Hellstern \(Germany\)](#) on 14 Oct 2002, 7:33 a.m.,
in response to message #5 by Christof (Davis, CA)

Hi,

I think the serial number part before the country code (1143) was identical on most if not all Red Dots (and later models). This part of the plate was printed...

Two of my 35's have 1402, another has 1302...

Raymond

Re: HP 35 type 1

Message #9 Posted by [Rick](#) on 14 Oct 2002, 9:05 a.m.,
in response to message #8 by Raymond Hellstern (Germany)

How and why do you guys know so much about some old calculator? You guys are a dieing breed... but thank God there are still guys like you around that can answer questions like this.

Our knowledge

Message #10 Posted by [thibaut.be](#) on 14 Oct 2002, 9:37 a.m.,
in response to message #9 by Rick

The knowledge of old HP calcs of this Community is 1000 better than HP's own knowledge

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Data transfer from HP-41 to HP-200LX via IR link

Message #1 Posted by [Emmanuel](#) on 13 Oct 2002, 3:14 a.m.

I would like to know if something exists on HP-200LX in order to receive correctly HP-41 data send via infrared. Hook- μ P IR/RS232c and HP82164A IL/RS232c interfaces work perfectly but they aren't handled! Thanks for assistance.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Statistics on HP15C

Message #1 Posted by [Alexandre KAMP](#) on 12 Oct 2002, 5:06 p.m.

Can anyone remind me how I can enter (xi,yi) datas on my HP15C and then find out the statistics results : - Sum(xi) - Sum(yi) - Sum (xi*yi) - and so on ...

Re: Statistics on HP15C

Message #2 Posted by [Tom Sherman \(Maine\)](#) on 12 Oct 2002, 5:22 p.m.,
in response to message #1 by Alexandre KAMP

Entering statistical data on HP-15: y value (Enter) x value (SUM+) key to the left of + repeat as many times as you have data points

Data are stored in the following registers: R2: n, # of data points R3: sum of x values R4: sum of x^2 R5: sum of y R6: sum of y^2 R7: sum of xy

Recall data by pressing RCL key followed by number of register.

Sorry about the bad formatting of this posting -- I don't know how to correct it.

Improving your posts' view (was Statistics on HP15C)

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 14 Oct 2002, 11:26 p.m.,
in response to message #2 by Tom Sherman (Maine)

Hi, Tom;

if you have the time for it, read [this here](#). If not, here is the tip:

if you have a text you want to be seen exactly as you type it here, with all line-feeds and monospaced spaces, simply put a [pre] before its first character and a [/pre] after its last character. Your text would look like this:

R2: n, # of data points
R3: sum of x values
R4: sum of x^2
R5: sum of y
R6: sum of y^2
R7: sum of xy

To accomplish this, you type:

```
[pre]R2: n, # of data points
R3: sum of x values
R4: sum of x^2
R5: sum of y
R6: sum of y^2
R7: sum of xy[/pre]
```

Hope it helps.

Re: Statistics on HP15C

Message #4 Posted by [Stephan](#) on 12 Oct 2002, 5:38 p.m.,
in response to message #1 by Alexandre KAMP

To clear stat registers press: f CLEAR Sigma

To enter pairs (xi, yi) press: yi ENTER xi Sigma+

RCL 2: number of elements (pairs) RCL 3: sum(xi) RCL 4: sum (xi^2) RCL 5: sum (yi) RCL
6: sum (yi^2) RCL 7: sum(xi*yi)

g x: average x $x \leftrightarrow y$: average y

Linear regression $y = m * x + b$

f L.R. returns b $x \leftrightarrow y$ returns m

Re: Statistics on HP15C

Message #5 Posted by [thibaut.be](#) on 13 Oct 2002, 2:51 a.m.,
in response to message #4 by Stephan

look at the back of your 15C : there is a summary of all stats registers.

Re: Statistics on HP15C

Message #6 Posted by [R Lion](#) on 17 Oct 2002, 2:12 p.m.,
in response to message #5 by thibaut.be

Perhaps someone could be interested... I've some own programs for statistics for the 15C:

Entering Data with frequencies (one or two variables) Confidence interval for mean and sample size Confidence interval for proportion and sample size Binomial distribution B (n,p) Normal standard distribution and inverse Normal s. distr.

If you want, feel free for mailing me

Raul

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Private end code for 41 CX

Message #1 Posted by [Paul](#) on 12 Oct 2002, 3:57 p.m.

Hello. Sometime back I was able to get some help from this forum to disable the 'Private' end code for my 41. Since the card reader took a dump, it was necessary that I get back into the programs I had written.

Now, I again, come to this forum and ask your assistance. I would like to know how to place a 'Private' code back into the end of the two main programs that I use. I need this as a personal safeguard mainly, to avoid inadvertently placing some steps into the program that shouldnt be there, as well as stopping anyone from also doing the same thing.

Any help would be greatly appreciated.

Thank you

Paul

Re: Private end code for 41 CX

Message #2 Posted by [Raymond Hellstern \(Germany\)](#) on 12 Oct 2002, 10:31 p.m.,
in response to message #1 by Paul

Hi,

if you have a card reader or tape drive or disc drive, you could simply save your programs private, then reading them from the medium.

Twenty years ago I wrote two small assembler routines to make a program private and vice versa, but for this you need a ROM simulator or a RAM Box.

So here's a nice method to produce a PRIVATE program if you have the 'byte grabber' assigned to a key.

1. In PRGM mode, backarrow the END of your program. 2. Key in: RCL IND 66 3. then: RCL 77 4. Perform two times BST 5. Activate USER mode 6. Press the key where you assigned the byte grabber 7. Delete the resulting ALPHA line 8. Deactivate USER mode (optional) 9. GTO..

This information was taken from the HP-41 Synthetic Quick Reference Guide by Jeremy Smith.

I leave it as a nice puzzle to you to find out what the byte grabber is, and how you can assign it to a key;-)

Regards,

Raymond

Re: Private end code for 41 CX

*Message #3 Posted by [Paul](#) on 12 Oct 2002, 11:46 p.m.,
in response to message #2 by Raymond Hellstern (Germany)*

Raymond, thank you for your response. Is the 'byte grabber' the same as the Byte Jumper mentioned in the 41 synthetic programming?

I don't mind a puzzle, but a non puzzle answer would be real nice right about now.

I am checking the items you mentioned now.

Paul

Re: Private end code for 41 CX

*Message #4 Posted by [Paul](#) on 13 Oct 2002, 12:12 a.m.,
in response to message #3 by Paul*

Raymond, looking at the byte grabber instructions, it seems I would need to do a master clear of program memory to assign the BG to a key.

Since I do not have any means to store the programs as it is, other than having them written down in longhand, I would really like to be able to get the byte grabber assigned without having to do a memory clear.

Is there another way to accomplish this?

Thanks

Re: Private end code for 41 CX

*Message #5 Posted by [Raymond Hellstern \(Germany\)](#) on 13 Oct 2002, 7:07 p.m.,
in response to message #4 by Paul*

Hi,

there are several options. The easiest is shown near the bottom of this text.

1. If you have either - a CCD ROM , PPC ROM or similar, - a HEPAX module - access to some kind of RAM box - ...

you could assign the byte grabber code or manipulate the bit in the END directly.

2. If you have an HP-71B, and - your files on an HP-IL drive

you could read the file(s) into RAM, then manipulate them with the POKE function of the HP-71, then write them back to the medium.

But the easiest way is as follows:

Since you unprotected your HP-41 programs, just write them to disk/tape with WRTPV, then delete them on the HP-41, and read them back.

I'd suggest the following method:

Use WRTA (WriteAll) with a suitable name in ALPHA. I'd do this twice, with different names in ALPHA, so you have a backup of your backup.

Then clear your HP-41, and make the byte grabber assignment. Save this via WRTK, having a suitable name in ALPHA, then restore your calc with READA, again with the appropriate name in ALPHA. After that, you can use READK to restore your byte grabber. But note that this overwrites your other existing key assignments.

However, now you can grab bytes at will, but be careful, the byte grabber is a nice tool to wipe out memory if used carelessly;-)

Raymond

BTW: You shouldn't use so many threads for the same subject;-)

Re: Private end code for 41 CX

*Message #6 Posted by [Paul](#) on 13 Oct 2002, 8:31 p.m.,
in response to message #5 by Raymond Hellstern (Germany)*

Raymond, I have read that wiping memory was one way of assigning the BG, but there is another way that has more extensive steps to it that does not need a memory wipe.

Do you know what that is?

Re: Private end code for 41 CX

*Message #7 Posted by [Steve \(Australia\)](#) on 13 Oct 2002, 11:58 p.m.,
in response to message #6 by Paul*

Check out the articles forum for a quick easy way to remove PRIVATE.

I posted it there quite some time ago...

Re: Private end code for 41 CX

*Message #8 Posted by [Raymond Hellstern \(Germany\)](#) on 14 Oct 2002,
7:21 a.m.,
in response to message #7 by Steve (Australia)*

>Check out the articles forum for a >quick easy way to remove
PRIVATE. > yes, but Paul wants to *set* PRIVATE again.

>I posted it there quite some time ago... > You mean this thread?

[http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/archv008.cgi?
read=20456](http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/archv008.cgi?read=20456)

Raymond

Re: Private end code for 41 CX

*Message #9 Posted by [paul](#) on 14 Oct 2002, 10:50 a.m.,
in response to message #7 by Steve (Australia)*

Steve said "Check out the articles forum for a quick easy way to remove PRIVATE.

I posted it there quite some time ago..."

Steve, I was the one that originally posted sometime back asking how to remove the PRIVATE instruction. Your response was perfect then.

Now I need to once again manipulate the 41 to *add* a PRIVATE at the end of the programs. I do not have any storage devices, so I was hoping that there was a Bug that would allow me to make a regular .END. into a PRIVATE.

I would like to be able to do this without doing any Memory Lost things, like making a Byte Grabber needs.

Do you know of a way?

Thanks

Paul

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

hp 67 battery pack and charger lost

Message #1 Posted by [David](#) on 11 Oct 2002, 6:59 p.m.

I have an hp67 but no charger or battery pack. Could someone point a new person to a supplier of each? or maybe some homemade concoctions out there.

thanks

Re: hp 67 battery pack and charger lost

Message #2 Posted by [Ellis Easley](#) on 11 Oct 2002, 9:21 p.m.,
in response to message #1 by David

General information about chargers and batteries is available in this Museum page:

<http://www.hpmuseum.org/collect.htm#batts>

Ebay and the Museum Classified Ads are two places where you can find them to buy.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Digital Clock Design

Message #1 Posted by [Paul Brogger](#) on 11 Oct 2002, 3:11 p.m.

I couldn't resist sending this [link](#) along . . .

I wonder if the technology has applications in the world of electronic calculators?

Re: Digital Clock Design

Message #2 Posted by [Larry Corrado](#) on 11 Oct 2002, 10:58 p.m.,
in response to message #1 by Paul Brogger

LOL

I'm not sure about its use in calculator design, but that is soooooo funny. I'm still laughing 5 minutes later. It reminds me of what the readout on my HP22 does when I do a loan payment calculation.

thanks for sharing that.

Re: Digital Clock Design

Message #3 Posted by [thibaut.be](#) on 12 Oct 2002, 1:56 a.m.,
in response to message #2 by Larry Corrado

Have you tried setting your clock at PM 11.59, date 12/31/99 ?

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

48G+ versus 32SII

Message #1 Posted by [Mark Simon](#) on 11 Oct 2002, 2:56 p.m.

I'm looking for some opinions on these calculators.

I was going to buy a new calculator primarily for engineering problems and to use during my PE license preparation and exam.

I don't think I need the graphing functions, but since HP does not make anymore RPN calculators I figured I would buy a 48G+

I think a 32SII would be more than adequate, but they are no longer in production and I can get a 48GX or 49G for less money.

Do the 48G+, 48GX, and 49G do essentially all the same things a 32SII can do?

I will be a user, and not a serious programmer. I just like the RPN entry better than algebraic and would prefer that. After I finish my PE, I will use the calculator sparingly as my computer does most of my work these days - unfortunately they won't let you bring a computer to the PE test.

Any opinions would be greatly appreciated.

mark

Re: 48G+ versus 32SII

Message #2 Posted by [Ron Ross](#) on 11 Oct 2002, 4:06 p.m.,
in response to message #1 by Mark Simon

I have both and I actually like the 48 a bit better, WHEN ITS ON MY DESK. However, that said, I prefer to use the 32 for normal use, especially away from my desk. It is a pocket calculator, well built and not bulky, like the 48. But the 48/49 has every conceivable (damn close anyway) unit and conversion as well as sophisticated math capabilities that the 32 just doesn't have. Having a 48 is like having a small reference library at your finger tips.

And I like the 48 over the 49 for normal engineering use also (the enter key is where it is supposed to be and the keyboard is better). But the 49 has much more memory and faster graphics.

And you other point, a 48 is actually less than a 32 in todays market.

Re: 48G+ versus 32SII

Message #3 Posted by [J. Osugi \(European Union\)](#) on 11 Oct 2002, 5:54 p.m.,
in response to message #1 by Mark Simon

The best choice is to get both the calculators. ;-) If you need to choose just one of them, go ahead with the HP48G+ (or, better, HP48GX).

--

Re: 48G+ versus 32SII

Message #4 Posted by [Tom Sherman](#) on 11 Oct 2002, 7:32 p.m.,
in response to message #3 by J. Osugi (European Union)

How about a TI-83 Plus?

When the stones stop falling ... let me say this:

My first calculator was an HP-25 back in the mid-1970's, and I have owned, used, and loved 21 HP models altogether, including the 48SX, 48GX, and 32SII. But that is because I am nutty, like perhaps a few others on this forum ...?

Don't just figure the dollars spent on a new calculator. Consider your time as well. If you get an HP-48, you may have to give up your engineering studies in order to understand your

calculator. But if you like messing with calculators as entertainment, as some of us do, then the HP-48 is a great investment. It comes with a mediocre manual, so that you will have the fun of figuring things out for yourself.

HP used to write beautiful manuals. The one that came with my HP-25 was brilliant. But they gave up years ago trying to educate anyone in the use of their products.

TI, on the other hand, has grabbed the educational market by paying attention to educational needs and principles. They have found teachers to help write their manuals, and the results are as fine today as HP's used to be.

The manual that comes with the TI-83 is beautiful (but be careful to get the real manual and not a CD version -- TI also is trying to cut corners). With the manual as a tutor, one can master the TI-83 in a few hours, and probably learn/review some useful math along the way.

I had better stop writing and start running, and just shout over my shoulder that, yes, I still prefer RPN to Algebraic for simple things, but prefer to write science and math programs these days in BASIC (which the TI-83 has). And if I could keep only one of all my HP and now TI calculators, it would be the HP-71.

Remorsefully, and in penitence, Tom

Re: 48G+ versus 32SII

*Message #5 Posted by [Masao Kinoshita](#) on 11 Oct 2002, 9:21 p.m.,
in response to message #4 by Tom Sherman*

>>I still prefer RPN to Algebraic for simple things

That's funny, I can accept algebraic (or arithmetic) entry for really simple 4-banger stuff, but really prefer RPN if the equation starts to get even a little bit complicated.

Somebody on this forum said something to the effect that both methods of entry give correct results; but I thought that RPN was supposed to give more reliable results, or was this just against those old seven-segment inorganic LED (ILED :-) models?

I used to be a lab bench scientist and would truly depend on my 48SX (and then my 48GX), but more recently I've become a SAS programmer and have been using my 32Sii. Using the 32Sii's register memories is much more straight forward than the 48's, the numbers in the display are larger and it fits into my small briefcase better. But don't expect to be playing chess or Tetris™ on a 32. Just kidding...

Re: 48G+ versus 32SII

Message #6 Posted by [Erik Ehrling](#) on 12 Oct 2002, 4:14 a.m.,
in response to message #1 by Mark Simon

Now when the prices for the HP32SII (on Ebay etc.) have become outrageously high I cannot see any reason for not going the full way and get a HP42S instead of a HP32SII. This would give you a two line display and more memory while still retaining the down-to-earth usability of the RPN programming of the 32SII.

/Erik Ehrling

Re: 48G+ versus 32SII

Message #7 Posted by [Sampy](#) on 12 Oct 2002, 5:35 a.m.,
in response to message #1 by Mark Simon

For an exam I'd go for the 32II over the 48 because everything is there in front of you on the keyboard, it does not pause or crash and if you are new to both calcs the 32II will be easier to get along with.

Are there any restrictions on what calc you can use in the exam? The HP48/9 could allow a user to 'cheat' by entering large ammounts of text. However some exams are 'open' and allow text books etc. so this may be OK.

Just my 2 cents worth.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP infrared printer

Message #1 Posted by [Tony Thimet](#) on 11 Oct 2002, 11:28 a.m.

What is the difference between a HP-82240A and HP-82240B? I gather that those are infrared printers but what HP models can work with them? If I want to use such an IR printer with the HP-41 I need an IR interface module, right? What's the part number for it? Many thanks, Tony

Re: HP infrared printer

Message #2 Posted by [Scuba Diver](#) on 11 Oct 2002, 12:32 p.m.,
in response to message #1 by Tony Thimet

The "A" and "B" models are almost identical; they both work with the same models.

As far as I know, the only difference is that the "B" model uses the batteries more efficiently by putting the printer into sleep mode after a set amount of inactivity.

(If anyone else knows of any differences, please mention them!)

I know that these printers work with the 28C/S, 17B, 17BII, 18C, 19B, 19BII and the 48S/Gs... any printer with IR capabilities.

I don't have a 41, so I don't know if they are compatible.

B.

Re: HP infrared printer

Message #3 Posted by [thibaut.be](#) on 11 Oct 2002, 2:18 p.m.,
in response to message #2 by Scuba Diver

AFAIK the B model has an extended character set.

Both models work with all HP calculators fitted with a IR sender.

Re: HP infrared printer - one bit more

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 11 Oct 2002, 3:23 p.m.,
in response to message #3 by thibaut.be

Hi;

add to the already pointed differences, a better, enhanced, readable text printout (any listings) for the "B" model. In this model, there is an extra blank dot-line between each character line (in fact, characters are "shrunk" 1 line).

Re: HP infrared printer

Message #5 Posted by [jose goncalves](#) on 11 Oct 2002, 4:09 p.m.,
in response to message #2 by Scuba Diver

AFAIK, model B will be able to use some different (extra) alphabets and sigs. I read about somewhere in past threads in The Museum.

I own them both and I know you cannot tell the difference from their external appearance.

Regards

Re: HP infrared printer

Message #6 Posted by [db\(martinez,california\)](#) on 11 Oct 2002, 11:25 p.m.,
in response to message #1 by Tony Thimet

the ir module # is 82242A

Re: HP infrared printer

Message #7 Posted by [David Smith](#) on 12 Oct 2002, 11:47 a.m.,
in response to message #6 by db(martinez,california)

The IR module is also VERY hard to find and very expensive whn you do find them. You can buy several 82143A wired up printers for the cost of one IR module.

Re: HP infrared printer

*Message #8 Posted by [Tony Thimet](#) on 15 Oct 2002, 7:22 a.m.,
in response to message #7 by David Smith*

Thanks everybody for your information!!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: machine epsilon

Message #1 Posted by [Pascal](#) on 11 Oct 2002, 8:08 a.m.

Hi,

$2^{(-37)}$ is 7.3E-12, and $2^{(-30)}$ is 9.3E-10. Which makes sense, because the 42S has a 12 digits mantissa and the 41 has got 10. Your program however is based on the assumption that the machine under test is using a 2's complement mantissa, which is not the case for the HP calcs except maybe the 71 and the 30S (correct me if I'm wrong). They're BCD based, so the epsilon should be 1E-11 and 1E-9, respectively.

NB: The way to check this is to evaluate $[(1+eps)-1 == eps]?$, where eps is the number mentionned above.

So the next "challenge" would be to write a small program to detect whether your machine is BCD or 2's complement based :-)

Pascal

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP41CX overlays and HP-IL (long)

Message #1 Posted by [Christof \(Davis, CA\)](#) on 10 Oct 2002, 10:17 p.m.

My first question is pretty basic, how were the blank keyboard templates packaged and sold by HP? I'm trying to hunt some down and thought it would be easier if I had a part number or something. Alternatively, if anyone has a pile....

Second: I'm attempting to "upgrade" my old VW van. (VW's are very hackable) It currently has a mounted tadpole laptop and some assorted connections for sound and cd playing, but I'm thinking of adding an onboard loop.

Regardless of the control device (which will be either a 41 or a 75D or both, be even better if I can find a 75 no D somewhere)-

1. What ideas does anyone have for actual useful stuff to do? I've got ideas for light and accessory controls (this is a "westy", the camper version), some data recording (mileage, gas, oil) and maintenance tracking, and perhpas an interface to stereo controls (that's very tough, as I would have to build an HP-IL/IR converter and decode the IR remote, or bypass the wiring for it at least. While this is all about fun and making the van more worthy, I would like to point to actual uses. And I'm aware that I can do a lot of this easily with PC hardware, but I'm exploring low power use options and smaller scale buildouts.
2. I am not quite at a level to design some of what I want, and I'm not familiar enough with all the hp-il and 41 books out there to know if there aren't some plans for this. I can assemble most anything short of small SMD hardware (I tried, I'm sloppy, or I need a good temperature controlled weller instead of my voltage controlled stuff), and I know the theory of what goes on inside, but that's about it.
3. Not specifically for this project, but as a possible add on, I'd like to know if anyone ever did any work on controlling telescopes via HP-IL. I can see ways to tie existing equipment into the 48 series, though I'd have to get all the pinouts sorted. (I know some models are controlled by rs-232)
4. Definitely related to this project, is it plausible to make an HP-IL to rs-232 conversion box

cheaper than the \$200 they seem to be selling for on ebay all the time?

(I've considered HP-IL over repeater net, too. But I have no idea what I'd do with it)

-C

Re: HP41CX overlays and HP-IL (long)

Message #2 Posted by [Andreas Stockburger \(EU\)](#) on 11 Oct 2002, 2:24 p.m.,
in response to message #1 by Christof (Davis, CA)

Hi,

do you mean

<http://cgi.ebay.de/ws/eBayISAPI.dll?ViewItem&item=2060080903> <http://cgi.ebay.de/ws/eBayISAPI.dll?ViewItem&item=2060083489> <http://cgi.ebay.de/ws/eBayISAPI.dll?ViewItem&item=2060086094>

Best regards

Andreas

Re: HP41CX overlays and HP-IL (long)

Message #3 Posted by [db\(martinez,california\)](#) on 11 Oct 2002, 11:38 p.m.,
in response to message #1 by Christof (Davis, CA)

good luck on the rebuild - just don't change the sticker on the back window.

Re: HP41CX overlays and HP-IL (long)

Message #4 Posted by [Christof \(Davis, CA\)](#) on 12 Oct 2002, 2:27 a.m.,
in response to message #3 by db(martinez,california)

nah, the sticker stays. I may make an HP41 sticker to go beside it, though.

The data tracking codebase is fairly simple thus far, I think I'm going to start having that in there and add the HPIL devices "as I go".

Is there any set of plans or documentation floating around to build an RS232/HPIL interface?

Re: HP41CX overlays and HP-IL (long)

Message #5 Posted by [Raymond Hellstern \(Germany\)](#) on 12 Oct 2002, 10:35 p.m.,
in response to message #4 by Christof (Davis, CA)

Hi,

> Is there any set of plans or documentation >floating around to build an RS232/HPIL
interface? >

maybe Christoph Klug could be able to answer you on this question...

Regards,

Raymond

Re: HP41CX overlays and HP-IL (long)

Message #6 Posted by [Christoph Klug](#) on 14 Oct 2002, 5:26 a.m.,
in response to message #5 by Raymond Hellstern (Germany)

Dear Christof,

it seems that Raymond Hellstern gives you the best response !

Much better than the IL/RS232 Interface is the HP82166A IL-Converter for hardware interfacing. For this device I developed two powerfully interface systems called I/O-Board and IL2000 system. Both are battery powered and includes the needed control input/output lines you need for your exotic car interfacing project. Also detailed documentation including HP-41 software routines and hardware circuit diagrams is available. Take this proved platform and finish your application in short time !

Best wishes from Germany - Christoph

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-41CV decimal

Message #1 Posted by [Jim Medanich](#) on 10 Oct 2002, 7:41 p.m.

How to get decimal to display instead of comma?

Re: HP-41CV decimal

Message #2 Posted by [Randy Sloyer\(US\)](#) on 10 Oct 2002, 7:58 p.m.,
in response to message #1 by Jim Medanich

Set Flag 28 = 1 makes the decimal point the radix and comma the separator.

When Flag 28 = 0, its the opposite, what you have now.

Flag 29 controls the separator, on/off.

Re: HP-41CV decimal

Message #3 Posted by [Jim Medanich](#) on 10 Oct 2002, 8:13 p.m.,
in response to message #1 by Jim Medanich

Thank you Randy. Works perfectly.

Next Question: I have Financial pac1. How to initialize programs. In the past I switched to user mode and entered shift and the program name from the overlay but this no longer starts the program. Is there something else to do to start the packaged programs?

Financial Pack (was HP-41CV decimal)

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 11 Oct 2002, 12:41 a.m.,
in response to message #3 by Jim Medanich*

Hi;

the primary programs for the Financial Pack are:

MONEY in normal mode, not USER, type:

[XEQ] [ALPHA] MONEY [ALPHA] .

After this, all labels shown in MONEY overlay become active (USER mode on)

IRR Internal Rate of Return

[XEQ] [ALPHA] IRR [ALPHA]

MIRR Modified IRR

[XEQ] [ALPHA] MIRR [ALPHA]

NPV (same key sequence, with NPV instead of MIRR) Net Present Value

AMORT Amortization

SL Straight Line Depreciation

DB Declining Balance Depreciation

SOYD Sum-Of-the-Years'-Digits Depreciation

BOND in normal mode, not USER, type:

[XEQ] [ALPHA] BOND [ALPHA]

After this, all labels shown in BOND overlay become active (USER mode on)

DAYS Days between dates

Executing any of these programs will lead you to (it seems you know that) related interactive computations. Note that some sets are changed by the programs (decimal places, fixed notation, among others). Also, if you have any assignments to programs or functions related to the keys on the overlays, these assignments will prevail (these keys must be "cleared" so they will become active)

If you still have any doubts, post again or e-mail me.

Best regards.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

EduCalc "Link" software

Message #1 Posted by [andy](#) on 10 Oct 2002, 5:25 p.m.

I am looking for the EduCalc "link" software for use on my HP 110A. I have a version of it, however, when I run it on my 110A it displays the message "this version of link is only for the hp 150". Has anyone else encountered this?

Does anyone out there have experience with "link" software? It appears that it would be quite useful if I could get it to work.

Thanks,

Andy

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

programmazione con il pc per la hp49g

Message #1 Posted by [dennis](#) on 10 Oct 2002, 12:07 p.m.

Salve a tutti, possiedo la hp 49g e vorrei riuscire a scrivere i programmi col notepad, wordpad, edit per dos, o qualsiasi programma che permetta di inserire i caratteri speciali come « ». Purtroppo ce ne sono alti che non possono essere scritti nemmeno dall'edit per dos. (ad esempio ->).

1) Esiste un modo per scrivere i programmi sul computer e poi trasferirli sulla hp49g? E'più pratico scriverli prima sul computer invece che sulla calcolatrice.

2)Prima di trasferire il file dal PC alla hp49g è possibile tesare il programma?

Grazie Ciao

Re: programmazione con il pc per la hp49g

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Oct 2002, 1:25 p.m.,
in response to message #1 by dennis

Hi;

when the HP48SX was released, HP offered a development environment for the PC (DOS). This environment was only for writing (HP Journal V42#3, June 1991, front cover photo).

There are some emulators for the HP49G that can be downloaded and put to run on a Windows environment. These emulators will run your application. I once downloaded a program in the HP49G to the computer and ran this program in the 49 emulator. It worked fine, a bit faster.

The emulator was available at the Hewlett-Packard page, but if you do not find it there, send me an e-mail.

Best regards.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-28S Beeper

Message #1 Posted by [MJ Meiners](#) on 10 Oct 2002, 9:32 a.m.

Does anyone know how to turn the "Beep" off on the HP28-S? I have long ago lost my instruction manual. I have my PE exam in a couple of weeks and they will not allow my calculator beeping every time I enter something incorrectly. Thanks in Advance

Re: HP-28S Beeper

Message #2 Posted by [JR\(Italy\)](#) on 10 Oct 2002, 9:50 a.m.,
in response to message #1 by MJ Meiners

Set FLAG 51 to quite the beeper.

Regards

JR

Re: HP-28S Beeper

Message #3 Posted by [MJ Meiners](#) on 10 Oct 2002, 5:45 p.m.,
in response to message #2 by JR(Italy)

Much Appreciated!!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

decimal point placement

Message #1 Posted by [karen](#) on 9 Oct 2002, 11:58 p.m.

anyone remember how to change the decimal point on the 11c?

Re: decimal point placement

Message #2 Posted by [Scuba Diver](#) on 10 Oct 2002, 12:11 a.m.,
in response to message #1 by karen

Well, I know that on the 12C, you start with the machine turned off, then turn it on while holding down the decimal point button.

That should work! Brendan

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Wow. HP-34c on ebay \$300

Message #1 Posted by [Gene](#) on 9 Oct 2002, 10:19 p.m.

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1386167808>

What's next?

Re: Wow. HP-34c on ebay \$300

Message #2 Posted by [Christof \(Davis, CA\)](#) on 10 Oct 2002, 2:05 a.m.,
in response to message #1 by Gene

If I was an real jobber, I'd email this guy and offer everything except my 5 core machines for \$2500 or something.

Re: Wow. HP-34c on ebay \$300. There are better deals.

Message #3 Posted by [Anonymous](#) on 10 Oct 2002, 4:44 a.m.,
in response to message #1 by Gene

Perhaps this? You just have to be patient and continue watching out for the good deals.

To prevent people asking me to sell it, I will not identify myself this time.

<http://cgi.ebay.de/ws/eBayISAPI.dll?ViewItem&item=2060447053&rd=1>

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Converting 512K or 1M cards

Message #1 Posted by [Victor Maletic](#) on 9 Oct 2002, 4:01 p.m.

I have need for 20 to 40 128K memory cards for our HP48GX's If I am not able to obtain them, is there a way to sever some of the pin connections on a 512K or 1M card to make it operate like a 128K card in slot 1?

I need the 128K cards for their merging capability with Port :0:.

We run large custom made RPL programs that make calls to local variables and subroutines

Re: Converting 512K or 1M cards

Message #2 Posted by [Ron Ross](#) on 9 Oct 2002, 5:32 p.m.,
in response to message #1 by Victor Maletic

I believe you can use a 512K card in the 128K slot and merge it as you intend. You are just wasting the extra ram that is available. The extra lines cannot be addressed and therefore not an issue. Try it with a Card to verify.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 67 LED Problem

Message #1 Posted by [Michael D. Robinson](#) on 9 Oct 2002, 2:24 p.m.

I have just plugged in and turned on my HP 67 for the first time since the early 1980s. It works, but the display is faulty: the left side of each character is missing, thus the '9', '3', and '8' all look the same and all other numbers are missing their left-most components.

(1) Any idea why this is happening, and (2) more important, how can I fix this display fault?

Michael

Re: HP 67 LED Problem

Message #2 Posted by [Larry M.](#) on 9 Oct 2002, 11:23 p.m.,
in response to message #1 by Michael D. Robinson

Hello:

See the thread which begins at:

<http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/archv006.cgi?read=11264>

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Can all HP42S version be upgraded to 32K?

Message #1 Posted by [Erik Ehrling](#) on 9 Oct 2002, 2:01 a.m.

Hi,

I have earlier upgraded a rev C (Singapore built) HP42S to 32K by using the Paul Brogger/Tony Duell approach, but I am now experiencing serious problems with a rev A (American built) HP42S that I am currently trying to upgrade. (When I try to turn on the calculator the beeper sounds furiously and it does not respond to any keypresses...)

Has anybody out there successfully upgraded a rev A HP42S to 32K?

//Erik Ehrling

Re: Can all HP42S version be upgraded to 32K?

Message #2 Posted by [Randy Sloyer\(US\)](#) on 9 Oct 2002, 9:21 a.m.,
in response to message #1 by Erik Ehrling

Yes, I added 32k to one that I sold to Christof. I don't remember specifically checking the ROM version but it was an early USA model with the flush LCD screen, so I'm pretty sure it was an "A" version. I remember the solver menu was different than my newer Singapore models.

I had no problems with the mod.

Is the ram chip the same as you used earlier? Know the mfg/pin out to be correct? What you describe is what I got once with a bad ram chip.

Re: Can all HP42S version be upgraded to 32K?

Message #3 Posted by [Christof \(Davis, cA\)](#) on 9 Oct 2002, 2:38 p.m.,
in response to message #2 by Randy Sloyer(US)

A 7

Just ran another full test and it's 4.0

I've got maybe 6k of code in it right at the moment, wishing I had a less manual input system :)

Re: slef test on 42S- differneces in ROMs?

Message #4 Posted by [Christof \(Davis, CA\)](#) on 10 Oct 2002, 2:02 a.m.,
in response to message #3 by Christof (Davis, cA)

Comparing side by side, keystroke by keystroke, I'm getting some different results here. This only covers an A and C rev, since I can't find a B rev and probably couldn't afford it right now.

42S A rev: 42S B rev: EXIT&LOG EXIT&LOG + + (DISP) SPD 1048928 (DISP) SPD 1047776

(I'm curious as to what exactly that means)

After kbd test, the A rev reports

OK-42S-E

The C rev the same, but with the printer and beep annunciators also on. (moth models have the arrows on)

Does the difference mean anything?

-C

SPD Self Test

*Message #5 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 13 Oct 2002, 5:16 p.m.,
in response to message #4 by Christof (Davis, CA)*

I was always puzzled by the SPD XXXXX output of the self tests, the value varies slightly from trial to trial, and only some values are possible (I mean frequently observed). SPD may mean Speed (?), I noticed the 48G+ brings a value almost 4 times as high as the 42. I was unable to firmly correlate the SPD values with battery charge status.

Supposing it is kind of a timer or counter related to CPU clock or instruction execution speed, I wonder *what* could be the reference for such measurement, since the 42S has no quartz crystal to measure against.... May it be a strange case of self-reference?

In my 42S, usual values are in the form 104XXXX, the values of XXXX are 6624, 7200, 7776, 8352, 8928, 9504; 7776, 8352 and 8928 are most frequent. It seems that the "quantum" in this scale is 576, which is $512+64$...

In the 48G+, for values in the form 36XXXXX, some values for XXXXX are 83056, 83472, 85216, 86080, 86960, 87824, 88704, 89568, 90448, 91312, 93936. It seems to vary more than in the 42S, and there is not a clear step, the smallest one I saw is 416, but most are either 864 or 880.

Re: SPD Self Test

*Message #6 Posted by [Raymond Hellstern \(Germany\)](#) on 13 Oct 2002, 6:31 p.m.,
in response to message #5 by Andrés C. Rodríguez (Argentina)*

Hello,

the SPD value actually is the current speed at the moment of measurement.

I don't know exactly if the 42S has a quartz oscillator, the very varying speed displays speak against it, but since the 17BII has timer functions, and the 42S is nearly the same hardware (except the language ROM), it could be possible.

Nevertheless the machine has some kind of oscillator or clock generator to keep it working, and it definitely has some internal timers. So it isn't really a problem for the machine to measure its own speed;-)

Regards,

Raymond

Re: SPD Self Test

*Message #7 Posted by [Randy Sloyer\(US\)](#) on 13 Oct 2002, 7:07 p.m.,
in response to message #5 by Andrés C. Rodríguez (Argentina)*

The 42S, 17B and others do indeed have a 32768hz quartz crystal controlled oscillator. You can see these crystals as a small round can on the PC boards of a Pioneer to the right of the CPU chip.

The Saturn CPU uses a x32 internal phase locked loop to generate the nominal 1 mhz clock that you see displayed during the speed test. The result you see displayed is how many clocks occur for given number of fixed cpu instructions. The 48 series machines use a similar cpu at 4 mhz.

It is also interesting to note that the IR printers (82240A/B) use a one clock wide 30.5 us pulse rate burst to send data over the IR link. This bit rate is in direct relation to the base clock rate of a 17/42 machine. More info on the IR data stream can be found in this pdf file:

<http://www.hpcalc.org/hp48/docs/programming/82240bte.zip>

Re: SPD Self Test

*Message #8 Posted by [Christoph Giesselink](#) on 14 Oct 2002, 11:31 a.m.,
in response to message #5 by Andrés C. Rodríguez (Argentina)*

Speed measuring in the HP42S, ROM rev. C:

The SPD should show the value of the strobe rate (know as CPU nominal speed). The nominal speed is the CPU frequency / 4 and the CPU frequency is calculated as $(RATE+1)*524288Hz$.

After reset or pressing the ON-key the content of the RATE register is 7.

$CPU\ frequency = (7+1)*524288Hz = 4194304Hz$

$CPU\ nominal\ speed = CPU\ frequency / 4 = 4194304Hz / 4 = 1048576Hz = 1MHz$

How does this measured in the HP42S?

Internally there is just a loop running exactly 62.5ms (derivated from the 8192Hz TIMER2). In this loop there's a simple up counter in the B[X] register. So the content of the B[X] is a value of the speed. To get the shown MHz (CPU nominal speed) value the following formula is used inside:

$$\text{shown frequency} = (\text{B[X]} * 36 + 2) * 16$$

Here you get your "quantum" of 576, this is $36 * 16$ from the formula above.

Why we have differences here? Maybe that the TIMER2 (8192Hz) is directly derivated from the original crystal oscillator (32768Hz) and not form the frequency locked loop circuit making the CPU frequency. But this question must be answered by the chip designer of the 1LR2 chip.

Regards,

Christoph

Thanks you all for the details!

Message #9 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 19 Oct 2002, 2:39 p.m.,
in response to message #5 by Andrés C. Rodríguez (Argentina)

Thanks!

Re: Can all HP42S version be upgraded to 32K?

Message #10 Posted by [Erik Ehrling](#) on 10 Oct 2002, 6:19 a.m.,
in response to message #3 by Christof (Davis, cA)

I fixed it last night; I had checked everything both once and twice but decided to redo the soldering anyway - and hey, now it works perfectly!

Regards, Erik

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Any information on these parts???

Message #1 Posted by [Iqbal](#) on 8 Oct 2002, 10:16 p.m.

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1386346588> The above auction is for calculator parts. Anyone could say which calculator these parts would be for??

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-41C Card Reader - HELP!

Message #1 Posted by [Gordon Dyer](#) on 8 Oct 2002, 5:34 p.m.

Hi, I have had fantastic help from Tony Duell and diagnosed my card reader fault as an open circuit winding on the head.

So now I am looking for an old broken reader which had a good head in it.

Can anyone help??

Thanks, Gordon

Re: HP-41C Card Reader - HELP!

Message #2 Posted by [Steve Seto](#) on 8 Oct 2002, 11:44 p.m.,
in response to message #1 by Gordon Dyer

Gordon, where are you located? I have an inoperative CR which is being passed from hand-to-hand for parts and experimentation. I'll be happy to pass it along to you...

Re: HP-41C Card Reader - HELP!

Message #3 Posted by [Gordon Dyer](#) on 9 Oct 2002, 3:12 p.m.,
in response to message #2 by Steve Seto

Hi, thanks for your reply. I am in England and will send you an email.

Re: HP-41C Card Reader - HELP!

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 9 Oct 2002, 10:51 p.m.,
in response to message #2 by Steve Seto

Hi;

just to thank you, Steve; that's the spirit.

Best regards.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP29C problems

Message #1 Posted by [barry](#) on 8 Oct 2002, 5:27 p.m.

hello to the group: picked up a 29C awhile ago, in the box w/ charger/manual/carrying case; problems w/ running it: there is some very lite corrosion on one battery contact (calc side) and a little on one end of the battery pack; i've cleaned them a little. when powering up w/ the charger (no power w/out the charger), i first get flashing zeroes across the board (w/ a brite zero second from right end), then it seems to charge up after a little bit, but i then get only a "8."; will not accept any input from any key, etc. any suggestions? this is a very clean unit, hope it can be brought back to life (i do have to sell it tho, as my finan- cial predicament does not allow me to keep much of what i locate). tnx in advance, barry carson city, nv

Re: HP29C problems

Message #2 Posted by [David Smith](#) on 8 Oct 2002, 5:50 p.m.,
in response to message #1 by barry

You need a GOOD battery pack in the machine before it will work. Even then, be VERY careful. It is HIGHLY recommended that you charge the pack externally.

If the machine is plugged into the charger without a good pack (and making proper contact) then voltages high enough to burn out chips in the machine are produced. On the 25C and 29C this will happen even if the machine is turned off (because the RAM chip is powered up even when the switch is off. The 29C is the most electrically fragile machine HP produced.

Re: HP29C problems

Message #3 Posted by [Tony Duell \(UK\)](#) on 8 Oct 2002, 7:43 p.m.,
in response to message #2 by David Smith

It's actually worse when the machine is turned off (This applies to the 25C, 29C, 33C, 34C, 38C, BTW -- they all have much the same PSU circuitry). The HP chargers deliberately have a high internal resistance, and when the calculator is turned on, it draws enough current to pull the charger voltage down considerably. This is less likely (note, I didn't say 'won't'!) to damage ICs. But with the machine off, the voltage can rise to 12-15V. On the -C models, the RAM chip receives power all the time (that's how it maintains the 'continuous memory') and will normally burn out if it gets 12V. Never plug the charger into a -C model without a known-good battery pack in place. And if you have any doubts at all, keep the machine turned on when you have the charger connected...

replacing the battery pack?

Message #4 Posted by [barry](#) on 8 Oct 2002, 8:00 p.m.,
in response to message #3 by Tony Duell (UK)

what is the fix for the bad battery pack? are replacements available, or is this one of the units requiring "surgery" to make workable? sorry, wasn't paying attention when this was discussed before (probably a hundred times before!). tnx in advance, barry carson
city, nv

Re: replacing the battery pack?

Message #5 Posted by [David Smith](#) on 9 Oct 2002, 12:41 p.m.,
in response to message #4 by barry

It is very easy to fix the pack. You can either cut loose the end of the center strap (where it comes down between the battery contact holes) and slide the cells out or slice off the top of the pack, replace the cells, and glue it back together.

As a quick check you can just clip a couple of alkaline cells to the calculator and verify it is still OK.

Re: replacing the battery pack?

Message #6 Posted by [John Garza \(3665\)](#) on 11 Oct 2002, 11:18 a.m.,
in response to message #5 by David Smith

Bottom line for a woodstocks.....

Cut the center plastic bar in the battery case, chuck the old NiCd batts, install alkalines (they snap fit in nicely). Never worry about recarging again.

Before I did this, I had one 25C heat up so much the charging resistor slightly discolored the plastic case!

cheers, -John

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

41 cx

Message #1 Posted by [bill hand](#) on 8 Oct 2002, 5:20 p.m.

A few of the keys on the lower left corner are sticking and need to be struck a few times for the entry to be made.

Any suggestions on how to clean/fix the problem.

Thanks in advance.

Re: 41 cx

Message #2 Posted by [andy](#) on 9 Oct 2002, 9:35 a.m.,
in response to message #1 by bill hand

The cause could be a couple of easily fixable things:

1. Something (dust/particle) has gotten in between the contacts
2. Something sticky (like coke) has gotten in between the contacts and around the key.

First you could try using a spray-duster. You don't have to worry about it damaging the calc (just make sure you do your initial fire away from the calc in case there's some liquid in the tube).

If that doesn't work, you could try electrical contact cleaner spray. I've used this to fix the same problem on an hp-80 with excellent results (however I had the whole thing taken apart too. I don't think conservative amounts of contact cleaner will hurt the calc especially since it's not close to the display. You may want to make sure you hold the calc with the display above the misbehaving keys.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: Please, I hope people do not complain...

Message #1 Posted by [Ernie Malaga](#) on 8 Oct 2002, 2:41 a.m.

Luiz:

Not to worry. As a longtime Apple Macintosh user, I'm used to being alone in a sea of Windows users. It's the same story repeated time after time: Beta was superior to VHS, but VHS won. The Mac has always had a superior interface (in my opinion), but Windows won. RPN has many advantages over AOS, yet the latter won.

Why? It's not a question of product quality or merits; it's just marketing. There's little chance of reaching the masses of (usually) less-informed users and counter the effects of marketing. At least I've found it an impossible, quixotic task not worth trying for long.

-Ernie

Re: Please, I hope people do not complain...

Message #2 Posted by [Mike \(Stgt\)](#) on 8 Oct 2002, 3:11 a.m.,
in response to message #1 by Ernie Malaga

"The majority is the stupidity, knowledge was always with a few". Jean-Jaques Rousseau

Hehe, probabely there could be a better translation than mine,I suppose ;-)

Ciao.....Mike

Re: Please, I hope people do not complain...

Message #3 Posted by [John Smith](#) on 8 Oct 2002, 5:24 a.m.,
in response to message #1 by Ernie Malaga

Ernie Malaga wrote:

> It's the same story repeated time after time: Beta was superior to VHS, but VHS won. The Mac has always had a superior interface (in my opinion), but Windows won. RPN has many advantages over AOS, yet the latter won. Why? It's not a question of product quality or merits; it's just marketing.

That's not so clear cut, IMHO. Matter of fact, that's what people on the losing side wish to believe, but that doesn't make it necessarily true. It just may be that the other people are right, yet one just won't consider the possibility of being on the wrong side, out of all-too-human stubbornness.

Just for instance, I worked at a video rental shop, when Beta and VHS were 50-50 more or less, and it was our experience that all Beta tapes would broke or become defective long before the VHS ones. They might have a slight edge in image quality, not noticeable at all in your typical TV set, but they definitely were much less physically reliable and VHS ones lasted much longer and survived much more use and abuse.

As for the Macs vs. Windows, my humble experience was that the Mac wouldn't let me do so simple a thing as extracting a floppy disk when I needed to, and Apple would force me to create programs following strict guidelines, whether I wanted or not. And besides, I had to pay extra for the 'privilege' and end up with an underspecified product. No, thanks. Monopolies are always bad and Apple has theirs with the Macs. No way.

Finally, 'RPN has many advantages over AOS' needs some heavy qualification. Undoubtely, 4-level stack RPN was a marvel when compared to early TI calculators, such as the SR-52, TI-58 or TI-59, where you felt cramped and absolutely lost as to just where you are in the middle of a many-parenthesis expression. I think most RPN fans always have in mind those kind of calculators when they think 'algebraic'.

But next to more advanced pocket computers and calculators of the time, such as the many worthwhile SHARPs, classical 4-level RPN just doesn't hold a candle. Not when you can type and see your full algebraic equation all at once on the display, written on the display as it is in the book, with named variables if necessary, and can go forth and back inserting, deleting or changing anything before you even press ENTER. Then after the result has been computed you can recall the whole expression to the display again, to edit or recompute with different values. And if you think it merits being considered a program, just stick a line number in front of it, press ENTER, and there you are.

Only sheer stubbornness can claim that 4-level RPN is better than such a typical, modern algebraic system. And of course, if you take on someone having such a SHARP and try to proselitize with your 4-level RPN calculator, he or she will merely think you're pathetic at best, and nuts at worse. Of course, SHARP is just an example, the same can be argued for the CALC mode of the 71B, which has the added advantage of showing intermediate results and is capable of backstepping a calculation one step at a time (but has the serious disadvantages of a 21-character display and no multicharacter names for variables).

RPL machines have some of those features as well, but RPL programs and expressions are always much more cryptic and difficult to create and understand than the equivalent algebraic expression, specially if you must reorder terms and/or use stack operations. If anything goes wrong, it will take much longer and more effort to locate the fault than in the purely algebraic version. No wonder masses tend to stay apart from such unnecessary complications.

By the way, don't take this as any sort of 'attack' on RPN. I was doing and proselitizing RPN before some of you were even born, and I like it very much. But that doesn't blind me as to its shortcomings and other system's advantages, to the point of thinking everyone else is wrong and marketing is to blame. People are never fool, assuming that they are just shows who the real fool is, and if a product succeeds and flourishes against the competence, you can bet there's something to it apart from marketing hype.

My 3 cents.

Re: Please, I hope people do not complain...

*Message #4 Posted by [Christof \(Davis, CA\)](#) on 8 Oct 2002, 11:38 a.m.,
in response to message #3 by John Smith*

Well, I can't say I agree totally with John, but:

1; VHS is more durable in a physical sense, yes. VHS is essentially the same cartridge design as the data tapes used on a P3 Orion. The cartridges differ somewhat (like being made out of plastics vs various metals)- but the durability of the design is there.

2; (going back to the original post) Fully half the people I know have non-pc laptops, and most of those are Macs. I'm not sure when or how it got perceived that mac was dead. But I've been hearing it about unix, mac, and sun for over a decade and don't even listen anymore. 5% or 10% marketshare is not dead. It's just what people like carly perceive as not worth even trying to keep. One can build a very successful and strong business on a smaller market share. Ask Porsche. or Ducati. or Alpine.

3; I see some other uses and advantages to RPN and HP calculators in general. Mostly based

on computer science and programming.(then again, the only time I turn on a non-programmable is if I need to know its basic setup to help someone with math.) I'll agree that if *all* you want to do is basic math and chemistry, the \$15-\$20 Casio is really a nice machine. Or the 30s. (and the programming capabilities of anything short of a ti83 aren't worth complaining about. For the ti-83/98/92 typs machines it is absolutely ugly, though.) RPN has uses, advantages, and a "reason to be learned" in computing. Anything more than perl and Visual Basic, at any rate. I won't get into RPL per se, I don't use it in an advanced sense very much. It isn't any more difficult than TI "basic"- and works in "algebraic" mode to some extent- and is similar to some other computer languages. Small memory footprint keystroke programming with lots of math is (as I'm sure ahs been mentioned before) a great way to improve/develop programming skills. keeping 300 lines of code straight on a 2 line display, fitting a decent set of statistics programs into 384 bytes, programming the decision structures needed for blackjack (with a decent UI) on something with the chip for chip computing power of a coffee machine, having an accessible and usable device to do machine code on- these are all things you won't get form the Sharp, the Casio, nor (in quality where it's not actual availability) TI basic.

and that's my couple pennies :) -C

PS- no, I don't think any non programmable has, or ever will have, an adequate set of stats functions. programmability (and matrices & solver) seems to me to be a requirement there.

Re: Please, I hope people do not complain...

Message #5 Posted by [David H Thompson](#) on 8 Oct 2002, 12:23 p.m.,
in response to message #1 by Ernie Malaga

As far as the RPN versus AOS debate goes, I don't think we do ourselves any favours by assuming stupidity on the part of AOS users. We need to address the very real problem of the constant requirement to move between the steadfastly algebraic world of mathematics and our "preferred" world of RPN/RPL. There's always going to be an implied translation and thus conflict.

I would like to ask if anyone here regularly commutes between these worlds, and would like to share their views. For my own part, I've started using a TI92 as well as my HP machines.

Thanks and best wishes, David

Re: Please, I hope people do not complain...

Message #6 Posted by [Marc Brucker](#) on 9 Oct 2002, 11:09 a.m.,
in response to message #5 by David H Thompson

David,

I agree with you. The notion of assumed stupidity you mentioned is a result of the simple exclusivity seen regarding the relationship between RPN, HP calcs and their users; this exclusivity (always a precursor to superiority) is now enhanced by the perceived rarity of the calculators themselves. I use both systems on a daily basis, and even use a slide rule on occasion. Doing such helps me to focus on mathematics, not transient ideas like entry logic.

Thank you,

Marc.

It's a matter of opinion and preference

Message #7 Posted by [Mike](#) on 8 Oct 2002, 12:54 p.m.,
in response to message #1 by Ernie Malaga

RPN better than AOS? That is simply a matter of opinion. Some prefer one and others prefer the other. My like of RPN has nothing to do with it being superior over AOS. Both provide correct answers.

Some comments (was Please, I hope people do not complain...)

Message #8 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Oct 2002, 12:37 a.m.,
in response to message #1 by Ernie Malaga

Hi;

for those who lost the first part of the thread (that is resting in the Archives), the title "*Please, I hope people do not complain...*" is because I made a reference to TI calculators in an HP-Only (far from being a restriction; just a matter of selected subject) Forum. So, I decided to continue the conversation by e-mails rather t

Some comments (was Please, I hope people do not complain...)

Message #9 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Oct 2002, 12:56 a.m.,
in response to message #1 by Ernie Malaga

Hi;

for those who lost the first part of the thread (that is resting in the Archives), the title "*Please, I hope people do not complain...*" is because I made a reference to TI calculators in an HP-Only (far from being a restriction; just a matter of selected subject) Forum. So, I decided to continue the conversation by e-mails rather than by the Forum; that's the reason for the former apologies.

Some comments over these posts. I referred to RPN and AOS some months ago, in other thread, as, respectively, math solution procedures and math notation. I see the difference between both like this:

13 + 28 = 41 (math notation)

1 (carry)
13
+28

41 (solution procedure)

There are ways to get to a solution by using both, descriptive solution and math notation. It's far well known that math notation is not the best way to "describe the way to get to the solution". When we have to deal with a math expression and find its solution (numeric result), each of us will find our own way to solve it. Many will have the same procedure, others will have particular, shorter or longer versions. The math expression (notation) itself will not need to be changed anyway.

By exclusively analyzing one of the right solution procedures, maybe it's possible to restore the original math expression. In some cases, this task will be annoying, hard and time consuming, when inefficient; if we are lucky enough to grab the best explained, full of references solution, it's easier to reach the original math expression.

I think this is the "beauty" of RPN/RPL **programming**: having access to the inner thoughts of the programmer. I'm not going to comment direct, keystroke procedures to solve a general or particular problem, because they are based on usage principles not specifically related to the text I wrote here; my focus IS programming.

There is always a programmer's "signature" hidden in an RPN/RPL program. We can also identify this signature in an AOS program, because in many situations, simply typing in the keys that are equivalent to the math expression will not do the job. I do not mean that this is always this way, but sometimes it is easier to write a program based in AOS logic; it can also be hard because of the same reasons.

I owned and programmed AOS calculators (TI57, 58, 59), also BASIC-style Casio handheld (I remember I firstly tried C in one Casio handheld that amazed me at the time I was in the University; 1986?). Depending on the knowledge and understanding of the programmer, RPN/RPL allow him to create his own path, to fully use the stack registers to get to the results or simply use x- and y-registers contents, to explore all possibilities in order to reduce program steps (memory space), among other possibilities. The same is valid in an AOS-based calculator, and the fact that I do not know how to use them deeply enough does not mean they do not have their inner, surprisingly secrets.

(A note: I know the stack registers will always be used in the moment a number is typed in, but many programmers barely use Z and T registers, meaning they did not have to OR didn't get too deep inside the calculator's resources)

Anyway, there are some "tricks" RPN allows the programmer to use that I do not know if AOS does. In 1988 I was asked by a topographer to develop a program to compute a triangle area given its three sides in an HP11C. He asked the program to be as small as possible, and he also wanted to understand what the h... was that stack. I wrote him the following program:

```
001- 42 21 11 LBL A
002 -      36 ENTER
003 -    43 33 R^
004 -      40 +
005 -    43 33 R^
006 -    43 36 LSTx
007 -      33 Rv
008 -      40 +
009 -    43 36 LSTx
010 -      33 Rv
011 -      33 Rv
012 -      20 ×
013 -      34 x<>y
014 -    43 33 R^
015 -        2 2
016 -      16 CHS
017 -      10 ÷
018 -      20 ×
019 -    43 36 LSTx
020 -    43 11 x^2
021 -      40 +
```

```

022 -      34  x<>y
023 -      10  ÷
024 -      11  SQRT
025 -    43 24  COS-1
026 -      2  2
027 -     20  ×
028 -     23  SIN
029 -     20  ×
030 -      2  2
031 -     10  ÷

```

Just enter the sides in X, Y and Z and run the program: the area of the triangle is the resulting data. I remember I fused two or three algebraic expressions in only one to get to the program. Some months ago (about 13 years later), when collecting my precious data, I found the program listing and tried to restore the original expressions. Who in Heaven wonder what did I do... I simply cannot figure out the original expressions. I depicted the program step by step and I found an 'I-never-saw-that-before' algebraic expression that does not even resemble any triangle-area computing procedure. And I know this is the way I've been programming since I saw one of the most beautiful use of RPN: Paul Baker's program to find the roots of a second-degree equation using FOCAL (HP41). I'd be proud of myself if I wrote it. I include its listing here.

```

01 LBL "SOL"
02 ST/ Z
03 /
04 -2
05 /
06 ENTER^
07 ENTER^
08 X^2
09 R^
10 CF 00
11 X>Y?
12 SF 00
13 -
14 ABS
15 SQRT
16 ST- Z
17 X<>Y
18 FC? 00
19 +
.END.

```

I depicted the program as deeply as I could, and sometimes it's easy to identify parts of the

expressions for the two roots, sometimes mixing both real and complex parts. After this program, my programming style changed because I was always trying to find the shortest, fastest, more efficient program. And by doing this, the solution procedure always goes farther than the math notation.

I believe everything else I write from now on will be more based on my own thoughts (as if I didn't do it since the first words in here...) than in the subject itself. Many thoughts expressed in this thread are against my own preferences, but they are right. In more than one time the word "option" was used; after this, any particular preference is, indeed, a matter of preference. If any path leads to Rome, all of them are correct.

I know this does not exhaust the major theme, so I expect comments, suggestions...

Cheers.

Re: Some comments (was Please, I hope people do not complain...)

*Message #10 Posted by [Christof \(Davis, CA\)](#) on 10 Oct 2002, 1:53 a.m.,
in response to message #9 by Vieira, Luiz C. (Brazil)*

right on.

Regarding RPN vs AOS speed of entry, I must note that most adding machine type of financial desktop calculators use an rpn style of addition and subtraction. Ten-key as I learned it isn't taught strictly AOs for a very good reason.

Regarding RPN vs AOS and education. Sure, my \$20 casio will solve a lot of problems for linear algebra, some trig, and even some basic stats in AOS. but I don't have to *understand* the equation to "WYSIWYT" (T for type) it into a claculator. Educationally, I get a LOT more out of rpn, or even old ti-59 AOS than I do the modern variants. (I include DAL in this)

For programmimg- thanks for that thought treain, Luiz! I was thinking strictly in "CS theory" instead of programming practices, documentaion, and style. I'll still claim the 41 and/or 48 teach a lot more about computer science than VB6 on a winders box, though :)

-C

Re: Some comments (was Please, I hope people do not complain...)

Message #11 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Oct 2002, 9:08 a.m.,
in response to message #10 by Christof (Davis, CA)

HI;

When I was attending classes for Neural Networks I used an HP49G to develop all programs, even the final implementation. It did not run this particular implementation till the end (too slow), but we compared the values for the weights after 20 loops and they were exactly the same as the ones obtained by a C-program. The detail: the C-program directory was about 80KBytes long (text based, no graphics) and its listing was about 5 pages long. The HP49G equivalent was less than 300 bytes long and, by using the same font type and sheet size, half a page long.

Cheers.

What hath Luiz wrought?

Message #12 Posted by [Tom Sherman \(Maine, USA\)](#) on 10 Oct 2002, 3:03 p.m.,
in response to message #9 by Vieira, Luiz C. (Brazil)

Hi Luiz,

Thanks for your interesting triangle area program, using only stack manipulations and Lastx. It certainly illustrates what clever things can be done with the stack alone, but also -- as you have said -- how difficult it is to decipher it later.

As far as I can see, you chose in the program not to use the 3 sides directly in the $\text{Area} = \sqrt{s(s-a)(s-b)(s-c)}$ formula (where $s=(a+b+c)/2$), but rather to solve for an angle first, using a half-angle formula combined with the law of cosines, and then to use the formula $\text{Area} = (bc \cdot \sin A)/2$. That's the way it seems to me at first look, but I may be way off the mark -- I need to review how the stack works.

Trying to figure out your creative little invention reminds me of what John Smith said a few days ago about RPN programming, and of why I largely abandoned programming on my HP 25 and HP 15 when the HP 71 came around, allowing me to use BASIC on a pocket-sized computer/calculator. For on the HP 71 the program for the triangle would look something like this:

```
10 INPUT "a=";a
```

```
20 INPUT "b=";b
```

```
30 INPUT "c=";c
```

```
40 s=(a+b+c)/2
```

```
50 x=SQR(s*(s-a)*(s-b)*(s-c))
```

```
60 PRINT "Area=";x
```

My feeble imagination finds this easier to view, if maybe not quite so much fun!

Cheers, Tom

P.S. My wife is from Brasil, but please don't try Portuguese on me! Your English is superb!

Postscript

*Message #13 Posted by [Tom Sherman \(Maine, USA\)](#) on 10 Oct 2002, 9:32 p.m.,
in response to message #12 by Tom Sherman (Maine, USA)*

Hi again Luiz,

I checked the stack operations, and they confirm that you probably used the following expressions when you wrote your triangle program 13 years ago:

(Using a half-angle formula), $\cos(B/2)^2 = 1/2(1+\cos B)$ = (using the law of cosines) what winds up on the stack before you take $\cos^{-1}$ to get $B/2$, then B , then $\sin B$

$\text{Area} = ac(\sin B)/2$

How in heaven's wonders did you see how to translate this into stack operations?

All the best, Tom

Re: Postscript

*Message #14 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 11 Oct 2002, 12:13 a.m.,
in response to message #13 by Tom Sherman (Maine, USA)*

Hello, Tom. (say 'ôï' to your wife, please)

Thank you for adding this information to my post. Now that you mentioned, I remember the topographer gave me these formulas (the ones he used) and asked me to use them, so he would try to understand the stack operations.

Now I understand why did he took so long to call me back...

The first version of the program used R0 to hold $2*S$ (or $[a + b + c]$), but I changed it so it would not use R0 anymore, just the stack. If you look again at the program, steps 2 to 14 are there just to "organize" stack contents; previous version used R0 and only 7 steps to do so.

The program became 4 steps longer (4 bytes); a good choice instead using R0, that is 7 bytes long: 3 bytes won (in a time when 300 GigaBytes HardDisk space is the least for a reasonable machine, what can be done with 3 bytes...)

Well, time will tell about RPN/RPL and the new RPN appeal that Hewlett-Packard is about to call to its new machines. I'll be waiting to see...

Thank you for your enhanced comments. I hope I can keep my English under improvemment, also (thank you, D.B.!). Please, allow yuor wife to read this and answer: "Eu sou de Minas Gerais, Araguari, perto de Uberlândia. De onde você é?"

Best regards.

Re: What hath Luiz wrought?

Message #15 Posted by [Vassilis Prevelakis](#) on 11 Oct 2002, 2:06 a.m.,
in response to message #12 by Tom Sherman (Maine, USA)

When debugging programs that make stack gymnastics, I have found the "stack trace" option to be invaluable.

To avoid wasting miles of thermal paper, I use the HP-IL serial interface linked to my PC. I designate the serial adaptor as the printer and set flags 15 and 16 to activate the stack trace.

What it does is that after **every** instruction, it prints the instruction and all the stack registers.

****vp**

VHS vs Beta - and Nintendo

Message #16 Posted by [Ellis Easley](#) on 10 Oct 2002, 6:52 p.m.,
in response to message #1 by Ernie Malaga

I never even used a VCR until VHS was well entrenched, but I read a very interesting book about the development of the VCR which discussed the competition between VHS and Beta. I think the main title is "Fast Forward" - I don't find it on my bookshelf right now. As I recall, the book said the thing that gave VHS an edge was the 2 hour recording capability compared to 1 hour for Beta, a limitation imposed by the smaller physical size of the Beta cartridge. Since most movies on TV last 2 hours, Beta couldn't be relied on for unattended recording. Beta was later extended to 2 hours at lower resolution, but VHS was extended to 6 hours. So VHS won on a price/performance basis, performance including recording time. In my opinion, NTSC[the North American composite video standard] video (at least - I haven't used PAL or SECAM) has such poor resolution, the signal degradation introduced by the VCR doesn't matter much - the viewer's imagination is doing most of the work. I think HiFi audio recording makes the 6 hour (EP or SLP) recording rate essentially as good as the 2 hour (SP) rate, and better if you have commercials to fast-forward through!

BTW, is it true that in Germany TV broadcasts include a signal to pause the VCR during commercials while recording?

Actually, I have a tiny bit of experience with PAL: I have viewed PAL satellite signals and the output of my recently acquired BBC Model B (without color) on an old NTSC television with manual controls. I understand PAL is quite similar to NTSC except for the number of lines per field (and correspondingly different vertical scan rate) and the color subcarrier frequency. I

have read that SECAM is a lot different and American TV people say SECAM stands for "System Essentially Contrary to the American Method"!

The book I mentioned has a very interesting history of Sony. After the war, during American occupation (I believe this is when Sony was founded), plastics of all kinds were in short supply in Japan. Sony was working on a home video recorder and since they couldn't get plastic, they used paper as the substrate for the recording tape. Sony was one of the companies that paid Bell Labs a \$25,000 license fee to learn all there was to know about transistors. When they developed the 3/4 inch U-Matic system, their goal was a home VCR. It became a standard for broadcasters and made the "Minicam" possible. I think the book said U-Matic didn't make it in the home market because of a combination of cost and the large size of the tape cartridge - maybe ironically, reducing the size of the cartridge was one of the efforts to make a system more adaptable to home use.

Another interesting book which I also found on a cut-out table (a third one is titled "Five Billion Vodka Bottles to the Moon", by a Russian radio astronomer) is "Game Over", about how Nintendo took over the video game market (this was before the N64 and PlayStation)(although I read somewhere else recently that PlayStation started out as a prototype submitted to Nintendo for a CD-ROM storage system when they were developing the N64, before they decided to stick with semiconductor ROMs, which live on cards, which might be telling-). This book has an interesting history of Nintendo and the family that runs it. They had been in the business of making playing cards for a traditional Japanese game for a long time. In recent years, Japanese gangsters had adopted the game for gambling and developed the habit of using a fresh pack of cards for every game, to cut down on charges of cheating. The family's business expanded so much, they found automated methods to make the cards and became very wealthy. They went into arcade games and this led them to electronic games. I think it is very interesting that while they are not at the top of the video game business anymore, they had a lot of success with PokeMon, which, once the kids were hooked, became the habit of collecting cards!

PAL and SECAM

*Message #17 Posted by [Karl Schneider](#) on 12 Oct 2002, 2:34 a.m.,
in response to message #16 by Ellis Easley*

Just a "technopolitical" factoid regarding broadcast formats:

I learned of the existence of different broadcast formats while stationed in then-West Germany in the late '80s, using a multi-format VCR with my American (NTSC) TV. The format listing showed that West Germany used one type of PAL (there was PAL-1 and PAL-2), while France and East Germany used SECAM. The Communist East German government, you see, didn't want its captive populace to get West German news.

That's right...

Message #18 Posted by [thibaut.be](#) on 13 Oct 2002, 2:56 a.m.,
in response to message #17 by Karl Schneider

actually the difference between PAL and SECAM is not the oscillating frequency, but in the colour coding.

So looking to a PAL (SECAM) broadcast with a SECAM (PAL) tuner will give a B&W image.

Now most tuners are PAL and SECAM compatible, and a good part of them also include NSTC...

Re: That's right...

Message #19 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 13 Oct 2002, 11:26 a.m.,
in response to message #18 by thibaut.be

There are different PAL species. PAL means "phase alternating line", and is a method of coding the color information in a manner which averages phase information between two successive lines, to so cancel some of the error these signals may have. This correction means that PAL TV sets don't have the Tint adjustment NTSC equipment have.

Differences in AC mains frequency (60 Hz -> 525 video lines; 50 Hz -> 625 video lines) and channel frequencies allocation also create subtypes of video standards, often designated by a single letter. Some cases I know:

Germany (and many european countries): PAL-B (625 lines)

USA (and many other countries): NTSC-M (525 lines)

Brazil: PAL-M (525 lines)

Argentina: PAL-N (625 lines)

These values may seem arbitrary, and some think, as mentioned in the previous posting about East and West Germany, that politics had here a role to play. Some people believed in the same way about the different standards set for Argentina and Brazil in the 70's. But the true is that the geographical location (America, Europe)

and the mains frequency had a lot more to do with this. Given a slight technical advantage for PAL over NTSC; almost all the game is set. (At least until digital TV gains more momentum).

Most TV sets and home VCRs in Argentina are tristandard, to be seamlessly compatible with NTSC and Brazilian PAL-M, apart from the local PAL-N signals. Camcorders tend here to be just plain NTSC.

Re: That's right...

*Message #20 Posted by [Viktor Toth](#) on 13 Oct 2002, 5:15 p.m.,
in response to message #19 by Andrés C. Rodríguez (Argentina)*

Although a PAL receiver can display a SECAM broadcast in black-and-white and vice versa, there was another difference between Western and Eastern European broadcasts: the frequency of the audio subcarrier (6.5 MHz in the East, OIRT standard, 5.5 MHz in the West, CCIR.) So the poor unfortunate East German, stuck with a SECAM-only television set, was not only stuck with watching Western broadcasts in black and white, he also had no audio.

I don't know about East Germany, but in Hungary where I used to live, most TV sets sold were already PAL/SECAM capable; and even those that were SECAM-only (and many older black-and-white sets) had the extra filter needed for 5.5 MHz audio. And if you had a set that didn't, there was a small cottage industry of TV servicemen happy to "upgrade" your set with a home-made solution. I imagine it wasn't that hard to come by a PAL/SECAM set in East Germany either, or one with CCIR audio.

This (to keep the subject somewhat on-topic) came very handy in the early 80s when home computers began to appear on the market, making it possible to use existing TV sets with Western home computers producing a PAL signal. It was not at all unusual in Hungary to see a Commodore 64 or some other early home computer hooked up to a 1970s or late 60s vintage black-and-white tube TV set. The lack of color was a great deal more tolerable when you at least had sound!

Viktor

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Repair fo HP67 AC Adapter

Message #1 Posted by [Gene R. DiResta](#) on 7 Oct 2002, 3:18 p.m.

Greetings all,

I am looking for a circuit diagram or repair procedure for the HP67 AC adapter. Can anyone provide technical information, etc.?

Thank you for your help

Re: Repair fo HP67 AC Adapter

Message #2 Posted by [David Smith](#) on 7 Oct 2002, 5:08 p.m.,
in response to message #1 by Gene R. DiResta

95 percent of all charger failures are due to a broken wire in the plug cable end at the calculator. They break where the conect to the calculator pin sleeve. You can open the charger case and verify that the connection to the plug is baad with an ohmeter.

Fixing the problem involves carefully slicing off the top of the plug rubber, fixing the broken wire, and gluing the top back on. Some people can do this so well it is hard to tell it was ever opened... I don't tend to be one of them.

Re: Repair fo HP67 AC Adapter

Message #3 Posted by [Tony Duell \(UK\)](#) on 8 Oct 2002, 7:52 p.m.,
in response to message #1 by Gene R. DiResta

I've hopefully sent you an ascii-art schematic by private e-mail. It's also available from the CUCPS website (do a google search!) and if Dave (Hicks) wants it I can e-mail it to him also to put up here somewhere. The charger consists of 2 somewhat independant supplies -- a constant voltage one to run the calculator logic and a constant current one to charge the NiCd pack. These run off the same unregulated transformer/rectifier/smoothing capacitor circuit. The first thing to do is to check for continuity between the pins on the socket and the appropriate points on the PCB inside. Many problems are due to breaks in the output cable, often near the calculator socket. Then, with the charger assembled and plugged in, measure the voltage between the middle pin (common -ve) and the 2 outside pins (one at a time). One should read 4.2V or so (constant voltage logic supply), the other should read about 16V (the open-circuit voltage of the constant current supply). From that you can tell if any of the power transistors are open, for example. Another common fault is that the 400uF smoothing capacitor is dried up. In this case, the constant current supply's open-circuit voltage will test very low (perhaps 10V). Or you can check the capacitor on its own, out of circuit. Don't forget there is live mains on the charger PCB (at the primary side of the transformer), so take great care if you work on the PCB when the unit is powered up.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Mt Everest on your 41

Message #1 Posted by [Glen Kilpatrick](#) on 7 Oct 2002, 11:36 a.m.

I got to meet Christof(Davis, CA) & db(martinez,california) last night near Borders Books in Davis, an interesting meeting ("Geeks, Unite! You have nothing to fear but low batteries", and for me, low-light levels on LCDs :). Nobody had a belt loop, but we all had toys and stories.

However, I'm posting one of many interesting questions raised, this one for the 41 affectionados (I'm a 48 fan, RPL rather than key-stroke programming). I remember many years ago reading (I think it was) about synthetic programming, and the author was claiming that the Great Unreached Challenge (like Mt. Everest for mountaineers, I was imagining) in the 41 series was making the goose fly backwards.

As its normal course is left-to-right and pointing right, I don't remember if the quest was for the goose to continue to point right, but fly right-to-left backwards, or to turn around and fly forwards, right-to-left; possibly these are two entirely separate challenges. Also, the layout of LCD elements may make it impossible for the goose to point to the left, and thus the second of these two would be physically unreachable nonsense.

Can anyone advise, was this challenge (or these challenges, as appropriate) ever surmounted? And of course, the solution(s) posted to <http://www.hpmuseum.org/software/soft41.htm> would allow others to marvel.

Re: Mt Everest on your 41 - Not a solution, just comments...

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 7 Oct 2002, 12:34 p.m.,
in response to message #1 by Glen Kilpatrick

... instead, another question.

I have Synthetic Programming on the HP41, by Bill Wickes, and I did not find it (d... it!), but I remember there is a whole paragraph about it. As I was not that much interested on that particular subject. I remember I read it briefly.

Anyway, I want to ask one question: the flying goose in a backwards flying means the same character flying right-to-left OR a pointed-to-right character flying left-to-right? I hope you do not understand it in the wrong way, because in both cases, the goos IS flying backwadr. This way, a pointed-to-left goose flying right-to-left is not a flying backwards goos.

I'm emphasizing this because, AFAIK, there is no pointed-to-left goose in the 41's character repertoire (only if it exists in the new halfnut set, not available at the time Synthetic Programming was printed). I just pointed that out to avoid confused attempts to do what seems to be really impossible.

About programming: I'm an RPN/RPL addicted, must admit. The biggest difference, for me, on programming an HP41 or an HP48 is that I completely know (I think I do) all available possibilities in the 41's stack; otherwise, programming an HP48 will lead to vast sort of possibilites, that makes it almost impossible to think of all of them (as many stack levels as you can push into the stack, rotate as many stack contents as you want to, pick any object in the stack WITHOUT losing the topmost, having morre than one place to store string, storing and manipualting programs in the stack, among others, impossible to be accomplished in an HP41 OR 42). I use them as I want and have to, given the restrictions for both.

(a sequence of 11 steps with LBL 00 in the HP41 will cause the goose to turn 11 positions forward in a flash, giving the slightly feeling it is flying backwards; I once tried it and laugh with myself: no one else around to foolish with...)

Best regards.

RPN/RPL (was Mt Everest on your 41)

Message #3 Posted by [Glen Kilpatrick](#) on 7 Oct 2002, 1:43 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

Hi Luiz,

I just had to respond to the differences you listed. What you see as disadvantages to that indefinite stack are all advantages to me, but that's not the biggest difference. The most important for me is the way in which one can successively defer execution, and build a program:

- * 2 ENTER 3 + (direct execution)
- * \RS \Alpha 2 \SPaCe 3 + ENTER (build a command-line)
- * \<< 2 3 + \>> ENTER EVAL (on-stack program)
- * \<< 2 3 + \>> 'Fred' STO \Fred (save then execute)

For a ~permanent program, of course, there won't be significant difference between a finished (or in-debugging) program in 41-land or 48-, both will be "saved" (whatever that means) and executed, with frequent rewrites.

But many of my programs are one-shot functions, and the flexibility to play on the 48's stack with various levels of deferral is such an enormous advantage. So I suppose I'm highlighting the stack's ability to process many different kinds of objects as much as the uses of the command-line. Whatever, it's all one package called RPL.

Re: RPN/RPL (no disadvantages, just differences)

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 7 Oct 2002, 3:09 p.m.,
in response to message #3 by Glen Kilpatrick

Hi, Glen;

I agree with you completely; I also think this way.

Maybe I did not express myself correctly: the four points I mentioned about RPL were done so to show RPN (fixed four-level stack) has restrictions, and knowing about RPL advantages will allow programmers to enhance existing SW.

Best regards.

Flying the goose backwards

Message #5 Posted by [Massimo Gnerucci \(Italy\)](#) on 7 Oct 2002, 12:43 p.m.,
in response to message #1 by Glen Kilpatrick

This is the title of the last paragraph (7C) on page 80 of *Synthetic Programming on the HP-41C* by Dr. W.C. Wickes.

So it seems that - by means of synthetic instructions - this goal was achieved back in 1980.

Greetings,
Massimo

Re: Flying the goose backwards

Message #6 Posted by [Glen Kilpatrick](#) on 7 Oct 2002, 1:45 p.m.,
in response to message #5 by Massimo Gnerucci (Italy)

Thank you, Massimo. I hadn't known the challenge had fallen so early. I tried a Google search on _"flying the goose backwards"_, no luck, so it's only in the book.

this one goes w/o synthetics...

Message #7 Posted by [Hans Brueggemann \[GER\]](#) on 7 Oct 2002, 3:53 p.m.,
in response to message #1 by Glen Kilpatrick

glen, maybe you would like to try the following (spoilers ahead!!) lbl A, 0, lbl 02, sf 25, 1/x, gto 02, end

cheers, hans (porkpiehat@gmx.net).

Re: this one goes w/o synthetics...

Message #8 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 7 Oct 2002, 6:30 p.m.,
in response to message #7 by Hans Brueggemann [GER]

(Just from my memories)

This program:

AVIEW

0

SF 25

1/x

LBL 01

0.010

LBL 00

ISG ST X

GTO 00

X<>Y

X<>Y

GTO 01

will scroll any string in the Alpha register with each label execution, just as the normal goose is used as a running program indicator. The combination of 10 inner loop label executions plus one label in the external loop will cause the string to move "backwards". The deliberate error after Flag 25 exploits a known HP41 bug in which such condition "unfreezes" the display without clearing it, as CLD would have caused.

Now, the issue is how to put a backwards-pointing goose in the display. Actually, such character exists, but it will not appear if there are no other characters in the display, so you

will need to also put a period or comma there. In Wickes book, this was referred as "a goose dropping".

oops, wrong movie

Message #9 Posted by [Hans Brueggemann \[GER\]](#) on 8 Oct 2002, 2:41 a.m.,
in response to message #8 by Andrés C. Rodríguez (Argentina)

andrés, the intention of my previous post was just to demonstrate what might happen to someone who is trying to remember hp41c- programs while not even having the calculator at hand, and mixing up the topics. :o(

cheers, hans porkpiehat@gmx.net

Re: this one goes w/o synthetics...

Message #10 Posted by [Mike \(Stgt\)](#) on 8 Oct 2002, 5:28 a.m.,
in response to message #8 by Andrés C. Rodríguez (Argentina)

It's not the Alpha register what rotates, it's the display only (R/S the loop any time and look at Alpha, it is still intact). You may rotate numbers too: PI VIEW X CLX SF 25 1/
X LBL 01 SIN GTO 01

To view strange characters you need synthetics: call following before an iterative routine:

CLD

"BS" (hex F7,0B,DB,C8,19,EB,D0,13)

0

X<> d

FIX 10 (hex 9C,0A)

VIEW M

X<> d

RDN

Ciao.....Mike

BTW, use a real HP-41 for that, not all emulators view it correctly :(

Re: Mt Everest on your 41

Message #11 Posted by [David Smith](#) on 7 Oct 2002, 5:11 p.m.,
in response to message #1 by Glen Kilpatrick

Hurricane Lili made a bunch of ducks and geese fly backwards... there was film at 11:00

From the PPCJ, V7N3P3 (Apr 80)

Message #12 Posted by [Ernie Malaga](#) on 8 Oct 2002, 2:31 a.m.,
in response to message #1 by Glen Kilpatrick

From the PPC Journal, V7N3P3 (April 1980)

Dear Richard:

A month ago, I felt that there were 3 unsolved challenges remaining for HP-41C synthetic programming pioneers: how to recall the contents of any register without normalizing; how to generate synthetic program lines on a bugless 41C with no card reader; and finally, how to turn the flying goose around and make him fly backwards. The first two problems were solved by the discovery of the "byte jumper" function (which, incidentally, is best understood as the manual equivalent of a program text line). And now, rather to my surprise, the last problem has proved tractable.

The enclosed photograph (I apologize for its quality; all I had available was an oscilloscope camera) is a bit of HP-41C art entitled "Geese Resting on a Fence." You will notice not only multiple geese, but also that one is facing backwards. Thus, programs may be written to show any number of geese facing and flying forwards and backwards, and even flapping their wings if desired. The display shown in the photo is not faked in any way; it was produced on an unaltered HP-41C, using no external devices, no bed-bounding, no dying batteries or modules, etc. Yeah, of course I used the Black Box programs.

Rather than reveal the technique at this time, I will leave it as a challenge to PPC members to produce the display shown in the photo, or one like it. You now have one essential clue that I didn't have: namely that it can be done. Anyone who succeeds can consider himself a charter member of the exclusive "Goose Club" (if you want to be certified, send me a program card that generates the geese). Then in the PPCJ issue following the appearance of this letter, I'll tell all.

Happy Hunting, -William C. Wickes (3735)

Ed Note. Bill's display consists of a 10-character display with a blank on each end. The "birds" are illustrated in the drawing below. The photograph was too small to reproduce well. Sometimes a photocopy works very well to show displays.

!-{!-} }!

From the PPC Journal, V7N5P56 (June 1980)

Goosing the HP-41C

Congratulations to Egon Jensen (3489) and Charles Close (3878)! These stalwart programmers were the only PPC members to successfully solve the Great Goose Challenge (V7N3P3). It is time now to reveal the solution to this problem, which surely has vexed all serious HP-41C fanciers since the first goose went scrolling around a display. What more could a true calculator fanatic ask than the opportunity to exercise enormous ingenuity and persistence to achieve an impossible goal with no practical use whatsoever? It was alleged at the PPC Midwestern Conference that an unnamed HP engineer once promised a free calculator to anyone who could make the goose fly backwards. I'd like to meet that gentleman...

The problem of taming the goose is twofold: first, does the normal goose character have an associated hex code, and second, if it does, how does one trick the 41C into displaying the goose? That a trick is required is evident to anyone who has used REBLD (V6N8P30) to generate each character associated with the $16 \times 16 = 256$ possible 2 hexadecimal digit bytes. Nary a goose anywhere.

The answer to the first part of the puzzle is so blindingly obvious that I, for one, did not see it until it was thrust under my nose. I was slipped one of the secret HP Diagnostic ROMs one day by one of the shadier characters in the local PPC chapter. The character test routine in the ROM displayed not only a normal forward-facing goose frolicking among the standard characters, but also revealed a never-before-seen backward-facing goose! How could I rest until I had freed these creatures from the oblivion to which they were consigned by their creators? Anyway, a little reflection caused me to compare the displayed character sequence with the hex table (V6N5P23), and lo and behold, the geese were right where they had to be: in the positions 2C (backward) and 2E (forward) apparently already occupied by the "," and the ".". But those two characters, along with the colon ":", are not made from the "boxed star" grid—they come from the interspaced dots. So codes 2C, 2E and 3A are still "available" for boxed star characters, and, in fact, the first two are the nesting places of the geese. The extra 3A character is just another boxed star.

No combination of codes I have yet found will persuade the display ROM to show a goose as

an ordinary alpha character; the 2C and 2E always display as "," and "." respectively. One promising idea turned out to be a blind alley: the manual (and the keyboard) forbids us from using any of the three interspace characters as part of an alpha label. But synthetic generation of such labels still only resulted in more displayed commas and periods. Rats.

Finally, while languishing in bed one day with a bout of the flu and hence being even more demented than usual, I dredged up from some muddy corner of my brain the recollection of the curious display status FIX A. This little-known instruction, code 9C0A, has the occasionally useful property of displaying only the mantissa of a number with a positive exponent (without altering the number, of course-it's just a display mode). When playing with this discovery some time ago, I had been mildly annoyed because the mode's utility was compromised since if the number in question had an exponent of 10, 11, 12, or 13 (mod 14), some of the number characters (from row 3 of the hex table) would be replaced by characters from row 2, making the number hard to read.

This "nuisance" turned out to be the key to the goose hunt. I found with a little experimentation that if one places a number with exponent 13 into X, then FIX A (assign it to a key or execute from program), CF 28, CF 29, then the display will show only the mantissa of the number, with the last 9 digits showing row 2 characters. The first digit always remains a row-3 character, which spoils the effect somewhat since there is always an unwanted character flying along with the geese. But the other 9 may be any characters from row 2, including, luckily, the space. So, for example, the display of "Geese Resting on a Fence" given in the original challenge was just the number $1.DCD1DDEE1 \times 10^{13}$ displayed in FIX A. To get a single backwards facing goose followed by a comma (a goose dropping?), try $B.C00000000 \times 10^{13}$.

The newly liberated geese will perform a limited number of tricks. To truly make a goose appear to fly backwards (right to left) across the display, one needs only to write a program that successively VIEWS numbers that contain a digit C stepping leftwards among digit zeros (which give spaces in the display). One row 3 character will be fixed in the leftmost position. To make the goose appear to flap its wings, successive displays should alternate digits C and E in the same position. To replace the normal goose with a flock of geese during a running program, place the geese number in X (or any other register). Then at some point of the program with a default display, insert the lines RCL d, VIEW Y, STO d. This will work with any desired display, not just extra flying geese.

The story is not quite complete. The technique described does show both geese, but only with restrictions. In particular, I have not succeeded in enticing the geese into the Alpha register. ARCL X totally ignores the row-2 characters showing in X. And yet, we are enticed by the solitary goose and the goose next to other characters shown in certain of the strange catalogs shown by fooling around with the catalog flag 30. Perhaps the HP-41C still has a few secrets for us to find.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP28C CPU core?

Message #1 Posted by [Christoph Giesselink](#) on 6 Oct 2002, 8:00 p.m.

Hallo,

I'm currently working on a HP28C emulator.

I read in several documents that the HP28C use a 1LK7 Saturn core. Is this correct?

So use the HP28C the restricted command set of the 1LK7 CPU core?

Regards

Christoph

Re: HP28C CPU core?

Message #2 Posted by [Jonathan Busby](#) on 6 Oct 2002, 9:46 p.m.,
in response to message #1 by Christoph Giesselink

It does according to official HP documentation.

To quote sasm.doc "The 1LK7 is a variation of the 1LF2 used in later versions of the HP-71B, the HP-18C, and the HP-28C."

Jonathan

Remove the random permutation of "NOSPAM" from my e-mail address before replying.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

97S

Message #1 Posted by [Chris Hill](#) on 6 Oct 2002, 6:58 p.m.

My 97S has the serial number 1830A08281 and according to the serial numbers section of the museum, the A means it is made in America but stamped into the case right next to the serial number is "MADE IN SINGAPORE" Any ideas?

Re: 97S

Message #2 Posted by [Les Bell \[Sydney\]](#) on 7 Oct 2002, 5:57 a.m.,
in response to message #1 by Chris Hill

Is it possible that the case was injection-molded in Singapore, but the machine was finally assembled in America?

Best,

--- Les Bell, CISSP [<http://www.lesbell.com.au>]

Re: 97S

Message #3 Posted by [Raymond Hellstern](#) on 7 Oct 2002, 8:16 a.m.,
in response to message #2 by Les Bell [Sydney]

Or maybe vice versa?

Raymond

Re: 97S

Message #4 Posted by [Tony Duell \(UK\)](#) on 8 Oct 2002, 7:57 p.m.,
in response to message #1 by Chris Hill

Remembnr the 97S is a normal HP97 with the I/O module wired into it. I guess it's possible that the 97 was made in Singapore and that the I/O module was added inthe States.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

visualizzazione risultati di un programma nel hp49G

Message #1 Posted by [dennis](#) on 6 Oct 2002, 8:40 a.m.

Salve a tutti, possiedo una calcolatrice HP 49 G e ho un problema che non riesco a risolvere: vorrei creare un programma che faccia la somma e la sottrazione di due numeri. Al dilà della semplicità dell'operazione da eseguire, vorrei porre però l'attenzione al modo di visualizzazione.

Vorrei che una volta lanciato il programma, la calcolatrice mi chieda il valore di a, poi quello di b ed infine mi restituisca c= il valore della somma, d= valore della sottrazione. Riesco a scrivere il programma, però non riesco a fare in modo che i risultati compaiano entrambi sullo schermo, perchè la calcolatrice visualizza solo l'ultima riga (in questo caso il valore della sottrazione). Come devo fare?

In pratica alla fine dell'esecuzione del programma vorrei vedere questo:

----- dammi a: 5 dammi b: 2

la somma è: 7 la sottrazione è: 3 -----

Molte grazie a chi potrà spiegarmi come devo scrivere il programma. Così facendo potrò scriverne altri più complessi con la stessa procedura

Dennis

Re: visualizzazione risultati di un programma nel hp49G

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Oct 2002, 11:34 a.m.,
in response to message #1 by dennis

Hi;

one possible solution is:

```
« "Input a:" "" INPUT
"Input b:" "" INPUT
-> a b «
"a = " a + " (place a line-feed here)
b = " b + + " (place a line-feed here)
c = " a b + + + " (place a line-feed here)
d = " a b - + +
CLLCD 1 DISP 3 FREEZE » »
```

You can change the input strigns as you wish, like this:

```
« "dammi a:" "" INPUT
"dammi b:" "" INPUT
-> a b «
"a = " a + "
b = " b + + "
la somma è: " a b + + + "
la sottrazione è: " a b - + +
CLLCD 1 DISP 3 FREEZE » »
```

Note that: -> is the representation of one only character, a righ-arrow, and when you see (place a line-feed here) you should add the line-feed character, a turn-to-left arrow.

Success.

(I did not test the program be cause I'm in a hurry; if it does not work, post a warning and I'll check for it; thank you)

Re: visualizzazione risultati à la hp49G: correction

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Oct 2002, 6:49 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

Hi;

I was in a hurry and I forgot to add OBJ-> after INPUT, so the input data can be used as a mnumber. The corrected program is:

```
« "Input a:" "" INPUT OBJ->
"Input b:" "" INPUT OBJ->
-> a b «
"a = " a + " (place a line-feed here)
b = " b + + " (place a line-feed here)
c = " a b + + + " (place a line-feed here)
d = " a b - + +
CLLCD 1 DISP 3 FREEZE » »
```

Sorry if I did not see this first.

Best regards.

problema

Message #4 Posted by [dennis](#) on 8 Oct 2002, 8:06 a.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)

Ciao Vieira, Luiz C., grazie per aver risposto: ieri ho provato il programma, ma va in errore alla riga:

```
"a = a + "
```

Non sono pratico con la notazione inversa polacca. Sapresti dirmi come dovrei scriverlo con la notazione "algebraic"?

Grazie mille per l'aiuto, se riesco a risolvere questo problema potrò fare dei programmi più utili.

Dennis

Re: problema

Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 8 Oct 2002, 12:33 p.m.,
in response to message #4 by dennis

Hello, Dennis;

Forgive-me if I do not answer you in Italian; as I speak Portuguese, it's not hard to understand the basic of your message, but I have to use a translator for understanding it completely.

About the line you pointed as troubled, I would ask you, please, to check for correct spelling, that is:

"a = " a +

instead of

"a = a + "

(please, note the ["] character actual position).

I'm sending to your e-mail (today later) a file that you can directly download to your HP49G. I believe it will work fine.

About the algebraic version: would you mind waiting for a bit more, say, tomorrow? I'm gonna have to read some parts of the HP49G's manual to accomplish this request, but there is no trouble at all; I was waiting for a good chance to delve into the HP49's algebraic capabilities.

Thank you and best regards.

Re: program listing: a better viewing

Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 8 Oct 2002, 12:59 p.m.,
in response to message #4 by dennis

This is a better viewing of the program:

```
«
"Input a:"
""
INPUT
OBJ->
"Input b:"
""
INPUT
OBJ->
-> a b «
"a = "
a +
"(place a line-feed here)b = "
b +
+
"(place a line-feed here)c = "
a b +
+
+
"(place a line-feed here)d = "
a b -
+
+
CLLCD
1 DISP
3 FREEZE
»
»
```

This way of listing the program will probably allow you to "see" it in a more functional structure.

Best regards.

thank you

*Message #7 Posted by [dennis](#) on 9 Oct 2002, 9:24 a.m.,
in response to message #6 by Vieira, Luiz C. (Brazil)*

Ciao, Vieira, Luiz C., grazie per avermi risposto. Il programma che hai scritto funziona benissimo, e con un po di sforzo l'ho riscritto in linguaggio "algebraic". Ora posso finalmente risolvere delle lunghe espressioni per il calcolo di elementi strutturali in calcestruzzo armato.

Cordiali Saluti Dennis

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

MLDL FPGA updated

Message #1 Posted by [Meindert Kuipers](#) on 6 Oct 2002, 6:14 a.m.

NEW: The first version of the FPGA MLDL solution is now more or less finished. It is actually the first step and is a VHDL description of a ROMBOX, supporting 8K of ROM (2 ROM modules) plugged into a HP41C port. I believe it is fully functional, but I am working on refining the testbench as a preparation for a fully functional MLDL with all bells and whistles. IMPORTANT: I have not built the hardware (yet), all is based on simulations! I plan to setup some hardware experiments when I get some feedback from you and when I have a better idea of how large an FPGA/CPLD I will use.

I am using the Xilinx free ISE WebPack 5.1i environment (free after registration) which is a great tool with a very good simulator (ModelSim). The free version has some limitations but I have yet to encounter one. I have put the VHDL sources of the ROMBOX and testbench on my website: www.kuipers.to/vhdl and are awaiting your comments!

Re: MLDL FPGA updated

Message #2 Posted by [Meindert Kuipers](#) on 6 Oct 2002, 6:51 a.m.,
in response to message #1 by Meindert Kuipers

I also posted a PDF of a simulated ROMBOX operation with all signals, just found out how to do that from Modelsim!

Meindert

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Dave, are you selling your calculators ?

Message #1 Posted by [thibaut.be](#) on 6 Oct 2002, 2:31 a.m.

... coz' there are pictures of your 29C [here](#) !

Not me

Message #2 Posted by [Dave Hicks](#) on 8 Oct 2002, 9:33 p.m.,
in response to message #1 by [thibaut.be](#)

Ich sprechen kein Deutsch

or something like that ;-) That's all I can remember how to say after a trip to Germany many years ago.

Re: Not me

Message #3 Posted by [John Smith](#) on 9 Oct 2002, 4:39 a.m.,
in response to message #2 by [Dave Hicks](#)

You should try one of the free web translators out there. The one I use the most is:

<http://babelfish.altavista.com/tr>

where you can type in an English text and have it instantly translated to German. As long as you use simple language, it will deliver perfectly understandable translations. For instance, instead of asking it to translate:

"I request thee to cease and desist in your obnoxious, misguided attempt to misuse my utterly astonishing pics, or face the consequences for thy sin"

which will probably end up saying something about his father's laundry, you would do well in using child-like, detailed expressions, like this:

"I have seen that you have used one of my images included in one of yours eBay auctions. I would be very happy if you would include a text mentioning that the image is not of the item being sold and the image was taken from my site. If you do not want to do that, I ask you to remove the image from your auction. Thanks."

This gets translated by the Babelfish link above like this:

"Ich habe gesehen, dass Sie eins meiner Bilder verwendet haben, die in einem von Ihrem eBay Auktionen umfasst werden. Ich würde sehr glücklich sein, wenn Sie einen Text umfassen würden, der erwähnt, dass das Bild nicht vom Einzelteil ist, das verkauft wird und und das Bild von meinem Aufstellungsort genommen wurde. Wenn Sie nicht das tun möchten, bitte ich Sie, das Bild von Ihrer Auktion zu entfernen. Dank."

which is quite reasonable German and adequately understandable. In actual practice, I've used this trick countless of times when dealing with German people, and communication has always been satisfactory, despite the fact that I do not speak or understand German at all, because I used Babelfish to translate back their answers to English, and the result was perfectly useable.

Re: Not me

*Message #4 Posted by [Raymond Hellstern \(Germany\)](#) on 14 Oct 2002, 3:26 a.m.,
in response to message #3 by John Smith*

Not too bad, the translation. Not perfect, but it should be understandable by (or for?) the addressee.

I didn't know good babelfish works.

Raymond

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-85 on eBay with MoHPC pic

Message #1 Posted by [Vassilis Prevelakis](#) on 6 Oct 2002, 12:11 a.m.

Yet another auction with a MoHPC picture: <http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1774766175>

It gets worse as the auction is for an HP-85 but the picture shows an HP-85B.

I sent an email to the seller, but I am posting the link here for the record.

Re: HP-85 on eBay with MoHPC pic

Message #2 Posted by [Glen Kilpatrick](#) on 6 Oct 2002, 10:38 a.m.,
in response to message #1 by Vassilis Prevelakis

I like how the eBay ad gives credit where it's due, "You can find out more about the HP85 at the The Museum of HP Calculators.", this still isn't David G. Hicks permission, but at least it's not quite such a blatant theft. And just how much trouble would it have been to either ask Dave's permission, or merely forego the photo, and give a link into MoHPC's 85 stuff?

Re: HP-85 on eBay with MoHPC pic

Message #3 Posted by [Vassilis Prevelakis](#) on 7 Oct 2002, 9:13 a.m.,
in response to message #2 by Glen Kilpatrick

Another one (this one for an HP 86): <http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1386870350>

This one at least acknowledges the HP Museum and mentions that the picture is stolen from there. In fact the picture link goes back to the MoHPC site.

The annoying thing is that the torrent of info copied from the HP Museum obscures the complete lack of any detail of the offered item.

Re: HP-85 on eBay with MoHPC pic

Message #4 Posted by [Dave Hicks](#) on 8 Oct 2002, 9:28 p.m.,
in response to message #3 by Vassilis Prevelakis

Generally, I have only asked that ebay users acknowledge the source, which he has done. Do you think I should be tougher than that?

Re: HP-85 on eBay with MoHPC pic

Message #5 Posted by [John Smith](#) on 9 Oct 2002, 4:18 a.m.,
in response to message #4 by Dave Hicks

Dave wrote:

> Generally, I have only asked that ebay users acknowledge the source, which he has done. Do you think I should be tougher than that?

No. As long as the seller makes it clear that the image is not of the actual item being sold, is not consuming your bandwidth, and does mention the source, I think there's no misdeed involved, and you're somewhat compensated for the 'publicity' your site is given, which will certainly attract many would-be buyers to have a look.

Besides, not everyone has a suitable digital camera and/or scanner and/or knows how to make good pictures. And a blurred, unfocused, dark picture is much worse to attract attention to his/her probably adequately good item than a general, stock picture.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP42S directories?

Message #1 Posted by [Christof \(Davis, CA\)](#) on 5 Oct 2002, 7:14 p.m.

I'm trying to figure out if there is some way to hack in some form of directory structure in the 42S. Since my daqily use machine now has 31553 bytes of usable RAM (thanks, Randy!) I am gathering a really messy collection of stuff in a flat variable/program space.

Even a library system that used some form of labelling local variables (so they would appear to me as multi character varnames such as "var1" and "*plto" etc.)and ran subprograms inside a master program would work okay, I think.

I'm exploring the possibilities, just wondering if anyone has looked into this.

-Christof

Re: HP42S directories?

Message #2 Posted by [Christof \(Davis, CA\)](#) on 8 Oct 2002, 4:16 a.m.,
in response to message #1 by Christof (Davis, CA)

Well, I've developed a scheme for doing libraries. nothing earth shaking- all quite simple. Just arranging local variables and menu names.

But it does reduce the sheer quantity of programs in the menu. I can't figure out any hack for local variables, so I can't do much to reduce the population in flatland there.

I will clean and post code eventually, I'm still getting the first library finished enough to optimize.

Re: HP42S directories?

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 8 Oct 2002, 12:46 p.m.,
in response to message #2 by Christof (Davis, CA)

Hi;

I thought about it and I did not get to any particular, efficient solution. As I post in this forum a lot more than I believe I should (sometimes I think people will complain...), I decided to wait for some other posts.

Anyway, I tried something like building the first line of the CUSTOM menu, but to get to full functionality, you should have an updated label list. ASSIGN is programmable in the HP42, but does not accept indirect specification. PASN (HP41CX or Extended Functions module) is an extended version of ASN available in the HP41 basic; it is programmable and may be controlled by the program, and has no equivalent in the HP42S' repertoire.

I'm curious to know what did you do. I have an HP42S+ (32KRAM, upgraded) and I was not aware of this possibility.

Cheers.

Re: HP42S directories?

Message #4 Posted by [Christof \(Davis, CA\)](#) on 8 Oct 2002, 6:18 p.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)

Luiz- I'd hardly worry about posting too much. I've never found any of your posts annoying. Far from it, they are generally helpful or thought provoking.

For the directories, I haven't been directly using the custom menu, since I'm using a library approach. the "library" is an executable program, such as

```
LABEL "LIBX" (misc stuff here, I use a tone for an audio clue as to which of the 3  
current libraries I'm entering) LABEL 00 CLMENU "PRO1" KEY 1 GTO 03 "PRO2"  
KEY 2 GTO 04 "PRO3" KEY 3 GTO 05 "QUIT" KEY 6 GTO 99 KEY 7 GTO 02 KEY  
8 GTO 01 MENU STOP GTO 00
```

So each entry will GTO a locally labelled program instead of a globally labelled one, no big deal there.

for the next level, I start with a "variable menu" where you can input all the values for any of the programs in this level. directly executing a program works fine instead, but in

my case, I have a need for a lot of variables that will get reused (like binomial distribution, mean, and sdev)

```
LABEL 03 CLMENU "N" KEY 1 XEQ "a" "X" KEY 2 XEQ "b" ... "CONT" KEY 5  
GTO 10 "LIB" KEY 6 GTO "LIBX" (this option takes you back to the beginning of the  
library. GTO 00 does the same thing without the pre-00 stuff like tones) MENU STOP  
GTO 03
```

```
LABEL "a" INPUT "N" RTN ... etc.
```

(note that I **do** reuse these local variable names for each sublibrary function set! Paying attention to the search order is what makes that work for me. I've got 6k of programs in one library right now, and standardizing these calls is the only way I have been able to keep track)

Next comes the menu for the actual programs

```
LABEL 10 CLMENU "PROB" KEY 1 XEQ "A" "MEAN" KEY 2 XEQ "B" ... etc.  
"RTN" KEY 5 GTO 03 (the previous level) "TOP" KEY 6 GTO "LIBX" (return to  
beginning) MENU STOP GTO 10
```

```
LABEL "A" --DO STUFF-- RTN
```

etc.

this drastically reduces the number of programs to scroll through in the program menu, but doesn't do a thing for the variable menu. those still pile up.

I haven't pulled off any super tricks in this yet, but I'm looking for something that will work better and take less space. Even 32K can go fast this way.

Re: HP42S directories?

*Message #5 Posted by [Christof \(Davis, CA\)](#) on 8 Oct 2002, 6:59 p.m.,
in response to message #4 by Christof (Davis, CA)*

uh, something went badly wrong with the formatting. I'll fix it this evening

Re: HP42S directories?

*Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 8 Oct 2002, 6:59 p.m.,
in response to message #4 by Christof (Davis, CA)*

Hi;

Clever solution, this one of yours. Easy to understand and efficient. That's the kind of solution I encourage my students to try to go for.

You know what I believe the HP42 should have? An indexed catalog. Say, NCAT (or NCATP, for programs, NCATV, for variables, and so) with N in the X-register; the name of the N-th program would go into ALPHA, and ASTO X, XEQ IND ST X would run it. Just a thought, a teasing thought.

Anyway, as you mentioned, the "super tricks" would be welcome... but how to get to them?

Best regards... and thank you.

Re: HP42S directories?

*Message #7 Posted by [Christof \(Davis, CA\)](#) on 9 Oct 2002, 1:30 a.m.,
in response to message #6 by Vieira, Luiz C. (Brazil)*

Well, since it seems useful, I think I'll pretty it all up and submit an article or somesuch. *after* the tests this week. :)

I'm glad that it could be deciphered, at least by one person!

-C

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 19BII Manual

Message #1 Posted by [Howard Jones](#) on 5 Oct 2002, 7:45 a.m.

Does anybody know if HP still sells the manual for this calculator. If they do what is the part number? Failing this where I can download a copy of the manual? Thank you in anticipation.

Re: HP 19BII Manual

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 5 Oct 2002, 12:08 p.m.,
in response to message #1 by Howard Jones

Hi;

try [here](#), but the only options for the language are Portuguese (have no idea why...) and Spanish.

Hope this helps.

Re: HP 19BII Manual

Message #3 Posted by [christof \(davis, ca\)](#) on 5 Oct 2002, 7:10 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

interesting, I used partsurfer.hp.com a while back to order one in english.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Remarkable price for HP-41 Math Module on eBay...

Message #1 Posted by [Raymond Hellstern \(Germany\)](#) on 4 Oct 2002, 6:10 p.m.

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1384779637&ssPageName=ADME:B:RECO:US:2>

Seems I should offer a Math Module, too;-)

Re: Remarkable price for HP-41 Math Module on eBay...

Message #2 Posted by [thibaut.be](#) on 5 Oct 2002, 1:39 a.m.,
in response to message #1 by Raymond Hellstern (Germany)

I do have some MIB of these....

Re: Remarkable price for HP-41 Math Module on eBay...

Message #3 Posted by [David Smith](#) on 5 Oct 2002, 1:33 p.m.,
in response to message #2 by thibaut.be

Didn't he just pay \$142 for a carved up, ugly HP25. I guess the price of oil is going to go up...

Re: Remarkable price for HP-41 Math Module on eBay...

Message #4 Posted by [David Smith](#) on 5 Oct 2002, 1:35 p.m.,
in response to message #2 by thibaut.be

And don't forget the \$200+ for a bare HP41 card reader... no box or book even. If he would check the prices realized in recently completed auctions, this nonsense should stop. But then to get those high prices somebody else has to be the underbidder. It takes two to tango to the sky.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

any experience with Jornada replacements?

Message #1 Posted by [gene](#) on 4 Oct 2002, 12:19 p.m.

Just got off the phone with the new HP. Getting an in-warranty replacement for my Jornada 565.

About 1/2 inch in a vertical line on the left half of the screen is blank - nothing displayed. Don't think I've particularly mistreated this unit...I carry it alot and it does sometimes get bumped, but haven't thrown it against walls or anything.

My concern is that they are "going to look over the unit returned" and if they decide the damage was customer caused, may call me back to have to pay for the replacement. How do I know whether this was caused by "misuse" etc.? They could tell me it is even though I don't think I've been abusive, etc. with it.

Anyone have any experience with this sort of HP replacement?

good points: Easy to get hold of an HP person...very nice and helpful...the replacement will arrive next Tuesday...I then ship my bad unit to them...very simple.

Thoughts? Gene

Re: any experience with Jornada replacements?

Message #2 Posted by [Christof \(Davis, CA\)](#) on 4 Oct 2002, 1:26 p.m.,
in response to message #1 by gene

I've not had any direct experience with jornada replacements- but I did have this argument with visor once.

The hardware is designed to carry in a pocket, purse, or pouch daily- all the time. that's the *point* of the device. Normal use includes some amount of bumping. Not dropping off a balcony or throwing your backpack on the floor, but some impact is goign to be normal.

That made sense for the visor rep I talked to and I got a replacement for a flaky power button

pretty fast.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP10B's

Message #1 Posted by [Howard](#) on 4 Oct 2002, 7:48 a.m.

I wish somebody would buy all these HP19B's on ebay. There seems to be 1000's of them.

Re: HP10B's

Message #2 Posted by [Glen Kilpatrick](#) on 4 Oct 2002, 9:53 a.m.,
in response to message #1 by Howard

If you've owned one HP-10B (not 19B, right?), you've owned 'em all. I got one cheap, played with it for a while, and gave it away to a friend. To her it was a major enhancement, as she'd been using the on-screen calculator in Windoze, to me it was mostly a reminder of how good Pioneers had been (past tense).

So I agree with your unstated thought, I sure wish they'd go away (from eBay, yept, I'm reluctantly dipping my toe into the shark pool), but I won't be helping with any purchases.

Re: HP10B's

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 4 Oct 2002, 9:54 a.m.,
in response to message #1 by Howard

Hi, Howard;

do you have the page address? And you mean HP10B or HP19B? Your posts title reads 10B, and you mention 19B.

Just to make sure about the subject.

Best regards.

Re: HP10B's

*Message #4 Posted by [Howard](#) on 4 Oct 2002, 6:25 p.m.,
in response to message #1 by Howard*

Oops! I meant that there are 1000's of HP10B's on ebay.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Public Calculator Display

Message #1 Posted by [Larry Corrado](#) on 4 Oct 2002, 7:46 a.m.

Although I've used HPs for more than 25 years, I'm a newby to calculator collecting. As I begin to build a decent collection of HPs and TIs, I've been thinking about displaying my calculators at a local university, museum, or library. My question: Have any of you had experience doing this? Any thoughts on this? Bad idea? Caveats?

Thanks. Larry

Re: Public Calculator Display

Message #2 Posted by [Mike Sebastian \(Texas\)](#) on 4 Oct 2002, 6:29 p.m.,
in response to message #1 by Larry Corrado

The closest I've come is assembling a smallish calculator "museum" that travels to math teacher conventions with a friend who works for a calculator wholesaler. The museum is contained in four locked display cases and contains 25 or 30 calculators. I try to tell the story of the evolution of the pocket calculator, starting with a slide rule, the TI-2500, the HP-35, continue on with various interesting models (many HP and TI models), and ending with the first calculator I saw retailing for a dollar. People like being able to actually see the old calculators, and the museum distinguishes my friends booth from all the others at these conventions.

And in case you're wondering, I don't receive any financial compensation. But, I do have the satisfaction that other people will be able to see and enjoy some of the calculators in my collection.

Re: Public Calculator Display

Message #3 Posted by [db\(martinez,california\)](#) on 5 Oct 2002, 9:00 p.m.,
in response to message #1 by Larry Corrado

i loaned my 67 and 97 along with some other things to the county historical society when they had an exposition of surveying stuff. someone from the county surveyors office displayed a 35 and a bunch of old maps, there were lots of old tools, deeds, slide rules and photos, the operating engineers union rep loaned them his plane table and there was even a 48 with survey software. i guess that last thing was to show the pinnacle of history.

it worked out good and we all got sloshed on the opening night. one thing i would suggest is that if anyone else besides you is going to be putting up or taking down the exhibit then you should get the list signed for. my ac adapter got tossed in with all their misc. electrical doo-daas and it took me two weeks to get someone to look for it.

Re: Public Calculator Display - Thanks!

Message #4 Posted by [Larry Corrado](#) on 6 Oct 2002, 10:49 a.m.,
in response to message #1 by Larry Corrado

Mike, DB:

Thanks for your replies.

Mike: yes, I'm sure your display makes your friend's setup much more interesting.

DB: I can easily imagine your not getting something like an adapter back. If I do get something put together, I'll be there for setup and takedown.

Larry

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Is there a need for an HP-71 emulator?

Message #1 Posted by [HrastProgrammer](#) on 4 Oct 2002, 4:26 a.m.

Now when HP-42X has been finished I was thinking about the possibility of writing an HP-71 emulator for HP-48/49. It would be called HP-71X, of course. Based on the knowledge collected during the development of HP-41X and HP-42X I think it would be possible to emulate HP-71, but with a few shortcomings because (beside the Saturn CPU) HP-71 is very different in architecture from HP-48/49 (different screen width, different timers, different memory/port layout, ...)

So, I would like to know if there is any need for such a software?

Best regards.

Re: Is there a need for an HP-71 emulator?

Message #2 Posted by [Ken](#) on 4 Oct 2002, 9:31 a.m.,
in response to message #1 by [HrastProgrammer](#)

Just a silly question, but what is the need for any of these emulators of a calculator within a calculator? It seems silly to memorize unlabeled keys for their function and overlays seem impossible on a 49G. Why not just use the 49G or 48G as the calculator it is? If I need a 42S or 41 I will use one (or a palmtop emulator where I can read the functions). Just curious how many users have forked over cash for these emulators. It does seem like a cool and neat programming exercise but I miss how many people will make use of them.

Re: Is there a need for an HP-71 emulator?

Message #3 Posted by [Bruno Cavallini](#) on 4 Oct 2002, 11:25 a.m.,
in response to message #2 by Ken

I would tend to disagree with you Ken, as far as I am aware of, there is no BASIC language available onto the HP48 platform. It may seem old stylished but I think quite a lot of people may still be willing to use BASIC, ... even within the RPN/RPL convinced ones.

Bruno

I think you just answered the question...YES, there is a need...for BASIC

Message #4 Posted by [Gene](#) on 4 Oct 2002, 12:21 p.m.,
in response to message #3 by Bruno Cavallini

If for no other reason, an HP-71B emulator for the 48GX or 49G would be helpful to be able to program in BASIC.

OF course, if Hrast can make it able to call 49G functions through basic... :-)

Gene

Re: Is there a need for an HP-71 emulator?

Message #5 Posted by [Ken](#) on 4 Oct 2002, 3:15 p.m.,
in response to message #3 by Bruno Cavallini

OK,

How many people would program in 71B basic (yes it is real good) rather tahn choose a newer basic platform either on a PC, Palm or Pocket PC unit?

Seems the only user would be someone porting an existing 71B program over they were unwilling to rewrite.

Re: Is there a need for an HP-71 emulator?

Message #6 Posted by [Christof \(Davis, CA\)](#) on 4 Oct 2002, 4:36 p.m.,
in response to message #5 by Ken

No arguments with code compatibility in whatever BASIC got put on a 48/49. NO arguemnts with the BASIC on the 71.

But if you want a BASIC interpreter, do you necessarily want a machine emulator? why not a 71-like BASIC that ran in the 48, with all the capabilities of the 48?

Re: Is there a need for an HP-71 emulator?

Message #7 Posted by [Gordon Dyer](#) on 4 Oct 2002, 6:26 p.m.,
in response to message #1 by HrastProgrammer

Hi, I would like to encourage you to write an HP-71B emulator, I would use it.

I would also like one for the PC, WinXP. With the ability to list out programs in a multiline window as well as the actual display, print to the PC printer, save files, plug in the software modules and of course include max memory.

All writers of emulators for the PC should use Warren Furlow's emulator for the HP-41CX and get the look and feel as good as his.

Let me know if you do write one...

There is an HP-71 emulator

Message #8 Posted by [Mike \(Stgt\)](#) on 5 Oct 2002, 9:04 a.m.,
in response to message #1 by HrastProgrammer

There is an HP-71 emulator from JF Garnier. It works fine on my HP200LX (alas on a double speed LX not fast enough, but great fun on a desktop).

Ciao.....Mike

Re: There is an HP-71 emulator

Message #9 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 5 Oct 2002, 7:08 p.m.,
in response to message #8 by Mike (Stgt)

Mike: I am interested in knowing more about the 71 emulator for the LX 200. Could you please bring some more information or references to find it? (I don't know if it is available for download or purchase, etc.)Thank you

Re: There is an HP-71 emulator

Message #10 Posted by [Christof \(Davis, CA\)](#) on 6 Oct 2002, 1:30 a.m.,
in response to message #9 by Andrés C. Rodríguez (Argentina)

and - would it run on a 95LX? I don't think I'll be able to ever afford a 200LX at this rate.

Re: There is an HP-71 emulator

Message #11 Posted by [HrastProgrammer](#) on 8 Oct 2002, 1:36 a.m.,
in response to message #8 by Mike (Stgt)

This is HP-71 emulator for PC (MS DOS), not for HP-48/49.

Re: There is an HP-71 emulator

Message #12 Posted by [Christof \(Davis, CA\)](#) on 8 Oct 2002, 4:18 a.m.,
in response to message #11 by HrastProgrammer

right, the 95, 100, 200 machines are DOS based- to some extent. Not 48/49 type machines

Re: There is an HP-71 emulator

Message #13 Posted by [Mike \(Stgt\)](#) on 9 Oct 2002, 10:05 a.m.,
in response to message #11 by HrastProgrammer

Hehe, I see, you miss HP-IL on the HP-49.

If you have some spare time and like to program sophisticated, why not make the HP200LX understand the output of Blinky (IR-Printer of the HP-41)? That would be a nice tool!

Ciao.....Mike ;)

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

9825/35/45 Tape Drive Info Request

Message #1 Posted by [Ken Mowery](#) on 4 Oct 2002, 12:01 a.m.

I would like to design a solid state replacement (EEPROM) replacement for a HP tape drive like the ones used in the 9825/35/45 calculators. The actual machine of interest is an HP5420 Digital Signal Analyzer. It boots from a cartridge tape mechanically like the calculator tapes. The drive has been used so much it's shot. The rest of the machine is just parts without it. Does anyone know where to find a good design explanation of how this drives work so I could emulate its performance? Any leads would be helpful.

Re: 9825/35/45 Tape Drive Info Request

Message #2 Posted by [Vassilis Prevelakis](#) on 4 Oct 2002, 7:13 a.m.,
in response to message #1 by Ken Mowery

Although this is a very interesting idea you may want to consider an external HP-IB diskette drive. The 9121 is probably ideal for the task.

If, however, you are intent on going ahead, note that there is a guy who has developed the same thing for the DEC tape drives for the VAX. Although both the HP and DEC drives take the same media, I am not at all sure how similar they are in their external interface.

**vp

Re: 9825/35/45 Tape Drive Info Request

Message #3 Posted by [Ken Mowery](#) on 4 Oct 2002, 9:39 p.m.,
in response to message #2 by Vassilis Prevelakis

Interesting! I had a brief look around the net since your remarks. Can you give me any leads on how to find this guy or what key words to search for to find his work?

Do you know of a format name for these drives? What is a term to call them, besides HP calculator tape drive?? I know that the media looked very related, but not the same as, the much later "Colorado drive"

The 5420 automatically looks at the internal tape drive to load it's executable on powerup. It appears to have little or no hard stored program and is not smart enough to run the 488 bus until after it boots. Without the tape drive working, it's just a big (expensive) box of flashing lights. Believe me, there is nothing I would like more than plugging in something to fix this, but I'm afraid that it's going to be a bit harder. Even if I do figure out a H/W solution, I will need to figure out how to pull the data off the boot tape I have. I have already tried reading the tape with a 9825 and the data format is different. Thanks, Ken

Re: 9825/35/45 Tape Drive Info Request

Message #4 Posted by [Vassilis Prevelakis](#) on 5 Oct 2002, 1:48 a.m.,
in response to message #3 by Ken Mowery

The tape drive is called a TU58 and was/is the boot device for the DEC VAX 750 mini and many other DEC minis. More information may be found at http://www.sparetimegizmos.com/Hardware/TU58_Emulator.htm. However the news are not particularly good as the TU58 appears to be rather intelligent (works as a serial device running a packet protocol) so it can be easily replaced with a modern microcontroller (the links refers to an 8051, but today a PIC will more than adequate).

I don't know what the HP tape drive looks like, but can't you replace the one in the 5420 with a tape drive from another machine (e.g. HP 85 - there seem to be lots of them around).

****vp**

Re: 9825/35/45 Tape Drive Info Request

*Message #5 Posted by [Ken Mowery](#) on 5 Oct 2002, 10:27 p.m.,
in response to message #4 by Vassilis Prevelakis*

Outstanding Lead !!! Thanks I'll be attempting to monitor the data traffic to and from the drive with RS422 in mind and see if it makes any sense. This should allow me to image the data stream and play it back with several possible solutions.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

I need information about Voyagers IC's

Message #1 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 3 Oct 2002, 11:33 p.m.

Hi;

I've been resurrecting one old Voyager and I intend making an internal trading.

The to-be-resurrected Voyager is an earlier HP15C, with the electronics built in a flex-PCB (I gave up trying to recover the flex-PCB; it has many broken trails, others are no longer bonded to the flex board and the LCD shield already has two broken claws) . I have an old HP11C that no longer works, and it is a newer model. After removing all bezels and both logos, I am ready to trade their guts. But I'm afraid the HP15C's keyboard scanner is not working, and I am almost sure the HP11C's equivalent IC is working. But both HP11C and HP15C's keyboard scanners have different codes!

The Voyagers (I do not know the HP10C internals, so I'll refer only to the HP11C, 12C, 15C and 16C) have two basic IC's: the R2D2 (RAM/ROM & Display Driver), that is a big one and is built in the opposite side of the LCD, and the keyboard scanner, that interfaces the keyboard and R2D2.

The fact is that I opened some newer voyagers (an HP12C and both HP15C and HP16C) and I became confused. In these machines, the keyboard scanner is the same as the one found in the HP11C (except for the Malaysian HP12C, which has only one VISIBLE all-in-one IC). All of these IC's in the newer calculators are built in one single PCB that accommodates all electronics: KBD contacts, IC's, LCD and the three external components. The table bellow summarizes all IC's codes for these Voyagers.

	KBD scanner	R2D2	??? (third HP15C's IC)
earlier HP15C	1LF5-0301	1LE2-0321	1LH1-0302
newer HP15C	1LM2-0001	1LH1-0306	1LH1-0302
HP11C	1LM2-0001	1LH1-0305	
HP16C	1LM2-0001	1LH1-03xx	(I'm not sure; printing is too light)

newer			
HP12C		NONE (*)	1RR2 - 0001

(*)2001 model, made in Malaysia

I remember trading posts with Tony Duel about the third HP15C's IC. We may notice that only the HP15C has it, and those who deal with the HP15C know that it has a bigger memory capacity when compared to the others (67 registers, I included; about three times the memory available in the other voyagers). The organization of the HP15C's memory lead to some conclusions. In the HP15C, registers I, Ro and R1 are built in the R2D2 (RAM/ROM Display Driver, as Tony mentioned); all others have all memory in this same IC, as they share the same keyboard scanner and do not have the third IC. So, in both HP11C and HP16C all RAM is contained in the R2D2. I cannot see another possibility than the third HP15C's IC being the 64 registers block. As a coincidence, some operations available in the HP15C that deal with registers use only one byte of program memory when addressing registers I, R0 and R1, needing two bytes for the other registers (2 to .9). These functions are x<>, DSE and ISG. I know this is not a proof of this reasoning, I just call the attention for the coincidence. I also agree with Tony that part of the HP15C's ROM is built in this IC, too.

My major concern is the following. Both earlier and newer HP15C use the same third IC: 1LH1-0302. Signal levels and control lines must be the same from this IC to the others. I also checked the board, and all visible connections are the same. I'm gonna remove the 11C's IC's from its previous board and place the 15C's IC's there. All I want to know is if anybody have already mixed the earlier 15C's IC's (1LF5-0301 and 1LE2-0321) with the ones in the newer 15C (1LM2-0001 and 1LH1-0306), say, earlier KBD controller with newer R2D2 and vice-versa. If it works fine, I'll have to transfer only two IC's instead of three, and this procedure not only eases the job but also involves less risk to the components.

If anybody already had this experience, please, let me know. I'm delving into this "guts transplantation" next week, so I'll have time to think about it and read related posts. If there is any confusing explanation, please, let me know. I believe I wrote everything correctly, but... you know what I mean! I know Portuguese by heart...

Thank you a lot.

Best regards.

Re: I need information about Voyagers IC's

Message #2 Posted by [Steve Borowsky](#) on 5 Oct 2002, 1:32 a.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

Hi Luiz,

Sorry I don't have any experience with this, and i'm sure this is obvious to you, but it seems to me that the only logical step is to put the two 15C IC's (R2D2 and the third one) on the 11C board while keeping the 11C keyboard scanner in place, since you think the 15C keyboard scanner is bad. Maybe you can test it at that point (before assembly). BTW, why do you think the keyboard scanner is bad on the 15C; with so many broken traces couldn't that be the problem?

Re: I need information about Voyagers IC's

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 5 Oct 2002, 12:04 p.m.,
in response to message #2 by Steve Borowsky

Hi, Steve;

your questions are valid and they are some of the ones I also have.

I believe the first step is to be sure about the 15C's keyboard scanner. I still have an HP16C with an original 11C's keyboard scanner. This 16C lost two key columns, and I tested all cooper trails and their contacts. Every key working fine, every soldering fine... No response to those keys. I merely replaced the keyboard scanner (1989) and it's still working fine.

This 15C started with frozen keyboard, no ON/OFF action and sometimes Pr Error. I have seen many voyagers with unreadable display (random segments) and some sort of problems, including this one, and cleaning/resoldering IC's terminals used to be a good solution. I tried that and it kept freezing. After opening and closing it about once a month, it stopped completely. I try rebuilding as many trails as I could by using conductive ink, but after a while, the ink itself cracked. Dealing with flexible PCB demands special care...

Chances are that the 15C's scanner is still working, but I had to make many soldering "craft" closed to it. Static and heat are not the best friends a MOS PQPF can keep. I am between moving all three 15C's IC's at once, but if it did not work I'll have to remove the 15C's scanner and place the 11C's back. So, why not just let it there?

That's why I want to know in any of the guys in here have already mixed the IC's. In the case the answer is Yes, I'll not remove the HP11C's keyboard scanner, avoiding its destruction (as probably I have done with the 15C's kbd scanner). I'd like to be sure that I'll cause no harm to each IC's by mixing them, that's why I am trying to firstly check.

Some connecting lines from the R2D2 and the keyboard scanner are exclusive o them both, not shared with the rest of the calcualtor, and this does not mean the signals in these lines are common for both pairs. Do you agree?

Any suggestions? I thought about insering s few resistors (1Kohm, 3K3, other) between each connecting terminal from the R2D2 and the keyboard scanner, but I am not sure this will help or disturb.

Thank you again. As soon as I have some news I'm posting them here

Re: I need information about Voyagers IC's

*Message #4 Posted by [Steve Borowsky](#) on 5 Oct 2002, 5:36 p.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)*

Hi Luiz

<<That's why I want to know in any of the guys in here have already mixed the IC's. In the case the answer is Yes, I'll not remove the HP11C's keyboard scanner, avoiding its destruction (as probably I have done with the 15C's kbd scanner). I'd like to be sure that I'll cause no harm to each IC's by mixing them, that's why I am trying to firstly check.

I would be less concerned about incompatibility between the chips than damage from soldering. I think most likely you'll find logic incompatibility rather than electrical incompatibility, if there's any at all. But if you have a current-limiting power supply to test the new configuration that might be the best compromise.

Some connecting lines from the R2D2 and the keyboard scanner are exclusive o them both, not shared with the rest of the calcualtor, and this does not mean the signals in these lines are common for both pairs. Do you agree?

If the lines are common on both types of keyboard scanner I would find that encouraging.

Any suggestions? I thought about insering s few resistors (1Kohm, 3K3, other) between each connecting terminal from the R2D2 and the keyboard scanner, but I am not sure this will help or disturb.>>

I would go for the least amount of soldering as possible. Besides, you don't know if these resistors would be helping or hurting so why bother?

Re: I need information about Voyagers IC's

Message #5 Posted by [David Smith](#) on 5 Oct 2002, 1:47 p.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

My guess is that they are pin compatible chips. HP seems to place different part numbers on the same (or internally compatible) chips.

All the Woodstock machines have different part number ACT chips, but they interchange freely between all the machines. An HP21 ACT works fine in an HP97, etc. The same thing goes for the CPU chip in HP35/45/55/70 machines. I have seen three different part numbers, but they all seem to be interchangeable. Same for the display driver chips in the classic machines.

Re: I need information about Voyagers IC's

Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 5 Oct 2002, 5:30 p.m.,
in response to message #5 by David Smith

HI;

I believe I can give these guys (the IC's) a try. On Monday I'm gonna take some hours and carefully make a "transplant surgery", placing the two 15C's IC's (R2D2 and 1LH1-0302, the third IC) with the 11C's keyboard scanner. As soon as I have the news, I'm posting them here.

If there is anything else you, guys, want to post, please, feel free; if you believe you should e-mail me directly, be my guest.

Thank you all for your support.

Best regards.

Re: I need information about Voyagers IC's

Message #7 Posted by [Steve Borowsky](#) on 5 Oct 2002, 5:41 p.m.,
in response to message #6 by Vieira, Luiz C. (Brazil)

<<I believe I can give these guys (the IC's) a try. On Monday I'm gonna take some hours and carefully make a "transplant surgery", placing the two 15C's IC's (R2D2 and 1LH1-0302, the third IC) with the 11C's keyboard scanner. As soon as I have the news, I'm posting them here.>>

Yes, please be careful; you are no longer doing it for just yourself, you know ;-)

Voyagers current consumption: a question

Message #8 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Oct 2002, 6:58 p.m.,
in response to message #7 by Steve Borowsky

Hi;

I am going to add a series resistor to the batteries' contact so if there is more current than the expected (short circuit?) the voltage will drop across the resistance. Do any of you know what's the average (mAmps? uAmps?) current consumption when a voyager (preferably an HP15C) is OFF and ON? That would help computing the resistor value (I have no such precise multimeter for low current measurement; the one I use is a rebuilt unit that had its current input destroyed by previous owner that tried to measure AC outlet with mode switch in mA position...). If nobody knows about it, I'll try to find someone that can borrow me a precise ammeter.

Thanks in advance.

Re: Voyagers current consumption: a question

Message #9 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 6 Oct 2002, 8:55 p.m.,
in response to message #8 by Vieira, Luiz C. (Brazil)

Luiz: A guess, since I have no Voyager to measure. I would assume that a normal current should not exceed 20 mA. Assuming a voltage drop of 0.3 Vols in VBat, (not to make it drop too much in normal use), the answer would be 15 ohms. 1/8 Watt is enough rating for the resistor.

Please think in some manner in which you could shortcircuit the resistor later, once you feel safe, so not to lose that battery power just heating the universe...

As always, is nice hearing from you. Regards.

Andrés

Re: Voyagers current consumption: a question

Message #10 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Oct 2002, 9:38 p.m.,
in response to message #9 by Andrés C. Rodríguez (Argentina)

Hi, Andrés;

I'd say the same reading your post. Thank you.

Well, to the business: did you take in account normal operation of the three MOS IC's? In any way, you called my attention to one fact: I have a working HP15C and I can simply place the resistor in series with this 15C's batteries and measure the voltage drop (Duuh!). I'll place the same resistor in the 15'stein (please, don't blame me...) and measure with the same equipment. No need to be that precise; if voltage drop is a lot different, I'll plug it off and try the original keyboard scanner. Thank you for the suggestion.

Now, going to our countries: today we had the election for president and some political staff "actors" in Brazil (I don't know the terms for Deputado and Senador the way they use here and in Argentina). Well, let's hope something different happens here. What about Argentina?

My best regards and thank you for the kind words.

Cheers.

Off topic

Message #11 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 7 Oct 2002, 8:15 a.m.,
in response to message #10 by Vieira, Luiz C. (Brazil)

One of my favorite jokes is: "We are doing well. We sink at the planned speed"

Not to be so pessimistic, things have been more or less stable for the last 3 or 4 months, but a zero derivative doesn't guarantee a nice steady state... We will have presidential elections in March and maybe some "Senadores" and "Diputados" renewal at the same time...

Voyagers' rescue delayed a bit

*Message #12 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 8 Oct 2002, 7:05 p.m.,
in response to message #10 by Vieira, Luiz C. (Brazil)*

Hi, folks;

forgive-me not posting anything so far; I did not find the (enough, specific, dedicated) time to do the trasplantation. As I get to it, I'm posting in a new thread.

Thank you for your support and patience.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

This is kind of amusing...

Message #1 Posted by [Michael](#) on 3 Oct 2002, 2:43 p.m.

<http://www.efmoody.com/hp12c.html>

There is link to the museum. Sorry if this has been posted before.

Remember to always ask to inspect any prospective CFP's calculator.

Re: This is kind of amusing...

Message #2 Posted by [Christof \(Davis, CA\)](#) on 3 Oct 2002, 3:32 p.m.,
in response to message #1 by Michael

Heheheh, that's great. And while it is especially nice that they mention the 12C as such, the idea behind it is even better.

It's similar to my stats prof who says you can use any calculator program on a test as long as you write the program. otherwise you "don't know dirt about what the program tells to you".

I'd be a bit scared of a financial planner who couldn't do basic compound interest on a calculator. or a napkin.

Re: This is kind of amusing...

Message #3 Posted by [db\(martinez,california\)](#) on 4 Oct 2002, 12:07 a.m.,
in response to message #2 by Christof (Davis, CA)

....but it is not definitive. remember all those enron 12c's that were on ebay a while back? i bet there were a lot of hp users at arthur anderson too.

Watch out...I used to work for Arthur Andersen :-)

*Message #4 Posted by [Gene](#) on 4 Oct 2002, 7:32 a.m.,
in response to message #3 by db(martinez,california)*

Left in 1994. Guess my reputation is ok. :-)

And, I use a 12c more often than any other HP.

Gene

Re: Enron, Arthur Andersen . . . GIMO

*Message #5 Posted by [Paul Brogger](#) on 4 Oct 2002, 2:36 p.m.,
in response to message #3 by db(martinez,california)*

"Garbage In, Malfeasance Out"

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP25 on Ebay

Message #1 Posted by [David Smith](#) on 3 Oct 2002, 2:14 p.m.

For a quick giggle check out Ebay auction 1384588609. \$132+ for a carved, ugly, little beastie. I wonder what he would pay for a like new one...

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Copycat again??!!

Message #1 Posted by [Luis](#) on 3 Oct 2002, 1:34 p.m.

<http://cgi.ebay.de/ws/eBayISAPI.dll?ViewItem&item=2059262421> Dave: just to make justice for the eBay buyers. Luis

Would someone who speaks German...

Message #2 Posted by [Dave Hicks](#) on 3 Oct 2002, 10:36 p.m.,
in response to message #1 by Luis

mind asking him to note the source of the pictures. If I use a translator program I'll probably end up asking him to radiate me to the top of his boat.

You could try something like this...

Message #3 Posted by [thibaut.be](#) on 4 Oct 2002, 2:43 a.m.,
in response to message #2 by Dave Hicks

Sehr geehrter Herr,

Können Sie den Ursprung der Photos erwähnen, die Sie in Ihren Verkäufen zeigen?

Danke!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-71B versions

Message #1 Posted by [ed](#) on 3 Oct 2002, 12:37 p.m.

Hi Guys

I have an HP-71B (May 1985 production) that I purchased for 28 pounds (British) with an HP-IL module attached and some HP-IL leads also. Was this a good price?

It is one of the so-called "metal back" issues, I know this as I have looked at the pictures of the HP-71B on this site and it is obviously a plastic back with no obvious screws (unlike my model).

Were there any other differences other than the back? How can I check the ROM version and such like?

Also where can I get a manual for the HP-71B without buying a CD? I'm not trying to get out of buying it but I haven't a credit card and by post to the US would be a big deal (with money orders and such like it will no doubt double the price) - I am in the UK.

thanks guys proaustin@hotmail.com

Re: HP-71B versions

Message #2 Posted by [Raymond Hellstern \(Germany\)](#) on 3 Oct 2002, 5:13 p.m.,
in response to message #1 by ed

Hi,

to get the version, type VER\$ and hit ENDLINE.

As for manuals, maybe one of the other UK residents frequently here could help you.

Raymond

Re: HP-71B versions

*Message #3 Posted by [Chris Randle \(UK\)](#) on 4 Oct 2002, 3:02 p.m.,
in response to message #2 by Raymond Hellstern (Germany)*

I'm in the UK and I may be able to help in two ways.

1) Reassurance. I bought the CDs from Dave (Hicks) in the US, and they arrived very quickly with no extra charges. In my experience, this is just down to luck. Sometimes you get stung for import duty + VAT, sometimes not. It's quite a slim package, which might mean it's less likely to attract bureaucratic attention.

2) If you're really desperate, I can order for you with my credit card. This does raise some questions about trust both ways which I can discuss off-line with you (ed) if you want.

Re: HP-71B versions

*Message #4 Posted by [Chris Catotti \(Florida\)](#) on 4 Oct 2002, 9:56 p.m.,
in response to message #3 by Chris Randle (UK)*

I can accept cash in British Pounds or European Euros using the exchange rates at <http://www.xe.net/ucc/>

I could give Dave my credit card number.

The exchange rates at my bank and at PayPal I find rather painful. I would rather have cash in Euros or Pounds, than have to buy them at the bank.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Wow!!! HP-15C

Message #1 Posted by [ed](#) on 3 Oct 2002, 12:22 p.m.

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1385374375>

The price is cliiiiiiiiiiiiimmmmmmbing

\$189 with over 4.5 days to go!

I always have wanted this 10 series calc, but the price is far higher than any 11C would even get!

Re: Wow!!! HP-15C

Message #2 Posted by [Jo midler](#) on 3 Oct 2002, 12:26 p.m.,
in response to message #1 by ed

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1384348813>

this one only went for 14 bucks with buy-it-now.... wow not buy of the day as somebody else mentioned a few threads ago.. perhaps buy of the year....

Re: Wow!!! HP-15C

Message #3 Posted by [David Smith](#) on 3 Oct 2002, 12:58 p.m.,
in response to message #1 by ed

Actually, I remember an 11C that went for \$375 a few months back. It was Mint-in-Box, but still... I have seen 15's pass \$500.

That's not very high

Message #4 Posted by [Mike](#) on 4 Oct 2002, 6:19 p.m.,
in response to message #1 by ed

I have seen most on ebay sell for more than that.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Hp 28s number format

Message #1 Posted by [Joan Cardenas](#) on 3 Oct 2002, 7:17 a.m.

Hello,

Is somebody know how to get the following number format in a Hp 28s ?

1.234,89

Thanks in advance

Re: Hp 28s number format

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 3 Oct 2002, 11:10 a.m.,
in response to message #1 by Joan Cardenas

Hi;

the HP28S offers two ways to accomplish this:

- 1) - press the [SHIFT] key (the dark-red one in the right-side keyboard)
- 2) - press the cursor key, where you read MODE in dark red, over the key
- 3) - press [NEXT] key, the last key, right side, in the same row
- 4) - find the label [RDX,], over the fifth key in the top row;
- 5) - press the key right above it; you see that it appears a little square in the label itself

Now your numbers will be shown with a comma as a decimal radix instead of a period. You can also type:

48 SF

and press [ENTER] to get the same result. If you want to get back to the default, you type:

I hope it helps.

Re: Hp 28s number format

*Message #3 Posted by [Joan Cardenas](#) on 3 Oct 2002, 11:42 a.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Thank you Mr.Vieira,

But probably I didn't explain well the problem;

the display shows the number

2944633622,84

and I'd like to see

2.944.633.622,84

In the rest of the Hp machines I know is possible, isn't the same in the Hp 28s.?

Lots of thanks

Re: Hp 28s number format

*Message #4 Posted by [Glen Kilpatrick](#) on 3 Oct 2002, 11:54 a.m.,
in response to message #3 by Joan Cardenas*

That *looks* like (gimme a break here, it's been a long time since I owned a 28) you've already got the RADIX correct, and have STD display set. Try 2 FIX instead (that works for my 48S).

Re: Hp 28s number format

Message #5 Posted by [Joan Cárdenas](#) on 3 Oct 2002, 12:25 p.m.,
in response to message #4 by Glen Kilpatrick

It don't work,

I think the Hp 28 use the comma or the point instead of the space for to separate two different objects, if is true is going to be impossible to see the number in that way.

Re: Hp 28s number format

Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 3 Oct 2002, 12:35 p.m.,
in response to message #5 by Joan Cárdenas

Hi;

You're right: there is no thousands separator in the HP28S. If you have period as radix mark, either comma OR space act as number separator; if you have comma as radix mark, period OR space will separate number (e.g. complex numbers, matrix elements, etc.).

I missed this in your first question; you made it correctly.

Cheers.

Re: Hp 28s number format

Message #7 Posted by [joan cardenas](#) on 4 Oct 2002, 9:34 a.m.,
in response to message #6 by Vieira, Luiz C. (Brazil)

That's a real shame.

I think the feeling of Hp28's keys are nearly perfect, much better than other Hp like 32sii, 48gx ,42s and of course 49g, but working with big numbers is impossible be comfortable with the display format.

I'll continue searching....

Cheers

Re: Hp 28s number format

Message #8 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 4 Oct 2002, 9:57 a.m.,
in response to message #7 by joan cardenas

Me, again.

Would a small program help? Say, a small program that you would use just to show the final result with thousands separator? If so, tell me and I'll do it. In fact, my neurons are thinking of 1000, /, ->STR, ".", POS... It can be done, for sure.

Just a moment and I'm calling you back...

Re: Hp 28s number format - the final program

Message #9 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 4 Oct 2002, 2:04 p.m.,
in response to message #7 by joan cardenas

Hi;

The first version of this program took me a little bit longer because I had to drive my daughter to school.

Later, some complications were detected, sometimes when STD mode was set, others when FIX mode was set. I realised that the same number will have a different character size in both representation, and that was the major trouble. We know that, but the program must detect it.

I know the final program (shown here) is somewhat big, but I did not refine it. Here is the listing: (A1 is an auxiliary program; the main one I named THO, for thousand)

```
« IF OVER SIZE == THEN "0" SWAP + END »  
'A1' [STO]
```

```
« DUP ABS RCLF -> N F  
  « N FP ->STR  
    IF DUP SIZE 1 ==  
      THEN DROP ""  
    END  
    IF DUP 1 1 SUB "0" ==  
      THEN 2 OVER SIZE SUB  
    END -> W  
  « 0 FIX ""  
    WHILE N XPON 2 >
```

```

      REPEAT 48 FC? ", " "." IFTE N 1000 / DUP 'N' STO FP 1000 * IP ->STR 2 A1 3 A1
1 3 SUB + SWAP +
      END N IP ->STR 1 OVER SIZE 1 - SUB SWAP + W + OVER 0 <
      IF
      THEN "-" SWAP +
      END F STOF 1 DISP
    »
  »
»
'THO' [sto]

```

It will work fine with negative numbers with FIX or STD modes, regardless radix mark type (it detects). Also, exponent of ten should be less than 12. If you use ENG or SCI, resulting display will be awkward.

I am almost sure it can be smaller, but I did not take the time to shorten it. If someone else has a shorter version, please, post it here.

Hope it helps.

Re: Hp 28s number format - the final program

*Message #10 Posted by [Joan Cárdenas](#) on 6 Oct 2002, 3:55 p.m.,
in response to message #9 by Vieira, Luiz C. (Brazil)*

I'm impressed, is exactly what I need for my new Hp 28s. The little program is unexpensive for me.

A lot of thanks Luiz.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Spice disassembly

Message #1 Posted by [Karl Schneider](#) on 3 Oct 2002, 5:08 a.m.

I discovered a clever method for separating the case halves of a Spice unit, after the techniques listed in MoHPC failed to work for me. I have photographed the technique, but have not yet written up an article for the tech archives.

Tie a loop of waxed dental floss. After removing the two screws in the battery compartment, place the calc face down and spread the halves apart at the top no more than an inch (watch the battery terminals). Insert the floss between the halves and slide it past all six tabs (three each side) and around the corners at the bottom so that the floss exits through the case seam at two places on the bottom edge. Internally, the floss should wrap around the long hooked bridge attached to the bottom case half.

Hold the main (top) case half in place on the table face down (use a rubber glove if you like) and gently pull the loop of floss away from the calc in order to detach the smaller back case half.

I've used this technique three times without damaging a case.

Re: Spice disassembly

Message #2 Posted by [Vassilis Prevelakis](#) on 11 Oct 2002, 2:02 a.m.,
in response to message #1 by Karl Schneider

Really good advice. I managed to open my 33C this way. Inside was a mess, the flat sheet with traces linking the battery terminals to the internal PSU was badly corroded.

The trace corresponding to the (+) charging terminal was broken, but this is not a problem as I am charging the batteries externally, but the pad of the (+) supply did not make reliable contact; this is the end point of the flex connector sheet that makes contact with the keyboard assembly.

I cleaned the contacts, but both sides (the flex side and the keyboard assembly side had dark patches from the corrosion).

In the end I stole a bit of foam from the keyboard assembly and inserted it under the flex connector sheet on the PSU side. This increased the pressure with which the flex sheet is pressed against the keyboard assembly, finally making reliable contact.

BTW my 33C is the old style with the unsoldered ICs.

**vp

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Dead 17BII Options

Message #1 Posted by [Greg](#) on 2 Oct 2002, 8:33 p.m.

I have a 10 year old HP 17BII calculator that's stopped working. It doesn't turn on any more, that is, nothing shows up in the display when I press the on button. I tried replacing the batteries but still get no response.

Is there any way to fix this? Is there a repair shop capable of fixing it, or can it be sent back to HP? What would be the cost?

If it can't be fixed, is there any value left to this unit? What's a reasonable price that it would sell for?

Re: Dead 17BII Options

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 2 Oct 2002, 11:04 p.m.,
in response to message #1 by Greg

Hi;

A simple and efficient, procedure is: while the batteries are kept in their compartment, use a piece of conductive wire (a conveniently folded paper clip is fine) and BRIEFLY shorten the batteries contacts. Many HP calculators got back to life after this.

Even strange and apparently dangerous, a BRIEF (less than 1 second) short in the + and - poles with the batteries in will drop the final voltage for a time that's enough to reset all of the calculator's hardware.

Hope you get success.

Best regards.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: resurrecting a 32E -my oldest so far

Message #1 Posted by [Christof \(Davis, CA\)](#) on 2 Oct 2002, 1:36 p.m.

both methods work, I tried :)

now I appear to have corrosive damage to the conductor ribbon and charging/battery circuit board, broken leads in the battery compartment, no battery pack nor charger (of course), and an otherwise quite clean calculator.

since I need to replace the entire power system from the conductive cable (about half of it- it didn't get down to the actual calculator board) on, I'm considering "restructuring" a bit. This may seem heretical, but it's not a NIB collector piece. It's that calculator I intend to use on tests where programmables are not permitted and someone is smart enough to see a 41/42/32 as programmable.

Am I correct in assuming that it uses 2 1.25 volt nicads, and the charger supplies ~3volts? (really low amps)

Re: resurrecting a 32E -my oldest so far

Message #2 Posted by [Glen Kilpatrick](#) on 2 Oct 2002, 2:18 p.m.,

in response to message #1 by Christof (Davis, CA)

So Christof, *where* did you find a 32E? I haven't seen an HP calculator of any vintage for sale in Davis for years, not at All Things Right & Relevant (by Nugget), not at the used place on 3rd east of the railroad tracks (near the car wash), and not at *any* garage sale (the last one of those I got was a 41, many years ago).

Please pass on your secret, I *promise* not to tell anyone.

Re: resurrecting a 32E -my oldest so far

*Message #3 Posted by [Christof \(Davis, CA\)](#) on 2 Oct 2002, 3:11 p.m.,
in response to message #2 by Glen Kilpatrick*

True enough, while there are a *lot* of HP calcs in Davis, they are mostly in use!

I confess that I took a cross country trip this weekend past and did some random stopping in flea markets and whatnots. This is a philadelphia goodwill find, actually.

I do browse the local second hand shops pretty often.

So, where in the great Sacramento River Valley are you?

PS: The goodwill in belair, MD and lancaster, PA often have the most fantastic things (just a not for anyone who haunts those parts of the world)

Re: resurrecting a 32E -my oldest so far

*Message #4 Posted by [db\(martinez,california\)](#) on 2 Oct 2002, 11:20 p.m.,
in response to message #3 by Christof (Davis, CA)*

hey neighbor; i have a spare spice charger. we have to get together again for that photocopying-trading binge some day soon. i've been working too much lately and lazy the rest of the time. - d

Re: resurrecting a 32E -my oldest so far

*Message #5 Posted by [Christof \(Davis, CA\)](#) on 3 Oct 2002, 3:58 a.m.,
in response to message #4 by db(martinez,california)*

I've been going full speed, too. I've got bits for you, though. Need to start a photocopying spree.

Dunno if I really need a spice charger at this point, since I have to rebuild the whole power arrangement, I might just build with modern 3V?

Lunch

Message #6 Posted by [Glen Kilpatrick](#) on 3 Oct 2002, 11:49 a.m.,
in response to message #3 by Christof (Davis, CA)

I see why I haven't been finding any second hand HPs locally, you got there first! And MD? PA? Rats, that's 'way too far to check out.

Uhhhh, I'm out near Ray's Market (Far out in the uncharted backwaters of the unfashionable end of the Western Spiral arm of, uhhh, Davis). Let's take this offline (true_builder@yahoo.com), if you want to lunch sometime (I'm partial to Murder Burger, or whatever-the-heck it's called these days, and a former landlord runs London Fish & Chips). Alas, I don't have a Spice charger to tempt you, but we can each bring some toys to Ohh & Ahh over.

Re: Lunch

Message #7 Posted by [Christof \(Davis, CA\)](#) on 3 Oct 2002, 3:42 p.m.,
in response to message #6 by Glen Kilpatrick

I'll pull it offline- but wanted to mention on the boards that we could get together with DB as well, on his next drive through?

Re: Lunch

Message #8 Posted by [Glen Kilpatrick](#) on 3 Oct 2002, 6:35 p.m.,
in response to message #7 by Christof (Davis, CA)

Agreed, DB, please advise the next time you cruise through Davis CA. C & I seem to be best suited to Monday afternoons.

Re: Lunch

Message #9 Posted by [db\(martinez,california\)](#) on 4 Oct 2002, 12:28 a.m.,
in response to message #8 by Glen Kilpatrick

i'll be passing through the home of the aggies at about 5 pm this sunday with my sweetie. m thinks that my nerdy hobby is, well, nerdy. if theres beer at the fish and chips place she'll go but she might act like she doesn't know us.

if this doesn't work - then sometime soon. email me. if the subject has nothing to do with viagra, debt managment, body part enlargment, teenage bathroom cams, or refinancing my home i'll read it.

Re: Lunch

*Message #10 Posted by [Christof \(Davis, CA\)](#) on 4 Oct 2002, 1:13 a.m.,
in response to message #9 by db(martinez,california)*

As far as I know, I'm not doing anything Sunday afternoon beyond stats, chem, and psych. All of which are pretty variable and portable.

Beer, fish, chips, and fried snickers bars are all available.

Anyone else who cares to fly by should email me for location and specifics- it's about a block from border's.

We could attempt to have a digital camera present or something. Dave- want to have a "museum meets" section?

Re: Lunch

*Message #11 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 4 Oct 2002, 6:03 a.m.,
in response to message #10 by Christof (Davis, CA)*

Send me a post card, pleeeeeease!

(that's all I can think of by now... teenage bathroom camera? Gee...)

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Dead HP11C

Message #1 Posted by [Julie Whitmore](#) on 2 Oct 2002, 11:56 a.m.

My HP11C is no longer working. The spring battery contacts no longer make contact with the battery. Does anyone know where I can buy replacements? I can repair the calculator myself if I can find the parts.

Re: Dead HP11C

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 2 Oct 2002, 12:46 p.m.,
in response to message #1 by Julie Whitmore

Hi;

Just to identify what type of internals your HP11C has: when you mention that the spring contacts no longer make contact with the batteries, you see one metal strip on each side of the batteries compartment or one spring in one side (closer to the corner) and one small tab in the other? Would you describe them?

There are two basic internals for the HP11C (all voyagers, except the HP12C that has 4 different internals). In the HP11C you can identify the internals by the type of batteries contacts: if two metal strips, earlier type; if one spring and a tab, newer one.

Chances are that you may have a bad contact because of oxidation OR twisted strips. If you have to, will you open the calculator for checking AND soldering, in a worst situation?

Success! (and excuse-me for any failure in my foreign English...)

Re: Dead HP11C

*Message #3 Posted by [Julie Whitmore](#) on 3 Oct 2002, 6:41 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Hi Vieira, Now I'm really confused. I have contacts that are link leaf springs. Each end has 3 pieces of metal. On one end, I see 2 are like springs, one is flat. Maybe they should all be springy, but the inner one is closer to flat. On the other end, I managed to break off (ouch!) the inner spring. The two remaining contacts look flat. I think they are supposed to be springs. I did manage to get my calculator to work again by putting a piece of copper shim in between the batter contact and the battery. This extra material did the trick. I still would like to find a supplier of those leaf spring batter contacts, but I now understand that the design was changed so it might be impossible. At least that seems to be the only problem with my calculator.

Re: Dead HP11C

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 3 Oct 2002, 10:07 p.m.,
in response to message #3 by Julie Whitmore*

Great news!

And you are right. The mid metal piece of each contact (one for each battery pole) is there to keep the set firmly locked in the plastic sides of the batteries compartment, it has structural assignment, not electrical action. The two sided metal pieces are the ones to make contact with the batteries.

Your solution is a good one, and the best to be done by now is keeping like this until we find a better solution. The problem is that the copper may oxide, and corrode the contacts. I'd try to manage the remaining two metal contacts and remove the extra copper shim. I cannot think about how will you get a replacement except in other earlier Voyager. Anyway, I believe anyone that deals with metal springs in your town will be able to rework the remaining spring based on the other one in the opposed pole (they are identical).

If your HP11C is back to life, these springs are no longer the worst problem.

I'm glad your 11C is working. Please, post again if you need more advice.

Best regards.

Re: Dead HP11C (Old-HP-Quality beats death)

*Message #5 Posted by [Erich Neubacher](#) on 26 Oct 2002, 4:26 p.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)*

Hi Luiz,

do you remember our discussion about a dead HP11C the other day ?

Here is the good news.....he is alive again !!!

And this is the story: I bought a HP71B and read about the ON/OFF-section...and maybe here I have found the key...."8. If the display remains blank when "ON" is pressed...d. Press or hold down "ON" for about 30 seconds to *discharge the circuits*"

I pressed the "ON"-key about 60 seconds and now my good old HP11C is working like a devil :))

Thank you, *OLD* HP, for the quality of your calculators.

greetings from a happy.....Erich N.

Re: Dead HP11C (Old-HP-Quality beats death)

*Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 26 Oct 2002, 10:09 p.m.,
in response to message #5 by Erich Neubacher*

Hi, Erich;

this is the sort of news that amuses me. Thank you twice: addressing me and letting us all know about this new trick.

Taking a ride in your post: I started a thread a few days ago about "resurrecting" an HP15C by using an old HP11C's case and PCB. I was waiting for the chance to tell everybody that the HP11C is working... Yes, after disassembling it and removing the PCB from the case, I inspected it and saw a corroded and interrupted track. After cleaning and using a conductive ink, the HP11C's circuitry got back to life.

I did not give up the HP15C (forgive-me you who prefer the HP11C, but the HP15C is a lot more powerful), mostly because I am an electrical engineer and

the HP15C works with complex numbers, matrices, integrals and has more than double available user memory. As soon as I am definitely decided to do it, I'm removing the 11C's IC's and testing the 15C's IC's. If the HP15C proves being alive, I'll keep the 11C's IC's as spares. I'll let you know.

For your HP11C, Erich: *Live long and prosper!*

Cheers.

Re: Dead HP11C (Old-HP-Quality beats death)

Message #7 Posted by [Erich Neubacher](#) on 27 Oct 2002, 4:25 a.m.,
in response to message #6 by Vieira, Luiz C. (Brazil)

Hi Luiz,

I wrote it to you (and the others), because I know that we are loving these positive messages.

But I wouldn't belong to this "mad" community if I would only working with a HP11C. Here is another story about one of your favorites....a HP15C. [the Voyagers are the sexiest of the HP's to me. Pioneers probably the best in daily using, performance and the huge number of functions. But 41C is all-time-winner]

I bought this HP15C with a known flaw: the lowest segment of the rightmost digit didn't work. When I tested the machine the lower segment of the fifth digit additionally wasn't working. But when I hardly pressed the metal surface of the machine it works again....sometimes. Hmm, seems not to be a very serious problem. Because I had this victory with my HP11C yesterday, I tried the same procedure (remove batteries and press "ON" 30-60 seconds) with the HP15C. Ooops, now the first flaw (defective lower segment of the very important rightmost digit) was gone, but the other one is still there :((

I'm full with hope that I will find the cause of this minor defects and to give this marvellous machine a greatful future.

thanks for your encouragements.....Erich N.

Re: Dead HP11C (Old-HP-Quality beats death)

Message #8 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 27 Oct 2002, 10:06 a.m.,
in response to message #7 by Erich Neubacher

Hi, Erich;

just for us to be sure about which internals does your 15C have.

Look at the batteries contacts and verify if there are two metal strips, three slices each, or one spring in the positive pole (leftmost) and a small, golden plated tab in the negative pole. If option one is true, you have a flex-circuit assy 15C; if option two is the one (spring + tab), yours is a single PCB model.

Ahead with the difficulties on disassembling, I prefer option two, mostly because circuit stability is better, and reparation is easier. If you need so, I have both types as disassembled stuff, so I can generate some images (no photo camera, just an acceptable scanner) for you to think about it.

Let me know if you want to.

Success. (I also have the Voyagers as "perfect" in many aspects. It seems as if they were designed with passion. I feel "excited" when using them, and about being sexy... I just did not give my thoughts this sort of freedom of speech. But I agree with you...)

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP38G Manual

Message #1 Posted by [Chan Tran](#) on 2 Oct 2002, 11:42 a.m.

The HP38G manual is not on the museum CD's. I wonder how to obtain a copy of the manual. Chan

Re: HP38G Manual

Message #2 Posted by [Emmanuel](#) on 2 Oct 2002, 4:58 p.m.,
in response to message #1 by Chan Tran

I have a spare 'original' one. Yours. Please use xavier.compes@wanadoo.fr until 04/10.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: Rechargeable Battery for HP-29c

Message #1 Posted by [Dave](#) on 2 Oct 2002, 11:25 a.m.

You have to rebuild these yourself. Cut the thin bar between the batteries and replace with NiCad rechargables. Some people have used other types (alkaline NMH) but I am not sure they can be recharged in the calc (of course the alkaline cannot)

Re: Rechargeable Battery for HP-29c

Message #2 Posted by [David Smith](#) on 2 Oct 2002, 6:04 p.m.,
in response to message #1 by Dave

Nickle metal hydride cells work great in the Woodstock machines. But, if at all possible, NEVER charge a pack in your 29C or 25C. These machines are very fragile electrically. If your pack is not making good contact or has an open cell, voltages large enough to damage the machine are produced... EVEN IF THE MACHINE IS TURNED OFF!. The other Woodstock machines are a LITTLE more forgiving. At least when the power switch is off, the electronics are truly turned off.

Try to find the external charger stand (hard to find) or a beat up or dead machine (all too easy) to use as an external charger.

Any good battery store (Batteries Plus, Batteries, Etc) can rebuild your old pack for less than 20 bucks. In a pinch you can put a couple of AA alkaline cells in the holder. Just dont connect it them to a charger.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Extended Memory in HP-41 Emulator

Message #1 Posted by [Bill Hemphill](#) on 2 Oct 2002, 7:50 a.m.

Is it possible to load an extended memory rom image into the HP-41 Emulator? I haven't seen any extended memory images or the HEPAX Memory images either.

Bill Hemphill

Re: Extended Memory in HP-41 Emulator

Message #2 Posted by [HrastProgrammer](#) on 3 Oct 2002, 1:57 a.m.,
in response to message #1 by Bill Hemphill

I am not sure what do you mean by 'Extended Memory ROM Images'. Extended memory is a kind of RAM, not ROM, isn't it? There are few HP-41 Emulators out there. In which one are you interested?

Greetings.

Re: Extended Memory in HP-41 Emulator

Message #3 Posted by [Vassilis Prevelakis](#) on 3 Oct 2002, 2:35 a.m.,
in response to message #2 by HrastProgrammer

I think he means the ROM Image from the Extended Functions/Memory Module. This module contains a number of useful commands as well as the Extended Memory RAM.

**vp

Re: Extended Memory in HP-41 Emulator

Message #4 Posted by [HrastProgrammer](#) on 3 Oct 2002, 4:06 a.m.,
in response to message #3 by Vassilis Prevelakis

Extended Functions/Memory module is fully supported under HP-41X emulator ...

Re: Extended Memory in HP-41 Emulator

Message #5 Posted by [Bill Hemphill](#) on 3 Oct 2002, 6:48 a.m.,
in response to message #2 by HrastProgrammer

I do mean RAM. I should have said X-Memory, that gives additional registers. Likewise, the Hepax Memory module gives additional memory.

I'm using the V41 emulator on the PC and the Coconut emulator on the Sony Clie. Both allow for use of the various ROM image files to access various modules.

I'd like to also use the x-memory modules or Hepax memory modules. Is this possible??

Thanks Bill Hemphill

Re: Extended Memory in HP-41 Emulator

Message #6 Posted by [Christoph Klug](#) on 4 Oct 2002, 8:52 a.m.,
in response to message #5 by Bill Hemphill

Dear HP-41 emulator enthusiasts,

remember that X-Memory is different from additional RAM of the Hepax-Module or from a RAM-Box (W&W) or from a Ram Storage Unit (Eramco). It would be nice if RAM would be available also for an emulator. This means a virtual RAM-Box feature....

Best wishes from Germany - Christoph

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

resurrecting a 32E -my oldest so far

Message #1 Posted by [Christof \(Davis, CA\)](#) on 2 Oct 2002, 12:14 a.m.

Well, I've found a 32E (serno 2116s34088) which I'm cleaning and getting ready for a new battery pack (2 AA nicads or ???)

I'm having some trouble with disassembly. I've got the two screws on the top end figured out, sure- but what sort of mechanism is holding the bottom part together?

And, what type of charger does this one take, anyway?

Re: resurrecting a 32E -my oldest so far

Message #2 Posted by [Raymond Hellstern](#) on 2 Oct 2002, 4:09 a.m.,
in response to message #1 by Christof (Davis, CA)

Hi,

series 30 disassembly is described here: <http://www.hpmuseum.org/disasm.htm>

The charger is the same for all Spice models: <http://www.hpmuseum.org/batts/battery.htm>

Just look inside the museum...

Raymond

Re: resurrecting a 32E -my oldest so far

Message #3 Posted by [Jerome](#) on 9 Oct 2002, 8:38 a.m.,
in response to message #1 by Christof (Davis, CA)

Why bother with a battery pack...I have been given a 32E with a dead battery pack and I just replaced it with 2 AA size battery and a piece of aluminium sheet (to make contact at one side of the battery box). Easy and damn cheap. It works fine like this for 3 years now...

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Hp 65

Message #1 Posted by [joan cardenas](#) on 1 Oct 2002, 6:11 p.m.

I've just got an old Hp-65 and I have some questions if there is some specialist there, The machine hasn't any charger, is the same of the Hp25? There is a general key bouncing, but the keys seem to have a regular touch feel. Is there any way to replace the battery pack for another kind of batterys?

Thanks in advance.

Re: Hp 65

Message #2 Posted by [Dave](#) on 1 Oct 2002, 7:10 p.m.,
in response to message #1 by joan cardenas

It needs a classioc series charger (35,45,65,67,70,80,55) Three female plugs. The 25 series had 2 prongs.

Get a pack rebuilt at batteries Plus or similar place.

Key bounce can sometimes be helped by opening and fixing the machine (be careful and learn how to do it)

Dave

Re: Hp 65

Message #3 Posted by [Ernie Malaga](#) on 1 Oct 2002, 11:56 p.m.,
in response to message #1 by joan cardenas

Like Dave said, you need the "classic" battery pack for this one; the HP-25 uses a different kind.

One word of warning, however -- the "classic" battery pack gives you only 3 hours of power after a full recharge of FOURTEEN (14) hours. It's always seemed disproportionate to me. If you can, try to find a different solution for your battery replacement. I don't know much about these things, but perhaps the HP-65 can be used directly from the AC adapter/charger, bypassing the batteries altogether.

Can anyone elaborate, please?

-Ernie

Re: Hp 65

Message #4 Posted by [Dave](#) on 2 Oct 2002, 9:26 a.m.,
in response to message #3 by Ernie Malaga

Never operate a HP calc without batteries in place. Voltage surges can fry them. Calcs w/ card readers and printers will be burned out when attempting to operate the motors without batteries.

Re: Hp 65

Message #5 Posted by [Juan J](#) on 2 Oct 2002, 10:00 a.m.,
in response to message #4 by Dave

Dave is right. Never operate an HP without its battery pack, as it can fry the electronics inside.

Regarding battery packs, you can get them from Mark Hoskins, eBay callsign Waterhosko@aol.com. He is a great source for batteries and spare parts, and his advice is excellent when it comes to repairing.

Repairing the 65 is much like repairing the HP-67. There is an article about it in the Articles section.

Re: Hp 65

Message #6 Posted by [Ernie Malaga](#) on 3 Oct 2002, 12:18 a.m.,
in response to message #4 by Dave

The only reason I mentioned bypassing the batteries is that I've read in this forum, repeatedly, that it can be done SAFELY with any of the "classic" HP calculators. If I remember well, it had to do with the way the recharger plug breaks the contact between batteries and CPU while the plug is in place.

I admit I've never done it myself (I used to have an HP-67 many moons ago), but it always irritated me to spend 14 hours charging, just so I could have 2 or 3 hours of operation before the "low battery" light started blinking.

At least the ratio of recharge/use times wasn't as severe for the HP-25.

About a quarter of a century ago a friend of my father's was the owner of the HP distributor in Lima, Peru. I remember visiting them very often, and seeing several calculators that were connected and working without a battery pack, while the technicians did their work.

Comments? -Ernie

Repairing 65

Message #7 Posted by [Mike](#) on 2 Oct 2002, 1:59 p.m.,
in response to message #1 by joan cardenas

Key bounce is simply just dirty key contacts. They are easily cleaned. A piece of fine grit emery under the contacts is all that is required to remove debounce. Just one or two passes is all that is needed. Don't over do it.

Taking the calculator apart without damaging the calculator is another trick that takes practice.

If you have the old battery pack, repairing it yourself is easy and costs less than \$8. Three fine slits on the end to cut through the tabs that hold the pack together is all that is needed. 3 packs of batteries that are already welded are available. Almost dropin. Two easy solder operations is all that is required.

You can buy replacements, and save the work, but they do not have the look of the original battery pack.

Re: Repairing 65

*Message #8 Posted by [David Smith](#) on 2 Oct 2002, 5:54 p.m.,
in response to message #7 by Mike*

If you don't like rebuilding the battery pack yourself, places like Batteries Plus and Batteries, Etc. will rebuild your pack for you for probably less than \$20. They can do a much better job than you can do because they have spot welding equipment to assemble the packs and contacts. Welding does not risk damaging the batteries like soldering can do.

I always use nickel metal hydride cells in my packs. You can get up to three times the capacity of the normal nicads and they don't have that pesky "memory" effect where you have to be careful about charging a pack that is not fully discharged.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

hp85

Message #1 Posted by [Duncan Philip](#) on 1 Oct 2002, 6:33 a.m.

We have as part of a mechanical calibration facility, a Taylor-Hobson Talyvel for checking flatness of surface tables. This incorporates a Hewlett Packard HP85 microcomputer with magnetic tapes containing measurement results and application software.

The HP85 dates from approximately 1982 and although it has been reliable to date, we do not expect it to last much longer. The application software dates from 1986 and was licensed by Taylor Hobson.

We are interested to know if we can extract the measurement data from the original tapes and use it on an up to date format. Also, is it feasible to transfer/reproduce the application software to a PC based system to allow more flexible use and backup facilities.

Any other suggestions would also be welcomed.

Thanks,

Duncan Philip

Cegelec Ltd.

Re: hp85

Message #2 Posted by [Edwin Russell](#) on 2 Oct 2002, 8:08 a.m.,
in response to message #1 by Duncan Philip

Hi Duncan,

In 1981/2 I used an HP-85 as the controller in a gauge to measure the dimensions of gaps in order to make wedges used in the assembly of the toroid magnets in the JET nuclear fusion research reactor near Cambridge, UK.

If I remember correctly, the HP-85 uses HP-BASIC which is like normal BASIC but with extensions for handling extra input-output.

To recover programs you could:

1/ use the in-built printer to list the program and then pass the roll of thermal paper through an OCR scanner,

2/ See if you can re-direct the listing through the HPIB connector on the back (I think it has one) and collect it with another HPIB bus instrument,

3/ See if HP or anyone else can help direct you to a company which can recover your tapes to a new format media. A quick search on Google found: <http://www.vogon.co.uk/> and <http://www.emergencydataservices.co.uk/> although I don't actually know if they support HP-85 tapes - you'll have to contact them - good luck.

Hope this helps. Regards, Edwin.

Re: hp85

Message #3 Posted by [Vassilis Prevelakis](#) on 3 Oct 2002, 2:43 a.m.,
in response to message #2 by Edwin Russell

There is a binary program file GETSAV.BPGM that allows you to SAVE a program as ASCII. Conversely, the GET command allows you to read in an ASCII file and convert it to a BASIC program (as if the instructions were typed on the keyboard).

HP was forced to release this program because of a silly restriction in the Series 80 BASIC system whereby if a program contained even one instruction from a missing ROM module, the system would refuse to load the *entire* program. So the user had no means of working around the inoperable instruction, except by retyping the entire program. By using SAVE and then GET, the program lines containing the unsupported commands were converted into

comments.

The HP-85 with the Mass Storage ROM and the 9121 floppy disk drive can create floppies that are readable by standard PCs running the HP LIFUTIL application.

As I have all the above equipment, I have offered Duncan to assist in the xfer of the programs and data from the HP-85 tapes to PC floppies.

Best Regards

**vp

Re: hp85

*Message #4 Posted by [JR\(Italy\)](#) on 2 Oct 2002, 9:27 a.m.,
in response to message #1 by Duncan Philip*

See this article, it may help you.

http://zone.ni.com/devzone/conceptd.nsf/webmain/EEDB49CE02D7E38386256A640078B9A4?opendocument&node=DZ52348_US

Best Regards

JR

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

CAS bug ?

Message #1 Posted by [mapet](#) on 1 Oct 2002, 4:17 a.m.

The following operation CLEARS MEMORY of my HP 40G when entered into CAS: $\text{integral}(0, \text{inf.}, \tan(x), x)$

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

The smallest HP conference

Message #1 Posted by [Christof \(Davis, CA\)](#) on 30 Sept 2002, 11:01 p.m.

I managed to participate in the smallest "conference" I've ever attended, with the highest calculator to person ratio probably ever achieved!

I drove across country this weekend to near Philadelphia to deliver one of the final 17Bii calcs to Randy Sloyer. Granted, I also drove to deliver honey and a car to another friend, but the 17Bii odyssey is more fun :)

We had present at least: 3 HP42Sen (2 with 32k ram) the aforementioned 17Bii (Which I imagine will get 32k) one HP28S, a 48S and 48GX a 20S and 38G (both of which I didn't even get out)

The conversation was good- as was the opportunity to meet one of the list members.

"We oughtta do this more often"

(on another note, my friend's autistic daughter loves the 38G- and is doing well with it)

-Christof

Re: The smallest HP conference

Message #2 Posted by [Ron Ross](#) on 30 Sept 2002, 11:58 p.m.,
in response to message #1 by Christof (Davis, CA)

Do not bother to add 32K to your 17B. It will not recognize the extra RAM, but remain at 7K. Just advice from someone who tried. Of course if you can code in a memory routine, you might get it to recognize the extra RAM, but you only have a solver, and no advanced programming available.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

x=4? Function

Message #1 Posted by [Shawn](#) on 30 Sept 2002, 8:04 p.m.

Hi, I have a HP 42s. I'd like to write my own function or have the calculator evaluate whether $x=1?$ $x=2?$ $x=3?$ $x=4?$, but the only function that it offers is the relationship to 0. Once the prog. prompts the user to enter 1,2,3 or 4 then it will goto a sub-routine based on the # entered labled w/ corresponding value. Thnx for any help, Shawn

Re: x=4? Function (correct version)

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 1 Oct 2002, 6:38 a.m.,
in response to message #1 by Shawn

Hi;

I posted a solution before (30 Sept 2002, 9:24 p.m.) with mistyped values; this is correct.

There is an **X=Y?** function that will do what you want. Look at the samples bellow: (consider FIX 04 as default)

- you already have a number in the X-register; the display looks:

Y: (anything)
X: (your #)

- you place the number you want to compare: (eg: 4) the display looks:

Y: (your #)
X: 4.0000

- now you use the function **X=Y?**; if your number is 4.0000, the display looks:

Yes
X: 4.0000

- if your number is not 4.0000, the display looks:

No

X: 4.0000

If you are entering a program, you can choose from both:

1) use specific LBL functions (LBL 01, LBL 02, etc.)

If you get in a point where the integer part of the number in the X-register is 1, 2, 3 or 4, you do not need to use X=Y? function; instead, GTO IND ST X will work better. Your program would look like this: (consider step # 20 as a personal choice)

(first program steps)

```
.  
19 PROMPT (you will input your control # here: 1, 2, 3 or 4)  
20 GTO IND ST X  
21 LBL 01  
  (steps when X=1)  
.   
29 RTN  
30 LBL 02  
  (steps when X=2)  
.   
39 RTN  
40 LBL 03  
  (steps when X=3)  
.   
.   
49 RTN  
50 LBL 04  
  (steps when X=4)  
.   
.   
59 RTN  
60 (rest of the program)
```

2) If your labels have different numbers, your program can be like this:

(first program steps)

.

```

19 PROMPT (you input your control # here)
20 1
21 X=Y?
22 GTO xx (label with steps when X=1)
23 CLX
24 2
25 X=Y?
26 GTO yy (label with steps when X=2)
27 CLX
28 3
29 X=Y?
30 GTO zz (label with steps when X=3)
31 CLX
32 4
33 X=Y?
34 GTO ww (label with steps when X=4)
35 ...
.
.
nn LBL xx
  (steps when X=1)
.
.
.

```

If you only have options for 1, 2, 3 or 4, you can eliminate steps 31 to 34; like this:

```

  (first program steps)
.
19 PROMPT (you input your control # here)
20 1
21 X=Y?
22 GTO xx (label with steps when X=1)
23 CLX
24 2
25 X=Y?
26 GTO yy (label with steps when X=2)
27 CLX
28 3
29 X=Y?
30 GTO zz (label with steps when X=3)
  (steps when X=4)
.

```

.
RTN
nn LBL xx
(steps when X=1)

.
.
.
.

If you still need help OR want to know other possibilities and techniques, post your specific problem or e-mail me directly.

Best regards.

I forgot to post my e-mail address

*Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 1 Oct 2002, 10:12 a.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Just to add my e-mail address I forgot when rewriting the post.

Cheers.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HPCC Conference

Message #1 Posted by [Richard Garner](#) on 30 Sept 2002, 11:54 a.m.

Here is the information I finally got from the HPCC group on their conference with the HP Reps.

Hi Richard!

Oops, maybe you should have been included on the conference mailing list. Eric Smith is setting up a permanent conference mailing list for the future, try to get onto it (eric@brouhaha.com).

HP intend to continue in the calculator business! But the new people plan to create only designs. The actual implementation and manufacture will all be subcontracted to large Chinese calculator makers. This seems to be a compromise between those senior HP managers who think that still being in the calculator business is an anachronism for HP, and those who think it is a traditional HP product line and should not be abandoned.

Two new business models made this way are in the works and should be released about Christmas or New Year. HP told us the model numbers, but asked us to keep this stuff confidential for now.

They also said they would continue with RPN - part of the discussion concerned the suggestion that a new name should be used for RPN - HP Logic System or something like that, since the name RPN is used by the other makers as a way to frighten potential customers.

Many of us at the conference felt that this is a bit better than nothing, but that the traditional users who depend on HP quality are likely being abandoned :-(

Hope this helps! :-)

Regards,

Wlodek

Re: HPCC Conference

Message #2 Posted by [Steve Borowsky](#) on 30 Sept 2002, 4:59 p.m.,
in response to message #1 by Richard Garner

That's interesting. I think we all knew there wasn't going to be a determined return to RPN-centric, cost-be-damned, zero-compromise calculator design from HP, but I think the fact that the team can focus only on design, and with RPN still on the table, we may see something good in the future, especially if what you're looking for is just an upgraded 42S or 32SII. Chinese contractors CAN do good work, as long as you make quality a priority. There's a lot of leverage in newer technology since HP's last serious designs and if some of the previous momentum can be recaptured and applied in this new environment good can result.

Re: HPCC Conference

Message #3 Posted by [Ed Martin](#) on 30 Sept 2002, 7:35 p.m.,
in response to message #2 by Steve Borowsky

I agree with Steve on this. After some uninspired outsourced designs, HP at least realizes that they need to offer something different from the rest of the market.

If they outsource their manufacturing, it won't bother me, as long as they put the value where it really belongs. They must offer the elegant (learning curve, but easy to use) interface that is unique to HP calculators, with hardware specs that make us remember the old days. I'm talking about high quality materials, good displays, tactile key feedback. If we're lucky, maybe they'll even do double-molded keys (I doubt it, but there is always hope).

After all, a lot of the end-of-the-run HP calcs made in Indonesia were nothing to write home about as far as build quality is concerned. Near the end, Indonesia produced a lot of junk with poor print registration, bad key feel, and poor fit/finish.

I'm choosing to be optimistic and I hope HP doesn't let me down. If they make a noble try at achieving their prior standards, they'll attract some of my lucre.

- Ed

Re: HPCC Conference - sorry I didn't make it.

Message #4 Posted by [Tom \(UK\)](#) on 1 Oct 2002, 7:01 a.m.,
in response to message #1 by Richard Garner

Any news on a possible HP32Sii replacement? (i.e. a grown up scientific but not graphical?) Or is the HP48/9 going to be the only option for the short to medium term?

From the posting it seems HP are more interested in serving the business market. Perhaps they see this as more profitable.

Glad to see RPN (HPN?) has not been rejected. If RPN is used as a dirty word by some competitors I doubt if HP would put their name or initials to a renaming of it in case HP's name was dragged down.

HP had been doing 'design only' calculators for some years (I don't think ACO made any production stuff). When was the last calculator made in an HP owned factory?

New calculator OR new design? (HPCC Conference)

Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 1 Oct 2002, 10:09 a.m.,
in response to message #1 by Richard Garner

HI;

it's good reading Wlodek's message.

Anyway, I want to add some impressions of mine about these new calculators.

I sincerely hope they are something more than the new Hewlett-Packard models that did not come from ACO: if I am not wrong, they are the HP6S, HP30S and HP10BII. Is it necessary to say what I want to say?

Cheers... (sob!)

Re: New calculator - HP10B

Message #6 Posted by [Gordon Dyer](#) on 1 Oct 2002, 4:50 p.m.,
in response to message #5 by Vieira, Luiz C. (Brazil)

Just to add to the comments...

I just bought a new, in nasty plastic, package HP-10B.

It is very disappointing because of poor key feel, the click on release as though they are sticking and faulty, and the colours for the shifted keys is poor aesthetically and poor visible contrast. The overall finish seems cheap and I wouldn't buy another of that type!

So I have now found an older 10B with original colour and wish I hadn't wasted my money on the new one.

I'm now looking for a buyer....

Re: New calculator - HP10B

Message #7 Posted by [Scuba Diver](#) on 1 Oct 2002, 5:42 p.m.,
in response to message #6 by Gordon Dyer

I know what you mean Gordon.

A few months ago I posted a message here regarding my new, 2002, Indonesia-built 19BII. I found a 1996 model at an electronics store that was still in the box, and its fit and finish are miles ahead of the 2002 model.

I was able to sell it on eBay, however...most people out there won't know the difference!

B.

Re: New design? 30s

Message #8 Posted by [Christof \(Davis, CA\)](#) on 1 Oct 2002, 11:33 p.m.,
in response to message #5 by Vieira, Luiz C. (Brazil)

I'm not opposed to the 30s as it is- it's really quite well suited to the lower level educational market. and for the price range of calculators, it's got an edge in quality and feel. Really! It's NOT a 32E, a 41CX, nor a 42S. but it IS a lot better than the TI30 series. It would be nice if there was a bit more programmability in the solver apps.

It'd be nice if it had even the minimal keystroke programming of the 20S.

but- *for a non-programmable, algebraic, non graphing* calculator, it's *not* a bad product.

I just- like many of us- wish it was rpn and programmable.

I will say that the lack of a real instruction manual has turned off a lot of potential users in classes I take.

I've got a few people turned on the 20s, one to the 48g. none to the 30s- and that's simply the lack of a manual.

Re: New design? 30s - + HP10BII

Message #9 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 2 Oct 2002, 10:01 p.m.,
in response to message #8 by Christof (Davis, CA)

Hi;

Christoff wrote:

for a non-programmable, algebraic, non graphing calculator, it's *not* a bad product.*

I do not own an HP30S, but I had one in hands for a week plus a couple of days in the beginning of this year, and I wish I could by one, believe me. I looks as if it is in between the low-cost available calculators from other manufacturers and the well know HP traditional technology. And you're right: if it is an RPN-based and is programmable (graphical?), it would be a different product, and I'd surely have one. Something like an HP32S in a new fashion...

I'm somewhat curious about the HP10BII. I downloaded the manual and read some parts briefly. It looks differently, and it visually resembles the Xpander (the top and bottom edges have the same curves); still having the Xpander in mind, even the HP30S has the same design for the top four function, coloured keys.

Well, let's take a breath and wait for the end of the year; may Santa bring us new HP calculators...

Cheers.

Re: New design? 30s - + HP10BII

*Message #10 Posted by [Christof \(Davis, CA\)](#) on 3 Oct 2002, 4:02 a.m.,
in response to message #9 by Vieira, Luiz C. (Brazil)*

I am really quite shocked about the cancelling of the 30s. For what it is, it's just so nice.

I guess HP just didn't push it, nor really care about it much.

Again- I think a real manual would have been the best thing possible. I got half way through a guide before realizing that it was cancelled. Now I have to wait for the new ones to make my mark- if it's worth it.

Re: New design? 30s - + HP10BII

*Message #11 Posted by [Glen Kilpatrick](#) on 3 Oct 2002, 11:31 a.m.,
in response to message #9 by Vieira, Luiz C. (Brazil)*

I had my hands on a 10Bii yesterday for a couple of hours. There are (the financial) five keys across the top, lower-left (ON) & upper-left & upper-right still clears continuous memory, but ON & next-to-upper-right produces a display & partial keyboard test. You then run from the upper-left key diagonally down and to the right, "bounce" off the right-most column of keys, and diagonally down and to the left 'til you hit the bottom row (like a check-mark rotated counterclockwise, and note that this tests every row and every column, but not every key). Anything other than this yields a FAIL. After you've reached the bottom row, the display starts cycling, and so far as I could tell, everything but for an ON is ignored. This test seems to be undocumented in the manual (I didn't have that much time to play), and no other ON & top-row keys appeared functional.

As to quality, it stank. The design is interesting, but the silver facing around the display, and around the five financial keys, and a smaller grouping on the second row, all this silver is uneven, evidence of cheap plastic with silver paint (contrast with former technology, where this would be a piece of metal with a sheen, and there would be no humps or valleys). And my brief foray around the keyboard showed significant misregistration. Where my fingers would report one key press, I once got a double digit in the display, but much more often had that key press ignored (the "1" key was particularly troublesome for being missed). If I had to SWAG, I'd say ~1% mistakes, certainly enough that you'd have to be watching the display for confirmation of whatever you were doing, but perhaps not enough to return it for another....

Let's hope that the New HP (rumored to be internal design only, construction subcontracted to China) does better.

Re: New design? 30s

Message #12 Posted by [Paul Brogger](#) on 3 Oct 2002, 10:48 a.m.,
in response to message #8 by Christof (Davis, CA)

I just found a 30s for my son at a local Office Depot. He likes it well enough -- I couldn't sell him on the merits of RPN, so it was the next logical, available HP choice. (His older brother uses a 48G+ in a calculus class that recommends the TI-83+.)

Discontinued? I'll have to go look & see if there are any more.

Calculus Class (was: New design? 30s)

Message #13 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 3 Oct 2002, 11:26 a.m.,
in response to message #12 by Paul Brogger

Hi, Paul;

This is a bit off-topic, but in a sense, it involves calculators' usage in schools, and this is sort of subject that might be of interest for some of us in here.

I mentioned here a couple of times that I'm a teacher (university) and I encourage students to use the calculator as a tool, not a problem-solver. Our problems' solving is not a Hewlett-Packard problem, it's a Head-Power problem.

Now I read your older son uses an HP48G in a calculus class that recommends the TI-83+. I teach math and modern algebra (number theory) and I allow students to use any calculator they want to. I take a couple of classes guiding them in the calculators' usage to check for the final result, showing them the best part - finding a solution - cannot be done with the calculator. I have seen they take the calculators only in the end to conclude the calculus.

If they want to cheat and use the calculator to as a text-memory, I merely ask them how will they do without the machine: no batteries, broken calculator, memory loss, etc. Some of them understand and try their best to achieve final results only.

What's the procedure in the USA classes? Does it depend only on the teacher or the schools have their own standard procedure? I once read a post in here about it, but I don't remember when (as soon as we have the articles it's gonna be easier to find... Oh, yes, Dave; the CD's have just arrived!) and what was "told" about it. I'm curious

to know if I'm doing something valued or not. I see the results immediately, but I don't know about my student's future as professionals.

Thank you

Re: Calculus Class (was: New design? 30s)

Message #14 Posted by [Christof \(Davis, CA\)](#) on 3 Oct 2002, 3:56 p.m.,
in response to message #13 by Vieira, Luiz C. (Brazil)

Luiz-

I'm "back in school" doing some undergrad work for a third career. The stance on calculators is widely varied, as is the understanding of what they can and can't do.

I have friends who are engineering majors who are shocked into speechless acquisitiveness by the idea that a pocket calculator can do matrices *at all* - let alone that ALL the non-graphing calcs that can do so are and most have been out of production for years now.

My (remedial course required for anyone who is out of school for >3 years) algebra teacher was clueless to the point of not understanding what I said when discussing order of operations and types of calculators (see the summer term threads). Current remedial trig (much more fun and useful as the prof is decent) sneers at calculator most of the time- but I think this is a geometers' reaction often enough.

My statistics professor (with whom I am also doing some extra calculus prep work) is an ex-programmer and thinks that if I can learn the material well enough to design and use a program to do it, that's great.

My chemistry professor thinks all calculators should be banned. This professor is overruled, fortunately. (This professor has a bit of a... fetish for preventing cheating. And this oddity makes for some very uncomfortable classes and homework assignments where I am left unable to check my work and determine if I have learned the material!)

My experimental Psych prof shrugs and says that SPSS (statistics software) is faster, but if I like playing with stone age stuff, it's fine.

Not a representative sample, but this is what I deal with as a student. Obviously I prefer the approach of my stats prof.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP75 I/O ROM LEX Filenames

Message #1 Posted by [andy](#) on 30 Sept 2002, 10:43 a.m.

The HP75 allows one to copy LEX files from a ROM to RAM. However, one must first know the name of the LEX file. Does anyone happen to know the name of the LEX files on the 75 I/O ROM?

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

LogicDart and related maintenance questions

Message #1 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 30 Sept 2002, 10:21 a.m.

Hi;

The LogicDart, as mentioned [here](#) and in another thread, was designed by Tony Duell with the HP41 in mind, right? Tony, will it be also useful for other applications, basically Hewlett-Packard calculators maintenance? I have three HP calculators still in the medical bay (1 HP15C that no longer switches to ON, 1 HP55 with bad contact in both ON/OFF and PRGM/TIMER/RUN sliding keys and recently an HP11C with a cracked LCD) and I'd like to know if the LogicDart can be built with commercial components. Is it possible to disclose this sort of information? If not, it's completely understandable. I'd just like to know.

Two questions: a few months ago, one of our contributors mentioned a chemical product that would help removing the aluminum bezels (it would dissolve the glue) present in some calculators. Does anybody remember which product was that?

The other question is about the lubricating grease used in the sliding keys of the old calculators. It seems the grease used in these keys has, at least, three major functions: extend metal-base parts by reducing rubbing action, protecting against chemical reactions and improving electric conductivity. Which grease is that? I believe the major cause of the bad contact in the HP55 sliding keys is because of this: no grease at all (previous owner "cleaned that dirt paste").

Thank you for any help.

Re: LogicDart and related maintenance questions

Message #2 Posted by [David Smith](#) on 30 Sept 2002, 6:05 p.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

The substance that causes adhesives to temporarily loose their stick is the solvent heptane. It is sold in small 1 and 4 oz bottles under the brand name "UnDu" for rather high prices (\$5 for the 1 oz bottle, \$10 for the 4 oz) at a lot of hardware stores, etc. I have seen some rubber cement thinners that were heptane (others were hexane) for around 5 dollars a pint. I don't think they contain any other solvents (none were listed on the label).

I would attempt the bezel removal by wetting a string thread with the solvent and using it as a "cheese slicer". Perhaps get a drop or two under the edge of the bezel. Try to keep it off the keyboard background as it can leave "water marks". It does not affect the case material. It also evaporates very rapidly.

As far as switch lubes, none are conductive. I use Permatex Suberlube (contains teflon). Radio Shack sells a tube of stuff called "lube gel" or mayby "switch gel" that is surprisingly good stuff.

Your HP55 switch problems will be cured by cleaning the PCB contacts under the switches and the switch conatcts themselves with alcohol. Lube the PC board pads. Also, retension the switch contacts by slightly bending them out (and make sure that they are ate the same level).

Re: related maintenance: lubricant and solvent

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 1 Oct 2002, 6:28 a.m.,
in response to message #2 by David Smith

Hello, David;

thank you for the valuable info. Was it you the one who posted about the solvent heptane before? Your tips about how to apply the heptane are also much welcome.

Thank you for the HP55 guidance, too. If you don't mind, I have two more questions: "who" produces the mentioned lubricant (Permatex Suberlube) and in which state it comes: fluid or as a paste? (is this the correct way to ask about this?)

Thank you very much.

Re: related maintenance: lubricant and solvent

Message #4 Posted by [David Smith](#) on 1 Oct 2002, 5:57 p.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)

Yes, I was probably the one who mentioned heptane before. I have used it quite a bit. Works really well for removing the feet of HP41's. Place a drop on a small Swiss Army Knife blade, slide it under the foot (try to get under the double sided adhesive, not between the foot and the adhesive). Also works great lifting the corners of classic HP machine labels. I do the same as with the HP41 feet, but use a razor blade. They are thinner than the knife blade, but be very careful not to cut the label though.

Superlube is a teflon based grease mad by the company "Permatex". It can be found just about anywhere in the US (hardware stores, auto parts stores, etc). It is a translucent white substance. I think just about any teflon grease would work fine. Also the Radio Shack Lube Gel should be available all over the world.

Another recomendated calculator chemical is white gas (cigarette lighter fluid, camping stove gas). It removes adhesive residue, grime, etc from cases and display windows with ease. Don't get either the heptane or white gas on the keyboard backgrounds though. They can leave "water marks".

Re: related maintenance: lubricant and solvent

Message #5 Posted by [David Smith](#) on 3 Oct 2002, 2:16 p.m.,
in response to message #4 by David Smith

Forgot to mention... white gas is also the best thing I have found for cleaning those rubber feet on HP41 and Woodstock machines. One swipe with a cloth and all the grunge be gone.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Converting 2225 A,C or D to 2225B ??

Message #1 Posted by [Steve Seto](#) on 29 Sept 2002, 11:35 a.m.

Does anyone know if it is realistic to combine parts from a 2225 A, C, or D type printer with a broken 2225 B printer to restore the latter? I have a 2225B which has mechanical problems, but whose HP-IL electronics appear to be OK. I read somewhere else in the Forum that the various versions of the 2225 sometimes contained internal HP-IL interfaces. So I'm wondering if I could "transplant" the HP-IL rear panel and electronics of my 2225B to another 2225 which was in good mechanical condition? Anyone have any knowledge about this? Thanks!

Re: Converting 2225 A,C or D to 2225B ??

Message #2 Posted by [Tony Duell \(UK\)](#) on 29 Sept 2002, 2:07 p.m.,
in response to message #1 by Steve Seto

The first thing to be aware of is that because the 2225B (and for that matter the 2225P) are battery-powered, they use different (lower voltage) stepper motors to the A, C, or D models. So you can't swap the entire mechanism between a -B and anything else. The mechanical parts (gears, carriage, tapewire, etc) are the same on all Thinkjets. You could use such parts from any model to repair a -B. The stepper motors are held to the mechanism by obvious screws, so it's easy to swap them over to put the lower voltage ones on the mechanism that ends up in the -B. The 2225A (HPIB), but not the -C or -D does have a sort-of HPIL interface internally between the HPIB board at the back and the rest of the printer. It would be possible to rescue the HPIL pulse transformer, connector, and associated components from a -B and make a little interface to fit in place of the HPIB board. This would give you a mains-powered HPIL printer -- not strictly a -B. What's the problem with your -B? With more information I can probably tell you what parts you can rescue from where.

Re: Converting 2225 A,C or D to 2225B ??

*Message #3 Posted by [Red](#) on 6 Oct 2002, 12:31 p.m.,
in response to message #2 by Tony Duell (UK)*

I was wondering the same thing, can parts be swapped?

My -B model carriage moves across the page as usual but does not print. Print Carriage is not blocked, but are past suggested usage date. Actually, they are out of the printer and now are leaking ink.

When it did work a couple of letter points did not spray ink.

Red

Re: Converting 2225 A,C or D to 2225B ??

*Message #4 Posted by [Ellis Easley](#) on 10 Oct 2002, 4:30 p.m.,
in response to message #3 by Red*

Do you know about the procedure for priming the Thinkjet cartridge? Take the cartridge out of the printer (lower the bail and lift the cartridge out) and hold the cartridge with the inkjet port area facing up. Push a rod such as a paper clip wire into the hole in the clear plastic to put pressure on the rubber bladder until the surface of the inkjet port area is covered with ink, then release the pressure and let the ink be drawn back into the cartridge. You can then gently wipe the inkjet port area with a tissue. I have unclogged the inkjet ports by performing the priming procedure and then wiping with a damp tissue, repeating one or a few times if needed. If the cartridge is leaking ink, there might be ink on the electrical contacts - the pads at the opposite end of the glass plate from the inkjet ports. You can clean these, and the mating contact fingers in the printhead carriage, with a cotton swab dampened with isopropyl alcohol.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-28S New in Box - went for \$205

Message #1 Posted by [Scuba Diver](#) on 28 Sept 2002, 11:59 p.m.

<http://cgi.ebay.ca/ws/eBayISAPI.dll?ViewItem&item=1383109585&rd=1>

Leoglyph was the winner of the auction...

I took a look at his feedback summary...it appears that he has one piece of neutral feedback; he won a bid on behalf of a friend but pulled out afterwards...in his response, he said that he paid compensation to the seller...so at least he's conscientious!!!

B. P.S. Another 28S went for \$117.50 this evening...I think I'm going to sell one of mine!!!

Re: HP-28S New in Box - went for \$205

Message #2 Posted by [Tom](#) on 29 Sept 2002, 8:15 a.m.,
in response to message #1 by Scuba Diver

Scuba..... so why did you bid the price of this one up on Leo if you are a net seller?

Are you trying to help set records?

Re: HP-28S New in Box - went for \$205

Message #3 Posted by [Scuba Diver](#) on 30 Sept 2002, 6:30 a.m.,
in response to message #2 by Tom

Because I was going to sell one to a friend of mine (he used to have one in uni until it was stolen), but he didn't like one of mine...

I figure that he couldn't find better than one that is "new in box" so I was bidding...he's currently in Asia on business and didn't respond to any of my emails, so I was taking a chance...as the price got higher, I started getting worried, then I figured I should stop.

I usually wait until the last 15 mins. to place my bid, however, it was a Saturday night, so I did my best before I went out :)

B.

Re: HP-28S New in Box - went for \$205

*Message #4 Posted by [David Tan \(Singapore\)](#) on 30 Sept 2002, 9:15 a.m.,
in response to message #3 by Scuba Diver*

There are too many HP-28S in eBay with various conditions. I think your friend will be able to get one with a much lower price. If your friend does not want to buy a used one, he can choose a more powerful HP-48GX. I prefer HP-48GX to HP-28S because the former's keyboard is less difficult to handle.

I am not sure whether Leo is lucky or not. One guy bid the same price as Leo did in his last bid in dying seconds. Maybe this guy did not want to bid higher or he could not manage to bid higher within 10 seconds before auction ended.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: HP 11C Battery

Message #1 Posted by [John K. \(US\)](#) on 28 Sept 2002, 11:32 p.m.

Look [here](#) under Disposable Batteries. The 11C uses the LR44/SR44 type of button cell.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Thoughts???

Message #1 Posted by [Iqbal](#) on 28 Sept 2002, 8:52 p.m.

<http://www.angelfire.com/wizard/raven7/Home.html>

Re: Thoughts???

Message #2 Posted by [glynn](#) on 29 Sept 2002, 1:10 a.m.,
in response to message #1 by Iqbal

For those who haven't yet followed Iqbal's link, it is a page of description and some nifty renderings of a calc that the author says is a kind of a cross between PDA and the HP49g...

I am glad to see that there ARE those who are thinking big. While some of his current decisions will likely be subject to later re-thought and modification, he has some interesting beginnings here.

In particular, the inclusion of a "memory-stick", or a SmartMedia (which type I prefer), etc. removable storage card is something I have long regarded as an essential part of future calc designs-- the 21st century analog of the mag-strip-- but carrying LIBRARIES of programs at a time. The fact that this technology is not just "off-the-shelf", but that most digital cameras and some mp3 players currently incorporate it, means there is ample experience and several sources of media available, and pc-based readers/writers for it; so putting a compatible storage card slot in a programmable calculator becomes virtually inevitable and obvious.

Of course, his vision and mine are not QUITE in sync; I'd trade away most all of the PDA features for more expansion and I/O, and 41/42 compatibility. That said, what a marvelous vision and ability to synergize this young man has! As many of you know, new products almost always come as responses to, and progressions from, existing products.

Though some engineering/materials/physics naivete would have to be worked through (one flex of this machine would end its career), I can see much of what he is aiming to achieve, and it is in a general direction I approve. I can only guess that this Mr. Marino Arturo has many more ideas in him, and I look forward to seeing what he may bring forth in the future.

Re: Thoughts???

Message #3 Posted by [Marc Brucker](#) on 30 Sept 2002, 9:47 a.m.,
in response to message #1 by Iqbal

I think that I would save all of my allowance so I could buy it.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

How was this PPC-ROM made?

Message #1 Posted by [Dave Mabry](#) on 28 Sept 2002, 6:30 p.m.

[This e-bay auction](#) has a PPC-ROM that has a paper label on it. Was this one created with some sort of programmable rom module? Here is the photo of it...

(picture unavailable)

Or is it just that the original label was lost and replaced with the current paper one? I guess I could ask the seller, but I figured if there was some way to make these modules that someone here would tell me.

Re: How was this PPC-ROM made?

Message #2 Posted by [Chris Catotti \(Florida\)](#) on 30 Sept 2002, 3:26 a.m.,
in response to message #1 by Dave Mabry

See my question previously:

<http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/archv009.cgi?read=21807>

Here is one knowledgable reply I got: *the module that You show on the hpmuseum page is an EPROM module, I think made by CMT (described in one of the last PPC journals) with 8KB, so two pages fit into it. For example, CCD Version B modules were made from the same EPROM modules, or the SKWID INK Barcode Module.*

I think someone copied the PPC ROM into a package as described above.

Re: How was this PPC-ROM made?

Message #3 Posted by [Chris Catotti \(Florida\)](#) on 30 Sept 2002, 11:36 a.m.,
in response to message #2 by Chris Catotti (Florida)

How do you make a module for the HP-41?

Here are some thoughts/history. Please correct my mistakes ...

I think someone copied the PPC ROM into a package as described above.

That I know of there were four ways to copy an HP-41 ROM and actually use that copy on an HP-41:

1. Copy it into HEPAX RAM. The HEPAX (HEwlett PAckard eXpansion module) contained 8K or 16K RAM and a ROM that allowed copying a ROM into its RAM. The RAM is volatile (lost when module is unplugged from calculator, but not cleared by MEMORY LOST on HP-41). The existence of this possibility is not really useful ... the HEPAX is relatively rare and the last one on ebay exceeded \$500
2. A RAM or EPROM Box. Much bigger than a module, but it works, some vintage ones exist, and some smart hobbyists are still making their own.
3. Zengrange ROMs. One-time programmable using a fusible link ROM. New, everything is "1" inside it, once you "burn" a "0" it remains a zero (open-circuit for that bit) forever. There was a low-voltage burner that could plug into a port on the HP-41, and with a ZENROM or CCD module, you could make your own ROM.
4. UV-EPROMs. These were programmable with some kind of EPROM burner, and offered the ability to make multiple copies of ROMs. The good news is they can be erased with an ultraviolet light. It requires a significant amount of hardware to program them. I hope to learn more. EPROM modules, I think were made by CMT (described in one of the last PPC journals) with 8KB, so two pages fit into it. For example, CCD Version B modules were made from the same EPROM modules, or the SKWID INK Barcode Module."

I am not aware of anyone producing items 2, 3 or 4.

Best Wishes,

Chris Catotti

Re: How was this PPC-ROM made?

Message #4 Posted by [David Smith](#) on 30 Sept 2002, 6:15 p.m.,
in response to message #1 by Dave Mabry

Although it could be an EPROM copy, I think it is a regular module that has been labeled. I had an original PPC ROM package a few years ago that I am pretty sure had a couple of paper labels with the module. Another possibility was the original housing was damaged and the owner placed it in another one.

I have seen PPC modules with the name stamped or silkscreened on the module.

Another possibility was this was from the first lot of modules. When you ordered your 5000 modules, HP would send out the first 100 or so for final approval before packaging the whole lot.

Re: How was this PPC-ROM made?

Message #5 Posted by [jerry](#) on 30 Sept 2002, 9:15 p.m.,
in response to message #1 by Dave Mabry

Hello,

This PPC module was "saved" from a box of scrap over 10 or more years ago when I worked for HP. I guess it was possible (when the 41 stuff was still being made there) to some how copy rom modules provided you had access to the actual hardware used to make them and ROM burners as some engineers probably did.

I really did not even consider wheather it was a copy or not as I just thought that was what PPC modules looked like.

Cheers, harp7

Re: How was this PPC-ROM made?

*Message #6 Posted by [Peter \(Germany\)](#) on 1 Oct 2002, 5:07 a.m.,
in response to message #5 by jerry*

If You can pull out the handle, it is a HP made module, if the handle is fixed, it is an EPROM module. The EPROM modules have a small "slot" on both sides, in one You can see the contacts of the EPROM chip. And the side label field on the EPROM modules is smaller than on HP made modules. This is for US made EPROM modules only, the ones made from Zengrange in the UK are different (EPROMs too, but other housing)

-peter

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-86

Message #1 Posted by [Mark Vandemeulebroucke](#) on 28 Sept 2002, 8:08 a.m.

I just received a HP-86 with disk drives and printer from an eBay sale. However I do not have the monitor. My question is: which type of monitor goes with this old computer. The video connector is of the "jack" type (not multiple pins as with present computers). I guess this must be a monochrome composite monitor (what is "composite monitor" anyway). Where to find?

Mark Vandemeulebroucke Brugge Belgium

Re: HP-86

Message #2 Posted by [Bruce Cohen](#) on 28 Sept 2002, 10:58 p.m.,
in response to message #1 by Mark Vandemeulebroucke

You can use the composite video input (the yellow RCA jack) on the back of your TV. The text mode will be full height and the graphic mode will be in letterbox due to the designer's desire to have square pixels. I did not connect my HP-86 to a television but did connect the HP Monitor to my VCR as a demonstration for my sons and the picture looked fine, just a little green. ;-)

Re: HP-86

Message #3 Posted by [Tony Duell \(UK\)](#) on 29 Sept 2002, 3:47 p.m.,
in response to message #1 by Mark Vandemeulebroucke

It's a standard, US scan rate, composite monochrome monitor. Composite just means that the sync signals and video are combined into a single signal, rather than using separate wires for each of them. Such monitors were very common about 15 years ago (and probably are still made -- they have many applications). If you have a TV that can handle US rates (60Hz vertical, 15750Hz horizontal) and which has a composite (aka 'baseband') input then most likely you can use that. In Europe, there's a composite video input on the SCART connector fitted to just about all modern TVs.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Copies of Hp manuals on eBay

Message #1 Posted by [Randy Sloyer\(US\)](#) on 28 Sept 2002, 7:48 a.m.

I stumbled across some HP41 manuals being sold on eBay. The only thing is, these are photocopies and the seller is very open about it.

Did Hp relinquish any copyrights on the older calculators? If so, is this posted anywhere on the web?

Or have these possible copyright violations just escaped the eBay Intellectual Property check?

<http://cgi.aol.ebay.com/ws/eBayISAPI.dll?ViewItem&item=909610756>

The last time I checked (a few months ago)

Message #2 Posted by [Dave Hicks](#) on 28 Sept 2002, 11:46 a.m.,
in response to message #1 by Randy Sloyer(US)

The people I talked to at HP considered all of their copyrights to be active and enforceable. However, due to the Compaq merger and rumors about some possible new calculator organization, there seems to be confusion as to whose job it is to be handling these sorts of things. They recommended that I stay far away from them (don't even link to them) and check back "later". My policy with respect to the HP forum is to honor that request as long as they give me specific sites or products that should be avoided.

As for ebay, there is no IP check done at ebay. They don't look at auctions in advance. If an IP owner notices and complains, then they'll terminate the auction. Again, it's possible that no one at HP currently knows that its his job to be trolling ebay for possible calculator infringements.

Re: The last time I checked (a few months ago)

*Message #3 Posted by [Andreas Stockburger \(EU\)](#) on 28 Sept 2002, 4:09 p.m.,
in response to message #2 by Dave Hicks*

Hi Dave,

what should I do if I want to buy such a manual today? Is it possible to buy it from HP ? If not, whats the problem with this copied manuals ? In my opinion there is no loss of money for hp...

Any comments ?

Andreas Stockburger

Re: The last time I checked (a few months ago)

*Message #4 Posted by [Dave Hicks](#) on 28 Sept 2002, 4:46 p.m.,
in response to message #3 by Andreas Stockburger (EU)*

You may not see a problem but since you're not the copyright holder, it's not your call. It's up to the copyright holder to determine how or even if an item is available. If you want to write the world's greatest novel and then lock it in your desk drawer, you're entitled.

Likewise when people use my pictures without indication on ebay, it annoys people here so I ask ebay to terminate the auction and they do. They never ask if the auction is costing me any money.

Problem with Ebay is...

*Message #5 Posted by [Gene](#) on 28 Sept 2002, 4:57 p.m.,
in response to message #4 by Dave Hicks*

I saw someone selling a photocopied service manual for the TI-59. Tried to email ebay. I dont' think they care. Nothing was ever done to that auction. It ended quite peacefully with a high bidder. I had emailed when the auction had 6+ days to go.

I think they don't have enough people to really go after stuff like this. Feel free to email them and try for yourself, but ...

Gene

Re: Problem with Ebay is...

Message #6 Posted by [Emmanuel](#) on 28 Sept 2002, 5:03 p.m.,
in response to message #5 by Gene

This copy seems to be made by someone working for TI and sells by name each CDR.

Ebay will remove items

Message #7 Posted by [Dave Hicks](#) on 28 Sept 2002, 5:11 p.m.,
in response to message #5 by Gene

When they are reported by the copyright holder. The first time, the copyright holder has to send a signed sworn statement. After that, emails are accepted. I have never had ebay refuse to remove an auction using one of my pictures.

From what I've heard, when they are reported by a third party it seems that sometimes they do and sometimes they don't. I've never tried to do a third party report myself.

Re: The last time I checked (a few months ago)

Message #8 Posted by [Emmanuel](#) on 28 Sept 2002, 5:00 p.m.,
in response to message #3 by Andreas Stockburger (EU)

I'm not a jurist but I think that first you have to ask HP permission to make a copy for your own use, or mention the author when you're using his pictures or parts of his book for instance. It's a question of common sense and courtesy.

Re: The last time I checked (a few months ago)

Message #9 Posted by [db\(martinez,california\)](#) on 28 Sept 2002, 8:15 p.m.,
in response to message #8 by Emmanuel

did anyone click on the ebay auction and then the "space shuttle" link? i've seen two other posting/articles on the subject and this is the most complete.

about the product - forgetting that the museum cd set is a much better bargain, it can be said that he is providing a service. a lot of manuals have been lost and many blanknuts were sold without manuals. i know that he is breaking copyright law but with how little hp has done for me lately they wouldn't want me on that jury.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP49 O.S. - What's new about it?

Message #1 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 27 Sept 2002, 12:43 p.m.

Hi;

I read a post a few days ago mentioning some guys in German were writing their own version of an O.S. for the HP49G and it would probably contain emulators for other HP machines. This subject was mentioned in the time HrastProgrammer was working with the HP42S simulator to run in an HP49G.

My HP49G is running a 1.19-5 O.S. version. It's an Indonesian, serial # ID9320xxxx.

What is the newest version and where can I download it from? As I saw the HPCC photos (I forgot to mention: thank you, Iqbal!) the HP49G was present among the other titans: HP9100, HP41 (what a magnificent [photo](#) with two HP41, some IL devices and two classics: HP67 and HP65, right?). As it's still "alive", let's keep it alive! In great shape, of course.

I want to know if there is any page or site related to it. I know about the www.hpcalc.org because it's easy to remember, and Dave also keeps many links in here, too. I also read that the ACO team leaders for the HP49 could be contacted by their e-addresses. I must dig in my hard-disk so I can find them. Would anybody post them again, please?

Other subject: "hidden" photographs.

A few days ago, someone in here also mentioned that one of the Jean-Ives photographs could be seen by entering in the tests browser ([ON] [D]) and pressing [J] key. To get back and restart the machine, press [ON] again.

I tried all keys and got to this: ([E] and [Q] are already mentioned as test keys)

A - Memory Browser
E - RS232 test
Q - Reboot (Quit)

photos:

B - Christian
C - Cyrille
G - Gerald Warlock
J - Jean-Ives Avenard (AKA Gherkin)
M - Mark
R - Ray (one of the biggest stand-alone photo)
S - the crew: Cyrille, Jean-Ives, Mika, Gerald and Bernard in one shot
T - Tanya
V - VGER HARD with a modified HP48 keyboard

Cheers.

HPCC conference photo

*Message #2 Posted by [Tony Duell \(UK\)](#) on 27 Sept 2002, 2:08 p.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)*

Although I am unable to view that photograph, and so can't be certain, it sounds like it's a picture of my 'club stand' on Saturday. IIRC, the items on it were : HP41CV + hacked Eramco RSU. HP41CX + card reader (both of those with IL modules and some other ROMs). HP71B with card reader, HPIL module, ROMs. HP9100B. HP65. HP67. The IL units are : HP3421 Data acquisition/control unit (the big unit at the bottom). HP9114B disk drive. HP82161 tape drive. HP82162 thermal printer. Also on the stand for part of the time (although maybe not very visible) was the prototype 'barcode blinker' -- an interface to connect a PC printer port to an HP41 wand to allow downloading programs and data without HPIL. I didn't bring the 9100B back on Sunday, but I did have most of the other items with me. All work (AFAIK), many of them still get considerable use.

Re: HPCC conference photo

*Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 27 Sept 2002, 3:05 p.m.,
in response to message #2 by Tony Duell (UK)*

Hi, Tony;

you're right; I did not describe it that way, because I thought people would like to see it.

About your RAM pack for the HP41: how "deep" is it? Have the schematics? Does it work like the Extended Memory? I read about it in 1985, if I am not wrong.

Congratulations! As some other people (I congrat them, too), you have a big HP "family" at home.

Cheers

Re: HPCC conference photo

Message #4 Posted by [Tony Duell \(UK\)](#) on 27 Sept 2002, 4:52 p.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)

One other HP toy that was probably floating around that stand (in a grey case?) was my LogicDart. A great little tool for finding logic problems... Anyway, to answer the questions... The RAM box in the photo contains 8K RAM, 8K EPROM (MLDL-OS and DavidAssembler). I have another box that I haven't hacked that's RAM only -- 16K of it. I do have the Eramco RSU EPROMs, which let you use these boxes to store Focal programs, etc. It's a bit like a large extended memory. But as I have (and use) the disk drive, I don't have much use for this facility, I'd rather put the programs on disk. I use these RAM boxes in order to program in M-code, of course. I only took a small part of my 'collection' (it's not really a collection -- I use these machines a lot) to the conference. I've got more -- including a lot more desktop machines. I don't think I could have brought everything along....

Re: HP49 O.S. - What's new about it?

Message #5 Posted by [Arnold Steekelenburg](#) on 27 Sept 2002, 2:33 p.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

Hi,

The latest version of the HP40G rom is 1.19-6. You can download it from the webpages of Jean-Yves Avenard:

http://www.epita.fr:8000/~avenar_j/hp/49.html.

More links on: WWW.HPCC.ORG

Cheers

Re: HP49 O.S. - What's new about it?

Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 27 Sept 2002, 3:09 p.m.,
in response to message #5 by Arnold Steekelenburg

Hi, Arnold;

thank you for your answer. Unfortunately, it seems that Avenar's page is under construction or no longer exists. I tried the http://www.epita.fr:8000/~avenar_j/hp/49.html and received this message:

Désolé La page à laquelle vous souhaitez accéder n'existe plus.

Is there any other you know?

Thanks again.

Re: HP49 O.S. - What's new about it?

Message #7 Posted by [James M. Prange](#) on 27 Sept 2002, 3:18 p.m.,
in response to message #6 by Vieira, Luiz C. (Brazil)

Jean-Yves's page with the 49G revision 1.19-6 "ROM" is: http://www.epita.fr/~avenar_j/hp/49.html. The ROMs (at least some of them) are also available at <http://www.hpcalc.org/hp49/pc/rom/>.

Regards,
James

Is HrastProgrammer still working on HP-42 emulator?

Message #8 Posted by [Miran B.](#) on 28 Sept 2002, 1:28 a.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

> This subject was mentioned in the time HrastProgrammer was working with the HP42S simulator to run in an HP49G.

Is HrastProgrammer still working on HP-42 emulator? Is this project finished or cancelled? An HP-42 emulator seems very interesting to me ...

Best regards.
Miran B.

Re: Is HrastProgrammer still working on HP-42 emulator?

Message #9 Posted by [Massimo Gnerucci \(Italy\)](#) on 28 Sept 2002, 2:22 a.m.,
in response to message #8 by Miran B.

*Is HrastProgrammer still working on HP-42 emulator? Is this project finished or cancelled?
An HP-42 emulator seems very interesting to me ...*

Hrast finished his work (a really good one!). Have a look at: <http://hrastprogrammer.tripod.com/>

I installed HP41X and HP42X on some of my 48s and 49s: best setup (to me) is on a 1280kb 48G with double speed module.

Take a ride on the demo version and then buy the complete version: he deserves it.

Greetings,
Massimo

Re: Is HrastProgrammer still working on HP-42 emulator?

Message #10 Posted by [Erik Ehrling](#) on 28 Sept 2002, 4:25 a.m.,
in response to message #9 by Massimo Gnerucci (Italy)

First: The HP42X emulator is truly a great piece of software, especially with the new additions of LOAD/SAVE commands (for the first time in history you can save you HP42-programs!) and the SLOW mode ("true to the real HP42S" screen update emulation) this is something a HP42S fan should not be without.

Second: "48G with double speed module" - is it possible to overclock the HP48? Where can I find more info on this?

Best regards, Erik Ehrling

Re: Is HrastProgrammer still working on HP-42 emulator?

Message #11 Posted by [Massimo Gnerucci \(Italy\)](#) on 28 Sept 2002, 5:08 a.m.,
in response to message #10 by Erik Ehrling

Second: "48G with double speed module" - is it possible to overclock the HP48? Where can I find more info on this?

Erik, I share your feelings about HP42X. Did you try HP41X too?

Here's a link to Cynox <http://www.cynox.de/eng/index.html?calc>; there you'll find more info about memory and speed upgrades for the 48 and 49.

Greetings,
Massimo

Re: Is HrastProgrammer still working on HP-42 emulator?

Message #12 Posted by [HrastProgrammer](#) on 28 Sept 2002, 8:37 a.m.,
in response to message #8 by Miran B.

I have just finished HP-42X – it now contains all features I initially planned for it: Port memory, SAVE/LOAD, etc. Details are on my homepage ... All registered users will get the maintenance release for free, don't worry if it took some time to send it – I am just very busy at the moment doing some work in my own company :-)

I would like to thank to all of you who have purchased HP-41X or HP-42X – thanks to you I have been able to purchase the new Borland Delphi 7 Professional ...

Best regards.

Re: Is HrastProgrammer still working on HP-42 emulator?

Message #13 Posted by [HrastProgrammer](#) on 28 Sept 2002, 8:41 a.m.,
in response to message #12 by HrastProgrammer

BTW, I decided to sell the source of the HP-41X and HP-42X emulators - just in case somebody wants to take a look at the internals ... details are on my homepage ...

Re: HP49 O.S. - What's new about it?

Message #14 Posted by [HrastProgrammer](#) on 28 Sept 2002, 8:38 a.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

> I read a post a few days ago mentioning some guys in German were writing their own version of an O.S. for the HP49G and it would probably contain emulators for other HP machines.

I really would like to see which calculators will be emulated (and how they will be emulated) ...

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP- 38C/E battery pack

Message #1 Posted by [blueamber](#) on 27 Sept 2002, 1:01 a.m.

Hello,

I've gotten ahold of a few HP-38C's and HP-38E's, but the problem is none of them have battery packs. Is there any way I can test them without buying a battery pack, or will they absolutely not work under any circumstances with AAs or their chargers alone?

Re: HP- 38C/E battery pack

Message #2 Posted by [Karl Schneider](#) on 27 Sept 2002, 2:44 a.m.,
in response to message #1 by blueamber

I have several 34C's, which are also members of the Spice series. They are designed to use "short" 2 x 1.2V AA series-connected cells; the standard AA cells with posts on the + terminals are too long and will break the battery contacts when inserted.

Packs can be fabricated using Radio Shack's "replace-a-cell" 1.2V 700 mAh NiCd short cells with soldering tabs (part #23-191B).

Or, for testing, you might buy Radio Shack's 1600 mAh, 1.2V NiMH cells with posts (part #23-525A), place them in a 2x AA battery holder with 9V-style connector, and connect them to the calculator battery terminals with a connector-terminated set of leads and set of alligator clips. RS sells all parts.

The + terminal on the calc is nearer to the serial number on the back.

Re: HP- 38C/E battery pack

*Message #3 Posted by [Vassilis Prevelakis](#) on 27 Sept 2002, 4:06 a.m.,
in response to message #2 by Karl Schneider*

If you cannot locate short AA cells with soldering tabs, you may also want to try to buy a ready made pack with 4 AA cells (they are usually sold pre-assembled in white plastic wraps. You can then break the pack into two pairs, cut off the remaining tabs and connecting wires and you have two battery packs for your Series 30 calculators.

****vp**

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

15C: Buy of the day

Message #1 Posted by [Mike](#) on 26 Sept 2002, 10:48 p.m.

[HP-15C](#)

Re: 15C: Buy of the day

Message #2 Posted by [Randy Smith](#) on 27 Sept 2002, 3:59 a.m.,
in response to message #1 by Mike

Beats my best. A 15C with manual and case at a pawn shop for \$20.

Re: 15C: Buy of the day

Message #3 Posted by [Howard](#) on 27 Sept 2002, 8:04 a.m.,
in response to message #2 by Randy Smith

Oh I see.

Re: 15C: Buy of the day

Message #4 Posted by [Howard](#) on 27 Sept 2002, 8:02 a.m.,
in response to message #1 by Mike

??????????????????

Re: 15C: Buy of the day -- "Buy it Now" Price?

Message #5 Posted by [Paul Brogger](#) on 27 Sept 2002, 9:20 a.m.,
in response to message #1 by Mike

It says the auction ended with "Buy it Now". \$14.00 may have been the only *bid*, but do we know what the *Buy it Now* price was????

(Maybe I'm just assuaging my hurt feelings . . .)

Re: 15C: Buy of the day -- "Buy it Now" Price?

*Message #6 Posted by [Fred](#) on 27 Sept 2002, 11:17 a.m.,
in response to message #5 by Paul Brogger*

\$14 was the Buy it Now Price!

11C: Buy of the day (in August)

*Message #7 Posted by [Dave Mabry](#) on 27 Sept 2002, 1:33 p.m.,
in response to message #1 by Mike*

[HP-11C](#)

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Golden HP49G????

Message #1 Posted by [Iqbal](#) on 26 Sept 2002, 8:54 p.m.

Golden HP49G:

http://press.ehsal.be/pcx/conference_2002/19%20new%20hp49.html

HPCC 2002 Conference photos :

http://press.ehsal.be/pcx/conference_2002/pcx%20pictures.html

Re: Golden HP49G????

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 26 Sept 2002, 10:04 p.m.,
in response to message #1 by Iqbal

Hi, Iqbal;

Is this person, seen by his backside, Mr. Wlodek Mier-Jedrzejowicks? If so, he deserves a golden HP49G... with a better keyboard, of course.

Re: Golden HP49G????

Message #3 Posted by [Iqbal](#) on 26 Sept 2002, 11:35 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

Yes Luiz, I believe it's Wlodek. And also, I believe the HP49G on the left with the plastic slide is a black one.

Re: Golden HP49G????

Message #4 Posted by [Werner Huysegoms](#) on 27 Sept 2002, 12:56 a.m.,
in response to message #3 by Iqbal

The golden HP49 belongs to Jean-Yves Avenard (the person on the left) and the black one is Cyrille de Brebisson's (the person in the middle). After all, they created the HP49 (along with a few others!). Rank hath its privileges.

Werner

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HPILCMDS.LEX

Message #1 Posted by [andy](#) on 26 Sept 2002, 5:14 p.m.

Does anyone know where I can locate the file:

HPILCMDS.LEX

(swapdisk, ftp site, wherever)?

Thanks,

andy

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

An American thing?

Message #1 Posted by [AshP](#) on 26 Sept 2002, 12:52 p.m.

I notice that, on e-bay (that's ebay.co.uk not ebay.com)there's a 32sii for sale to Europe only and the bid price has not yet exceeded \$50 (sale terminates in 20 hours as I write this). Admittedly, it's a bit dodgy as the vendor has posted a photo of the old 32sii even though he's selling the new type. And, of course, the spiel is in German.

So, are these high prices which people are paying solely as a result of US buyers or does most of the world use the .com version rather than their local one?

Re: An American thing?

Message #2 Posted by [Gordon Dyer](#) on 26 Sept 2002, 8:33 p.m.,
in response to message #1 by AshP

Hi, I am in the UK amd have been looking in both the .com and .co.uk sites.
most items can be viewed and bought from both sites.

The prices are higher in the USA probably because you have more disposable income, there are many more collectors over your side of the pond (also MANY more calculators available) and the HP calulator hype (most of it deserved) is much more prevalent in the USA.

Also this web site is a big cause of the increasing interest in HP calculators, so it is a double-edged sword for enthusiasts.

It's like finding a beautiful place out in the country to visit, which is quickly spoilt by too many people wanting to share the experience if you go home and spread the news about your find. I just wish I had bough more of the calculators a few years ago!

Best Wishes for the UK...

Re: An American thing?

*Message #3 Posted by [Gordon Dyer](#) on 26 Sept 2002, 8:45 p.m.,
in response to message #2 by Gordon Dyer*

Ooops... sorry the finish didn't sound good, I meant to type:
Best wishes from the UK...

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

32sII question

Message #1 Posted by [Charles](#) on 25 Sept 2002, 7:30 p.m.

Is it possible to do this in a 32sII program:

P01 input A P02 gto C (where C is another program) P03 and then make it return to perform calculations on C's result?

Also what do the ISG and DSE shift keys do?

I am excited to hear (below) about possible intro of a 32sII replacement toward end of year...xmas present...perhaps a new intro of the 42S *woohooooo!*? charles

Re: 32sII question

Message #2 Posted by [Kelvin Hunter](#) on 25 Sept 2002, 7:44 p.m.,
in response to message #1 by Charles

your first question sounds like a subroutine.. use XEQ C for this (same as GSB C on older machines).

ISG = increment; skip if greater than DSE = decrement; skip if less than or equal to

you would use e.g. ISG A where A is a variable, as the BASIC FOR var=initial-value TO final-value STEP increment

A has the following format: +/- cccccc.fffii where cccccc is the current counter fff is the final counter value ii is the interval (unspecified = 1)

so e.g.to loop 10 times L01 LBL L L02 1.01 L03 STO Z M01 LBL M M02 ISG Z M03 GTO M M04 RTN

it's a little complicated; it's best to experiment. The above definitions and program are taken from the HP32sII manual.

If there is sufficient demand I would be interested in writing a short article on this and related programming features on the 32sII.

Kelvin

Re: 32sII question

*Message #3 Posted by [Christof \(Davis, CA\)](#) on 26 Sept 2002, 2:46 p.m.,
in response to message #2 by Kelvin Hunter*

I've sort of been working on a booklet for the 32sii and for the 20s purely for fun, though I lack time right now to finish either. I'd be interested in seeing an article :)

Re: 32sII question

*Message #4 Posted by [jose goncalves](#) on 26 Sept 2002, 5:48 p.m.,
in response to message #3 by Christof (Davis, CA)*

Well, I'm sure that lots of people in this forum would like to know about the works of both of you. May be some of us share some effort in order to have the article and the booklet about programming the 32SII.

Let's check !

Jose

Re: 32sII question

*Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 26 Sept 2002, 5:54 p.m.,
in response to message #3 by Christof (Davis, CA)*

Hi;

I'm gonna put my hnads in a new HP32SII soon. I have also writen a book about both HP41 and HP48. I'm interested. Are you interested on a Portuguese version? Please, e-mail me, if you think we can get to a common work.

Cheers.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

repair an HP 01

Message #1 Posted by [francois CLEMENT](#) on 25 Sept 2002, 8:58 a.m.

I have HP 01 but together are out of order I don't know the problem and so if it is serious no watchmaker in france is able to repair this watch is there a solution in USA is anybody knows how to repair HP01 thanks a lot regards francois

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Xpander

Message #1 Posted by [Y K Wong \(Singapore\)](#) on 25 Sept 2002, 6:32 a.m.

Just got my Xpander, really hate the blue plastic cover, when it is tightly close, it is almost impossible to slide open! Any of you guys have any special technique to open it?

What I also cannot understanding is that it is powered by two AA Nickel Metal Hydride (NiMH) and in the manual it is stated that the batteries are not replaceable. However, if compare with my Jornada 680 (where both with Hitachi SH3 processor) and also manufactured one year earlier than the Xpander and yet comes with a removeable Lithium-Ion (Li-Ion)pac.

Re: Xpander

Message #2 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 25 Sept 2002, 7:38 a.m.,
in response to message #1 by Y K Wong (Singapore)

Just a guess, but I would think that the manual refers to the never-released "final" product, which may have had an internal, non-replaceable battery as the HP-Compaq iPAQ PDA. Yours is a prototype or evaluation unit, so non-functional details like battery type may be different.

Re: Xpander

Message #3 Posted by [Y K Wong \(Singapore\)](#) on 26 Sept 2002, 12:41 a.m.,
in response to message #2 by Andrés C. Rodríguez (Argentina)

Hi Andrés,

Yes, you are right! I bought from a guy from Australia calimed to worked closely with the HP guys on this project and got a few units of the Xpanders from HP. They are all with a label "Non-Commercial Prototype"!

I have just opened up the battery cover where the opening clips were "cut-off" and has been taped shut with double sided tape and have noticed that there even an incomplete button cell back up battery slot.

I guess my overall impression of the unit is another "cut cost" production... especially the blue sliding cover, it is just so roughly made that it is so difficult to slide open or close and worse of all, each time you slide the cover, it just added on a few scratches to it... No wonder the new management decided to trash it!

Re: Xpander - Can you add some impressions?

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 26 Sept 2002, 7:35 a.m.,
in response to message #3 by Y K Wong (Singapore)

Hi;

I have read about many people that describe the Xpander as the last ACO's breath. Would you, after a few days of using the unit, add a few impressions of yours about it? Maybe I'm wrong, but that's the first time someone mentions facts like "the unit is another "cut cost" production", or "each time you slide the cover, it just added on a few scratches to it". We all know it's a "non-commercial prototype" and this sort of problems would surely not be present in the final-production (how WE wish...). But we may also know how far from reality were HP managers when they cut the project off.

I do not know if it is someone else's wish, but I am curious to know why I (we) cannot have a final-production Xpander to buy.

Thanks.

Re: Xpander - Can you add some impressions?

Message #5 Posted by [Raymond Hellstern](#) on 26 Sept 2002, 10:44 a.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)

Hi,

the Xpander wasn't the last breath of ACO. They had the x25, and even it's successor was in the pipe.

Compared to the Xpander, the x25 was a real cut-cost project...

Raymond

Re: Xpander - What is the X25?

Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 26 Sept 2002, 11:27 a.m.,
in response to message #5 by Raymond Hellstern

HI;

it seems that we can dig a little deeper. What is the x25? Any e-doc about it?
Any e-rumor about it?

Thanks and cheers.

Re: Xpander - What is the X25?

Message #7 Posted by [Laurence Carr](#) on 26 Sept 2002, 12:19 p.m.,
in response to message #6 by Vieira, Luiz C. (Brazil)

Hi

The X25 is the JORNADA x25, a LINUX based PDA that was (just like the Xpander) developed by the ACO just before it was shut down. It was a low cost PDA aimed at the youth market, It was never released although there are a few units around.

Laurence Carr

What is the X25?-linux on 720 also

Message #8 Posted by [Christof \(Davis, CA\)](#) on 26 Sept 2002, 2:42 p.m.,
in response to message #7 by Laurence Carr

There were even a few roms made with linux for the Jornada 720. How I
wish I could find one of those.

Taking one of the PDAs- preferably the 3/6/7 series and putting
developing linux roms could have made a *huge* difference to a lot of
users. (not all, but as an *option*, it would have made sense to everyone
except microsoft)

Re: Xpander - What is the X25?

*Message #9 Posted by [Matthias Wehrli](#) on 26 Sept 2002, 3:58 p.m.,
in response to message #6 by Vieira, Luiz C. (Brazil)*

Hi

I have a X25... here is a link to my page. Have a look at it.

http://www.hp-collection.org/hewlettpackard_e.htm

or

<http://www.hp-collection.org/Rechner/Bilder/hp-x25.JPG>

Re: Xpander - Can you add some impressions?

*Message #10 Posted by [Y K Wong \(Singapore\)](#) on 27 Sept 2002, 12:10 a.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)*

Hi Vieira,

In fact I have more problem with the Xpander than I have mentioned earlier! In the manual, it was stated that the batteries need to be recharged by the supplied charger for nine hours, I did that but they won't hold the charge at all. From the advice of the seller, I have the NiMH removed and put them into a standard NiMH charger for about 5 minutes and then return them to the unit, there after it is fine! I was told that if the batteries are left too long without a charge, the recharge circuit inside the unit will no longer charge them.

It was some struggling on the first two days of ownership; hence, I don't have much time to explore the unit yet!

Re: Xpander - Can you add some impressions?

Message #11 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 28 Sept 2002, 10:36 a.m.,
in response to message #10 by Y K Wong (Singapore)

About the NiMH recharging issue: Wouldn't it be possible that the "internal circuit" is designed for the "final" Li-Ion nonremovable battery that you mentioned before, and precisely because of this, it didn't recharge your NiMH "interim version" batteries?

I would assume that, given that the batteries are not the type the manual states, the recharging instructions on the manual are (most probably) unapplicable to your preproduction unit. So please keep using an external, NiMH-specific charger, don't even risk your rare and valuable unit!

Re: Xpander

Message #12 Posted by [Fred](#) on 25 Sept 2002, 9:40 a.m.,
in response to message #1 by Y K Wong (Singapore)

I think like the HP-49 you need to squeeze the cover to remove easily.

Re: Xpander

Message #13 Posted by [Y K Wong](#) on 26 Sept 2002, 12:44 a.m.,
in response to message #12 by Fred

Hi Fred,

Not possible, if I would to squeeze it, I will probably crack it!

Try this

Message #14 Posted by [Dave Hicks](#) on 26 Sept 2002, 1:34 a.m.,
in response to message #1 by Y K Wong (Singapore)

With the Xpander held in both hands with the fingers underneath and the keyboard pointed away from you, place your thumbs over either pair of rubber feet and slide the cover away from you with your thumbs.

Re: Try this

*Message #15 Posted by [Y K Wong](#) on 26 Sept 2002, 5:15 a.m.,
in response to message #14 by Dave Hicks*

Thanks Dave!

It seems like getting easier after a few more attempts, unfortunately I have noticed that each time I slide the cover, it just added additional unsightly scratches to the cover :-(

Re: Try this

*Message #16 Posted by [Raymond Hellstern](#) on 26 Sept 2002, 10:43 a.m.,
in response to message #15 by Y K Wong*

Even this 'feature' is similar to the 49G;-)

Raymond

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP42S details

Message #1 Posted by [Christof \(Davis, CA\)](#) on 25 Sept 2002, 3:53 a.m.

OH, more nibble sized questions for the wonderful 42-

Does anyone know what is handled by any of the reserved flags?

Does anyone have a simple lab timer (accurate to a few seconds over 15 minutes is good enough for my current use, but I'm interested in the programming, too.) for the 42S?

thanks, Christof

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-41 Card Reader - HELP

Message #1 Posted by [Gordon Dyer](#) on 24 Sept 2002, 8:20 p.m.

I have a card reader and it seems fine mechanically, it pulls through the cards and does not leave any messy deposits on them.

However after appearing to record a file it will not verify and I always get CARD ERR immediately. It does the same on both my 41CV nd 41CX.

I don't know if it is not recording or not reading the cards as I have not got any recorded cards.

Can anyone help by offering to send me a pre-recorded card with a small program on it? (I am in England). I can then at least check if it reads ok.

Also any other offers of help to diagnose the problem are welcome. I am an electronics engineer and could pull it apart to check signals on the record head etc, but I want to do as much diagnostic work as possible before dismantling it. I do already have the excellent repair articles which have been published on this site.

Thanks.

Re: HP-41 Card Reader - HELP

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 24 Sept 2002, 10:19 p.m.,
in response to message #1 by Gordon Dyer

Hi;

Let me get to the problem. Forgive-me if I ask a silly question: what are you doing, so you record data in a magnetic card? When you mention record a file on it, you mean any of the possible data - program, registers, status or all information? Or an specific data type?

The CARD ERR appears anytime you attempt to read or record or only when reading? I have not seen CARD ERR when recording cards, only when trying to record on bad magnetic cards.

Did you try the VER (verify) function?

I'm an Electrical Engineer, and I just want to focus on the possible problems.

Best regards.

Re: HP-41 Card Reader - HELP

*Message #3 Posted by [Gordon Dyer](#) on 26 Sept 2002, 8:17 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Hi, here is a clearer explanation:

1. I write a small program onto a card, this looks like it works ok.
2. I try to verify the card XEQ VER, but as the card starts to pull through the reader I get CARD ERR.
3. Same thing happens on both calculators 41CV and 41CX.
4. I have tried it several times with different new cards.
5. I have no known good recorded card to check that the card reader can read ok, so I do not know if the fault is when writing to a card or when reading a card.
6. I would like to check the read capability with a known good card before I try to dismantle the card reader.
7. I could also send a card I have tried to write to someone with a card reader to find out if the card has written properly.

Thanks for any help...

Re: HP-41 Card Reader - HELP

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 26 Sept 2002, 10:22 p.m.,
in response to message #3 by Gordon Dyer*

Hi;

After the description, I must agree with David. He is right (he's been right since the beginning; I was the one who did not understand the problem): you should disassembled the reader. I have done it myself for at least five times; it's a safe procedure, be confident and check for the contacts and capacitors. I have not done it yet, but I'd do it, based on our experienced contributors' (valuable) guidance. In fact, I have done so many things based on them, the last one being the upgrading to 32K RAM in an HP42S - Thank you, Randy! -, that I'd do without hesitation.

Success!

Re: HP-41 Card Reader - HELP

Message #5 Posted by [David Smith](#) on 25 Sept 2002, 10:28 a.m.,
in response to message #1 by Gordon Dyer

Two possible problems: 1) One of the switch contact springs is not working (probably unlikely, the design is much better than the HP65/67/97)

2) Readers that write but do not read are almost always caused by a defective tantalum bypass cap on the reader chip power supply. It is usually a small blue dipped tantalum that has developed a high ESR. It usually tests good, but replace it anyway. There are two other caps on the read head windings. They are probably OK. Some readers have a fourth tantalum. It is probably good also.

Re: HP-41 Card Reader - HELP

Message #6 Posted by [Gordon Dyer](#) on 26 Sept 2002, 8:06 p.m.,
in response to message #5 by David Smith

Dave, thanks for your help.

As soon as I can check if it is the read or the write which is faulty I will change the capacitor as you suggest.

Re: HP-41 Card Reader - HELP

Message #7 Posted by [Tony Duell \(UK\)](#) on 27 Sept 2002, 1:53 p.m.,
in response to message #6 by Gordon Dyer

Apologies for not replying sooner... I am in the UK, and have a working HP41 system (with card reader). I would be happy to write a couple of cards for you and post them. Or I can see if I can read cards that you've written on. Are you in the LOnDon area (or can you get to London)? If so, then there's an HPCC meeting in London on the second Saturday of each month. I would be happy to meet you there and look at your card reader (I have repaired several of them, and I normally have a reasonable toolkit with me at meetings).

Re: HP-41 Card Reader - HELP

*Message #8 Posted by [Gordon Dyer](#) on 27 Sept 2002, 2:46 p.m.,
in response to message #7 by Tony Duell (UK)_*

Hi Tony, thanks for you kind offer.

I am in Liverpool and very unlikely to be able to get to one of your meetings, though I would like to!

I will email my address to you and then we can exchange a couple of cards to see what happens.

I have just partially dismantled the reader but I am stuck at the moment because I dont want to try to remove the circuit board without some further advice from someone (like you?) who has done this before and learnt the hard way.

But I will put the unit back together (minus top cover) to write a card and then try to read yours.

Regards, Gordon.

Re: HP-41 Card Reader - HELP

*Message #9 Posted by [Tony Duell \(UK\)](#) on 27 Sept 2002, 4:34 p.m.,
in response to message #8 by Gordon Dyer*

My view is that you should never use 'lucky dip' methods of faultfinding/repair and that at this point you haven't collected enough evidence to decide if a particular capacitor is faulty or not. However, I can tell you how to take the thing apart. I assume you've got the top cover off, which means you've peeled off the label unnerneath. Next, unclip the cover over the HP41 'plug'. It's clipped firmly on at the sides, but it can be prised off. Then undo the remaining 2 screws underneath the label. Everything then comes out of the case -- the mechanism and 3 PCBs. The PCB on top of the reader mechanism is held down by 3 screws and plugs onto pins coming from the mainboard. It contains the switch contacts and part of the write-protect optical sensor. The PCB at the back contains the (custom) sense amplifier/LED driver chip. This is the same as in the 67 and 97, where the latter section is used as a motor controller. Note down the wire colours for the head wiring first (these wires just push into contacts on the PCB). This PCB is plugged into edge-connector-like contacts on the mainboard. It can be removed easily, but make sure you align things properly when reassembling. The main PCB contains a DC-DC converter and 3 chips. The largest one is the card reader interface. One of the others is an HP41 ROM that contains the card reader control firmware. And finally there's a 555 timer (!) for motor speed control. IT's a pity you can't get to the meeting, as I'd have been more than happy to take it apart there and then and check signals with you (I have a LogicDart...). Oh well.....

Re: HP-41 Card Reader - HELP

*Message #10 Posted by [Gordon Dyer](#) on 29 Sept 2002, 8:00 p.m.,
in response to message #9 by Tony Duell (UK)*

Your help is very much appreciated, and if I could get to the HPPC meeting I certainly would. I agree that I should diagnose the problem before doing anything and if you are willing I will continue to use email to try to pinpoint the problem.

Thanks, Gordon

Re: HP-41 Card Reader - HELP

*Message #11 Posted by [Raymond Hellstern](#) on 30 Sept 2002, 7:57 a.m.,
in response to message #9 by Tony Duell (UK)*

Hi Tony,

slightly off-topic, but...

Does the LogicDart have an HP-48 display? The display resolution seems alike.

Regards,

Raymond

Re: HP-41 Card Reader - HELP

*Message #12 Posted by [Gordon Dyer](#) on 27 Sept 2002, 3:22 p.m.,
in response to message #5 by David Smith*

Hi Dave, if you email me I will be able to reply to you and attach a picture of the card reader. I have added an arrow pointing to the cap I think you mean, but I would like to check with you that it is the right one before trying to change it. Also, can you give me some advice on the best way to remove the psu board?

Thanks, Gordon

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: HP-41CX for PocketPC

Message #1 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 24 Sept 2002, 5:52 p.m.

Would you please tell us where to download it for free, as your posting suggests?

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-41CX for PocketPC

Message #1 Posted by [Chris Randle \(UK\)](#) on 24 Sept 2002, 4:56 p.m.

Browsing through new progs for the PocketPC, I came across [this](#).

Haven't tried it myself (never got into the 41), but it looks good.

Re: HP-41CX for PocketPC

Message #2 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 25 Sept 2002, 7:49 a.m.,
in response to message #1 by Chris Randle (UK)

Recommendable, very nice!

I tested it on a Compaq iPAQ 3630 PDA (color), with the spanish PPC 2002 version, I just needed to check some details when installing, everything else was fine.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-11C

Message #1 Posted by [David Forte](#) on 24 Sept 2002, 11:31 a.m.

Can someone please inform me on how to reset this calculator.

Can you also send your response to my email address

thank you in advance

Re: HP-11C

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 24 Sept 2002, 11:50 a.m.,
in response to message #1 by David Forte

Hi;

with the calculator OFF:

1 - press and hold [-] key;

2 - while [-] key is pressed, switch the calculator [ON]

3 - release the [-] key

If the reset is successfull, Pr Error is shown in the display.

Cheers.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

oscilloscope hp 184A

Message #1 Posted by [Daniel](#) on 24 Sept 2002, 9:31 a.m.

Dear friends:

I need the electronic circuit for the HP 184A. Sorry, my English is very bad. I don't know the internet sites. We are obtain it ??

Many thank's

Daniel

Re: oscilloscope hp 184A

Message #2 Posted by [Ren](#) on 24 Sept 2002, 5:30 p.m.,
in response to message #1 by Daniel

Follow this link to a list of manual suppliers for electronic test equipment.

http://straylight.cso.niu.edu/repairfaq/REPAIR/F_Manuals.html

anyone requiring HP test equipment info . . .

Message #3 Posted by [barry](#) on 28 Sept 2002, 11:20 p.m.,
in response to message #1 by Daniel

feel free to contact me; i have a library w/ over 700 original HP manuals in stock; if you need a scan of a couple of pages let me know; i also have some doubles for sale. tnx barry carson city, nv <http://home.att.net/~btuttleman2/electron.html>

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-71B dead!

Message #1 Posted by [James Browning](#) on 24 Sept 2002, 8:30 a.m.

I have a dead HP-71B it did work until I pulled out a ROM when the machine was switched on (accidently) Can I rectify this? Thanks

Re: HP-71B dead!

Message #2 Posted by [Andreas Stockburger \(EU\)](#) on 24 Sept 2002, 2:32 p.m.,
in response to message #1 by James Browning

Hi,

did you try to reset (pull out batteries and shorten contacts) the machine? Are there some more cards in it ? Did you try to remove them ?

Best regards

Andreas

Re: HP-71B dead!

Message #3 Posted by [James Browning](#) on 25 Sept 2002, 10:32 a.m.,
in response to message #2 by Andreas Stockburger (EU)

Yes, Andreas, I removed alll cards (including HP-IL) so it is completely empty.

Using batteries or using the Power supply unit has no effect and the system will not start (nothing on the LCD).

I will try and short the battery contacts tonight but I'm not sure if this will make any difference!

I did not know removing a ROM whilst the machine was powered on would make any

difference!!!!

Can you (or anybody) tell me if this is a well known issue?

Thanks

James

Re: HP-71B dead!

*Message #4 Posted by [Tom Sherman](#) on 25 Sept 2002, 2:48 p.m.,
in response to message #3 by James Browning*

James,

The bad news: The owner manuals for the HP-71 do contain a warning not to install or remove any module while the unit is on.

The good news (quoting from a manual): "If the computer is on while a module is being installed or removed, it might reset itself, causing all stored information to be lost."
There is no warning that any real damage will be done.

I hope it eventually works for you.

Tom

Re: HP-71B dead.. NOW ALIVE!!!

*Message #5 Posted by [James Browning](#) on 26 Sept 2002, 4:12 a.m.,
in response to message #4 by Tom Sherman*

Guys

Andreas was correct here - shorting the battery connectors made the system come alive again when I applied power!!!

GREATTTTTTTTTTTTT!!!!!!!!!!!!!!

Without this I would have probably thrown the unit away!

thanks Andreas/Tom for all your help!

James

Re: HP-71B dead.. NOW ALIVE!!!

*Message #6 Posted by [John K. \(US\)](#) on 26 Sept 2002, 4:53 a.m.,
in response to message #5 by James Browning*

> *Without this I would have probably thrown the unit away!*

Feel free to use the money you would have spent on a replacement to order a set of [MoHPC CD-ROMs](#).

;^)

Re: HP-71B dead.. NOW ALIVE!!!

*Message #7 Posted by [Tom Sherman](#) on 26 Sept 2002, 8:50 a.m.,
in response to message #5 by James Browning*

Great to hear, James.

Enjoy the 71B. For BASIC programming, especially if trig functions are required, it is the best!

Tom

Re: HP-71B dead.. NOW ALIVE!!!

*Message #8 Posted by [David Smith](#) on 26 Sept 2002, 12:24 p.m.,
in response to message #5 by James Browning*

Well it was such a naughty machine, you really should throw it away. Use my trashcan, please.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP41CX mint - lucky 7?

Message #1 Posted by [Tom \(UK\)](#) on 23 Sept 2002, 3:11 p.m.

One dealer is selling these off in the UK as a Dutch Auction, 2 lots of 3. A recently registered name of 'wetblujob' (very funny - not) is currently bidding for all 6 on a bid of \$250.

The only other purchase by the above account is...

A HP41CX (mint) for ... \$400! (from the same dealer)

My 2 cents worth is that there are more of these than I first thought (50+?) and that this has NOT depressed prices!

Will these units re-appear on ebay later for bigger bucks (I can't see a reason to want 7 of these) so a dealer or perhaps an investor?

I heard that Air France used them on concord - so perhaps an agent is buying them up for a comercial set up. Or is NASA behind this one???

PS These calcs were originally listed at 50 pounds 'buy it now', I wonder how much the dealer paid for them? At \$400 each he will have a very good xmas!

Re: HP41CX mint - lucky 7?

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 23 Sept 2002, 3:42 p.m.,
in response to message #1 by Tom (UK)

Hi;

Have a look [here](#) and tell me about it...

Cheers.

Re: HP41CX - a new supplier??

*Message #3 Posted by [AshP](#) on 23 Sept 2002, 4:59 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Well, I suppose that it's promising news that HP are still appointing people to be official suppliers. However, this is the company that was flogging of 41's recently at £250 a throw.

We wait to see if going to be anything to 'officially supply' in future.

Re: HP41CX mint - lucky 7?

*Message #4 Posted by [Emmanuel](#) on 23 Sept 2002, 4:08 p.m.,
in response to message #1 by Tom (UK)*

"I heard that Air France used them on concord - so perhaps an agent is buying them up for a commercial set up." Air France flight engineers use HP-41 for motor power calculations. Last year before a tragical crash near Paris one asked Joe Rigdon to fix some of their HP-41s.

Re: HP41CX mint - lucky 7?

*Message #5 Posted by [Christof \(Davis, CA\)](#) on 23 Sept 2002, 4:19 p.m.,
in response to message #1 by Tom (UK)*

YIke! 50 pounds!!?!?!?

I wish I'd seen that. I'm afraid I succumbed to temptation and paid a bit more for one that that (not on ebay, though)

I dunno, it's worth it to me to finally have one of these without having to worry about repairs and corrosion and etc. I've been trying to figure out how to grab another for about 6 months now (I used one a bit in the navy, but that was back when I owned a brand new 95LX, so it's been a while)

I feel a bit bad that I didn't get a great deal, but I feel good that I got one at all. I *do* wonder how many were out there. Maybe we should band together and find a batch of a dozen going for 50pounds each, eh?

Just to make you drool...

Message #6 Posted by [Dave Mabry](#) on 23 Sept 2002, 6:44 p.m.,
in response to message #5 by Christof (Davis, CA)

It is true that they were 50 pounds at first. Take a look [here](#).

I don't think you can see the "winners" unless you are one on this kind of e-pay ad, but I was able to snatch one of them at this price.

But, there was shipping added to it. ;-)

Total was \$110 and about 7 weeks wait (must have been a really slow boat).

Re: Well actually you can see who bought them ...

Message #7 Posted by [HP-41CX Man](#) on 23 Sept 2002, 10:45 p.m.,
in response to message #6 by Dave Mabry

One of them TAYTEC, is right now [reselling](#) the ones he bought in August for \$400!

Here he [bought 1](#),

and here he [bought 3](#) more ...

- HP-41CX Man -

Re: Well actually you can see who bought them ...

Message #8 Posted by [Rick](#) on 24 Sept 2002, 7:31 a.m.,
in response to message #7 by HP-41CX Man

While that might be true, he hasn't sold any at the \$400 price. One went for \$300, but all those listed at \$400 were eventually relisted.

Re: HP41CX mint - lucky 7?

*Message #9 Posted by [Iqbal](#) on 23 Sept 2002, 7:10 p.m.,
in response to message #5 by Christof (Davis, CA)*

I saw a documentary on CNN a couple days ago, about predicting hurricane paths and a pilot was using an HP41. I got one of these NIB on ebay for \$250 which I consider a deal. It's a chance of a lifetime I guess, because whatever happens at HP, one thing is sure, we'll never see this type of quality again.

Re: HP41CX mint - lucky 7?

*Message #10 Posted by [Gordon Dyer](#) on 24 Sept 2002, 8:56 p.m.,
in response to message #9 by Iqbal*

I was lucky enough to buy one at £50 (I am in the UK). The keyboard is not as crisp as my 41CV fullnut which is disappointing, but otherwise it is excellent.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Support on HP 9825B case

Message #1 Posted by [Dario Rodriguez](#) on 23 Sept 2002, 11:07 a.m.

Hello

We have a equipment which is controlled by a calculator HP 9825B and, now , we want to work with a Personal Computer Interface instead of this Calculator, can you support me on this matter? Thanks
DARIO

Re: Support on HP 9825B case

Message #2 Posted by [Dave Mabry](#) on 23 Sept 2002, 1:55 p.m.,
in response to message #1 by Dario Rodriguez

Hello Dario,

If you are talking about using a PC to control some equipment that is controlled by the 9825 through HPIB, then you would probably want to look at the company National Instruments. They make some of the best cards that implement IEEE-488 (the current name for HPIB) on the market and support those cards in current operating systems.

You will probably have to rewrite your applications since I know of no software that can run the programs from your 9825 directly on the PC.

I hope this is of some help. Dave

Re: Support on HP 9825B case

Message #3 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 24 Sept 2002, 7:22 a.m.,
in response to message #2 by Dave Mabry

For the software side, there is a chance that products from a company called TransEra may help you...

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-71B reset?

Message #1 Posted by [ed](#) on 23 Sept 2002, 11:05 a.m.

Hi I have just purchased an old HP-71B. I removed the only ROM in the machine (an old British Social Welfare ROM used with a Bar Code Wand) and powered up via the AC adaptor - all is well so far - it worked.

I then tried batteries - however all I get is the ">" prompt and the RUN message and the "f" symbol in the display - the whole system seems to have frozen.

Can anybody tell me how to "reset" the HP-71B?

It seems dead to all key input now - just that above display when I apply any power.

Thanks

Re: HP-71B reset?

Message #2 Posted by [Tom Sherman](#) on 23 Sept 2002, 11:26 a.m.,
in response to message #1 by ed

Ed,

Although I have used a 71B for 17 years, I have not encountered the problem of a frozen display. So this suggestion is offered not from direct experience, but from referring to the owner's manual (p.274), which I gather you do not have. The manual says:

1)Unplug the AC adapter, remove batteries, and remove all modules. 2)Press and hold down the ON key for about 30 seconds to discharge the circuits. 3)Install batteries or connect the AC adapter, and press ON. The message "Memory Lost" should be in the display. Pressing any key should display the BASIC prompt and Replace cursor.

Good luck!!

Tom

Re: HP-71B reset?

*Message #3 Posted by [ed](#) on 23 Sept 2002, 11:41 a.m.,
in response to message #2 by Tom Sherman*

hi Tom

Thanks for your help Tried this with no luck - kind of curious! It seems like it has crashed and a backup (if it has one) battery of some sort is maintaining the crashed state.

It was working until I placed the batteries in it.

Now frozen - maybe for ever - I hope not!

Ed

PS. No I have no manuals!

Re: HP-71B reset?

*Message #4 Posted by [Tom Sherman](#) on 23 Sept 2002, 12:08 p.m.,
in response to message #3 by ed*

Ed,

Oh, dear. Perhaps someone else will have a remedy. About all I can add is that there is no back-up battery, but it is possible that the capacitance of the circuits needs more than the 30 seconds to discharge. Maybe the best thing to do is to do nothing for awhile, letting it sit on the shelf for a day or so without its batteries. One way or another, I think you will win in the end.

All the best,

Tom

Re: HP-71B reset?

*Message #5 Posted by [David Smith](#) on 23 Sept 2002, 12:50 p.m.,
in response to message #4 by Tom Sherman*

I don't know how long the 71B can retain its memory without batteries, but I have some 41CX machines that last over a month. Most 41xx machines last well over a week. The manuals say only a few minutes.

To Reset the 71B

*Message #6 Posted by [Mike](#) on 23 Sept 2002, 2:39 p.m.,
in response to message #1 by ed*

Hold down the '\ key while turning it on.

Then you can enter 1, 2 or 3 for full reset.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: HP48G Question

Message #1 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 23 Sept 2002, 9:01 a.m.

Hi;

I think I can help.

Is it always a lower-cas "h" what you have to locate? If so, you could simply use POS with your string in both levels 2 and 3 (I'll explain latter) and an "h" in level 1. After POS is executed, you'll have the string in level 2 (the "extra" copy teft in level 3, right?) and the position of the "h" in level 1; now you place a "." in level 1 and execute REPL.

If you're sure your character to be replaced is always in the same positon, use REPL with this scheme:

```
"string to be changed"
  position of character to be replaced
"string with the characters to be placed"
```

If this procedure fits your needs, REPL will be the solution. If a general postional changing may happen, a simple program will be better (if you need help, let us know). Anyway, look for POS, REPL, CHR, NUM and SUB.

Hope it helps.

Best regards.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP Resellers in Taiwan

Message #1 Posted by [Vic](#) on 23 Sept 2002, 5:12 a.m.

Does anybody know any HP reselleres in Taipei, Taiwan? I tried to visit www.hp.com.tw for information, but their website always give me a timeout error ... :-(

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

2 essential questions about HP49

Message #1 Posted by [Martin](#) on 23 Sept 2002, 4:49 a.m.

Hi all,

the first question I have and I hope to be answered is that why does the HP49 return the result "-1" for "-1 yx 2" ???

And the second question I hope to be answered by someone who already had contact with ASM. There is an error occurring, when I try to compile a string file. Well, I tried to type in one of the shorter examples of Kalinowski and saved it as a String-File, then later on after using ASM on this file the calculator returns "Invalid File" ????. What to do ?? Maybe ya know !!

Re: 2 essential questions about HP49

Message #2 Posted by [Werner Huysegoms](#) on 23 Sept 2002, 4:55 a.m.,
in response to message #1 by Martin

Q1: because the unary operator '-' has lower precedence than y^x . So $-1^2 = -(1^2) = -1$ Q2: the string file has to end with: <LF>@ The '@' must be the first character in the last line, and no other character may follow it (not a blank, either). There can be many other problems. Post the string if it still doesn't work.

Werner

I want ASM info source for the HP49; have any?

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 23 Sept 2002, 10:26 a.m.,
in response to message #1 by Martin

Hi;

the title explains itself. When I bought my 48SX I tried SYS RPL (successfully) and got to the fact that I'd not particularly need the enhancements achieved. Now I'm a lot curious about ASM in the HP49G because the O.S. is upgradable, and (rational) changes can be introduced in the calculator this way. I just want to know the better starting-point (preferably e-docs; finding OR ordering something from outside Brazil is always a headache), because there is no ending-point for this sort of subjects...

Thank you very much.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP is stepping down?

Message #1 Posted by [Charles](#) on 22 Sept 2002, 9:55 p.m.

Is it true that HP will no longer make calculators? Well, at least not the good style? RPN, programmable... Is the 49g and the 20s all that remain? Should I go and snatch up one of the remaining 48gxs? By the way does anyone know how to enter : in the 32sii programming environ.? Is there a copy of the manual online somewhere? HP wants 43.00 for a copy of it!! charles

Re: HP is stepping down? A new model to come?

Message #2 Posted by [Chris Catotti \(Florida\)](#) on 22 Sept 2002, 10:47 p.m.,
in response to message #1 by Charles

I bought some HP-32SII's from an Australian Surveying Supply house. I have since sold all the Australian ones. I just emailed the place I bought from before and other surveying suppliers in Australia. The following reply from one supplier is consistant with an early reply from a different supplier. I have no crystal ball to know if it is true, but I do believe this is what Australians are being told.

"Thank you for your enquiry, however we are out of stock of this unit, and HP are no longer manufacturing it. They will be introducing a replacement towards the end of this year, but until then the graphics calculator range are the only alternative.

It is my understanding some components required in the manufacturing process have become extremely dated and un-obtainable.

If you can hold off, I suggest you wait until the new one is introduced, or you can investigate the more powerful graphics range."

Re: HP is stepping down? A new model to come?

*Message #3 Posted by [Tom \(UK\)](#) on 23 Sept 2002, 7:36 a.m.,
in response to message #2 by Chris Catotti (Florida)*

Some-one from ACO (when it was running) said the Saturn processor was soon to be obsolete. Perhaps HP made the HP32Sii until the processor chips were all used up?

The HP48/9 use a different version of the Saturn chip so perhaps these too will be discontinued when HP run out of these chips (if the one used is also obsolete).

As with everybody else I wait for HP's next move.

Does anyone know what processor is used for the HP30 or HP10Bii? Perhaps then new calc will be based on these.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 82104A HP41C/CV/CX Card Reader Parts!!

Message #1 Posted by [Scott Kindorf](#) on 22 Sept 2002, 9:54 p.m.

Hello!

I have enough separate parts to make 3 complete HP41 Card Readers, but no patience and/or time to rebuild them into working units.

I would be willing to do a straight-trade for one *working* HP 82104A Card Reader for ALL of the parts, including the spring-steel for the mounting clips.

All motors work fine, but the rubber pinch wheels have pretty much succumbed to the effects of deterioration.

If you have any interest in making such a trade (especially those who specialize in repairing HP41HP41C/CV/CX's and peripherals), please let me know!

email:scottkin@adelphia.net

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Is there any word from London

Message #1 Posted by [Richard Garner](#) on 22 Sept 2002, 1:03 p.m.

Has there been any word from the HPCC Conference in London on whether HP is still in the calculator business?

Re: Is there any word from London

Message #2 Posted by [Emmanuel](#) on 22 Sept 2002, 1:10 p.m.,
in response to message #1 by Richard Garner

Did you meet Robert Pulluard, french fellow living in Netherland? Yours. Regards from Normandy.

Re: Is there any word from London

Message #3 Posted by [thibaut.be](#) on 22 Sept 2002, 6:25 p.m.,
in response to message #2 by Emmanuel

I'd love to be there, but my budget presentation is scheduled for next friday and I had to work on datas all the week-end :-((((((

Really looking forward to hearing what this guy from HP announced !

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-200LX and HP-41 IR link

Message #1 Posted by [Emmanuel](#) on 22 Sept 2002, 6:23 a.m.

Is the COM pac on HP-200LX able to receive IR transmission form HP-41? Thanks.

Re: HP-95LX, too

Message #2 Posted by [Christof \(Davis, CA\)](#) on 22 Sept 2002, 5:37 p.m.,
in response to message #1 by Emmanuel

I've been wondering something similar- Can the 95LX use the IR to receive data from my 28s, 42s, and can it print to an HP82240 series printer?

Is there any software that can add that fucntionality?

-C

Re: HP-95LX, too

Message #3 Posted by [Raymond Hellstern](#) on 23 Sept 2002, 4:07 a.m.,
in response to message #2 by Christof (Davis, CA)

AFAIK there's a IR driver utility for the 200LX, which enables it to at least print to the IR printer. Maybe this driver can be used to exchange data between the LX and Pioneer series.

Should be available on www.hpcalc.org

But I'm not 100% sure because I always used a serial cable connection from the 48GX to the 200LX.

Raymond

Re: HP-200LX and HP-41 IR link

Message #4 Posted by [Mike \(Stgt\)](#) on 23 Sept 2002, 5:45 a.m.,
in response to message #1 by Emmanuel

Yep, but not useful. Should do some programming.

Ciao.....Mike

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

What's HP 83236A?

Message #1 Posted by [Matthias Wehrli](#) on 20 Sept 2002, 11:30 a.m.

Two weeks ago I bought a lot of "EPROM Cards". One I could identify as a ROM/EPROM Card for the rare HP-94. the others are labeled as HP 83236A, but I can not definitifly say what they are for. They fit into a HP-48 slot (when I start the 48GX I get "Invalid Card") but on the net I found the following link to a HP system, that has the same number...

http://www.cequipnetwork.com/listing_detail.asp?lst=735

Can anyone tell me, what are these cards for?

Matthias

Re: What's HP 83236A?

Message #2 Posted by [Chris Catotti \(Flrida\)](#) on 20 Sept 2002, 3:56 p.m.,
in response to message #1 by Matthias Wehrli

See also http://www.1avalon.com/shop/hp_83236a_av_.htm

Re: What's HP 83236A?

Message #3 Posted by [Matthias Wehrli](#) on 20 Sept 2002, 5:20 p.m.,
in response to message #2 by Chris Catotti (Flrida)

See

<http://www.hp-collection.org/Pict0001.jpg>

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 40G problem

Message #1 Posted by [mapet](#) on 20 Sept 2002, 10:23 a.m.

When I turn on my HP 40G it says "Invalid card data" what is the problem ? thanx

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP41 modules...making?

Message #1 Posted by [JasonG](#) on 20 Sept 2002, 4:55 a.m.

Hi there.

I am now the proud owner of a 41cx and am looking for some modules for it (I'm in the UK, so they seem quite scarce) and I got to thinking about making one or two.

As we have the ROM files available for most modules, it should be fairly straightforward to burn an EPROM or two to make a module of the required type. Were/are there EPROM modules available for the 41 (3rd party or HP?) and has anyone tried making their own module hardware?

Finally, where can I get the detailed information about the 41's hardware so that I can go about designing a module?

regards

JasonG

Re: HP41 modules...making?

Message #2 Posted by [Emmanuel](#) on 20 Sept 2002, 5:19 a.m.,
in response to message #1 by JasonG

Hi, I have some experience in burning Eproms for HP-41 and HP-71 Eprom Box.

Re: HP41 modules...making?

Message #3 Posted by [Meindert Kuipers](#) on 20 Sept 2002, 3:10 p.m.,
in response to message #2 by Emmanuel

I am working on an FPGA that will behave like an EPROM box, but will use FLASH EPROMS instead. I am nearly finished with the simulations and will then start looking implementing it in real hardware. It will be 2 IC's only: the FPGA (most likely a CPLD) and the FLASH EPROM. I will soon start working on a full MLDL version with RAM, allowing you to develop your own microcode. I have a preliminary spec available at www.kuipers.to/hp41

Re: HP41 modules...making?

Message #4 Posted by [Emmanuel](#) on 20 Sept 2002, 4:07 p.m.,
in response to message #2 by Emmanuel

For instance, you need a couple of Eproms for HHP or SCIP 16K Eprom Boxes: 2716 and 2732 in order to generate a 4K (1 MCode page) module. 2732 and 2764 for 8K (2 pages). 2732 and 27128 for a 16K (4 pages). HHP 32K Eprom for HP-71B use a 2764 (8K module), a 27128 (16K) or a 27256 (32K).

Re: HP41 modules...making?

Message #5 Posted by [Joe Edelman](#) on 23 Sept 2002, 2:53 p.m.,
in response to message #4 by Emmanuel

I have made a number of eproms for the HP41. This was done in the 80's. I still have all the equipment I used to do this including the MLDL, Mountain computer eprom making equipment, HHP-16K eprom box made by Hand Held Products(4 of these) an eprom holder built into a card reader box that slips on the 41, also made by Hand Held Products. If anyone is interested let me hear from you with an offer.

Re: HP41 modules...making?

Message #6 Posted by [Emmanuel](#) on 23 Sept 2002, 6:01 p.m.,
in response to message #5 by Joe Edelman

Of course I'm interested in getting your Mountain Computer IL Eprom Programmer and one of your HHP 16K EBs. Yours.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-28S surpasses US\$280 mark

Message #1 Posted by [David Tan \(Singapore\)](#) on 20 Sept 2002, 12:04 a.m.

The previous record, US\$265, set just more than a week ago, has been broken by this one!

Re: HP-28S surpasses US\$280 mark

Message #2 Posted by [Scoba Diver](#) on 20 Sept 2002, 5:28 p.m.,
in response to message #1 by David Tan (Singapore)

Was it on eBay?

Can you post a link? I didn't see it!

Re: HP-28S surpasses US\$280 mark

Message #3 Posted by [David Tan \(Singapore\)](#) on 21 Sept 2002, 1:39 a.m.,
in response to message #2 by Scoba Diver

I just want to leave it here for your discussion: <http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1380884140&rd=1>

Re: HP-28S surpasses US\$280 mark

Message #4 Posted by [Scuba Diver](#) on 21 Sept 2002, 4:56 a.m.,
in response to message #3 by David Tan (Singapore)

Ah, now I see why I couldn't find it; I was only searching items available in Canada or where the seller is willing to ship to Canada...in that particular case, they were only willing to ship to the US.

Maybe it's the 5 books that are included...I realize that 3 of them are available on Dave's CD set, but if people don't know that, they may be willing to pay through the nose...

I have an extra 28S...maybe I should throw it up on eBay and see what it fetches...

NIB 28S on eBay

*Message #5 Posted by [Scuba Diver](#) on 22 Sept 2002, 2:51 p.m.,
in response to message #4 by Scuba Diver*

Did you see? Someone is selling a NIB 28S on eBay...it's a 1991 Singapore unit.

I don't even want to THINK about how much that unit's going to go for!

B.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

42s Programming Question

Message #1 Posted by [Steven Soto](#) on 19 Sept 2002, 8:45 p.m.

For convenience, I would like to "insert" a program so that the menu keys for the programs are in a particular order. If I use the GOTO . . I get a new program at the "front" of the menu, which corresponds to the last program in memory. Can I do this without re-entering programs?

Is it possible to do this, or should I use the custom menu and assign programs to keys that way?

Re: 42s Programming Question

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 19 Sept 2002, 11:32 p.m.,
in response to message #1 by Steven Soto

Hi;

I am almost sure the procedures described bellow are known by you, but I decided to keep them there, so anyone else that doesn't know how to accomplish these procedures will be able to understand; O.K.?

There is no other way to put program labels in a specific order than by "inserting" them in memory in this order. As you mentioned, after a GTO[.][.], the "program memory" (an internal pointer) will be positioned in the "top" of the program memory.

Anyway, you can always position the pointer in between two existing programs and "insert" a complete, new one in there. Imagine you have:

```
.END.
END
.
.
LBL "THELAST"
END
.
.
LBL "THENEXT"
END
.
.
LBL "FIRSTNE"
```

If you want to add a new one and get this arrangement:

```
.END.  
END  
.  
.  
LBL "LAST"  
END  
.  
.  
LBL "NEXT"  
END  
.  
.  
LBL "MID"  
END  
.  
.  
LBL "FIRST"
```

you should: (in normal mode)

[SHIFT][GTO] [NEXT]	(NEXT will appear as a menu key)
[SHIFT][PRGM]	(enters into PRGM mode)
[SHIFT][GTO][.]0[ENTER]	(positions before the first line of NEXT program)
	(insert all lines for the program
[XEQ] END	(so the new program in its own space...)
[SHIFT][PRGM]	(leaves PRGM mode)
[SHIFT][GTO][.][.]	

Otherwise, if you want to trade one label for the other, you should "reinsert" all lines for the existing program and delete its previous "existence".

Using CUSTOM or TMENU (with KEYGO or KEYXEQ) will be, indeed, more efficient, as you mentioned.

As I mentioned in the beginning, I am almost sure you are reading about your own thoughts. Anyway, I hope this helps.

Cheers.

(Please, if there is anything wrong, allow me to know)

Re: 42s Programming Question

Message #3 Posted by [Steven Soto](#) on 22 Sept 2002, 6:17 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

Luiz,

Thanks. I was just airing out a brain fart. I was trying to insert a "LBL" function when I should have been inserting an "END" function.

I should have known better. I've been using the same calculator since 1990. It got me through high school, undergrad and grad school (mechanical engineering). One would think I could do something like this without asking.

Thanks again.

Steven

May I?

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 22 Sept 2002, 10:16 p.m.,
in response to message #3 by Steven Soto

Hi!

You see? I was sure you knew it. it was a matter of reading and figuring out your own answer.

I'm a teacher, and I encourage my students to ask WHATEVER they want to. Among many, the best benefits for me are:

I'll know if I'm able to figure out an answer; I'll know if my answer clears the doubt out; I'll show myself I have these abilities

Wanna know something? I believe I speak for the others when I say this: everytime I know the answer to some of the questions posted here, I'm posting it ASAP, so I'll have the chance to hear from the others that will, when needed, correct my answer OR complete it. It's a sharing place! When I myself fail knowing the answer, I anxiously wait till someone posts it.

Thank you allowing me to know I know this answer. (in fact, from previous HP41 knowledge base..)

Best regards.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP48G emulator for Sony Clie Palmtop

Message #1 Posted by [Renato](#) on 19 Sept 2002, 8:15 p.m.

There is a HP48G emulator at <http://ftp.mindspring.com/~hildinger/Power48/>

I don't have a Clie (sigh...)

Can anyone give it a try ?

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

E-bay bidding rationale ???

Message #1 Posted by [Dave Mabry](#) on 19 Sept 2002, 4:54 p.m.

After watching the prices on HP calculators skyrocket on e-bay for the last year or so, I've noticed something that just puzzles the heck out of me about the way some people bid. There are a few bidders, and probably at least some of them are frequent visitors to this forum, who are putting in bids that I don't understand.

My question is this. These few bidders seem to ALWAYS put in the first bid, and often the lowest allowed starting bid, on auctions for HP calculators. And they place this starting bid right away. It seems to me that these starting bids can't be intended to win anything since they are almost always outbid quite quickly. What this does accomplish is to negate any "buy it now" option that the seller might have put on the auction without also putting a reserve on it.

Granted, sellers who put BIN options on their auctions without also placing a reserve might not understand how that works. But I'm wondering what these same few buyers are trying to do.

There have been more than one time that I would have hit the BIN option but by the time I saw the auction one of these few initial bidders has placed his minimum bid and negated that BIN choice.

What am I missing here? What is the strategy being employed?

Re: E-bay bidding rationale ???

Message #2 Posted by [Fred](#) on 19 Sept 2002, 5:09 p.m.,
in response to message #1 by Dave Mabry

They are bidding low to allow tracking items easily. Makes finding items later easier using EBay search techniques. Searching for ID Tomd can usually find most any HP item...

Re: E-bay bidding rationale ???

Message #3 Posted by [Dave Mabry](#) on 19 Sept 2002, 5:15 p.m.,
in response to message #2 by Fred

Is that easier than just bookmarking them? That's what I do.

Yes, TOMD is one of the ones I always see doing that. There is a Tom Drewski (think that's the spelling) who frequents here. Is that Tom the same person?

Oh well. It sometimes bothers me about missing the BIN chance, but I guess that is the seller's problem as much as mine.

Re: E-bay bidding rationale ???

Message #4 Posted by [Richard Garner](#) on 19 Sept 2002, 5:45 p.m.,
in response to message #3 by Dave Mabry

I set up bookmarks for what I am looking for. I have one that is general, hp calculator, that returns about 95% of all hp calculators on eBay. From there I break it down to specific item that I want to check on such as hp 42s, or hp 48gx and so on. Also eBay has a "Watch This Item" feature that does not require you to bid on an item to follow it. I guess what it really comes down to is finding out what features eBay has to offer and then figuring out how to use them. Most people will find a method that works for them and then not change or not look for anything else that might be better.

Re: E-bay bidding rationale ???

Message #5 Posted by [Marc](#) on 19 Sept 2002, 8:46 p.m.,
in response to message #3 by Dave Mabry

I think he is the same. He must have quite a collection!

Re: E-bay bidding rationale ???

Message #6 Posted by [Bob](#) on 19 Sept 2002, 8:42 p.m.,
in response to message #2 by Fred

But if this is true and he does use it primarily for tracking purposes, why does he continue to place more bids on the same item early in the auction? I've seen him bid numerous times on the same item. Is this why prices are so high?

Re: E-bay bidding rationale ???

Message #7 Posted by [tomd](#) on 20 Sept 2002, 4:41 a.m.,
in response to message #6 by Bob

why not ask me?

Re: E-bay bidding rationale ???

Message #8 Posted by [Dave Mabry](#) on 20 Sept 2002, 12:01 p.m.,
in response to message #7 by tomd

Hi Tom,

Mainly I didn't ask you because I wasn't sure that you were the TOMD on e-bay. Apparently you have confirmed that you are so I guess I can ask you. Why do you make initial bids on auctions that are usually at the starting amount and get outbid? And does it ever have anything to do with the BIN option?

There have been a few answers here and they make some sense to me, but maybe you can enlighten me on your rationale.

Thanks.

Re: E-bay bidding rationale ???

Message #9 Posted by [Joe](#) on 21 Sept 2002, 6:08 p.m.,
in response to message #8 by Dave Mabry

There is a limit of 20 items that can be put on a watch list so bidding 1st or low allows you to create a different kind of watch list. The downside to this is that others can see what items you are watching and give them a sense of the demand for the item. I also don't understand the rationale of placing multiple bids because it only seems to serve the purpose of raising price levels on eBay. Perhaps there is something I'm missing.

Re: E-bay bidding rationale ???

Message #10 Posted by [Randy Sloyer](#) on 19 Sept 2002, 7:38 p.m.,
in response to message #1 by Dave Mabry

For some, it must be entertainment. I know some loyal Hp bidders who wait up into wee hours particularly Sunday night into Monday morning to have first crack at the new indexes for BIN's placed at low prices (really? what's low anymore?) by those who really don't understand how eBay works best. Perhaps they have something they think is worth \$50 so they list it BIN at \$100, thinking they will make a killing if some fool jumps at the BIN. I have seen those last about 5 minutes when the price is right. I think the minimum bidding may be out of frustration? Heh, I can't buy it now, but I can show the world I was here first. What else can you do after you've waited for hours for eBay to get around to updates? Heh, I'm here, I might as well bid for fun, 'cause I'm not going to win anyway.

Dave, you're right about the bid amounts, I think they absolutely know they are not going to win, but they do it anyway. It is just part of the game. If it does anything, it just baits the newbies to try to outbid them by a buck. There could be a piece of pure junk up for auction and it can sit for days with no bids. When that first bid shows up at \$1.99, the "everybody loves a bargain" mentality must kick into high gear and the free-for-all starts. It's not logic, it's emotion.

On the other side of the equation, the guy you mention may not end up winning many regular auctions, but I believe he has scored a red-dot 35 for \$39 and a perfect 42S for \$100 using the buy-it-now. So perhaps it is worth it to troll the new indexes when they pop out every 4 to 6 hours. Hey, for all we know, they may have some HTML reader bot auto surfing the calculator category looking for deltas and beeping them on their pager when something new shows up. I personally, have better things to do with my time than trying to make \$10 or \$20 being the middle-man on a calculator sale. It just isn't worth the risk. As I think Dave Hicks said in here somewhere, it is a totally transparent market.

Anybody who is buying on eBay to resell on eBay is going to loose. Those are my words, not Dave's. Unless of course you bought a big pile of new 32Sii's back in January on \$49 close-outs. But, my crystal ball is broken, so I don't to try to figure out what is the next hot item.

Re: E-bay bidding rationale ???

Message #11 Posted by [Bill Hemphill](#) on 20 Sept 2002, 6:51 a.m.,
in response to message #1 by Dave Mabry

The one I don't understand is why bidders bid higher on their own bid. I've been looking at the bid history and see that many times the same person keeps bidding up his own bid. WHY????? In several cases the successful bidder increased his own bid by \$50.

Why would anybody EVER bid higher when they already have the high bid?????

Re: E-bay bidding rationale ???

Message #12 Posted by [Stephan \(CH\)](#) on 20 Sept 2002, 7:03 a.m.,
in response to message #11 by Bill Hemphill

Hello Bill. I have asked me the same question. The explanation to it is very easy as I have learned. If you place a bid with which you didn't reach the highest bid yet, your alias appears on the list and you get a note that you have been outbid by someone else. So you try again and your bid appears again. And so on until you place the highest bid. This means your name shows up as long as you did not reach the top bidder. The more small steps the more your name turns up on the listing. Hope it is understandable explained by a native Swiss. ;-) Cheers Stephan

Re: E-bay bidding rationale ???

Message #13 Posted by [Bill Hemphill](#) on 20 Sept 2002, 9:53 a.m.,
in response to message #12 by Stephan (CH)

Stephan, Thanks. Do you mean that the reserve is not met and they then bid higher? Looking over the bid history and the date/time they make the bid, it looks like they already have the high bid. So the only reason I could see bidding higher was if I hadn't met the reserve price.

Of course, I don't know how accurate the Date/time that e-bay shows in the bid history is. Sometimes the history list looks strange. A person placing a higher price appears lower on list (by date/time).

Re: E-bay bidding rationale ???

Message #14 Posted by [David Smith](#) on 20 Sept 2002, 5:54 p.m.,
in response to message #13 by Bill Hemphill

When you bid against yourself on Ebay, all it does is raise the maximum amount that you are willing to spend. Ebay uses "proxy" bidding. The amount you actually pay is only a percent or two above the next highest bid.

People usually raise their own bids when they see other bidders are getting close to what they have already bid, or if they place a bid and figure out it is only a couple of bucks over the previous high bid.

For instance they bid 80 dollars on something, Ebay comes back and says the high bid is now \$77 (because the previous bidder had bid \$75). They then go back and bid \$100. Ebay still shows the high bid as \$75, but it gives them \$25 more in automatic bid increases in case anybody else bids against them.

Re: E-bay bidding rationale ???

Message #15 Posted by [David Tan \(Singapore\)](#) on 20 Sept 2002, 7:08 a.m.,
in response to message #11 by Bill Hemphill

Some people did last-minute bidding. However, they feared that their (proxy) bid was not high enough and that they might be outbid ultimately.

Re: E-bay bidding rationale ???

Message #16 Posted by [Dave Shaffer](#) on 20 Sept 2002, 7:15 p.m.,
in response to message #15 by David Tan (Singapore)

If you place an Ebay bid and are immediately outbid (i.e. your bid is anywhere below the maximum amount the current top bidder has placed by proxy), I don't think your bid ever shows up in the list of bidders and amounts. It's as if you never existed for this auction - which is fair enough: you haven't bid high enough to force somebody else to do something other than what they have already committed to do.

I suspect those folks who appear 5 or 6 times in a row, with higher and higher amounts, are (as somebody else suggested) just raising their maximum proxy bid after having second thoughts that their first (or second, or third, or ...) amount won't really be enough to win and they are willing to go higher without waiting for the competition to jump in. This tends to be newbies. I think most of us with some Ebay experience put in our (nearly!) maximum bid on about the second try, halfway through (or closer to the end) of the auction. (That tends to be my strategy/logic, at least: bid fairly low at first, to

check the competition - is there somebody out there willing to compete at your initial level of interest? Then, you come back later. If the price is up, you now decide whether you really want this object, or were just hoping for a bargain on the first try (it happens). If you want to compete and want this item, it now makes sense to put in your maximum proxy amount. If you are willing to hang around near the end of the auction, then you might go lower than your absolute maximum, so you don't push somebody with competitive juices too high, and you then expect to place a last-minute bid or two if the price hasn't gotten too high.)

I'd be interested in hearing other thoughts on bid strategy - I mean some combination of how much you want "THIS" item, how much you are looking for a bargain, and whether or not you have the time to hang around at the end of an auction.

I know there have been several threads on Ebay sniping and other questionable (by some!) bidding techniques and strategies, so I'm not trying to start those discussions again! Just looking for some other strategies, too.

Re: E-bay bidding rationale ???

*Message #17 Posted by [Chris Catotti \(Florida\)](#) on 21 Sept 2002, 1:11 a.m.,
in response to message #16 by Dave Shaffer*

I might as well comment ...

I often place a minimal bid early so that can track it later. Shortly after I noticed Buy-It-Nows and the possible effect of ruining BUY-IT-NOW for someone else, I made sure I do not bid on a BUY-IT-NOW, unless right then I am going to Buy-It-Now myself. The only exception I make is when it is a very low bid, and the seller has a reserve. (It won't hurt someone else's chance).

I often ask the seller of RESERVE auctions, what the reserve amount is, so "that I can bid appropriately." This is mostly a way to tell if I can afford to bid a real bid later. I avoid bidding my maximum bid early as this usually drives the price higher, I often beyond what I would be willing to spend. The exception is if I know I can not be at the computer at auction end [Vacation, business trips, sleeping, typically).

I have been guilty a few times each year of bidding a lot of small increments at the beginning of an auction. This is to see if I can get the "Hot Item" flame icon at ebay to turn on for the item. I think it requires 30 bids the first 24 hours, or something like that. I do it at items often under \$1, so that my silliness does not inflate the price.

Re: E-bay bidding rationale ???

*Message #18 Posted by [David Smith](#) on 21 Sept 2002, 10:24 a.m.,
in response to message #17 by Chris Catotti (Florida)*

I have never figured out why anybody would place a hidden reserve price on an Ebay item. If they want to protect themselves just set the opening bid at the reserve price. Items that do not sell are almost always have a reserve set (which was usually less than identical items listed at the same time without a reserve and did sell). When relisted without a reserve they usually wind up selling... for less than the bids the first time around.

The guy who tried to sell the two 9100A machines is an excellent example. Imagine two 9100A's NOT selling. He would not disclose his reserve. When he relists them I bet that the bids will be lower than before.

Are you kidding?

*Message #19 Posted by [Mike](#) on 4 Oct 2002, 10:12 p.m.,
in response to message #18 by David Smith*

He sold them... he sold them both... and he didn't pay eBay fees. He probably had a reserve to find out who was interested.

Did you ever see them back on eBay?

I was contacted by him. Others were too. I passed because he was holding an off-eBay auction.

Re: Are you kidding?

*Message #20 Posted by [David Smith](#) on 5 Oct 2002, 3:35 p.m.,
in response to message #19 by Mike*

The key words were "when he relists them". He never relisted them because he sold them off line... for a little less than what the high bids were. I'm very confident that they would have sold for more if they had not been listed with a hidden reserve.

I'm not so sure

*Message #21 Posted by [Mike](#) on 6 Oct 2002, 10:08 a.m.,
in response to message #20 by David Smith*

I offered \$1500 and he said he had higher offers, so I'm quite confident that he got more than what the high bids were on eBay, at least for the working one.

Re: I'm not so sure

*Message #22 Posted by [David Smith](#) on 6 Oct 2002, 8:03 p.m.,
in response to message #21 by Mike*

Yes, I know exactly what was paid for them ;) With shipping it was pretty darn close to what the high bids were at.

Re: E-bay bidding rationale ???

*Message #23 Posted by [Mike Sebastian \(Texas\)](#) on 21 Sept 2002, 9:29 a.m.,
in response to message #16 by Dave Shaffer*

Here are my two cents worth...

First, I need to know what the "market" price on eBay is for the item, and the volatility of that price. This is accomplished by looking at the final prices on completed auctions. I also look who the losing bidders were - some were just placing monitoring bids, others were legitimately trying to win the auction and will likely bid in the future.

Second, I have to decide how much the item is worth to me. This includes deciding if it's even worth the market price to me, or how much over the market price I'm willing to pay. For unusual/rare items, I try to make a best guess from my observations of previous auctions of similar items.

Third, I decide if I can even afford to place a meaningful bid. (Yes, this sometimes means that I miss bidding on something that by some fluke went for a small fraction of its market price.)

Finally, if I do decide to place a bid, I usually bid snipe it, and usually use a snipe-bot. With a snipe-bot, I won't lose sleep or upset my employer, and I avoid getting wrapped up in a bidding frenzy.

With Buy-It-Now auctions, I still go through my pricing process. But, I'm usually

willing to pay a small premium to avoid the aggravation of the auction.

And, with HP calculator auctions, I long ago gave up even trying to understand that market. Like many people in this forum, all I can do is express astonishment at the prices some people are willing to pay for fairly common machines.

Re: E-bay bidding rationale ???

*Message #24 Posted by [Ellis Easley](#) on 25 Sept 2002, 5:07 p.m.,
in response to message #16 by Dave Shaffer*

Dave wrote:

"If you place an Ebay bid and are immediately outbid (i.e. your bid is anywhere below the maximum amount the current top bidder has placed by proxy), I don't think your bid ever shows up in the list of bidders and amounts. It's as if you never existed for this auction ..."

I don't think this is correct. The Ebay Proxy Bidding system only increases the bid by the current increment. As long as your bid is higher than the current high bid (that is to say, at least one increment higher than the bid which is one increment higher than the SECOND highest bid), your bid will be recorded and then the Proxy Bidding system will see if the previous high bidder had a high enough maximum bid to exceed your maximum bid by at least one increment. If so, you will be immediately outbid but your bid (your maximum bid) will still be recorded because for a moment you were the high bidder! The only time your bid doesn't register at all is when it is lower than the current high bid by the time it gets to Ebay - at the end, sometimes a lot of people are bidding just moments apart.

The most frustrating thing might be when you match the previous high bidder's maximum bid. Since he bid the same amount some time before you, he wins! At least when there is an increment difference between your highest bid and the winning bid, you can console yourself with the idea that the winner's maximum bid might have been much higher than you would pay.

I would like to repeat my current disenchantment with Ebay, which is sellers who don't know how to pack things properly for shipment. As I said before, some Ebay sellers buy something for a dollar and sell it on Ebay for a hundred dollars, then wrap it up for shipment as if it is something worth only a dollar, which can be easily replaced.

Don' let ties happen! (was: Re: E-bay bidding rationale ???)

Message #25 Posted by [W. Bruce Maguire II](#) on 25 Sept 2002, 7:24 p.m.,
in response to message #24 by Ellis Easley

Ellis wrote:

...The most frustrating thing might be when you match the previous high bidder's maximum bid. Since he bid the same amount some time before you, he wins!...

This is why one of my *very first* pieces of advice to any 'eBayer' (who would listen) would be this: *NEVER* bid with an even---or nearly even---dollar amount! Looking at the bid history of auctions, I'm always amazed to see that, more often than not, the bids are on \$1.00 boundaries!

Do yourself a favor, and never, ever again bid a dollar amount that is a multiple of 25 cents; add a random fraction of a dollar. And adding a penny isn't good enough! :-) Instead of \$10.00, bid \$10.38, or \$10.12, or \$10.83, or ... you get the point. I always do this, and I have never tied. The odds of tying when doing this are much smaller than the few-hundred-to-one that you might think (assuming the next-highest bidder is within a couple of dollars), since *hardly anyone* bids like this!

Just my two cents...no, make that *ELEVEN* cents! ;-)

Bruce.

Re: E-bay bidding rationale ???

Message #26 Posted by [Tom\(UK\)](#) on 26 Sept 2002, 7:51 a.m.,
in response to message #24 by Ellis Easley

V busy at moment but my tactic is:

bid late, bid just enough.

If someone bids in the final few seconds there is very little you can do about it.

If some-one is in a bidding war don't get sucked in.

Remember there are always more fish in the sea - but over time the prices are going up and up! I wonder when the bubble will burst - if ever.

Re: E-bay bidding rationale ???

*Message #27 Posted by [Tom](#) on 27 Sept 2002, 8:17 a.m.,
in response to message #26 by Tom(UK)*

A perfect example of irrational bidding with 5 days remaining...

<http://cgi6.ebay.com/aw-cgi/eBayISAPI.dll?ViewBids&item=1383289548>

This is not true

*Message #28 Posted by [Mike](#) on 4 Oct 2002, 10:24 p.m.,
in response to message #11 by Bill Hemphill*

You cannot increase your own bid. Some people bid and then realize that they should have placed a higher bid. Those are the ones where you see two on top.

But you cannot increase your own bid. I have done just that from time to time and it never increases my bid; only by high bid.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

New Calc market Survey

Message #1 Posted by [Dave](#) on 19 Sept 2002, 12:27 p.m.

Well as an update: I've received emails from 5 potential customers so far. Not a whale of a market, but I will perservere for a bit...

What appears to be missed most is:

Keypad feel of classic HP calcs - TI built calcs not a substitute

Desire for simple keystroke programming approach

RPN

Some desire to mimic 48 series capabilities

Any other potential customers out there?

Dave

Re: New Calc market Survey

Message #2 Posted by [Dwight Myers](#) on 19 Sept 2002, 3:33 p.m.,
in response to message #1 by Dave

I am interested in continued availability of RPN programmable calculators. Keyboard feel is better on HPs, but not the main point. Reliability is very important. I started with TI's (lower cost, I was a student on a budget) and their original calculators were pretty good. I am thinking of the SR10 and the SR51A. When my SR51A was stolen, I replaced it with a TI-55. It developed keyboard bounce almost immediately. I then purchased an HP34C, which was one of the most reliable calculators I ever saw. When my wife's TI developed keyboard bounce (her third TI with the same problem) we bought her an HP32E. Both of them still work reasonably well today (18-20 years later, mine with heavy use for 10 years). The newer TIs are again

reasonably reliable, from what I have seen of student calculators. But there is no way I ever want to go back to algebraic entry. TI lost my business due to shoddy calculators, but they won't get it back (unless I have no alternative) without an RPN unit.

Now that I've rambled with my calculator life history, I remember the other idea I wished to suggest: I believe there must be other scientists/engineers like myself who appreciate the advantages of RPN. I think a limited run calculator could have possibilities. Steve Ciarcia of Circuit Cellar made IBM/XT and AT clones that were sold (as kits?), so I would think someone could do the same with a limited run calculator. A LINUX style open source effort, maybe?

Regards, Dwight

Re: New Calc market Survey

Message #3 Posted by [Marc Brucker](#) on 19 Sept 2002, 4:02 p.m.,
in response to message #1 by Dave

Hi Dave,

I think reliability and RPN are the attributes I admire best in a calculator. I do like the tactile affirmation of HP's keypads, though. Thank you for this survey.

Best wishes for our future,

Marc.

Re: New Calc market Survey

Message #4 Posted by [Olivier croissant](#) on 19 Sept 2002, 4:58 p.m.,
in response to message #3 by Marc Brucker

I would like reliability, RPN, Complex numebers and please, more interesting high level functions , like gamma , bessell,hypergeometric.

THIS CALCULATOR WOULD BE MORE THAN A TOYS IF IT COULD SHOW
COMPUTATION PERFORMANCE CLOSE TO A DESKTOP (I mean 1000 time faster
than the 41C or the 48)

Re: New Calc market Survey

Message #5 Posted by [Bill Wiese](#) on 19 Sept 2002, 5:45 p.m.,
in response to message #1 by Dave

Dave...

RPN and an intelligent keyboard layout would be key for me.

Some form factors: (1) very pocketable, like the \$6.00 TI25X w/added durability and good keyboard.

(4) some midsize calc whose keycaps were replaceable, relabellable, etc. - combined w/ firmware programs or user programmability - makes for flex. calc (think Calculated Industries stuff)

(3) a bit larger/bulkier - like an HP25 w/backlit LCD. I LOVE that feel. Calcs can be too small for desktop use.

(4) RPN sci desk calc w/printer. Large keys for 0-9/ Enter/.'/EEX/CHS.

Functions: When I need to do serious math, I have Matlab and/or Excel on a PC. A calc for me is for 'playing with numbers'. Fancy programmability and high speed are far less of an issue for me now. An HP49 is not useful to me. An HP41C or 42S level of programmability would be OK, with something like HP71B BASIC useful for larger programs (no reason why two can't coexist).

Aside from programmability, the features of the old HP27 (LED) version are nice: sci + financial...

Base features: - orig. 4-level RPN (not 28S/48S "RPN"!!!) - hex/dec/oct/bin conv. + math easily used from keyboard; maybe some HP16C features and IEEE floating pt conversion functions. - PV/FV/n/i/PMT & related financial functions;

Architecture: - cheapie 8-bit microcontroller (80C51, H8, 68HC05/08, etc.) w/internal RAM, ROM, timers, serial, GPIOs; external serial EEPROM (24CXX/93C5X series) for user prgrm storage.

Display: - min. backlit one-line ASCII matrix LCD display

I/O: - RS232 serial (5V drivers optional?) and 8bit GPIO

That's my 2 bits...

Bill Wiese San Jose, CA

Re: New Calc market Survey

Message #6 Posted by [J.C. Randerson](#) on 19 Sept 2002, 6:56 p.m.,
in response to message #1 by Dave

There appears to be 3 general categories where HP could do well:

- (1) a simple, inexpensive RPN scientific pocket calculator that one could take anywhere, glovebox, etc..., say under \$30, along the lines of the HP32.
- (2) an upgraded scientific calculator along the lines of an improved HP42, price \$50-\$125.
- (3) improve the HP48/49 series with a faster processor, more memory, and upgraded programming, price about \$150 to compete with TI.

Re: New Calc market Survey

Message #7 Posted by [Gordon Dyer](#) on 19 Sept 2002, 9:18 p.m.,
in response to message #1 by Dave

I would like to buy a new RPN 4-level stack calculator with Voyager style and size case, dot matrix display with full alpha capability using HP-41 style mode keys, 41 style programming and function display, menus to access extended scientific functions or financial calculations. Equation solver.

Ability to run 41C, 11C, 15C or 42S programs for backwards compatibility (perhaps via a PC conversion utility).

RS232 mini connector to PC with built in control software and a pc disk packaged which allows full PC emulation and program development plus synchronisation of program files.

Clock, alarms and stopwatch built in.

MUST have the 41 Fullnut or Voyager keyboard feel and click.

....dream on.....

Re: New Calc market Survey

*Message #8 Posted by [Christof \(Davis, CA\)](#) on 21 Sept 2002, 3:00 a.m.,
in response to message #7 by Gordon Dyer*

for serial connections, I personally think it's crucial to run a standard serial terminal style of interface. I want something that any system with rs232 and and ansi terminal can connect to and share files with.

any proprietary solution requiring special software will lessen the value of the serial port. something that talks ansi I can connect to from just about any computer currently being used without needing anything except standard OS distribution supplied apps.

I can give a lot of ground on the rest- lines of display, graphics capability, expansion possibilities (begrudgingly). But if I can't access and share data with my sun, windows, hpux, aix, and hp48 boxes, it's not really an improvement over the 42s.

Re: New Calc market Survey

*Message #9 Posted by [Glen Kilpatrick](#) on 21 Sept 2002, 7:49 p.m.,
in response to message #8 by Christof (Davis, CA)*

I second Christof, who just reminded me of the travails I've had with WinCe (and maybe soon with Palm). Kermit may be slow, but it's very reliable, and works on boatloads of platforms.

However, I've gone over my entry to this survey many times, many lists, and every time I seem to end up with specs for a device that has most of the features of a 48 but with a 49's Algebraic Mode & flashability, and a 41's RPN (one calc to rule them all :). I don't seem to care if it fits in my shirt-pocket, but I sure care that the art of the calculator is advanced.

Re: New Calc market Survey

*Message #10 Posted by [Court Jester](#) on 24 Sept 2002, 3:01 a.m.,
in response to message #9 by Glen Kilpatrick*

I would like to share your hopefulness, Glen, but HP-central seems to be playing Frodo to our Sauron and seems to be eyeing Mt. Doom too fondly.

Sorry this doesn't add much intelligence to the discussion line, but I am only a fool ...

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Moving files from HP-41/HP-IL to PC and back

Message #1 Posted by [Chris Catotti \(Florida\)](#) on 19 Sept 2002, 11:19 a.m.

What is the easiest and/or lowest cost method to move files from HP-41/HP-IL to PC and back. I have already HP-IL and HP9114 Disk Drives. I still do not have an HP-IL PC Circuit Card. I may have an HP Infrared capture device that can accept the HP-41 Infrared Printer Module output and opto-couple it in to a serial port on a PC. I have not tested it yet, and the owners manual is in German.

Re: Moving files from HP-41/HP-IL to PC and back

Message #2 Posted by [Mike \(Stgt\)](#) on 19 Sept 2002, 12:07 p.m.,
in response to message #1 by Chris Catotti (Florida)

With the 9114 you have won: just use LIFUTIL or VLIF on your PC to read (and write in the first case) on LIF formatted disks. AFAIK there is a copy of LIFUTIL somewhere on MoHP's sites.

Ciao.....Mike

Re: Moving files from HP-41/HP-IL to PC and back

Message #3 Posted by [Dan M](#) on 19 Sept 2002, 1:13 p.m.,
in response to message #1 by Chris Catotti (Florida)

Chris:

I wrote an article with a lot of information about this very topic some time ago. It can be found at:

<http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/articles.cgi?read=24>

I recommend sticking with the PC-Floppy-9114 setup, as it is easy to do. One warning, I have been told that among its many features "MS Windows XP" no longer has the capability to make LIFUTIL and LIF work on the floppy drive (low-level BIOS calls to the floppy...???). I have

not tried it yet with my "MS Windows XP" so don't know for sure.

Email me if you have questions, clarifications, or cannot find answers or files that are needed. My email has been changed since the article was written.

Dan

Re: Moving files from HP-41/HP-IL to PC and back

*Message #4 Posted by [Peter](#) on 19 Sept 2002, 4:26 p.m.,
in response to message #3 by Dan M*

Dan: it's true, LIFUTIL does not run under Windows XP. Otherwise its working fine.

But is'nt there an easier way to copy the files of the swap disk archive (with the 32 byte LIF header) to LIF disk than LIFUTIL? I can not think that someone copied all these files to DOS (or unix/linux) with adding the header by hand. There must be a program which does the header handling (both directions) by itself?

Mike: You asked for the SKWIDINK Barcode manual, but I did not hear from You again. Any interest?

-Peter

Re: Moving files from HP-41/HP-IL to PC and back

*Message #5 Posted by [Christoph Klug](#) on 20 Sept 2002, 4:17 a.m.,
in response to message #4 by Peter*

Actual I am working on the second generation rebuild version of the HP-IL/PC Interface Card. This will be available in short time and gives you some nice gateway features between real HP-41 handheldcomputer and PC world...

Best wishes from Germany Christoph (author of the I/O-Board and IL2000 system for hardware interfacing/measurement/control applications with HP-41)

Re: Moving files from HP-41/HP-IL to PC and back

*Message #6 Posted by [Raymond Hellstern](#) on 20 Sept 2002, 7:42 a.m.,
in response to message #5 by Christoph Klug*

Hi Christoph,

will it be an ISA or PCI card?

Regards,

Raymond

Re: Moving files from HP-41/HP-IL to PC and back

*Message #7 Posted by [Mike \(Stgt\)](#) on 7 Oct 2002, 4:54 a.m.,
in response to message #4 by Peter*

> Mike: You asked for the SKWIDINK Barcode manual, but I did not hear from You again. Any interest?

Sorry Mr. Petersson, my eMail inbox on the 200LX filled up with several unanswered notes. (I'm still married and I have 2 demanding kids. And my mother and my mother in law need some care too. Just not enough time for my >100 calculators collection.)

M.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-10B PDF manual

Message #1 Posted by [Johnny Bjoern Rasmussen](#) on 19 Sept 2002, 6:57 a.m.

Look what I found on HP's homepage:

http://www.hp.com/cposupport/manindex/hp10bbusin20038_eng_man.html

(HP-10B manual in PDF-format)

I don't seem to see any other manuals...

Re: HP-10B PDF manual OTHERS TOO (only business)

Message #2 Posted by [Johnny Bjoern Rasmussen](#) on 19 Sept 2002, 7:08 a.m.,
in response to message #1 by Johnny Bjoern Rasmussen

Well - there seems to be some other manuals, only for business calculators though...

I only wish for the manuals for the rest of the shebang...

Re: HP-10B PDF manual WHY NOT SCI's?

Message #3 Posted by [Johnny Bjoern Rasmussen](#) on 19 Sept 2002, 7:23 a.m.,
in response to message #2 by Johnny Bjoern Rasmussen

We technicians also miss a manual now and then. Not only business people needs PDF-manuals from HP ;-)

Re: HP-10B PDF manual WHY NOT SCI's?

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 19 Sept 2002, 5:26 p.m.,
in response to message #3 by Johnny Bjoern Rasmussen

I sometimes loose all may text when trying to get back from an error... I'll write again.

Try [this link](#) and the Product Support for each calcualtor will lead you to another page; at the right side of each calculator's picture, yóu'll find a link to Manual. Go there and you can donlad it.

I tried both HP32SII (Portuguese and Spanish, only) and the HP39G (English only). It worked fine.

Hope it helps. Success.

Re: 12C Manual on HP site...NOT!

Message #5 Posted by [Scuba Diver](#) on 20 Sept 2002, 6:51 p.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)

Have you noticed on eBay that many sellers of 12C calculators claim that the manual is available for free via download from HP? They're even nice enough to provide the link!

They may want to take 2 seconds to actually check the link out...HP provides the Solutions Guide for the 12C via download, but not the manual!!

The solutions guide provides ZERO information on the calculator basics...

I guess one person did it ages ago, and now everyone else is copying them...it's as if they're all a bunch of lemmings!!

I think I need a beer! TGIF! B.

Re: 12C Manual on HP site...NOT!

*Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 20 Sept 2002, 11:10 p.m.,
in response to message #5 by Scuba Diver*

Hi;

you can find both: Manual do Usuário e Guia de Programação da HP12C (Portuguese; usefull for less than 8% of the mankind) and Manual del Proprietário (Spanish; usefull for a lot more people). The portuguese and Spanish versions of the User's Manual are available; these are the ones we can download...

Try [this link](#). What worries me is that it is 24.2 MBytes long.

Cheers.

Re: 12C Manual on HP site...NOT!

*Message #7 Posted by [Scoba Diver](#) on 21 Sept 2002, 1:34 p.m.,
in response to message #6 by Vieira, Luiz C. (Brazil)*

You're right, Luiz, they're both available in Portuguese and Spanish, but in English, only the Solutions Manual is available.

They are large files, aren't they!!! I'm not an Adobe expert, but I do know that the Solutions Manual was scanned in at actual size, so when you print it out, it only fills a portion of the page. I'd be willing to bet that the Portuguese and Spanish manuals are the same

B.

Re: 12C Manual on HP site...NOT!

*Message #8 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 21 Sept 2002, 6:40 p.m.,
in response to message #7 by Scoba Diver*

Hi, Scuba!

I downloaded and printed the Solutions. It's an ASCII-based PDF, with some graphics; that's why it's smaller than the others (PO & SP), that are built with scanned images. They have no ASCII-text, so no search at all.

Final printing for the Solutions Handbook (I've been looking for it for a while) is directed to A4-size paper (210 mm X 297 mm). It fits fine.

Best regards.

Re: 12C Manual on HP site...NOT!

*Message #9 Posted by [Scuba Diver](#) on 21 Sept 2002, 7:29 p.m.,
in response to message #8 by Vieira, Luiz C. (Brazil)*

The entire manual completely fills a sheet of A4 paper?

Hmmm...maybe I should try again! I printed it on letter paper (similar in size to A4) and there was about 10 cm. margin around the text!!!!

B.

Re: 12C Manual on HP site...NOT!

*Message #10 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 21 Sept 2002, 9:05 p.m.,
in response to message #9 by Scuba Diver*

Hi;

I am not sure if I did not understand you or I did not express myself right. What do you mean by << The entire manual completely fills a sheet of A4 paper? >>?

The final printing contains 161 pages, A4-size. I printed mine both-sides (odd- and even-pages facing each other) and they look

great.

I did not try the letter-size paper, but there is also a margin left when using the A4 (I did not measure it). I did not like the final layout, because it is ugly! And it also has some errors, like keystroke sequence different of the program code in the same program line.

I used Adobe Acrobat Exchange so I copied the complete ASCII text for the manual to a file, and I'm rebuilding it so it will fit anywhere. In fact, I want to reduce it to a size that matches the original HP12C Owner's Handbook and Programming Guide. The problem is that the images (all boxed keys are bitmap images, not ASCII characters... sob!)are not transfered, only text. I hope the final "product" worth the job.

Cheers. And forgive my lack of English understanding...

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-16C Question

Message #1 Posted by [John Smith](#) on 19 Sept 2002, 6:16 a.m.

Hi everybody,

Just a question for all those amazingly knowledgeable HP-programming experts in this Forum. I've recently got a brand-new HP-16C, manuals and all, and have tried to program a very simple calculation, for test purposes but mostly for fun.

The problem is, I know next to nothing about this particular machine, which has a very different function set from, say, an HP-11C or 15C, and though what I'm trying to do seems pretty simple, I can't figure out how to do it nor can make any sense of reading the manuals.

The question is: I'm trying to perform a pure floating point calculation (not octal, hexadecimal, binary or whatever, just plain floating point), but there's a time when I need just the INTeger part of a floating point value. In an HP-11C or 15C or almost any other model, I would simply use the built-in INT function, but either I'm too dumb to notice, or there seems to be no INT function on the 16C !

Now, I'm sure there must be some easy way of doing just that, getting the INTeger part of a floating point value, and then go on performing more floating point computations with that value and the rest of the 4-level floating point stack unaffected.

Can it be done ? How ? I just can't believe it can't, and I'd rather blame myself for failing to see the probably ultra-obvious correct procedure.

Any help would be greatly appreciated, many thanks in advance, and excuse me if my question is way too silly.

Re: HP-16C Question

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 19 Sept 2002, 11:58 a.m.,
in response to message #1 by John Smith

Hi;

you're no dumb at all. There is no INT function available in the 16C's Floating Point repertoire. If you have the Owner's Handbook, get Section 5. All available Floating Point resources are described there.

And now you teased me. I'll work on this subject soon, but I want you to check for this:

- go to Floating Point and store a number (say, 234.4567) in R0 ([STO] 0) - clear X-register and go back to integer hexadecimal ([HEX]) - recall R0 and inspect its contents

you'll see the two rightmost digits are the exponent of ten, and the leftmost digits are the mantissa. As you are in HEX mode, you see that the numbers are stored in BCD coding, and you should "mask" the **n** leftmost digits, being **n** the exponent of ten (in our case, 2), remove the rest of the mantissa and save the so called "INT" representation back to R0. I believe it will need about 10-15 program steps. If you wanna try, tell me. I'll try this weekend.

Success.

Now, my questions are:

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 19 Sept 2002, 5:07 p.m.,
in response to message #1 by John Smith

Hi;

I read your post again and you mention a bradn-new HP16C; my first question is: where did you get this?

You also mention "manuals" two times in your post. The second question is: which is the other namual than the Owner's Handbook?

Thanks. (any success already?)

INT function on a HP without it

Message #4 Posted by [Nenad Vulic \(Croatia\)](#) on 20 Sept 2002, 2:58 a.m.,
in response to message #1 by John Smith

Try this (it works for positive floating point numbers in X-register):

EEX; 9; +; LAST X; -

It can also replace RND function if you replace 9 by 9-N, where N is the number of digits after the decimal point you want to preserve.

I have used this a lot on my HP33E when I was in high school (more than 20 years ago).

Nenad

Re: INT function on a HP without it

Message #5 Posted by [Les Bell](#) on 20 Sept 2002, 3:12 a.m.,
in response to message #4 by Nenad Vulic (Croatia)

Neat, but there's no EEX on a 16. <g> It really **is** a very different beast.

Best,

--- Les Bell, CISSP [<http://www.lesbell.com.au>]

Re: INT function on a HP without it

Message #6 Posted by [Les Bell](#) on 20 Sept 2002, 3:25 a.m.,
in response to message #5 by Les Bell

Bzzzt! Earth to Les: Of **course** there's an EEX button on the 16, it's just f-CHS, where you can't see it in a dark office. . . .

Sorry, Nenad - your technique will work just fine.

Best,

--- Les Bell, CISSP [<http://www.lesbell.com.au>]

This is a solution!

Message #7 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 20 Sept 2002, 6:22 a.m.,
in response to message #4 by Nenad Vulic (Croatia)

HI, Nenad;

What to say? Simple procedure, brilliant solution.

Cheers.

Certainly ! Thanks to both of you

Message #8 Posted by [John Smith](#) on 20 Sept 2002, 10:42 a.m.,
in response to message #7 by Vieira, Luiz C. (Brazil)

Thanks to both of you for your imaginative solutions. Adding a large number will certainly work, though I will have to take into account the sign of the numbers, as they can be negative at that stage and if so I would need to subtract instead of adding.

I was thinking that perhaps there was some way of changing to some integer mode, do some operation with the number, then return to floating point with the truncated result, but could find no way to do it.

As for Luiz's question, I got the machine while visiting a new acquaintance to whom I told casually I was interested in HP calcs. Much to my astonishment, she then produced the still boxed machine from a drawer where it had been stored for the last 20 years or so. Everything was unused, brand-new, even the Owner's Handbook was still shrink-wrapped. Not wishing to open it up, I got a copy of a book from the "Easy Course ..." series, but couldn't find any reference to an INT function anywhere. That particular book is large, heavy, and makes fun reading, but probably is no substitute for the manual proper.

Again, thanks to both of you, you've been most helpful.

Re: Certainly ! Thanks to both of you

*Message #9 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 20 Sept 2002, 10:52 p.m.,
in response to message #8 by John Smith*

Hi;

If you need to keep your original manual as it is, let me know. I'll scan the original (I have one) and send you the images.

If I have one HP16C Owner's Manual packed, I'd do what is needed to keep it this way.

Cheers. (lucky guy...)

Re: INT function on a HP without it

*Message #10 Posted by [Werner Huysegoms](#) on 23 Sept 2002, 1:39 a.m.,
in response to message #4 by Nenad Vulic (Croatia)*

I'm afraid that's RND, not INT. For INT, do: .5 - EEX 9 + LASTX - And even then, it does not always yield the correct answer due to 'unbiased rounding':

1. 'INT' -> 0. 2. 'INT' -> 1.

But I don't have a HP on which to test that. My 42S has unbiased rounding.

Werner Huysegoms

Re: INT function on a HP without it

*Message #11 Posted by [Nenad Vulic \(Croatia\)](#) on 23 Sept 2002, 10:56 a.m.,
in response to message #10 by Werner Huysegoms*

You are right, Werner, thank you. I have to improve it. If you need an INT (not a RND) you may use the following program (17 steps):

```
*LBLA; ENTER; ENTER; EEX; 9; +; LASTx; -; x>y; 1; 0; ENTER; 1; 0; /(divide); -;  
RTN
```

This was tested on HP11C and works for positive numbers. The program contains only the functions available on a HP16C (as seen from it's photo, not a real one:)

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

bicycle speedometer

Message #1 Posted by [Tal](#) on 19 Sept 2002, 3:47 a.m.

Hi, HP48 users!

I wrote this loop for a bicycle speedometer.

The program works fine except that the maximum speed is 5.6 revolution to second(that mean ~44Km/h).

I would appreciate it if someone could help me to achieve 60Km/s ~7.7Hz.

```
0 STIME TICKS DO DO 1 SRECV DROP2 TICKS DUP ROT - B\->R 64290.816 SWAP / " "
SWAP + " Km/h." + 3 DISP 'j' INCR DROP UNTIL KEY END UNTIL 13 == END
```

Regards, Tal

Re: bicycle speedometer

Message #2 Posted by [Tom \(UK\)](#) on 19 Sept 2002, 7:38 a.m.,
in response to message #1 by Tal

"I would appreciate it if someone could help me to achieve 60Km/s ~7.7Hz."

Well if you train hard, eat the right food and don't drink too much (or find a long steep hill) then you may acheive this speed on a bycicle.

:-)

I have done some programming of the HP48 to create a stopwatch program using TICKS. However the time freezes every so often when the HP48 decides to go off and do something else (that I haven't asked it to do). I think the only way round this is to use system calls rather than RPL. I found this non-real time aspect of the HP48 is a bit disapointing.

Tom.

Re: bicycle speedometer

*Message #3 Posted by [Glen Kilpatrick](#) on 19 Sept 2002, 1:06 p.m.,
in response to message #2 by Tom (UK)*

Just a guess, but I believe the 48 series goes away occasionally for memory garbage collection. This may be forced by MEM (probably MEM DROP, we don't want that stack heading for the stars), so it seems reasonable that including this in a loop will most likely slow the first pass, but then ensure that subsequent loops run the same speed, and alternately, just putting those commands before the loop should suggest to the Yorke that it need not do any further checking in the loop (but I'm not totally convinced of this last myself).

Perhaps someone more versed with 48 performance can address this issue of garbage collection.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

My new HP12C...is this normal?

Message #1 Posted by [Scuba Diver](#) on 18 Sept 2002, 2:28 p.m.

OK, I am now the proud owner of TWO 12Cs. One of them is made in the good ol' US of A and has was built in 1992. My new one is a 1995 unit made in Singapore.

The USA-made unit has shiny keys; the Singapore built one has keys with almost a matte finish... very dull.

Is this the way all non-US 12Cs are? I didn't think so...maybe this is an anomaly?

Can anyone advise? Thanks! B.

Re: My new HP12C...is this normal?

Message #2 Posted by [Randy Sloyer\(US\)](#) on 18 Sept 2002, 5:13 p.m.,
in response to message #1 by Scuba Diver

I am not an expert on the Voyager machines but my bet is that the good'ol USA model has double-molded keytops. It was one of the hallmarks of Hp quality. It is a process whereby the key is made from two different color plastics, white for the actual legend, brown for rest of the keytop in two separate operations. No matter how much it wears down, the legend is still there (well almost always). When they moved production overseas, some of the calculators went from the double-molded keys to printed keys to cut costs. With printing, the surface must have some roughness to it, otherwise it is difficult to get the ink to bond. There are printing processes that use acid based inks and sublimation processes that etch the ink into surface, but I have not seen any evidence of this on the printed Pioneers that I have examined. So perhaps the surface of the key is dulled to allow the ink to bond. This happened with the cheaper Pioneers for sure, but the Voyagers, I don't know as I don't have any non-usa models. Only a theory. On the positive side of printed keys, I have yet to see a Pioneer missing legends on the keys due to wear, but by the standards of the old Hp, these calculators are still in their infant stages of life.

Another possibility: They may have changed the molding de-flash process for the double molded keys, thus dulling the finish. I have some 42S units made in Indonesia with this

condition. They appear to have micro-fine scratches across the key, left to right. Almost as though they had been sanded with say, 800-1000 grit sandpaper. This would be done to smooth the surface of the keytop where the brown fills in around the white, leaving no sharp bits of plastic to rub on your fingertip.

I'm sure there are other possibilities, just my two cents worth.

PS: I know the China 12C's have printed keys, FWIW.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

New Calc market Survey

Message #1 Posted by [Dave](#) on 18 Sept 2002, 10:04 a.m.

Yesterday I posted a request to email me if your interested in purchasing a new calculator design.

I received 2 responses and am reposting to see if more interest lies out in this forum. I will expand my search to other sites shortly. Just wanted to begin here.

I would like to see how many people are interested (market size) and possibly spec out a list of desired features.

Thanks

Dave

Re: New Calc market Survey

Message #2 Posted by [Pascal](#) on 18 Sept 2002, 12:44 p.m.,
in response to message #1 by Dave

First question is: do you want to design a calculator or a high-tech handheld computing device? The former may make sense while the latter doesn't. There are far too many PDAs & Co out there on the market.

So, here's my wishlist: - Very portable and robust design, i.e. Voyager-like. - Very low battery usage, again like the Voyager series. - Two line LCD dot matrix display with around 30 digits/line. - Multiple data types: True integer, high (i.e. 30 digit) precision real and complex, matrices and strings, like the 49G/42S. - Switchable between RPN and ALG mode (default: RPN :-)) - Keystroke programmable for those beloved quick'n dirty programs. - Inductive I/O interface for fast data exchange without draining the batteries and without (corroding) contacts. - Enough RAM (without exaggerating it)

To complement that, PC/MAC software should be available to do offline program development for the calc using a cross compiler. Advantage: outperforms keystroke programming for larger

applications, resulting code is quicker than keystroke user programs. And less instructions mean a longer battery life :-)

...what a dream! Pascal

Re: New Calc market Survey

Message #3 Posted by [Christof \(Davis, CA\)](#) on 18 Sept 2002, 1:16 p.m.,
in response to message #2 by Pascal

If I can just respond directly to this instead, though it's a repeat of parts of my email.

I'm pretty much in agreement - and I don't much care whether it look more like a 15C or a 42S (though I the 42S is easier to use in when held in the hand than the voyager)

I longer lcd is in interesting effect, though. It hink I'd trade having more of the stack visible for the extra 16 digits of display

I'm not sure that it's any easier to build in a "modest but useful" amount of ram than it is to incorporate multi megabyte CF cards. and 2 flash cards in the case (like 41 ports) would make for some really nice "mothership free" backups and data sharing. (flash cards are also OTS technology, far cheaper than the hp48 single platform equivalents, and the interface opens itself up to surverying and lab equipment modules eventually.)

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

SKWID INK PLUS HP-41 Barcode Rom

Message #1 Posted by [Christoph Klug](#) on 18 Sept 2002, 9:55 a.m.

Does anyone have the Plus version of the SKWIDBC module for HP-41. CAT 2 = SKWIDBC+ . This speeds up HP-41 barcode plott by using the special graphic features of the HP Laserjet Plus printer. I only need the rom-image of this module. Please contact christoph.klug@de.bosch.com

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 15C

Message #1 Posted by [David Barnes](#) on 18 Sept 2002, 9:15 a.m.

I recently uncovered my HP15C after many years and many years of use getting my BSEE. Can someone tell me what type (voltage/size) batteries are used in the 15C??? I replaced with the ones I thought were correct, but no go.... -david

Re: HP 15C

Message #2 Posted by [Glen Kilpatrick](#) on 18 Sept 2002, 10:52 a.m.,
in response to message #1 by David Barnes

Fetchd from another HP Forum thread --- http://www.hp.com/cgi-bin/cposupport/get_doc.pl?SNI=hp12cfinan20040&LC=mobile_computing&Tfile=bpia5189

Re: HP 15C

Message #3 Posted by [Tom Sherman](#) on 18 Sept 2002, 12:14 p.m.,
in response to message #1 by David Barnes

Same as used in HP-12C and many other recent HP calculators: silver oxide 1.55V Energizer #357 or alkaline #A76 (silver oxide lasts longer). Or see more complete list of equivalents under "Batteries and chargers" at the HP Museum.

Re: HP 15C

Message #4 Posted by [Randy Sloyer\(US\)](#) on 18 Sept 2002, 5:25 p.m.,
in response to message #1 by David Barnes

If you have the correct batteries installed in the proper direction, consider the unit may need a hard reset. Sometimes when the unit has been at zero voltage for a time, they don't want to wake up.

The Hp suggestion is to take a small short piece of wire and lifting the plastic flaps, short the battery stack out with the wire for just a brief instant. This drops the voltage to zero and allows it rise slower than if you shoved the cells in. Yes, it sounds crazy, but it works.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Cleaning HP-45 switch contacts

Message #1 Posted by [Steve](#) on 18 Sept 2002, 4:35 a.m.

I have been using my trusty HP-45 daily but I am having trouble with flakey contacts in the keyboard.

I disassembled the calculator and cleaned the switch contacts with an electronic non-lubricating cleaner, followed by a lubricating type. Unfortunately the contacts are impossible to get at, and this didn't seem to help much.

Does anyone have a method of cleaning these switches?

I did notice a little sticker inside saying that back in May of 1976, HP did this for me, but I think it needs it again!!

Thanks, Steve RPN'g since 1975

Re: Cleaning HP-45 switch contacts

Message #2 Posted by [warren](#) on 18 Sept 2002, 6:58 a.m.,
in response to message #1 by Steve

I have had success as follows: Cut some strips of virtually any kind of paper (I used a piece from a small notepad) approximately 3/16" wide by 3" long. Slide the paper under the raised key contact strip, between the strip and the keyboard below. Soak the paper with a contact cleaning fluid. Press down on the key contact strip, and pull the paper through. Repeat several times for each key. You may find advice to use extremely fine sandpaper instead of paper, but I have been told that that is not a good idea. Good luck.

Re: Cleaning HP-45 switch contacts

*Message #3 Posted by [Steve](#) on 18 Sept 2002, 4:24 p.m.,
in response to message #2 by warren*

Oh I get it, the idea is to burish each contact under the spring steel.

OK, I'll try that next. Thanks! Steve

Re: Cleaning HP-45 switch contacts

*Message #4 Posted by [David Smith](#) on 18 Sept 2002, 5:52 p.m.,
in response to message #2 by warren*

I use 1500 grit sandpaper with a drop of Caig Pro Gold contact cleaner on it. Insert strip (1/8 x 2 inches) under the offending key, press down on the key, and draw the strip through. Onc pass on each side of the contacts should be enough.

I have tested the 1500 grit paper on the gold plated etches and it takes quite a few strokes to start wearing the gold, and it does work much better than plain paper.

Re: Cleaning HP-45 switch contacts

*Message #5 Posted by [Steve](#) on 19 Sept 2002, 2:07 a.m.,
in response to message #4 by David Smith*

David & Warren,

Thanks for the tips, yep it worked great! I used a fairly rigid paper and some Caig De-Oxit. While this cleaner didn't work as a passive spray, using the wiping action fixed it right up.

So if it works for another 27 years, that should be just fine.

Thanks again!

Steve

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

why calculators?

Message #1 Posted by [Christof \(Davis, CA\)](#) on 18 Sept 2002, 3:30 a.m.

I hate to overfill the new thread bucket. but I'm not sure where this fits.

Regarding the specifics of a new calculator project:

(please note that a lot of this is biased opinion, but there should be some salient fact based meat in the mix)

1: I could be VERY wrong, but I don't feel that there are enough old calculators floating around to make a "gutting old HPs" approach worthwhile. It'd get a few of us a few machines. (similar to the 32K HP42S project- which is fantastic!!! We just lack a large supply of 42S calcs). It wouldn't get us, kids, friends, associates- not all of us would be able to get machines. (I'll deal with demand later)

2: I don't see why a slightly larger (3 lines will fit, I don't think 4 will- quite) display is not an option for an evolved 41/42 concept. It seems to be being addressed as something that goes with other types of development, and there's no real need. (more on graphics and plotting later)

3: I have yet to meet a PDA with a keyboard that will work the way a pioneer does. While I find a lot of the PDA based science apps and RPN calculators to be great, it's still not a field/lab calculator. And can you imagine being permitted to use one on a test!? (more on tests and education later)

4: Project management is essential, but we should also remember that for people whose goals differ drastically, there can be different projects. Projects already exist to emulate HPs on PDAs, to build scientific workstations from PDAs, etc. there's nothign wrong with more than one answer.

5: The difference between designing a calc and designing an add on is extreme. Look at what marketers are purported to have done to the HP49G. Can you imagine what TI would do to the plans for a 42GZX or something?

Now, a bit of market, purpose, and other stuff I've been thinking on for a few days. (and thinking while using. field observation usage in a psych data collecting project, chemistry lab, statistics, and a

math course.)

a: The largest possible display on a roughly 42 form factor is none to big anyway, it's a good idea to try for the max.

Looking at the 42S and a 48 side by side, it's not going to be possible to get a display the size of the 48 without adding about 1cm to the length. # lines is probably max. (having all 4 levels of stack visible would be a fantastic selling point as people would be able to much more easily use, understand, and manipulate the stack.)

b: graphics and plotting may not be an issue for most of us- and some people seem opposed to the idea of anyone having plotting capability. I have to disagree. No plotting takes away a lot of market for what would be a small seller anyway. And no, or extremely limited graphics, would take away form appeal for various applications. both in the field, in school, and for the hacker. (dont' discount the hacker market segment, look at the people who were buying the 35!)

C: Speaking of limited sales- I must stress that I see no reason to "compete" with TI or HP or Casio. I keep feeling that this point is getting lost whenever someone mentions the impossibility of going up against TI.

We dont' need to conquer TI. A small business can be successful. There's a place for the 16,000 unix laptop in the field, and there's a place for a special programmable calculator in the world.

let me emphasize this one: A small business can be successful.

D: Part of the specialized segment to which we cold potentially sell is the "different" science/ engineering majors. There's always a few people who have a different approach, or a desire and ability to make use of "hackable" devices. (and yes, I admit most of them buy TI89s or 48GXs now, but I think a modern 41 would beat both out, especially with the accessories)

That's about enough spouting for the moment, hey?

Thanks for the time to read, Christof

Re: why calculators?

Message #2 Posted by [Speck](#) on 18 Sept 2002, 11:26 p.m.,
in response to message #1 by Christof (Davis, CA)

Two questions:

"...Look at what marketers are purported to have done to the HP49G. Can you imagine what TI would do to the plans for a 42GZX or something?"

I have never heard of anything about this (I'm fairly new to HP's and to these boards). Were they trying to build it up or drag it down? I'm curious, because I'm a 49G owner. Which leads to my second question:

"...(having all 4 levels of stack visible would be a fantastic selling point as people would be able to much more easily use, understand, and manipulate the stack.)"

I run with font 8 and the stack display at the smallest possible setting. With two lines of info header at the top, and a softkey menu at the bottom, I still have seven stack levels shown in between. Four stack levels seem to take up the space of about a standard two-line display. Since we're looking at a custom machine with a specific market, would this (a default small display) be something to consider, to cut a little bit of LCD real estate? Or is it better to stick to the current 48/49 sized display, since the tooling and display drivers are already well established?

I have to agree with your remarks about gutting old calcs. There seem like there are quite a few out there, but certainly not to the levels of old Atari carts or something like that.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

my new old toy

Message #1 Posted by [db\(martinez,california\)](#) on 17 Sept 2002, 11:46 p.m.

i just received a privileg sr 54 nc from someone who i mail calculators back and forth with. it is sort of a german hp 45; rpn and deadly accurate. in the calculator forensics thread a while ago it fits in about second. i am very impressed. here is how it fits in:

saturn chip: 1.35733

privileg: 3.85748

ti 58/59 series: 4.661314

hp 41 & 11: 417.403

hp 67: 4076.64

hp 35: 4076.9

ti 30: 177087.1

casio fx-101: 785883.0

i still prefer the 41 to any calc/comp ever made, but there is something to be said for that kind of accuracy - and in the 70's too.

Re: my new old toy

Message #2 Posted by [Tom \(UK\)](#) on 18 Sept 2002, 7:48 a.m.,
in response to message #1 by db(martinez,california)

How do the numbers relate to accuracy? Explanation or link please?

Re: my new old toy

*Message #3 Posted by [Julián Miranda \(Spain\)](#) on 18 Sept 2002, 2:36 p.m.,
in response to message #2 by Tom (UK)*

It was posted in another thread some days ago. I think it's from a Mike Sebastian web page titled "Calculator forensic". You put the calculator in degrees mode and calculate the sinus of 9, the cosinus of the result and the tangent of this last and then you undo the path, arctangent, arccosinus and arcsinus. In theory you should end with 9. In a HP41 you have 9.000417403, in pioneers and up 8.99999864267. Then you make the difference with 9 and multiply by one million.

Re: my new old toy

*Message #4 Posted by [Ellis Easley](#) on 19 Sept 2002, 4:03 p.m.,
in response to message #2 by Tom (UK)*

The comparison method was developed by Mike Sebastian and he calls it Calculator Forensics. You can read about it at his website:

<http://calcinfo.com/>

Mike prefers to compare calculators by the number that comes back from the asin operation. He has some suggestions on how to extract the non-displayed guard digits that involve multiplying by 1,000,000 or so. The idea of subtracting 9 and multiplying by 1,000,000 is my variation, which I started doing before I looked at Mike's website. I first saw the basic algorithm here.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP Calculator closeout and rebates

Message #1 Posted by [Chris Catotti \(Florida\)](#) on 17 Sept 2002, 9:44 p.m.

See:

http://www.shopping.hp.com/cgi-bin/hpdirect/shopping/scripts/generic_store/generic_subcategory_view.jsp?BV_SessionID=@@@@0241214985.1032312680@@@@&BV_EngineID=ccdhadcgffhmlkdcfngcfkmdfondfgg.0&category=closeouts&subcat1=calculators&cat_level=2

hp 30s scientific calculator

price: \$14.39

(after rebate)

hp 20s scientific calculator

price: \$26.99

(after rebate)

hp 10bii financial calculator

price: \$26.99

(after rebate)

serial interface kit for hp 49g and hp 48g

price: \$32.39

(after rebate)

hp 12c rpn financial calculator

price: \$62.99

(after rebate)

hp 39g graphing calculator

price: \$62.99

(after rebate)

hp 48gx graphing calculator

price: \$134.99

(after rebate)

hp 49g graphing calculator

price: \$161.99

(after rebate)

Would you help me?

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 17 Sept 2002, 11:54 p.m.,
in response to message #1 by Chris Catotti (Florida)

Hi;

I do not understand the nuts and bolts involved in this event. What does it mean after all? Is it good or bad?

Please, forgive-me if I'm asking a silly question... I'd just like to understand what's going on.

Thank you (and, please, don't let me see you're laughing...)

Re: Would you help me?

Message #3 Posted by [Ellis Easley](#) on 19 Sept 2002, 3:16 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

I think the 20S list price was about \$40 so the price after rebate is about 1/3 off. But I thought the 12C went for about \$65 or \$70, so that's not much of a discount. I got my 39G at Office Depot when they closed it out nearly a year ago for \$25 so \$60 doesn't sound too good to me! I think the list price had been about \$90.

Re: HP Calculator closeout and rebates

Message #4 Posted by [Randy Sloyer\(US\)](#) on 18 Sept 2002, 5:55 p.m.,
in response to message #1 by Chris Catotti (Florida)

Rebates on all current calculators in the Hp lineup = No more Hp calculators as we know them

Unless the "new" units that have been rumored appear soon.

I am not holding my breath waiting for a RPN unit from the "New HP". But, where there is life, there is hope.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Brand new 41CX's - last ones?

Message #1 Posted by [Luis](#) on 17 Sept 2002, 12:45 p.m.

I don't want to make this a connection to the Classified Ads but, [is it true?](#)

Re: Brand new 41CX's - last ones?

Message #2 Posted by [Laurence Carr](#) on 17 Sept 2002, 2:04 p.m.,
in response to message #1 by Luis

Hi

Is what true??

These are the last HP41CX units I have! There are probably more out there but I dont have them. (although I have been promised 4 more units by someone). I kept a few back as service replacement units in case any of the ones I sold failed.

Laurence Carr Classic Calculators

PS But I am trying to buy more!

Re: Brand new 41CX's - last ones?

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 17 Sept 2002, 2:06 p.m.,
in response to message #1 by Luis

Hi, Luis;

I traded some e-mails with him, and AFAIC, it's true. If I have the money, I'd dare buying as many units as I can.

Inté. (Seeyah!)

Re: Brand new 41CX's - last ones?

Message #4 Posted by [Emmanuel](#) on 17 Sept 2002, 3:45 p.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)

N.O.S. (New Old Stock) then!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

New Design

Message #1 Posted by [Chris Catotti \(Florida\)](#) on 17 Sept 2002, 12:23 p.m.

I read a lot of threads and I did not see this approach discussed. It seems there are many people here well-versed in hardware and/or software design. One of the TI cases/keyboards seems to be a possible start.

Why not approach TI with a plan, with a team of designers, and much like the famous PPC ROM Project, ask TI if they will build our software into a very similar platform that they already have. Minimizes acquisition costs, leverage off purchase of many existing materials, TI gets a lot of design time "free" by our hobbyist community.

I am willing to donate \$1,000 US Dollars to such an effort (I might have to sell a few "keepers" on ebay), but I am serious.

Re: New Design - Lack of Guidance

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 17 Sept 2002, 2:03 p.m.,
in response to message #1 by Chris Catotti (Florida)

We need a Project Leader/Mannager.

You are right, and efforts are fading away again.

If we are (at) ACO, one would be set as Project Leader (I remember Wickes was the Team Leader for the HP28C, right?) and guide/focus/restrain the others.

Linux was built this way. But Linus Torvalds has been the actual "virtual" leader.

I will not dare asking "Who's gonna be a volunteer?"...

Cheers.

Re: New Design - Lack of Focus

Message #3 Posted by [Glynn](#) on 17 Sept 2002, 9:31 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

Luiz;

Writing with a tooth-ache; so I don't know if my words will be as lucid as I'd like them. Just have to try to keep the horse in front of the cart.

Sure, you'll need a Project Co-Ordinator. But THAT is maybe Step Four in the Planning Stage; the group has to come together on certain other items FIRST...

This is not to criticize, not at all. But a leader will not take on a task which has no focus. If you take on a leader expecting him to supply that focus, the group's goals will be secondary to his vision-- which he will have already acted upon with or without you-- only expecting you to provide the legitimacy (and possibly capital) to back his next actions.

Right now, what we've got are a lot of nice dreams, and some very capable people, possibly with the will to act IF the goal matches theirs, and if the odds of success seem favorable (each individual has their own risk/rewards standard). That's not a bad place to start from-- but it points out what the next steps have to be:

a: explore the various options/dreams

b: based on that exploration, come to an agreement (consensus) on the goal(s) to be supported

c: evaluate what it will take to attain the goal(s)

d: organize people and resources to work on specific areas that will bring the goal(s) closer to fruition

And, Luiz, do not look at this as a two-dimensional array; the plurals in the list should indicate to you that there is reason in accepting that two or more goals may be aimed at-- for TOTAL unanimity is as likely as there being a single all-encompassing distro of Linux. Further, some goals may be immediately (or quickly) attained, while other goals no less worthy of attainment may be inherently have a longer "gestation"-- so hatching two or three projects is not as dangerous as some might at first imagine. The only danger is in not clearly defining and managing each with its own scope and direction.

Here is a partial (haven't done a comprehensive look, just what I remember most) list of

activities that have been suggested so far:

- * develop an IMPROVED, Updated 41-compatible calculator (from "scratch")
- * develop a "drop-in" calculator board for renovation of old calc bodies
- * re-engineer a PDA to act as an efficient RPN/calc device
- * re-engineer a TI or extant design calc to act as an RPN device
- * develop software to make PDA an efficient locally-programmable ("on the fly") data capture and calc device
- * develop new, RPN-style code on a software emulation of a suitable CPU, for porting to later hardware designs

And some of these could be grouped or split as needed, as your plans for Action continue to develop and grow.

Of course, you are at the stage, right now, where everyone has vague ideas of what they want, and even vaguer ideas of what everyone ELSE wants, and of what it would REALLY take to attain any one of these dreams. So gathering INFORMATION becomes the critical task of anyone interested in furthering the project...

Let me speak, Luiz, to both you, and all in this Forum on three points I have personally observed about collaborative projects and the nature of people in them.

To begin with, you will ALWAYS find a large percentage of "interested" parties who are, nonetheless, PASSIVE (usually 80% to 90% of a group); they follow YOUR efforts, even cheer you forward, but will wait patiently for YOU to come up with the goods. Ten to twenty percent of your "interested" group are active; it is they who actually carry on the tasks required. THEY tend to require little directing beyond occasional co-ordination. Do not fret that so few respond to a call for action. It is always this way, as those in leadership positions in community organizations and user-groups will attest. It is not a bad thing; but a leader must understand this in order not to be discouraged, and also to recognize that even small efforts by inexperienced hands are to be valued and rewarded, as every charging activist began first with a small, contributory act; and if nurtured, "newbies" can bring fresh life and talents into the pool of activities.

Next, note that, among your ten or twenty percent of active folk, if you make them do so-called "LEADERSHIP" activities, they are next to useless contributing elsewhere! Look at your own experiences as leader, or under a leader, and this becomes kind of obvious:

Somebody has to keep lists, make contacts, write letters, track changes/bugs, report, refine plans, and so on-- but don't give these jobs to people who shine in OTHER activities, because no matter HOW committed, people only have so much time/energy to spare. Find those who have leadership experience and talents FOR the leadership positions; don't choose the ones who understand the tasks best!!

Finally, everyone needs to have an understanding of the processes by which an idea may become reality, AND just where and when CRITICISM is really needed.

It's incredibly easy to shoot down an idea. Pointing out its high expense (usually before anyone has specified or elaborated his/her vision of it); questioning its legality or defensibility in court challenges (often when no one has suggested violating copyright or patent-- and tell me of ANY thing/one not subject to the POTENTIAL harassment of a legal challenge!!); "it's been done", "it hasn't been done", "it can't be done", "if it could be done, somebody woulda done it"-- all irrelevant to whether it was done RIGHT or SHOULD BE; and of course, "it will not sell enough to justify its cost"... which is a common way to eliminate consideration of an idea before a market is even determined or its marketable potential is explored.

You can't blame anyone for being negative; in our own lives, we have to make assessments of what is the proper, most efficient vector for our own efforts. This involves being acutely aware of the blocked roads. What is often unrecognized by the well-meaning of the negativists, is that a group effort, over time, is different... it is an off-road vehicle... and roadblocks, no doubt there, will either be identifiable as impassable OR a path around them will be found.

The strategy of developing an idea involves a shifting of perspectives UNTIL a pathway or two is found; it is THEN that an evaluation of the efficacy and dangers of each path become useful.

Wozniak was told by HP that a personal computer did not fit their marketing profile; Apple resulted. IBM, in the formative years of its Harvard collaborations, saw perhaps fifty computers being sold a year, MAX. Of course, if their conception of what a computer WAS was correct, that would have probably been true. GNU existed pre-Linux; they concentrated on free tools for Unix until Torvalds came up with a usable kernel that gave those tools new meaning in a context of free Operating Systems. I'm sure someone with a better memory of history will be able to add to the list of reasonable views that included road-blocks that, in retrospect, were NOT impassable. How this happens is easy to diagnose: people have a tendency to view the future of their circumstances as a mere extension of their present. So the shadows that loom from HERE will overtake us, even if we move over THERE.

Being negative also has another advantage: if your criticism results in inaction or

discouragement of an idea, you were right, after all. And no one had to study it. No one had to ask his brother-in-law for a favor. No one had to plot, plan, or draw a map. Indeed, nobody had to get off their haunches or rub two sticks together or engage their rustiest gears. And nobody looks foolish for obeying the call to "reality".

Everyone should feel free to criticize. But no one should out-of-hand reject an idea, based on such criticisms, UNTIL a better, clearer path can be identified, or potential workarounds explored. What is easiest does NOT automatically qualify as "BEST": the greater rewards often are attached to OVERCOMING difficulties, not skirting them.

And the clever sometimes innovate the way to do something formerly expensive, on the cheap. Or find a new company, eager to win acceptance for its designs. Or adapt an existing thing or process to fit a new need. And then the difficulty we once voiced as "reality" disappears; while a rare occurrence, encouraging and searching for the clever solution is just what idea development is about.

Well, anyway, Luiz; I understand that you do not want to see efforts fade away into obscurity. A leader won't help change that. You REALLY need, rather, to have the proponents of these ideas honestly STATE them, put them forward as full proposals.

Let the ideas lead, at least for the moment. Ask QUESTIONS. EXPLORE an idea FURTHER. If someone says "I want a 3-line display, and graphics", ask how the display is to be addressed, what graphic commands, character-based or what--- make an idea become more specific. Solidify what is being discussed by visiting display manufacturers on the net. Discuss power requirements and ambient-light rejection. Make a ghost of an idea put on clothes and rattle chains; by becoming real in people's minds it may capture their imaginations.

You need a small critical-mass of people to take on a project; they need to feel, first, that it is POSSIBLE.

Then, Luiz, you will ask for volunteers. But the response needn't be: "well, for what, exactly?"

An unfocused, unvisualized goal never rises out of the mist. Guidance without a starting vision is guidance with no essential mission.

But we could work together on defined goals, with a fair probability that, given long enough, we'd achieve them. So let's hear MORE than sketches, shorthand wisps followed by dispirited naysaying. Those who would teach, put it into words. Make your points REAL.

Then let's get to it. I'd really like to see something come out of this Forum that embodies

what we've all hoped HP would bring to rescue us. ;-)

As always, your posts are brilliant.

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 17 Sept 2002, 11:47 p.m.,
in response to message #3 by Glynn*

As always, your texts are brilliant.

Hello, Glynn;

nice reading from you, again.

As always, you show us again your crystal clear expression of your own mind. Your posts are not supposed to be just read, they must be tasted, slowly swallowed, taken line by line. I myself feel delighted reading them. Forgive-me, folks, I cannot let it pass in by without expressing my feelings.

I'll print your post and read it again and again, not only because I want to have it well understood, but mostly because it's a "brief" guide to the "first steps". And when I say "brief" I actually mean that there is a lot more expressed on it than the simple words. The more you read, the bigger it shows itself.

I'd only change a slightly bit the contents of one sentence, purely based on historic events. I remember watching a documentary where Ed Roberts mentions that they got success building the first PC because they didn't know it was impossible. So, I'd take this sentence:

"You need a small critical-mass of people to take on a project; they need to feel, first, that it is POSSIBLE."

and change it for:

"You need a small critical-mass of people to take on a project; **they must NEVER FEEL that it is IMPOSSIBLE.**"

I'll post something later. And you surely remember that this subject leaded us both to start an e-conversation about one year ago, and at that time, HP did not signalize so strongly that it would leave calculator market. I'd continue that e-trading, but I was so busy that I could almost not handle my own time. Now it seems that I'll have a good time sharing. So help me God!

Again, nice reading from you. (I cannot even dare imagining what would you write if you had no tooth-ache... Hope you have a successful teeth care)

Re: New Design

Message #5 Posted by [Dave](#) on 17 Sept 2002, 2:53 p.m.,
in response to message #1 by Chris Catotti (Florida)

Just a quick market survey.

Send me an email if you would purchase a new calculator with specs and design you would prefer:

Proposed design:

Solid click action keys HP-42S or 41 key programming 1-2 line built in LCD screen - digits/soft menus only IR or wireless Interface to either PC or PDA

Software allows graphical displays, larger stack on PDA or PC screen

Any CAS is built into PDA or PC software could supply soft menu selections via IR/wireless connection.

Would like to get an idea of the level of interest. Please don't spam with lots of emails from same source...

Thanks

Dave

Project management

Message #6 Posted by [Renato](#) on 17 Sept 2002, 3:55 p.m.,
in response to message #1 by Chris Catotti (Florida)

Chris wrote:"Why not approach TI with a plan..." Renato comments: because if we do that, we will lose any possibility of having minimal help from HP - even NOMAS would be out of reach.

Chris wrote: "I am willing to donate \$1,000 US Dollars..." Renato comments: we need a project manager. Maybe if enough people donate something, we can hire a person.

Even without payment, I decided to state here: I can think about managing this project (Luiz

and I talked on the phone about this). My points are: i-this is a not-for-profit endeavor, ii-this is a "open-source" project, meaning that schematics, design and software will be licensed on a GNU style, iii-this is dedicated to the brave, noble and skilled community of this forum only - I don't care about TI users or students, iv-this is not a democracy, I am not going to deal with flame wars or personal preferences or business interests.

Re: New Design

*Message #7 Posted by [David Smith](#) on 17 Sept 2002, 5:53 p.m.,
in response to message #1 by Chris Catotti (Florida)*

I'm virtually certain you will get no help from TI. They don't seem to answer their phone unless they see multi-megabucks on the other end of the line.

I'm curious - Why?

*Message #8 Posted by [Mike](#) on 17 Sept 2002, 6:10 p.m.,
in response to message #1 by Chris Catotti (Florida)*

Why design a new calculator? What is missing from those that exist already. It would just be "another" calculator that does "same things" as other calculators.

Plus, no mater what you put in it or how you design it, others will want something else.

It's an interesting project but I see no real practical use.

Re: I'm curious - Why?

*Message #9 Posted by [Nenad Vulic \(Croatia\)](#) on 18 Sept 2002, 2:59 a.m.,
in response to message #8 by Mike*

I agree with you, Mike. What would we really have in the end? A non-HP HP calculator?!

Re: I'm curious - Why?

*Message #10 Posted by [Christof \(Davis, CA\)](#) on 18 Sept 2002, 3:02 a.m.,
in response to message #8 by Mike*

I've got a ton to type about the rest, but to respond directly:

The *available* calculators do NOT do what I want. The exception to this is possibly the HP48GX. And even that has lost a lot of its field utility. It's really not terribly quick to code a mass change program for ChemLab on the fly (which I did tonight, in under 20 minutes, and punched in data for a rough dozen people, even allowing the fingers of 4 other people to touch my 42s- which could have cost me \$300 if someone had borked it!)

And even then- I don't have a real timer on the 42S, I don't have serial, I don't have the space and interface to code a data transfer to SAS,

I could go on. I'd like a bit bigger display (NOT the size of the 48, but another line and some decent graphics routines), I'd like enough memory to store the entire collection of HP41 ROMs or equivalent. Now I'm getting "silly"- until you realize that the computer I'm typing this on is about the same size as an HP48 and has a 256 meg CF card installed. (Jornada 720).

I- personally- feel that there was a break in the development. The evolution of HP calculators along the lines of the 42SX, GX, etc- well, that is what's missing.

What can't you do?

*Message #11 Posted by [Mike](#) on 18 Sept 2002, 10:22 a.m.,
in response to message #10 by Christof (Davis, CA)*

What is it that you want to do, that you can't do on a 48? In fact, you can program anything into a 48 that you need. And I'm not talking about simple 48 programs.

But, I doubt that you want a great HP-type calculator on a TI-type frame. The thing that makes HP great is not the calculator functions. It is the quality of the devices.

Re: What can't you do?

*Message #12 Posted by [Christof \(Davis, CA\)](#) on 18 Sept 2002, 1:07 p.m.,
in response to message #11 by Mike*

I never said that the 48 couldn't be programmed to do just about anything. I'm not sure how to explain the difference between a 48 and a 42 (especially an updated 42 that is faster, has more ram, and some form of i/o)

I guess you could start with gross physical differences. size. balance.

The whole model of programming is different. I tried to explain that in my last post. what I need is not week long development efforts, but code-on-the-road. Something I think is much easier with a 41 or 42 than a 48. There's also the issue of non-programmers using their calculator effectively. I can teach just about anyone to make use of certain elements of keystroke programming to get more out of their calculator. RPL isn't quite that accessible. (though I imagine that someone could build a language into the 48 that matched the 41/42 style without reducing the 48 to an emulator.)

And the 48 just isn't going anywhere. In addition to the fact that it will likely no longer be available in a few months. This doesn't change it's utility, only it's utility to more people.

There's somethign else I'm not expressing well. A couple things- movement in a continuum? Buildign new things, advancing, whatever- it's necessary. The 65 will do anything I could ever really need, but that's kind of like saying that the technology of the 16th century is all I need. Sure, I can live with it, but it doesn't expand my horizons.

And there's a certain quality of form/function/feel that doesn't exist in any current production calculator.

It's an interesting idea, though. To build a language and programming model into the 48 that is similar to the 41/42 without being an emulator. I think I'd really go for that.

the 48 just isn't going anywhere ???

Message #13 Posted by [Glen Kilpatrick](#) on 18 Sept 2002, 1:27 p.m.,
in response to message #12 by Christof (Davis, CA)

Well, OK, they aren't improving it any more. But I'm hard-pressed to see *how* the 48 could be improved, it's just about perfect as is :).

I haven't seen any posts where someone claims the 49 makes any advances, this in spite of the fact that it's more powerful, faster, has more RAM (slices, dices, _etc._ :).

OK, OK, HP probably *could* take a long look at the 49 from our POVs, go back to the 48, and improve it. But will they? When pigs fly, maybe.

Re: the 48 just isn't going anywhere ???

Message #14 Posted by [Christof \(Davis, CA\)](#) on 18 Sept 2002, 1:51 p.m.,
in response to message #13 by Glen Kilpatrick

>>> OK, OK, HP probably *could* take a long look at the 49 from our POVs, go back to the 48, and improve it. But will they? When pigs fly, maybe. <<<

Well, that's sort of the point. No one else is going to, why not us?

Besides, I think what I'm wanting to do is more like what the 48 would have been if it had been a "proper" descendent of the 41. (yep, I still want a 42gx)

HELP ON THE HP48S

Message #15 Posted by [DEBORAH CARTY](#) on 5 Oct 2002, 7:24 a.m.,
in response to message #14 by Christof (Davis, CA)

SOMETHING TELLS ME I AM WAY OUT OF MY LEAGUE HERE, JUST RETURNED TO SCHOOL TO FINISH NURSING AND FOR CHEM NEEDED SCI CALC, FRIEND GAVE ME ONE, IT'S SO COMPLICATED LOOKING ITS AWESOME, BUT SCARY AS HELL, I HAVE NO INSTRUCTIONS OF ANY KIND, SO IT WON'T BE ANY GOOD WITHOUT. IT SEEMS SO NICE AND OVER CAPABLE FOR ME, BUT WOULD LOVE TO LEARN HOW TO USE IT.

ANY HELP GUIDE OR MANUAL TO COPY? I AM HAVING

TROUBLE WITH E MAIL SO IF YOU SEND A REPLY TO ME RUNVS, AND IT DOESNT GO PLEASE TRY AGAIN. OR SEND TO THIS ONE, MY SONS GIRLFRIENDS. THANKS IF YOU CAN HELP OR NOT IN ADAVANCE.

P.S. EXACTLY WHAT DO YOU GENERALLY USE FOR, OR WHOEVER USES THIS TYPE? CAN THEY HELP WITH GAS LAWS, HAHAAH

Re: HELP ON THE HP48S

*Message #16 Posted by [J. Osugi \(European Union\)](#) on 5 Oct 2002, 5:52 p.m.,
in response to message #15 by DEBORAH CARTY*

- 1) First search for the caps-lock key and press it. :-)
- 2) Then go to www.hpcalc.org and use the search function to find the file hp48gug.zip.
It's th HP 48G Series User's Guide.
Beware that it's a a relatively big file.

The site has also several useful tutorials.

Re: HELP ON THE HP48S

*Message #17 Posted by [James M. Prange](#) on 5 Oct 2002, 8:14 p.m.,
in response to message #15 by DEBORAH CARTY*

You can find a scanned-in copy of the 48SX manuals on the Museum CDs. See <http://www.hpmuseum.org/cd/cddesc.htm>. The 48S is simply a "low-cost" version of the 48SX, without the ability to use plug-in expansion cards. Ignore any reference to the plug-in cards or ports 1 or 2 that you find in the manual. http://groups.google.com/advanced_group_search?group=comp.sys.hp48 is a useful place to search for answers to any questions you may have about the 48S.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

How many HP41 Modules are there?

Message #1 Posted by [Bill Hemphill](#) on 17 Sept 2002, 6:05 a.m.

I've been wondering just how many different plug in modules there are for the HP-41. I've seen some unusual ones showing up in some of the ads. The USPS one and the GMAC one are two I've seen lately. I can figure out that the GMAC is probably loan or lease calculations, but what in the world did the USPS use a module for - calculating postal rates?

Has anyone made a list of all the different types? It'd be nice to have a list of which person has which modules and especially if they have a manual. That way when we run across an odd module, we'd know who might have a manual that we could possibly get a copy of. It'd be great if the manuals could be scanned and PDF so others could enjoy them.

I'm more of an user than a collector. Is it possible that some of the more odd modules could be dumped to rom image files so that we could play with them on the PC emulators? I'd love to see what these modules actually do.

Bill Hemphill

Re: How many HP41 Modules are there?

Message #2 Posted by [Ty Rogers](#) on 17 Sept 2002, 8:10 a.m.,
in response to message #1 by Bill Hemphill

Advantage module, Auto Start/Duplication ROM, Aviation, CCD Module, Circuit Analysis, Clinical Lab/Nuclear Med., DEL. SERV. 1, DevIL ROM, EDUCALC MODULE SERVICE, Extended Functions, Extended Memory, Extended I/O, Financial Decisions, Forecaster2, Games, GMAC auto finance module, HEPAX Module, Home Management, HP-IL Development module, Infrared Module, Machine Design, Mathematics, Math/Stat, Medical Securities, Memory module, MONITOR 1A, Navigation, Nuclear Weapons Air Burst Effects module, PANAME ROM, Petroleum Fluids, Plotter Module, PPC ROM, Quad Memory Module, racehorse handicapping module, Real Estate, rs232 interface / il pod, Securities, Standard Apps, Statistics, Stress Analysis, Structural Analysis, Sup-R-Rom surveying module, Surveying, surveyors co op, Thermal & Transport Sci., Time Module, ZenROM, 3421 Control

Module

I think there are more than this.

Re: How many HP41 Modules are there?

*Message #3 Posted by [Chris Catotti \(Florida\)](#) on 17 Sept 2002, 10:11 a.m.,
in response to message #2 by Ty Rogers*

Where I have listed a pair of names, the second name is what shows up in CATalog 2. The last two modules I can not find around here, at the moment. Some I have that may not be on the list:

THOMSROM 1

HANDY COMPACT
(does not catalog)

SUP-R-ROM

FORECAST 1
*FORECASTER

RACETRACK

SPEED MACHINE II
SM II

SUN SHOOTER 41TH Co-op Module
CO-OP ROM

AECROM

INSULIN DOSAGE COMPUTER

Re: How many HP41 Modules are there?

Message #4 Posted by [Bill Hemphill](#) on 17 Sept 2002, 1:19 p.m.,
in response to message #3 by Chris Catotti (Florida)

Thanks Ty & Chris.

I've started an Excel Spreadsheet of the various modules. If you don't mind, could you e-mail me whatever you have on each module for inclusion in the list:

Module name Part Number Manufacturer Cat 2 Name Manual Avail? Short Description of what module does

I'm also going through the Educalc Catalog #29 and including any module I find there.

Thanks for your Help. Bill Hemphill

Re: How many HP41 Modules are there?

Message #5 Posted by [Matthias](#) on 17 Sept 2002, 3:44 p.m.,
in response to message #4 by Bill Hemphill

I also started to create a list of all known modules.. You can download them on my homepage:

<http://www.hp-collection.org/> (also in english)

Please feel free to send me a mail with additions or corrections..

Re: How many HP41 Modules are there?

Message #6 Posted by [Peter](#) on 17 Sept 2002, 4:44 p.m.,
in response to message #3 by Chris Catotti (Florida)

Some more:

SKWIDBC Skwid Ink SKWIDBC Bar Code Generation Module (And there is a "plus" Version of this, any of these around?)

HP 82500A-S01 ASTRO*ROM, E&K SURV INC, ID31 USA

HP 82508A-S07 ASTRO*ROM2, EKS SURV INC, ID 31 SINGAPORE

HP 82500B-E32 TOPO-SURVEY, DEMOPOULOS, ID 21/31 USA

HP 82500B-E33 T.M-GEODETIC, DEMOPOULOS, ID 9/10 USA

HP 82500B-E76 SCHENK MODUL, DELIUSKLASING, ID 21/31

All custom modules made by HP have a number of 82500x-xxx, so it would be nice if all of You could give this number always to the module name, this makes identification much easier. The Skwid Ink Barcode Module is a "burned" module, so it has no HP part number.

Re: How many HP41 Modules are there?

*Message #7 Posted by [tom](#) on 17 Sept 2002, 1:24 p.m.,
in response to message #2 by Ty Rogers*

GMAC has ver I, II, III. Also: AstroROM, OB/GYN

XRROM # too????

*Message #8 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 17 Sept 2002, 6:48 p.m.,
in response to message #1 by Bill Hemphill*

Hi;

I have a few HP41 devices and modules, and sometimes I load a program that generates a NONEXISTENT message; usually, a XRROM mm,ff (mm - module #, ff - function #) appears and I have to remember what the h... module/device was that I used to write the program.

An upgradable list with module name, available functions and XRROM mm,ff would be a good source of information. Mostly if we want to write a program and generate a barcode for it, and the program listings contain XRROM functions and we do not have the module connected to the calculator so we cannot check for the number. That almost the opposite of loading a program with functions available in modules that are not connected.

Ty Rogers posted a list (except for the last one, it's in alphabetical order) with a lot of module names, and I'd like to know also which functions they have and what are their XRROM #. I have the X-Functions/Memory, Navigation, Financial, HPIL and X-IO, plus Reader, Printer and Wand. For these I have the list and I can post them here. But I think that having a common place for this list would help much.

Is there any location in the Internet that has them? If not, Dave, what about having a place for

this permanent/growing list at the museum? Just an idea.

Best regards.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 48S and HP 48G

Message #1 Posted by [MikeN](#) on 16 Sept 2002, 6:56 p.m.

I recently wrote a program for calculating NEC voltage drop using my HP 49G and two simple programs.

The first is a picklist using the choose command;

```
%%HP: T(1)A(D)F(.); « "Impedance" { {"14" (3.1,0.073)} {"12" (2,0.068)} {"10" (1.2,0.063)} {"8" (0.78,0.065)} {"6" (0.49,0.064)} {"4" (0.31,0.06)} {"3" (0.25,0.059)} {"2" (0.2,0.057)} {"1" (0.16,0.057)} {"1/0" (0.12,0.055)} {"2/0" (0.1,0.054)} {"3/0" (0.079,0.052)} {"4/0" (0.063,0.051)} {"250" (0.054,0.052)} {"300" (0.045,0.051)} {"350" (0.039,0.05)} {"400" (0.035,0.049)} {"500" (0.029,0.048)} {"600" (0.025,0.048)} {"750" (0.021,0.048)} {"1000" (0.018,0.046)} } 1 IF CHOOSE THEN END »
```

@This enters the cable impedance data for the cable in question onto the stack.

The second program is executed as soon as the stack is populated by the above. I wrote input screens to make the process less intimidating for RPN-o-Phobes:

```
%%HP: T(1)A(D)F(.); « "Enter Length:" "" INPUT OBJ• "Enter Amps:" "" INPUT OBJ• "Enter pf:" "" INPUT OBJ• DUP ACOS NEG SIN R•C * * 1000 / * DUP ABS SWAP ARG COS * »
```

I was so pleased with the result, I tried to load the application on my aged 48SX. The problem is that the 48SX does not recognize the "CHOOSE" command.

The second program works fine, but I need to enter the impedance data to the stack manually.

Any suggestions?

Re: HP 48S and HP 48G

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 17 Sept 2002, 12:27 a.m.,
in response to message #1 by MikeN

Hello, Mike;

I hope I'm not mentioning something you already know about, but the CHOOSE command in an implementation (graphic view) not available in the 48S/SX, only in the 48G/G+/GX and 49G (I do not know if CHOOSE also exists in any or both HP39G/40G).

You should write another program to simulate something that would remind the CHOOSE box; maybe there is something about it at www.hpcalc.org, I don't know. If you do not need the CHOOSE box form, you can try the KEY command (HP48 Programmer's Reference Manual, p. 187, or Owner's Manual V. II, p.539/540) and show a brief menu, with impedance values associated with numbers. These numbers could be simply keyed in and the program would run on.

I guess it can be done. If you think I can help anylonger, e-mail me and let's trade information.

Success.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

New HP calc, an idea?

Message #1 Posted by [Tom \(UK\)](#) on 16 Sept 2002, 5:15 p.m.

All,

I think the market for old style HP's may have passed the point when multi national companies are interested but almost by accident LEGO(tm) came up with the mind-storm(tm?). A bunch of techies designed a challenge for them and LEGO supported the effort and sold lots more to make simple robots etc.

As I work sometimes in a lab the requirement to have a simple, stand alone, real time programmable unit that could also do sums and store info would be great. A PC is no good because it has this thing called an operating system that is anything but real time.

So for serious work and higher education why not have a 'grown up' lego mind-storm?

One for the lab or desk top, more buttons (but not qwerty), bigger display, built in scientific calculator, lots of memory, IRed, serial and 8 bit I/O etc. (may not get RPN, but FORTH would be fine, and was designed for 'miniture' operating systems)

Advantage of several markets:

Industrial control / logging, educational, engineering

Make it PC down load or 'key stroke' programmable.

Hey - if HP are not going to do it why not lobby the older toy / educational / calculator market?

PS I know this is a re-badged '41 with all the goodies but if we all keep that to ourselves and sell the IDEA and the potential MARKET and not the history perhaps we will get what we want by the back door?

Comments? - and send royalties to me please...

Re: New HP calc, an idea?

Message #2 Posted by [Speck](#) on 16 Sept 2002, 6:46 p.m.,
in response to message #1 by Tom (UK)

Just so long as it isn't a battery hog. That's why I like the current handhelds over some of the PDA ideas--the handhelds (48, 49, TI graphics) just have much better battery life. Anything done to sacrifice that would likely hurt the machine.

Re: New HP calc, an idea?

Message #3 Posted by [Jack Stafford](#) on 17 Sept 2002, 1:40 a.m.,
in response to message #2 by Speck

Might this be a starting point?

<http://www.oqo.com/>

Starting point AND ending point!

Message #4 Posted by [Speck](#) on 17 Sept 2002, 7:35 p.m.,
in response to message #3 by Jack Stafford

Yeah, that's a pretty good idea there. I like the one offered up by the Stanford wearables researchers at www.tiqit.com too. That's a nifty idea, but they'd really need that port replicator slot, because that would be pretty tedious for typing on (although I got pretty good at thumb typing on my TI-92!)

Re: New HP calc, an idea?

Message #5 Posted by [Vassilis Prevelakis](#) on 16 Sept 2002, 10:00 p.m.,
in response to message #1 by Tom (UK)

What you are proposing is an HP-41 with different PCB. This is (relatively) easy to achieve - all you need is a low power microprocessor and glue logic.

For the work bench, an HP-97 with new inards will be even better as you get the built in printer, outstanding display and huge keyboard.

**vp

Re: New HP calc, an idea?

Message #6 Posted by [Christof \(Davis, CA\)](#) on 17 Sept 2002, 12:03 a.m.,
in response to message #5 by Vassilis Prevelakis

I think that's not so far from what I'm aiming at-

I've wanted the natural evolution of the 41 (not the 48), and I've thought that some larger sized machine with bigger stuff (multiple cf ports? printer?, large display?) would be cool.

I'm still tied to having one fully functional version in my pocket. I don't want to have to go through the horrors of windows ce- having to connect to a pc to install software when I have a wireless card and LAN connection on the PDA!

The idea of grabbing interest in the lab/toy/instrument market is interesting, though.

I can see a whole *slew* of inexpensive lab equipment- *especially* if the interface and data transfer standards are "open".

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP71B Modules

Message #1 Posted by [Laurence Carr](#) on 16 Sept 2002, 2:32 p.m.

Hi

I recently acquired a 71B with 2 modules labeled "M109A/M198 1 of 2" and "M109A/M198 2 of 2" . They also have a label saying "HTI-SD-0113.00 Made in England". Does anyone know what these are?

Laurence Carr

Re: HP71B Modules

Message #2 Posted by [Chris Catotti \(Florida\)](#) on 16 Sept 2002, 3:46 p.m.,
in response to message #1 by Laurence Carr

I believe they were used for the M109 FAMILY OF HOWITZERS to help calculate artillery fire. The M109A4 and M109A4+ are fully tracked, armoured vehicles used to provide close artillery support. The vehicles are air-transportable and carry a total of 36 rounds. The 155mm cannon is designated the (M185). The assembly comprises a breech ring, bore evacuator, muzzle brake and a tube cannon. The breech mechanism is a semi-automatic, screw block type, designated for separate loading ammunition. Breech opening and closing is accomplished by utilizing the energy of counter recoil and closing, by laminated torsion springs. Firing is accomplished by the mechanism (M35) which uses cartridge type primers, fired by a continuous pull percussion mechanism. The mount consists of a cradle assemble that mounts the hydraulic variable recoil mechanism, S.A. cam, recuperator, counter recoil buffer, upper and lower rotors, limit stops and dust shields. Pad and brackets are available for mounting the fire control instruments.

<http://www.eme421.com/m109.html>

Artillery Targeting

*Message #3 Posted by [Mike](#) on 17 Sept 2002, 5:00 p.m.,
in response to message #1 by Laurence Carr*

These are artillery targeting modules. If you do a catalog, you will see things like "target" and others that have to do with coordinates, etc.

I asked a military discussion forum once if they ever used the HP-71B and got an affirmative. The dates that the person said he used them matched the era of these machines.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-65 low keys

Message #1 Posted by [Luis](#) on 16 Sept 2002, 12:30 p.m.

Hi all, I have a HP-65 wich is in very good condition except the keys. Mainly at the center of the keyboard, around the "8" key, those keys are very low, I would say almost at the half height. They don't make good contact also. I've open the calculator already and cleaned the keyboard PCB using a wet contact cleaner spray and blowing it with an air spray too, which improved the electrical contact but the keys are still down. How could I solve this problem (if there is a solution...)? Thanks in advance for any suggestion! Luis

Re: HP-65 low keys

Message #2 Posted by [Erik Wahlin \(USA\)](#) on 16 Sept 2002, 3:42 p.m.,
in response to message #1 by Luis

Hi Luis, It sounds like it could be one of the following problems: 1. Keypad pcb is warped. 2. The plastic insert that goes directly over the keys is not properly seated. 3. One or more screws that retain the black plastic piece that inserts over the keyboard pcb are stripped out. My guess is that it is #2.

Re: HP-65 low keys

Message #3 Posted by [David Smith](#) on 16 Sept 2002, 4:26 p.m.,
in response to message #2 by Erik Wahlin (USA)

I have seen quite a few HP65's with the same problem. Don't know the cause though. I don't think it is any of Erik's 1/2/3 suggestions. I have not worked on any that had the problem, but suggested the same things to others that have... they didn't help.

Re: HP-65 low keys

Message #4 Posted by [Erik Wahlin](#) on 17 Sept 2002, 6:27 p.m.,
in response to message #3 by David Smith

Another common problem I forgot to mention is that the spring part of the key pad may have broken. You can usually fix these by soldering in a replacement from another parts machine.

Re: HP-65 low keys

Message #5 Posted by [David Smith](#) on 18 Sept 2002, 12:59 a.m.,
in response to message #4 by Erik Wahlin

Again, a no go from past experience. The machines that I was familiar with had reasonable clickage.

Re: HP-65 low keys

Message #6 Posted by [Luis](#) on 18 Sept 2002, 2:17 p.m.,
in response to message #4 by Erik Wahlin

Yes, I guess that's the failure. I think the spring plate for many keys (maybe the most used ones) are weak and they aren't strong enough to rise them back. Any idea to make it strong again? What about decrease the clearance between the spring plate and the keys installing some kind of spacer behind the keyboard PCB?

Re: HP-65 low keys

Message #7 Posted by [Erik](#) on 18 Sept 2002, 11:11 p.m.,
in response to message #6 by Luis

Luis Is the spring plate broken? If so, it needs to be replaced.

Re: HP-65 low keys

Message #8 Posted by [Luis](#) on 19 Sept 2002, 7:49 a.m.,
in response to message #7 by Erik

Hi Erik. No, it's not. I still guess the problem is because the spring plate keypad are weak due to its usage. Luis

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-41 Math Pac Part Numbers and such

Message #1 Posted by [Chris Catotti \(Florida\)](#) on 16 Sept 2002, 10:24 a.m.

A friend noticed my Math Pacs had different HP Part Numbers. I Have all four versions. I assume there are minor software differences, but I have not taken the time to verify. The first line is how they CATalog 2 on an HP-41. The second line is the white-ink HP Part Number on the module. The last line is the date code stamped into the module case.

MATH 1A
HP 00041-15003
Date Code 1953

MATH 1B
HP 00041-14023
Date Code 2134

MATH 1C
HP 5061-5261
Date Code 8535

-MATH 1D
HP 5061-7287
Date Code 8939

Interesting notes:

MATH 1B does not show up in a CAT 2 on a 41CX Machine, the other three do. Why?

-MATH 1D is part of the MATH/STAT Module and also has -STAT 1B included in the module.

The date code on the MATH 1A, 1953, would mean 1979 Week 53. Dec 31 1979 was a Monday. Was it made on that Monday only?

HP-41 Math Pac Part Numbers and such

Message #2 Posted by [Emmanuel](#) on 16 Sept 2002, 12:51 p.m.,
in response to message #1 by Chris Catotti (Florida)

My MATH modules:

MATH 1A HP 00041-14002 Date Code 2038

MATH 1B HP 00041-14023 Date Code 2202

MATH 1C HP 5061-5261 Date Code 8416

-MATH 1D HP 5061-7287 Date Code 8939

MCode listing of each ROM has different version and may be the function "Math 1B" isn't addressed in the FAT. Could be an explanation for the the fact that "Math 1b" doesn't show up on a 41CX. To be continued...

Re: HP-41 Math Pac Part Numbers and such

Message #3 Posted by [Nabuchodonosor](#) on 17 Sept 2002, 3:54 a.m.,
in response to message #2 by Emmanuel

I remember that my HP math module had a bug in the code and an addendum on a card said to copy the program in ram and to change a line of code I remember that it was a line with a flag test to change with the flag test and reset flag command FC? with FC?C or FS? with FS?C

My math module is :

MATH 1A HP 00041-14002 Made in Singapore Date code 2057

New versions may have fixed this minor bug !!!!!

Nabuchodonosor, King of Babylone..... and HP user.

Re: HP-41 Math Pac Part Numbers and such

Message #4 Posted by [Nabuchodonosor](#) on 18 Sept 2002, 10:44 a.m.,
in response to message #3 by Nabuchodonosor

Hello all,

Well, I found this famous addendum (I notice that nobody is interested by this).

This one explains that you have to change the line #160 of the FOUR program (program for the Fourier's serials) from :

160 FS? 02

to :

160 FS?C 02

May it be possible for all people having such a module to verify the content of the 160th line of the FOUR program on their MATH module ?

Of course, if you have not something more important to do.

By the way, is this addendum a vintage for collectors ?

Nabuchodonosor, King of Babylone..... and proudly HP user.

Re: HP-41 Math Pac Part Numbers and such

Message #5 Posted by [Bruno Cavallini](#) on 19 Sept 2002, 6:41 a.m.,
in response to message #4 by Nabuchodonosor

Hello,

I am not a user of the FOUR program, but ... I have a MATH/STAT (ref. 5061-7287, year 1985, date code 8728) for which the line 160 of the program FOUR reads RCL00 ! In fact the context is the following :

.. 157 * 158 PI 159 * 160 RCL 00 161 * 162 RCL 25 163 / 164 1 165 FS?C 02
(finally !?) 166 XEQ 08 167 P-R 168 RCL IND 21 ..

It seems the program has been altered more than once by HP people !

Bruno

Re: HP-41 Math Pac Part Numbers and such

*Message #6 Posted by [Nabuchodonosor](#) on 19 Sept 2002, 10:53 a.m.,
in response to message #5 by Bruno Cavallini*

Next step is to dump all the programs of this @\$£) module.

It's a good job for Nabuchon..... .. .

Signed :

Nabuchodonosor, King of Babylone..... and proudly HP user.

Re: HP-41 Math Pac Part Numbers and such

*Message #7 Posted by [Johnny](#) on 18 Sept 2002, 8:34 a.m.,
in response to message #1 by Chris Catotti (Florida)*

Unless I remember wrong, the CX only shows entries that are 7 letters or more in CAT 2. The assumption is that these "functions" are the module name, since you cannot execute them.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Need help reading HP9845 cartridge

Message #1 Posted by [Stefan Kloc](#) on 16 Sept 2002, 10:06 a.m.

I have Magnetic Tape Data cartridges (9162-0061) from a HP9845 machine and need to read the data off of them. Is there anyone or a business who has a machine that can do this?

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

What are the differences between HP-75C and HP-75D?

Message #1 Posted by [David Tan \(Singapore\)](#) on 16 Sept 2002, 8:16 a.m.

Apart from the optical wand supplied with HP-75D, are there any other differences between these two computers?

What are the differences between HP-75C and HP-75D?

Message #2 Posted by [Emmanuel](#) on 16 Sept 2002, 12:53 p.m.,
in response to message #1 by David Tan (Singapore)

HP-75C and HP-75D seem to have the same ROM (!?) and the same RAM. You can plug a wand in on the D version. Please see that access near HP-IL and Power.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Fry's, Sacramento.

Message #1 Posted by [Christof \(Davis, CA\)](#) on 16 Sept 2002, 1:24 a.m.

Fry's in sacramento has 2 HP20S old red box edition, a couple HP17bII old green box (check the boxes for all parts, and they will need new batteris, but they are \$70), and several old green box HP-19BII calculators.

No 32SII, and all the old production 12C machines are gone (which is really not good, as that's what I went there looking for).

Might be the last chance to find the old style- they've got piles of the newer production run stuff in, though.

(the 17bii I got is serno ID926xxxxx, but seems to have the proper key feel)

Re: Fry's, Sacramento.

Message #2 Posted by [Glen Kilpatrick](#) on 16 Sept 2002, 2:08 p.m.,
in response to message #1 by Christof (Davis, CA)

Pardon my ignorance (and if there were an FAQ for 12C's, this would be near the top), and I'm sure this has been covered before....

How does one recognize the new _vs._ the old 12C's please? It seems reasonable that the keytops will be (new) painted on _vs._ (old) double injection molded, but are there any other differences, cosmetic, substantive, whatever? I'd thought that all of the controversy over displays had to do with the 48 & 49 series, and that Voyagers had always had the same style & quality.

TIA, gang.

Re: Fry's, Sacramento.

*Message #3 Posted by [Scuba Diver](#) on 16 Sept 2002, 9:59 p.m.,
in response to message #2 by Glen Kilpatrick*

Well, from what I can tell, the newer ones use 1 3V battery as opposed to 3 1.5V button cells. The newer ones are made in China and most people agree that they lack the "feel" of the older 12Cs.

I've seen a few "New In Box" 12Cs lately; does anyone know, which is older, the box with lots of green, or the one that's gray with yellow and blue sections?

BTW, how long have new HPs come in that molded plastic stuff? It's SO bad!

I guess we'll have to change NIB to be NINMP (New in Nasty Molded Plastic).

B.

Re: Fry's, Sacramento.

*Message #4 Posted by [Christof \(Davis, CA\)](#) on 16 Sept 2002, 11:58 p.m.,
in response to message #3 by Scuba Diver*

The plastic blisters are almost guaranteed to be new models- it is easy to tell by the battery compartment or battery in blister pack, of course.

for actual cardboard boxes- I'm only familiar with the green one, if you find another color scheme box, it's likely to be even older and quite the steal. (you may even get a discount by opening the box and proving that the batteries are dead!)

If anyone happens across one of the LR44 series 12C's holler :)

Re: Fry's, Sacramento.

Message #5 Posted by [Scuba Diver](#) on 17 Sept 2002, 12:15 p.m.,
in response to message #4 by Christof (Davis, CA)

Well, I'm nowhere near Sacramento (the closest I ever came to visiting was watching Eight is Enough...it took place there, didn't it?)

Anyways, I'm off topic once again.

Here are a few interesting eBay auctions that you may want to take a look at:

Blister packed 12C with 3 1.5V cells (I assumed all blister packed 12Cs were the new ones...you know what they say about assuming! <http://cgi.ebay.ca/ws/eBayISAPI.dll?ViewItem&item=2054313036>

A NIB 12C in the Green Box: <http://cgi.ebay.ca/ws/eBayISAPI.dll?ViewItem&item=1381534165&rd=1>

A NIB 12C in the box with "yellow and blue" (Is this indeed older than the green ones???) <http://cgi.ebay.ca/ws/eBayISAPI.dll?ViewItem&item=1380361606&rd=1>

I think that the "yellow and blue" box is older; my green box 19BII came with a manual printed in '94 with the exact same yellow/blue colour scheme (I purchased the 19BII last month at an electronics store here in Toronto...I got them to throw 3 new N cells in and drop the price; you don't find deals like that very often!)

B.

Re: Fry's, Sacramento.

Message #6 Posted by [Christof \(Davis, CA\)](#) on 18 Sept 2002, 2:43 a.m.,
in response to message #5 by Scuba Diver

I think it is older, the color scheme on my 320LX box is similar, as with the 48sx. I wonder if I will be able to find an affordable (HAH!) 32Sii, 42S (HAHAHAH), or perhaps 20S from that era.

I confess that in my collecting and using, I just don't much go for non programmables. The 17bii is *barely* usable since you can put solver EQs in, but I honestly think I'd prefer to carry a 20S if I had to pick between the two.

But that's off topic- thanks for the links, and I'm goign to keep looking at all the

stores.

Re: Fry's, Sacramento.

*Message #7 Posted by [Scoba Diver](#) on 18 Sept 2002, 8:40 a.m.,
in response to message #6 by Christof (Davis, CA)*

Christof, I agree with you whole-heartedly!

The 17BII IS barely programmable; that's what made it appealing to the Canadian Association of Financial Planners; it was the only HP calculator that they would let you use during the exams.

It was either that or a Sharp EL733A....yuck!

It's now gathering dust; I'm going to keep it as a backup when I go back to grad school; if the batteries die in my calc, I'll have that one to rely upon...

CostCo, ~Mack Road, Sacramento.

*Message #8 Posted by [Glen Kilpatrick](#) on 18 Sept 2002, 10:36 a.m.,
in response to message #7 by Scoba Diver*

Thank y'all for the update / description of newer 12C's _vs._ older. Other than box cosmetics (and the double-injection-molded keys), what I learned is that the new ones run on 1.3_v. batteries, and are (of course) made in China. I'll have to check, see what my recent purchase uses (I'm sure it's from China though).

On another note, Christof's Fry's survey reminded me that I'd seen a half a dozen TI-89's at Costco in southern Sacramento for ~\$140. <http://education.ti.com/us/product/tech/89/features/comparison.html> suggests this is a ~\$20 savings (and may suggest you'd want the Voyager 200 instead, if you're going this route).

My SWAG guesstimate, based upon helping a friend with his TI a couple years ago, and more recent memories of a little 49G fun, is that the top-end TI's are probably fairly similar to algebraic 49G's, *but*, the latter also has RPN, and it probably integrates disparate functionality better (I have a horror memory of entering the same data twice in order to do stats, and graphing, on the TI, but that was probably my unfamiliarity).

Re:Frys Sacramento

*Message #9 Posted by [chuck](#) on 22 Sept 2002, 9:51 p.m.,
in response to message #8 by Glen Kilpatrick*

I just made a 6hour roundtrip trek to burbank on a tip that a lone 32sII display was waiting...it sure was, without manual and sleeve..oh well...it is the old style too! The best part is that the manager sold it to me for.....\$29.00!!! ha ha haaaa...They had a bin with discards, as he put it..i found an old style 20s missing batterycover, and he offered to HEAVILY discount that too. Well, no 42s or anything like that, but the green box Business HPs were there, along with the new 48gx models.

Re:Frys Sacramento

*Message #10 Posted by [Ed](#) on 23 Sept 2002, 8:19 p.m.,
in response to message #9 by chuck*

Congratulations on your find! I haven't been able to get any good deals on any scientific HP's lately but I got an HP-12C and an HP-17BII for \$29 and \$50 Canadian respectively within the last few weeks (no manuals or case). (I'm still kicking myself for not picking up a HP-32SII complete in cardboard box + manuals about 2 years ago for \$39.95 Cdn. . .)

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Navigation on e-Bay waters...

Message #1 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 16 Sept 2002, 1:22 a.m.

Hi;

It's 2:20 AM, Monday morning in Brazil (Brasilia timestamp). See you later, folks.

Would anybody post a few tips on how to navigate on e-Bay to find such events, as an Hepax module being sold for the frugal 565 bux? I sometimes want to check for some prices, but I do not even know how to get in the page. How many e-Bay's are in the World?

Thanks.

Re: Navigation on e-Bay waters...

Message #2 Posted by [Ellis Easley](#) on 16 Sept 2002, 2:03 a.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

I don't know if this will work for you in Brazil, but I just go to www.ebay.com. You don't have to register unless you want to bid, although sometimes I have seen bidders listed in an auction marked "not registered". These might have been completed auctions where the bidder was no longer registered. Sometimes when following a link in a message here in the Forum, I have ended up at Ebay UK, Deutschland or Australia. The www.ebay.com home page lists 20 different country sites, including Brazil! (<http://www.mercadolivre.com.br/org-img/html/MLB/he.ml>) Once you get to Ebay, the Search button (in the webpage, not the web browser search button) will give you many choices. By default it will search for items in current auctions (not yet ended). I have found it is most useful to search for the model number, omitting the "HP" because sometimes people spell out "Hewlett Packard". Especially when the model number has a letter suffix (like "71B") this narrows things down quite a bit. You can also search "Completed Auctions", this will find items auctioned in the past two weeks or so, whether they sold or not. Ebay must have several warehouses full of sales information, but I suppose they are doing a big job to make a couple weeks worth available - they used to display on their home page, how many auctions are completed each day, it was in the millions! Also you can search by seller, among other ways. Sellers and bidders choose user ID's to use in Ebay when they

register. Ebay has online help pages and a discussion group to help with usage and to solve problems. As has been discussed here, it is very difficult to contact Ebay directly. I hope this is enough to get you started!

Re: Navigation on e-Bay waters...

*Message #3 Posted by [Ellis Easley](#) on 16 Sept 2002, 4:34 a.m.,
in response to message #2 by Ellis Easley*

One other thing: Ebay (at least the US site) shuts down for maintenance for a few hours, once a week. As it is not shut down now (Sunday night) I think it must be Friday night.

Re: Navigation on e-Bay waters...

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 16 Sept 2002, 10:16 a.m.,
in response to message #3 by Ellis Easley*

Hi, Ellis;

thank you for the guidance.

Best regards.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

ROM Swapping

Message #1 Posted by [Speck](#) on 16 Sept 2002, 12:58 a.m.

I read on hpcalc.org that there is a ROM from I think an 39G that can be loaded onto a 49G. I just saw on the hpcc.org website that the HP's share the same processor (I've known about the Saturn for a little while) and some OS components. My question(s): did somebody have to tweak the 39G ROM to get it to go onto the 49G, or does it work automatically? And if it just works, has anybody ever tried going the other direction (49G ROM to 39G/40G)? I know nothing about the extra internals or the memory space available on any of them except for my 49G. I do not have access to a 39G or a 40G, nor will I try this anytime soon. It's just curiosity on my part, wondering if HP made their lives easier by making only one calc (hardware platform) and letting just the loaded software differentiate between the "flavors."

Re: ROM Swapping

Message #2 Posted by [Ellis Easley](#) on 16 Sept 2002, 1:38 a.m.,
in response to message #1 by Speck

I also read about that, and downloaded the files, from the website of one of the HP38G-39G-40G-49G developers, Jean-Yves Avenard (http://www.epita.fr/~avenar_j/hp/39.html). I haven't tried it yet. I have noticed that both the 39G and 49G, when reset, display a copyright message for the MetaKernel, which started as an HP48G enhancement developed by Jean-Yves and others before they went to work for HP. There is some information about it on another of his pages (http://www.epita.fr/~avenar_j/hp/48.html). You can see Jean-Yves' picture on a 49G by pressing [ON] and [F4] together and then pressing [VAR(J)]. After that, pressing [ON] will reset the calculator.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Wow. \$565 on ebay

Message #1 Posted by [gene](#) on 15 Sept 2002, 10:41 p.m.

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1379891051>

I'd love to have one of these, but not at that price. That's more that some red dot HP-35s and HP-70s have gone for!

Re: Wow. \$565 on ebay

Message #2 Posted by [Christof \(Davis, CA\)](#) on 16 Sept 2002, 12:50 a.m.,
in response to message #1 by gene

oh, it seems to be a comon thing today- I'm watching a few things spike in price rather dramatically.

A couple things I was watching just went through the roof

and I *so* wanted an rs-232 interface for HP-IL.....

Re: Wow. \$565 on ebay

Message #3 Posted by [Matthias](#) on 16 Sept 2002, 10:34 a.m.,
in response to message #2 by Christof (Davis, CA)

I was the second highest bidder on this auction. I still want to get a HEPAX. Does anyone wants to sell his for such a high price?

Matthias

Re: Wow. \$565 on ebay

Message #4 Posted by [Vassilis Prevelakis](#) on 16 Sept 2002, 11:49 a.m.,
in response to message #3 by Matthias

But this is nuts! I can only understand paying this kind of money if you are a collector and wish to gather *all* the modules you can find.

But if you actually want to *use* it, then paying \$565 will cause real headaches. What if you zap it? What if your HP41 is stolen, lost or misplaced. What if it just dies 1 month after you buy it (its a 15 year old part after all and you have no idea where it has been all these years).

For this kind of money I'd suggest you build/buy an MLDL box and download the HEPAX image to it. You can find the image on the net (and the manuals) and you can find instructions for building an MLDL on the HP Forum archives.

**vp

Re: Wow. \$565 on ebay

Message #5 Posted by [Juan J](#) on 16 Sept 2002, 7:12 p.m.,
in response to message #3 by Matthias

It was a matter of two minutes and a lot of luck to beat Matthias...;-) Had my connection speed been slower, I would be the second highest bidder instead.

I have been seriously bit by the collector's bug and wanted an HEPAX module so badly... I have lost a couple in the last year, and did not want to miss a third one. I kind of try to make up for the accessories I could not afford or did not know about back when I was a serious 41 user.

My 41s never leave home and stay in a safe place when I am not around, so the chance of losing them (and now the module) to a thief is rather small, or so I hope.

I like this hobby, maybe too much. Perhaps Doctor Michael could help a little with his opinion...

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Hard case for pioneer

Message #1 Posted by [Christof \(Davis, CA\)](#) on 15 Sept 2002, 8:12 p.m.

I don't recall if I mentioneed this yet- the otterbox (www.otterbox.com) model 2000 in opaque (*with* padding included) is a PERFECT fit for the pioneer in length and breadth. it's a bit deep (you can put two pioneers in, in fact.) but the space is easy to fill with a notesheet, encil stub, and spare batteries.

it's wwaterproof, droppable, and solid

Is taht what Iqbal was looking for?

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 15 Sept 2002, 8:18 p.m.,
in response to message #1 by Christof (Davis, CA)

Hi;

Sometime ago (a year?), Iqbal asked if anyone knew what sort of hard case was that shown in an e-Bay announce for an HP42S. I saw the picture, and now I recall it was not from HP. Hey, Iqbal, it seems it can be this one.

Cheers.

Re: Is taht what Iqbal was looking for?

Message #3 Posted by [Iqbal](#) on 15 Sept 2002, 10:34 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

Hi Luiz how's the world cup soccer champions going?? I was looking for the astech case for the pioneer series. I did manage to get one a while back but I don't have it anymore.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 82240B Printer Combatible with 41?

Message #1 Posted by [Steve Seto](#) on 15 Sept 2002, 7:34 p.m.

Does anyone know if the "B" version of the 82240 IR printer is compatible with the 41 IR module?
TIA.

Re: HP 82240B Printer Combatible with 41?

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 15 Sept 2002, 7:42 p.m.,
in response to message #1 by Steve Seto

Hi;

Both HP82240A/B are compatible with the 82242A IR module. The printers only have a different character set (among internal electronics, that are "invisible" for the user), and the HP41 will use the range with the same characters in both of them. That means printers will always generate the same printout for the same HP41 origin.

Maybe you already know, but the B version generates a better reading printout for listings; graphics are identical for both of them.

Is that what you mean? If so, I hope it helps.

Cheers.

Re: HP 82240B Printer Combatible with 41?

Message #3 Posted by [Steve Seto](#) on 15 Sept 2002, 11:07 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

Luiz: Thank you; you did, in fact, answer my question.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Anyone Have PRGMBR for the 71?

Message #1 Posted by [Steve Seto](#) on 15 Sept 2002, 7:09 p.m.

I'm looking for versions of the "Create Your Own Barcode" programs PRGMBR & FULFCN that have been edited for the HP-71B dialect of BASIC. Ideally also edited for an HP 2225B printer (however, I'll take whatever I can get here). Of course, I'd also like to get it on a downloadable HP 82161 micro cassette. If anyone has such a version, please contact me; I'd like to talk to you about it...

Anyone Have PRGMBR for the 71?

Message #2 Posted by [Emmanuel](#) on 16 Sept 2002, 12:55 p.m.,
in response to message #1 by Steve Seto

Hi, Could you give me further informations about it? I have all archives of PPC-Toulouse and JPC-Paris.

Re: Anyone Have PRGMBR for the 71?

Message #3 Posted by [Steve Seto](#) on 16 Sept 2002, 9:02 p.m.,
in response to message #2 by Emmanuel

Emmanuel: Thanks for your help. PRGMBR and FULFNC are the two programs in the HP "Creating Your Own HP-41 Bar Code" manual (#82153-90019 - English). PRGMBR takes a list of numbered 41 instructions and compiles them on command. FULFCN prompts for "HP-41 type commands" that are translated into bar code. It's not immediately clear why there are two programs.

Both programs are written in a 9845 dialect of BASIC. I'm guessing that there are a few differences between the 9845 and the 71 versions of BASIC, but also hoped that someone had already worked this out. I'd be willing to pay a reasonable fee for debugged versions of the programs in the 71 dialect. I have a cassette drive, and that is the most logical media, since both programs appear to be several hundred lines long.

Hope that explains this request, and thanks for your help...

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

A truly international 32sii

Message #1 Posted by [AshP](#) on 15 Sept 2002, 1:52 p.m.

I just bought a 32sii from a dealer in Germany - seems he'd just had a new batch of calcs. Ok, so I knew the manuals would be in German - I can cope with that. But, when it arrived I see that it was packaged for the Spanish speaking world with accompanying Spanish manual (German version scanned on CD).

So, here we have a calculator designed in USA, made in Indonesia, packaged for Spain/Latin America, bought from Germany by me in England - No wonder they complain about globalisation!!

BTW I picked it up for \$105 inc. p&p. If you can overcome the language barrier I reckon that's not a bad deal over e-bay prices.

Adios (as they say in Germany!)

Re: A truly international 32sii

Message #2 Posted by [Ellis Easley](#) on 16 Sept 2002, 1:04 a.m.,
in response to message #1 by AshP

In "Casablanca", near the start, when Peter Lorre's character is telling Rick how he's planning to leave, he says something that sounds like "Adios, Casablanca" but he might be using the French word for goodbye, as they are in a French territory. I know Peter Lorre was German but I'm not sure of the nationality of his character (Ugarte?)

Re: A truly international 32sii

*Message #3 Posted by [AshP](#) on 16 Sept 2002, 3:18 p.m.,
in response to message #2 by Ellis Easley*

I think he might have said 'Adieu', which is French for goodbye/farewell - means the same as its Spanish counterpart.

I'm new to all this HP calculator stuff. Prompted by having lost my Casio a few months back I began searching for something new and bumped into HP. Unfortunately, it seems like I'm a bit too late - looks like it's all over bar the shouting. However, I am chuffed that I managed to get my hands on an RPN calc at last. Somehow (and I know it sounds a bit conceited) one feels a bit superior to other calculator users.

Actually, I first encountered RPN about a year ago when I tried to use a colleague's 11C. I was an RPN virgin, and after seeing the look of confusion on my face he kindly pointed out, "It's reverse polish notation." Of course, I was instantly enlightened - not!! And proceeded to hand it back to him, "Nice", I said, not wishing to show my ignorance - and withdrew.

My curiosity should have been aroused at that point, but for some reason it wasn't - and now I regret that I am late coming into the fold.

I'm not really collector material, but strangely I've acquired 3 HPs (35, 20s & 32sii) over the past couple of months. I never intended to collect - just to use. There must be something about these machines which caused this to happen - weird. (Actually, the 35 was just lying on a desk at work, presumed dead, but with a bit of careful nurturing I brought it back to life).

Must dash.....Ash.

Re: A truly international 32sii

*Message #4 Posted by [Ellis Easley](#) on 16 Sept 2002, 11:33 p.m.,
in response to message #3 by AshP*

As Victor Laszlo said to Rick (approximately) - Welcome back to the fight! This time ... well, I don't if we'll win, but at least we can keep each other company!

Re: A truly international 32sii

Message #5 Posted by [Julián Miranda \(Spain\)](#) on 17 Sept 2002, 10:47 a.m.,
in response to message #2 by Ellis Easley

At that time Casablanca was in French territory but there were other parts of what is now Morocco that were Spanish territory. Even some ten years before France and Spain join forces to fight a rebellion at Casablanca. So although they were in French territory he might have used the spanish word to say goodbye.

Re: A truly international 32sii

Message #6 Posted by [AshP](#) on 17 Sept 2002, 12:14 p.m.,
in response to message #5 by Julián Miranda (Spain)

I've discovered that he 'addio' - blowing all our language theories out of the water. Well, that's what he should have said...here's a section from the original script....

UGARTE:

One moment. Tonight I'll be selling thoise for more money than even I have ever dreamed of, and then, addio Casablanca!.....

Ash.

Re: A truly international 32sii

Message #7 Posted by [Massimo Gnerucci \(Italy\)](#) on 17 Sept 2002, 1:54 p.m.,
in response to message #6 by AshP

UGARTE: One moment. Tonight I'll be selling thoise for more money than even I have ever dreamed of, and then, addio Casablanca!.....

So, in the end, it speaks italian!

Re: A truly international 32sii

*Message #8 Posted by [Ellis Easley](#) on 19 Sept 2002, 3:25 p.m.,
in response to message #7 by Massimo Gnerucci (Italy)*

Thanks for figuring that out! BTW, it had struck me that the name "Casablanca" must be Spanish.

I think "Casablanca" is about the best film ever made. I can watch it anytime. It is interesting to read (or watch the documentaries on the DVD) about the making of the movie - it was just another project with lots of problems and last-minute changes.

Re: A truly international 32sii

*Message #9 Posted by [Julián Miranda \(Spain\)](#) on 20 Sept 2002, 3:14 p.m.,
in response to message #8 by Ellis Easley*

The original name is portuguese, Casa Branca. Which is very similar to the later spanish conversion Casablanca. And the meaning is the same: white house.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

if HP has cancelled so much, why not...

Message #1 Posted by [Christof \(Davis, CA\)](#) on 15 Sept 2002, 11:50 a.m.

build them "ourselves"?

I'm not well versed in electronics manufacturing, but I'm not sure why it's impossible/implausible for someone to do so.

(and I'd dearly love an update to the 42s, with rs232, a 3 line display, 128k RAM, with graphics routines and "ppc rom" type programs built in. I'd go for something the same L&W, but up to 5mm thicker. I'd pay \$149 for it in place of a TI89 without an eyeblink. I'd like a mix of the best of the 32SII features in there, too. the dual shift keys and on keypad alpha's. the built in pop/sample stats.)

You can't legally copy the HP, sure. But at this point in age/abandonment, there's nothing to stop people using the concepts of the keyboard snap, shape, and feel. And a from scratch RPN system that runs 41/42 code would not be impossible to build.

Just like the PDA world is slowly moving back away from graffiti type systems and back to mini keyboards, the world might be ready for calculators that Just Work, that can be successfully programmed for work/lab use after 2 hour's instruction, and which are small enough to fit in a pocket.

I know this is just another gripe and "what if" post- but I'm really curious. I've got a friend who does performance engineering for a Big Unix Company in the bay who claims that it is impossible to start a "garage" tech firm anymore because you won't make shareholders enough money fast enough. Maybe so, but isn't that exactly what has killed off so much of the great engineering in large companies? Is it possible to go make a good calculator and pay the rent instead of "leveraging marketshare for massive retirement income"?

-C

Re: if HP has cancelled so much, why not...

Message #2 Posted by [Meindert Kuipers](#) on 15 Sept 2002, 2:48 p.m.,
in response to message #1 by Christof (Davis, CA)

I'm in for the hardware part. You may recall a thread about me doing an MLDL for the HP41 based on a FPGA/CPLD. I have found a bit more time and I have changed the design to Xilinx and modified the phase counter and other parts. The simulations are coming together now and I should have a functionally equivalent of the original MLDL (and EPROM box at the same time) within a month or so. That is, in simulation. I am working on getting the hardware organized. The whole design is done in VHDL. Once I have the sources cleaned up I will make it available to the group. I would love to have a 'new' HP41 clone!

Meindert

email address typo

Message #3 Posted by [Meindert Kuipers](#) on 15 Sept 2002, 2:49 p.m.,
in response to message #2 by Meindert Kuipers

sorry, address should be: meindert@kuipers.to in the previous posting

Re: if HP has cancelled so much, why not...

Message #4 Posted by [David Smith](#) on 15 Sept 2002, 3:49 p.m.,
in response to message #1 by Christof (Davis, CA)

Tooling for the case alone would be over \$100K. Keyboard and LCD would be similar. Figure about a megabuck to get a decent high-grade machine ready for market... plus a similar amount for marketing, etc.

I just ran my piggybank through the Coinstar machine and it coughed up \$100. If 10,000 of us do the same we would be ready to take a run at it.

What is the intention ?

*Message #5 Posted by [Renato](#) on 15 Sept 2002, 6:56 p.m.,
in response to message #4 by David Smith*

If the intention is to sell calcs worldwide, then only corporations would have cash - but not motivation.

If the intention is to produce on a very limited scale, then things can be very different. What if we could produce electronics for 41, woodstock and classic series ? If case, keys, keyboard and display are available from old unrepairable calcs, replacing electronics is not that expensive - it is also a very interesting technical challenge.

Well, try using the HP, we are talking

*Message #6 Posted by [J Tiers](#) on 15 Sept 2002, 10:18 p.m.,
in response to message #4 by David Smith*

getting existing units back in service, at least. That only takes a new board for the one having the separate CPU(fullnut?)

No 100K then.

BTW, 100K is LOW LOW LOW for the parts in the HP 41 case.

Jerry

Re: Well, try using the HP, we are talking

*Message #7 Posted by [David Smith](#) on 16 Sept 2002, 7:31 p.m.,
in response to message #6 by J Tiers*

I don't know, I think you can do a calculator case for 100K\$ these days. Tooling costs aren't what they used to be. CAD systems, electromachining, etc really help. So do various Asian countries hungry for business.

Re: if HP has cancelled so much, why not...

Message #8 Posted by [Fred Lusk \(CA\)](#) on 15 Sept 2002, 7:06 p.m.,
in response to message #1 by Christof (Davis, CA)

When do you start production? :-)

I vote for everything in the 41CX + Advantage Rom plus everything in the 42S. And I want the new machine to work like them, not like the 48/49 series (though I would like the ability to handle units.) A three or four line screen is sufficient. If I want to graph I will use Excel or Mathcad.

BTW, I can invest \$100...maybe more after my daughter's wedding.

Fred

Re: if HP has cancelled so much, why not...

Message #9 Posted by [Steve Seto](#) on 15 Sept 2002, 7:31 p.m.,
in response to message #1 by Christof (Davis, CA)

...Not to be a wet blanket, but I'd like to sound a note of caution. The question that you have to ask is: "Why has HP failed to maintain their leading edge calculator business, and is that something that is relevant to this discussion?"

Well, I think I know the reason, and I'll bet a lot of others suspect it, too: the PC. In order to create a successful calculator design, you must first identify some combination of requirements that CANNOT BE ADEQUATELY SATISFIED by simply producing another PC-based application. (Note that word ADEQUATE...) PC's have "enormous" (by our standards) full-color screens, lots and lots of keys, storage space and communications. Given platforms like Jornada, that's a tough combination to beat.

If you can identify the requirements, you have a chance to do something worthwhile. If you can't (or don't pay attention) you'll end up creating something that no one else cares about at all.

Re: where's the market?

Message #10 Posted by [Christof \(Davis, CA\)](#) on 15 Sept 2002, 7:54 p.m.,
in response to message #9 by Steve Seto

I can start by saying that I have yet to see someone actually whip out a PDA to do math.

And I *certainly* don't see students booting PCs to solve for the limiting reactant in lab.

The hand sized calculator fills a very specific need, portable math. The *efficiently* (I have to come down against the 48 on this one)programmable calculator isa life saver in the field. Even if "the field" is a datacenter with \$5,000,000 in Sun computing hardware. (My last job before going back to school)

most of the students I know carry calculators.The vast majority of them can't find a factorial button,with hand holding- but that's "market share". I'm not sure I'm after large amounts of that.

I'm - personally- after the HP42SX with a better graphics system (okay, not for plotting, but for games, flashcards, and such -and try finding a decent chem/psych/stats flashcard app for my jornada 720!)

Yeah, I'd *love* to be able to export data over a serial port into SASand SPSS. But that's what a single CF slot for "roms" and a rs232 port are for.

Overly ambitious?

I don't know.

1 Million Dollars seems a bit much to get together, and at a \$10 net, youhave to sell 100,000 to break even.

Maybe recycling the 42s/17bii components is a good idea- maybe finding the leftovers or tooling fromindonesia is a good idea.

I'd be willing to do some stone age mass production work to get them going.and I can surely pitch in my \$200 worth.

(hell, start the deal out here in davis and I will work for free to get something going)

May I borrow your words?

Message #11 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 15 Sept 2002, 8:10 p.m.,
in response to message #10 by Christof (Davis, CA)

Hi;

I just cannot leave Brazil easily, but I'll do what I can from here.

I can see (premonition?) a site created with this very purpose in a few months, as it grows completely out of control...

Count on me.

Cheers.

You are 100% correct...

Message #12 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 16 Sept 2002, 12:50 a.m.,
in response to message #9 by Steve Seto

Hi;

let's get back to when the HP41 was introduced. Available PC's (Apple, Commodore, Sinclair) were too expensive, had a lack of graphical resources, shown no compatibility with each other and could not be SW/HW upgraded. What do we have today? High evolved desktop/laptop/palmtop, high graphic resolution, fully upgradable, a lot faster than the first ones AND prices are about the same.

Once, Bill Gates compared computer evolution with automobile evolution. If automobiles had evolved as computers, they would cost a lot less than they cost and would run thousands of miles with a drop of fuel. What if we extend these comparisons to calculators?

We had extremely advanced computing devices at that time. I remember that the HP41 was unbeatable. Many people (me included) would never have a computer, but having an HP41 was mandatory.

The fact is: we still have our automobiles, being them perfect or not. Also, it's a fact that automobiles' "users" do not have the second option; calculators' users have. They can buy a palm, an organizer, and deal with them as calculators.

What we must offer is something computers don't. I'm figuring it out, but a good starting point is: "build your own portable computing device at home and get rid of ready-to-use

stuff". Some of us would love building our own calculators, it's a matter of fact. And youngsters are trying to "taste" something different. Maybe it's not happening everywhere, but as Linux shown itself a second option, now it is an option. I believe that this is mostly because it can be controlled by the user, not the opposite.

And it was brought to life by one guy only (that's what is written in the books). We are a bunch of guys. What do we have to loose?

Yours are wise words, and very well needed in a moment like this, because they demand reflection.

Cheers.

Re: You are 100% correct...

*Message #13 Posted by [Christof \(Davis, CA\)](#) on 16 Sept 2002, 12:58 a.m.,
in response to message #12 by Vieira, Luiz C. (Brazil)*

Luiz,

You've gotten to the deepest heart of part of why I want this.

I am always trying to find a "reasonable" development system for my PDAs- I want the same UI that the rest of the machine has, some simple language standard and functioning that will let me pop together what I need for a chem lab or a psych research project inside of a half hour.

My friends constantly tell me the same thing- over and over:

"It's a PDA, it isn't *supposed* to be a programming platform"

And that is *exactly* why you won't see a lot of people using them in the field, using them for onsite geology, surveying, or arch. digs. This is exactly why you don't often see a Jornada strapped ot the thigh of a cessna pilot.

It's made to run apps, not be user modifiable.

and that is, perhaps, the one key element that a pocket calculator needs that simply doesn't exist anywhere else. The ability to make elegant, useful, complex programs on the spot, in the field, in your hand.

Re: You are 100% correct...

Message #14 Posted by [J.Manrique Lopez de la Fuente](#) on 16 Sept 2002, 7:54 a.m.,
in response to message #12 by Vieira, Luiz C. (Brazil)

Hi,

Low cost linux handheld is an option.. that's the reason I started Scientific Digital Assistant project: <https://freesoftware.fsf.org/projects/sda>

Bets regards, J.Manrique

I liked this a lot!

Message #15 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 16 Sept 2002, 9:40 a.m.,
in response to message #14 by J.Manrique Lopez de la Fuente

Hi, J. Manrique.

As we are in here, this is a new, under development project. I think this is a good starting point.

I'm gonna read everything that exists in the site and get back as soon as I have all info I think I need.

Best regards.

Brief: New design

Message #16 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 15 Sept 2002, 7:36 p.m.,
in response to message #1 by Christof (Davis, CA)

Hi;

I believe everything posted here must be seriously balanced. Christof, Meindert, Renato, David and many, many others are interested on an HP "clone". This is a brief post, just a warm-up for others.

Renato is completely right about case, keyboard and (rebuilt?) display/LCD. Many Hewlett-Packard calculators may (easily?) be reversed-engineered, at least the old, fixed 4-level stack models. Expandability is another story. And why not to try other design, other lay-out? Something like the HP97, say, portability + desk-top operation. I like having my calculators in hand, but I prefer using them in a more friendly, less hostile environment.

Using existing case + new electronics is a must to keep existing calculators with not-repairable electronics. Bringing them back to life with new "guts" would ensure prosper, long live to them.

This is just a brief starting...

(if any of you want to see a previous thread about this, have a look [here](#). There are others about the same subject, I'm just digging the Articles to find them.)

Re: Brief: New design

*Message #17 Posted by [ojm](#) on 15 Sept 2002, 7:52 p.m.,
in response to message #16 by Vieira, Luiz C. (Brazil)*

For low quantity production, there are manufacturers of ready-made standard electronic enclosures for small handheld devices. For example:

<http://www.tekoenclosures.com/enclosures/enclosures.html>

http://www.serpac.com/m_series_main.asp

These are just a couple, and this not meant as an endorsement, as there are many other manufacturers out there.

For keypads, this Google search turned up quite a few:

[http://directory.google.com/Top/Business/Industries/Electronics_and_Electrical/
Keyboards_and_Keypads/](http://directory.google.com/Top/Business/Industries/Electronics_and_Electrical/Keyboards_and_Keypads/)

The cheapest way to go would be an off-the-shelf peel-and-stick membrane switch array. Obviously it's nowhere near as good as the old HP quality keyboard, but it would be cheap & quick.

I suspect suitable LCD displays could be obtained from supplier's such as Digikey. (Lots of online, surplus electronics dealers could also supply those displays cheaper, but their availability isn't as reliable.)

So, there's the calculator case, the keypad, and the display. All we need is to come up with the brains.....

Re: Brief: New design

Message #18 Posted by [Christof \(Davis, CA\)](#) on 15 Sept 2002, 8:03 p.m.,
in response to message #17 by ojm

Whatever reality takes us to, of course.

but is that *snap* impossible to attain?

The important bits are that feel. it's not just HP- I have some other old lab hardware that has that feel. Like a tadpole made unix laptop. Or my 42s

I definitely- personally again, this is just me- want a 3 line display, maybe a few pixels wider than the 42. I definitely want to make the size compatible with my old bdu shirt pocket. (pioneer size) Thicker is fine.

And while I'm droolin over the thought of something like a full megabyte of storage space for pacs/formulae, I'm NOT in ANY way drooling for RPL. The coding model of the 41/42/32 is exactly what I'm after. (though an onboard assembler would be useful for adding to it without having to cart around a PC)

Extravagant, expensive, etc. I know. But the capability to have more RAM and serial interfacing are, honestly, the only things I *really* want to add to a 42S. (sure, I like the 32SII keyboard layout better)

I can dream- I can also say that I will do my relatively meager best to make an actual project go.

If there is case, keyboard and display

Message #19 Posted by [Renato](#) on 15 Sept 2002, 8:17 p.m.,
in response to message #17 by ojm

... then we need electronics ... then we need software, but I guess there would be people willing to do that. Just being able to recreate guts for classic, woodstock and coconut would be great. Should we care about selling calcs to students, or to 48 users, or to ti users ?

Re: Brief: New design - My brain entered in RUN mode

*Message #20 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 15 Sept 2002, 8:26 p.m.,
in response to message #17 by ojm*

Hi;

about the brains: mine is in running, second-plane mode.

I'm posting as I have news.

BTW, is there any good source of information about how to perform Floating Point operations in a binary-based system? If there is a concise, downloadable source of info about this, I'd like to read. My docs about this subject come from the Z-80 era, and I believe better algorithms exist today. If the docs are related to any specific processor (Microchip, ATMel, or any others), this processor should be the starting point.

As I told, I'm running in second-plane mode...

Thank you.

(have you noticed that it's Sunday, where I am in Brazil it's 9:20 PM and there is a lot of activity on this thread? Wow!)

Floating point math routines

*Message #21 Posted by [Renato](#) on 15 Sept 2002, 8:39 p.m.,
in response to message #20 by Vieira, Luiz C. (Brazil)*

Try <http://www.radiks.net/~rhuebner/mathlib.html>

Going further...

Message #22 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 15 Sept 2002, 9:57 p.m.,
in response to message #21 by Renato

I wrote a big text first, but I lost it and I think I also lost the primary focus; but let me try again...

Thanks, Renato; I'm downloading the files and I'm gonna read them soon.

Sometime ago, I read some articles about PIC compilers (I still have them) found in sources from Y2K. I am sure there are new improvements, also alternative HW sources (ATMel, among others). I remember that Microchip offered a C-like language for the compiler, easing the SW development.

I sometimes feel worried about using compilers to develop such low-level applications (let's face it: starting an O.S. from the bottom is easy with nowadays tools, but it is still a huge work to be accomplished...) because final executable is always bigger than the final one obtained by using plain assembler resources. In this case, time spent with the new design grows exponentially faster. Two variables to be balanced... Also, porting the existing ROM-dump from an HP42S or HP41CX would demand some time; otherwise, nothing else would need to be developed. I know this is not legal, and HP lawyers include a clause about using internal programs as being an illegal practice. That's why I asked about floating-point routines.

If we find the most suitable microcontroller for the job and start the design from scratch, is there anyone that would guess how long would it take for us to offer a first operating assy? Just a guess, based on subject (instead valid) feeling. We are a spread-around-the-world team, and a lot of things will go against us, but we can simply deny these facts and go on as if we do not know it's impossible... or hard enough to give up. I believe at the first moment someone says "Hey! I have a prototype that allows arithmetic in a four-level stack register.", the others will ask for the "blue-prints" and O.S. listings, so we can go on at home (I would!); later, someone else would say "Hey! I add I/O capabilities to your prototype" and another one would say "Mine has registers!", and another would say "Mine handles ALPHA characters!" and suddenly we would see a new (GNU Licensed?) RPN-based machine available to be homebuilt and homeimproved.

Shall we? Who else will dare this dream?

I need specs for microcontrollers, mostly for their development tools/compilers. Anyone would, please, ease my search and point some sites out? (I still do not

know it's impossible...)

Re: Going further...

*Message #23 Posted by [Renato](#) on 15 Sept 2002, 10:44 p.m.,
in response to message #22 by Vieira, Luiz C. (Brazil)*

Luiz, Real hardware is not necessary at first.

www.microchip.com has PIC simulator for download.

sdcc.sourceforge.net has C compiler and simulator for z80 and 8051

Also, AVR from atmel would be interesting.

<http://kit.microcontrolador.com/index.html> has a AVR board for US\$110.00 (in Brazil).

<http://www.mosaico-eng.com.br/> has PIC boards and information

<http://www.symphony.com.br/pic.htm> also has PIC boards, with development support

Re: Going further...

*Message #24 Posted by [Christof \(Davis, CA\)](#) on 16 Sept 2002, 1:02 a.m.,
in response to message #23 by Renato*

Any reason not to make a preliminary design- some hand hacked hardware- with a flashable rom?

that would allow for binary updates through a CVS system of some sort. First stack, then sine, then....

Re: Going further...

*Message #25 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 16 Sept 2002, 1:17 a.m.,
in response to message #24 by Christof (Davis, CA)*

Hi;

the most flexible the development system is, the faster we can change/correct it. By flashable ROM you mean Flash technology, right? And implementation would, I believe, follow this guideline, too: stack manipulation, simple math, transcendental math, and so on...

That's my point, too.

Cheers.

Re: Going further...

*Message #26 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 16 Sept 2002, 1:11 a.m.,
in response to message #23 by Renato*

Hello, Renato;

I agree with you that the running programs will not need the HW to be tested, but we need to define which HW to use before going any further. It seems to me that available microcontrollers can handle almost any level of implementation, so SW will not be a defining parameter.

Do you agree with me or I failed in my analysis? I want to know if I am aiming the wrong way before shooting... O.K.?

Thanks.

(this is getting a lot better!!!)

Re: Going further...

*Message #27 Posted by [Renato](#) on 16 Sept 2002, 2:02 a.m.,
in response to message #26 by Vieira, Luiz C. (Brazil)*

Luiz wrote:"we need to define which HW to use before going any further." Renato comments: No, we don't. We just need to compile nsim for a simulated microcontroller, then try it on a PC. Nsim is at <http://www.brouhaha.com/~eric/hpcalc/nsim/> . After we do that, we will understand what capabilities we need from the hw. Also, PIC simulator provides a stopwatch, so we will get performance data.

Luiz wrote:"It seems to me that available microcontrolers can handle almost any level of implementation, so SW will not be a defining parameter." Renato comments: PIC family is huge, we can also choose 8051 or AVR, or Z80...

Also, using nsim and a 41rom we can have a 41OS running very soon on a microcontroller. Then we need NV memory, display, keyboard. Then we need case, batteries...

Re: Going further...

*Message #28 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 16 Sept 2002, 9:42 a.m.,
in response to message #27 by Renato*

Hello, Renato;

I read what you post and I'm reasoning about it. I'm not posting in a hurry, so I'll not have to erase my answer later. You get a point here, let me just get it into my mind.

Thanks.

Até.

Re: Going further...

Message #29 Posted by [César García](#) on 18 Sept 2002, 8:37 a.m.,
in response to message #27 by Renato

I am an engineering student very interested in electronics. During the 2001/2002 term I took lessons in digital electronics in which I studied PICs among other things. So I would like very much to add my point of view to what has been written here.

PICs are microcontrollers oriented to inputs/outputs, this mean that they can easily handle keyboards, LCDs, digital signals, etc. but they do not have a really huge calculus power. This makes them, I think, appropriate for a simple calculator, but I do not know if they can easily handle advanced calculus operations. If my knowledge is up to date, what I can not assure, their assembler language does not even include multiplication or division of integers. So, the required complexity of software is really big.

There are C compilers for PICs, but they produce too slow and large code to be really useful if you want to push the limits a little. This information comes directly from class lessons so it should be verified. ¿Anybody has experience programming in C for PICs?.

On the other hand, assembler programming for PICs is really easy, as the instruction set is really small and the Harvard architecture makes programming really easy, together with the free programming tools given by Microchip at <http://www.microchip.com>.

Hardware requirements are really small, at least in prototype phase. I think that you could have, say, a 2 line LCD with a 32 key matrix keyboard and a PIC for less than euro 100, and probably if you manage to do it with a 16F84, less than euro 60. Aprox, euro 1 = USD 1. And no special tools are needed for assembling the thing.

Just my point of view, and without hardly studying the requirements.

Excuse my poor english.

Re: Going further...

*Message #30 Posted by [Renato](#) on 18 Sept 2002, 9:19 a.m.,
in response to message #29 by César García*

Cesar, The cpus used in HP calcs are also very simple. What makes them powerful calculators is the software. You can find more info about this in the museum (see processors and simulations). There is software that could be ported to run on a PIC. See the simulators by Eric Smith at <http://www.brouhaha.com/~eric/hpcalc/>

Re: Brief: New design

*Message #31 Posted by [David Smith](#) on 15 Sept 2002, 8:18 p.m.,
in response to message #16 by Vieira, Luiz C. (Brazil)*

Actually, it is a fairly trivial design to build a circuit board that could replace the guts of the HP35/45/70/80. Slice off a row of connector holes and drop it into a '55 chassis. Flip it over and it fits a '65. With a little fudging around it could even go in a 67. A similar board would drop into any Woodstock (finding those pesky fork pins is the main problem, pogo pins could be made to work)

A single PIC chip could easily handle the task. Program storage in serial EEPROM could go to 64K bytes easily. Even a time/calendar could be handled.

I've thought of doing this many times, but have not seen enough dead machines that would be worth rebuilding. Those that can be repaired have been by scrapping corroded/cracked/carved machines that one really would not want to repair. It is still a likely project if I ever have a little free time.

It's this simple

Message #32 Posted by [Mike](#) on 16 Sept 2002, 8:51 a.m.,
in response to message #1 by Christof (Davis, CA)

HP is highly sought after because of the high quality (read high cost) of it's calculators.

If HP cannot keep the calculator line making money, a would-be startup company will not either. No one is going to buy a cheap quality HP look-alike. If they wanted cheap, they'd buy TI.

It is the high quality that makes them non-competitive, in the high volume calculator business.

Re: It's this simple

Message #33 Posted by [Christof \(Davis, CA\)](#) on 16 Sept 2002, 12:42 p.m.,
in response to message #32 by Mike

I agree with parts of that.

And I don't want a "cheap clone"- though I'm willing to accept that development may require some of that flavor.

I- again, this is Just Me, I can't speak for anyone else- I don't want a large share of the market. I don't want to "beat TI" or something.

But selling a few thousand calcs isn't an impossibility. If we can achieve the usability, portability, and quality of the 41/42/32sii styles of programming and use, with the rs232 and extra ram/rom capacity.... well, I honestly think that, even beyond a group of hobbyists making personal machines, we could sell a few here and there. enough to make cars want to acquire us? I *hope* not!

I recognize that the world has changed in the past 40 years, and that many people think there is no way a small group can do a thing- that all research, development, and production requires a multinational corporation or government. But I think that, if you aren't concerned about Making Lotsa Cash Today For Short-term Stockholders, it's still possible.

That having been said- it's still at the "group of hobbyists" level now. Why should we not try to build something?

Re: Look at TI-83+/SE

Message #34 Posted by [Paul Brogger](#) on 16 Sept 2002, 10:49 a.m.,
in response to message #1 by Christof (Davis, CA)

I've said this before, so please forgive the "broken record" repetition . . .

Also, the fact that I haven't actually DONE anything yet (except buy the unit and download the software) must be taken into account . . .

The TI-83+/SE line offers a screen big enough for a four-line RPN interface, a decent (NOT rubber!) keyboard (with, incidentally, an "Enter" key), 32K RAM, over 1 Mb of Flash-able ROM (!), a fast Z-80 processor, a library of floating-point routines & transcendental functions, and a PC connection, all in a hefty package bigger than a -42s, but thinner than a -48G. Also available are a free emulator and assembler, tons of .pdf documentation, very helpful members of an interest group, and an internet discussion board.

(Meanwhile, the TI-89 is M68000-based, with similar resources available -- it offers much greater resolution in the display.)

It looks to me (after cursory investigation) that the TI-83's method of flashing and using "APPS" wouldn't provide a truly "native" feel to an RPN interface..) I suspect that one would want to disassemble and tweak the calc's operating system itself, not simply develop another add-on. Easier said than done, but it can't be impossible, eh? (There are, I think, two RPN Apps already available -- I plan to try them out before starting out on my own.)

But the process should be fun -- transform the interface to four-line RPN, revamp the storage scheme, enable keystroke programming as in the -41/-42S and voila! The next in line of the last (best?) generation of programmable RPN calculators!

I've always had an interest in portable, programmable computing devices, and HP provided the best available. That will no longer be so, with the passing of the HP-48/49. So, go to the next best thing!

Do take a look. It could reduce the project to a software development task only!

How much does it cost a TI-series?

Message #35 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 16 Sept 2002, 2:51 p.m.,
in response to message #34 by Paul Brogger

Hello, Paul;

your thoughts sound interesting, too. I'd like to know how much do these beauties cost. Is there any link you could point us to? If the specs (PDF files) are there, I'm also downloading them.

Cheers.

Re: How much does it cost? (\$70 on eBay)

Message #36 Posted by [Paul Brogger](#) on 16 Sept 2002, 6:07 p.m.,
in response to message #35 by Vieira, Luiz C. (Brazil)

I got a (barely) used TI-83+ Silver Edition on eBay for \$70. (Right now they're \$129.00 retail and slowly coming down.) It included a Graph-Link cable and a "Resource CD" with manual, link software, etc.

The emulator, upgraded operating system, and developer documentation are available at the TI web site, including [Discussion Groups: Technology](#).

I looked at TI-89's and they seem to be going for about \$90.00 on eBay -- they're retailing for something like \$160.00 or so.

If there are any interested participants, we should agree among us on the platform (TI-89 or TI-83) and cooperate on investigating the full range of possibilities . . .

TI-89 @ CostCo/Sacto = ~\$140

Message #37 Posted by [Glen Kilpatrick](#) on 25 Sept 2002, 12:37 p.m.,
in response to message #36 by Paul Brogger

I'd posted this price I saw in another Forum message. It looked like that had a half-a-dozen of these.

Re: How much does it cost? (Another link.)

Message #38 Posted by [Paul Brogger](#) on 16 Sept 2002, 7:32 p.m.,
in response to message #35 by Vieira, Luiz C. (Brazil)

[The TI-83 Plus SDK](#)

Somewhere at that site is a similar page for the TI-89/92, but I had enough trouble finding this one!

Re: How much does it cost? (A couple more links.)

Message #39 Posted by [Paul Brogger](#) on 16 Sept 2002, 7:53 p.m.,
in response to message #35 by Vieira, Luiz C. (Brazil)

A couple more . . .

[TI-83 developer's site](#)

[Ti-89/92 \(Motorola 68000-based devices\) developer's site](#)

Re: How much does it cost? (A couple more links.)

Message #40 Posted by [Paul Brogger](#) on 16 Sept 2002, 7:53 p.m.,
in response to message #35 by Vieira, Luiz C. (Brazil)

A couple more . . .

[TI-83 developer's site](#)

[Ti-89/92 \(Motorola 68000-based devices\) developer's site](#)

Re: Look at TI-83+/SE -- Status Report

*Message #41 Posted by [Paul Brogger](#) on 24 Sept 2002, 8:00 p.m.,
in response to message #34 by Paul Brogger*

If anyone is interested . . .

I've been playing with "TI-Basic" on my TI-83+ Silver Edition. I figure I'll play with the calculator at that level before diving into Assembly language programming.

I decided to create an RPN user interface as well as I could using Basic, and use *that* as the UI model for an ASM effort (if it ever gets that far).

All in all, it's not a half-bad calculator with which to work. If Hewlett-Packard hadn't made anything since the HP-35, I might even say it's my favorite. (Of course, if they hadn't made the -6S, -30S and -49G, I might not be looking elsewhere . . .)

The Basic is a little quirky, and doesn't seem to have error trapping (I'm still pretty new to it), but I have been able to implement a simultaneously-visible "five-level stack" (X, Y, Z & T, as well as Last X) interface and RPN behavior for all the numeric functions available (directly and shifted) on the keyboard. It's quick enough, and is actually useful, though incomplete.

It operates as a program that must be started (with one or three keystrokes) after the unit is turned ON, and must be stopped in order to turn the unit OFF. (The calculator's automatic shutdown doesn't seem to work when a program is running.)

All keystrokes but one may be intercepted and put to use by such a program. I suppose menus would be possible too, but I'm not going to get carried away.

As of now, I can enter positive & negative real numbers (but not yet exponents), perform stack operations (ENTER, SWAP, ROLL UP, ROLL DOWN, DROP & LAST X), and calculate arithmetic, logarithmic and trigonometric functions. (This in something like 3K of the ~24K RAM available.)

No exponents (just yet), imaginary numbers, programming, or anything else, except outside of the RPN interface, via the calculator's native features. There's no storage arithmetic or base conversions either way! I'm next going to experiment with an idea for a hex/decimal mode that displays both integer and hexadecimal representations of the stack entries side-by-side, and supports input in either format.

So, it seems to be a good testbed for UI questions, despite the already-decided-upon

keyboard legends. If nothing else, going to a foreign environment and implementing a simple RPN interface has given a fair appreciation of certain complexities, such as stack drop and Last X updating.

The Silver Edition is TRULY ugly, but I chose it for its expanded Flash ROM. Apparently, a regular TI-83+ gives you otherwise equivalent functionality. The manual is actually very complete, and the language can be picked up real quickly.

After a bit more UI experimentation, I'll be moving into Z-80 Assembly programming, and will update this with my impressions when appropriate.

TI-83+/SE -- Calculator Robot!

*Message #42 Posted by [Paul Brogger](#) on 25 Sept 2002, 10:35 a.m.,
in response to message #34 by Paul Brogger*

I forgot to mention, take a look at the [Calculator Robot](#) -- Now THAT's cool!

A "Must See" - TI-83+/SE Calculator Robot!

*Message #43 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 25 Sept 2002, 7:18 p.m.,
in response to message #42 by Paul Brogger*

Hi;

Thank you, Paul; this is a "Must See" in many senses.

Although "we" are an "HP-guys club", this is almost a warning for the days to come...

Cheers.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Java simulators on P/PC or H/PC

Message #1 Posted by [Renato](#) on 15 Sept 2002, 11:24 a.m.

Has anyone tried to use the Hp-25 or 35 simulators on a P/PC or H/PC ?

Re: Java simulators on P/PC or H/PC

Message #2 Posted by [Christof \(Davis, CA\)](#) on 15 Sept 2002, 11:28 a.m.,
in response to message #1 by Renato

Yup- as I allude to in the first current thread on this topic, I've got an h/pc (jornada 720) that runs java apps fairly well. I'm having issues with screen drawing because the H/pc form factor uses a 640x240 display and thus isn't "tall" enough for the way most of these are designed.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Biographies: I'd like to read about you

Message #1 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 15 Sept 2002, 10:35 a.m.

Hi, folks;

I took a brief look at the [biographies](#) page and I did not see many of active contributors' files. I'd like to read about you.

Please, draw a few lines in there. It's good to know a bit about people we do not have a daily contact. This section was not active for a while, and after some requests, Dave agreed turning it back on.

Let's make it worth the job.

Thank you.

Re: Biographies: I'd like to read about you

Message #2 Posted by [HrastProgrammer](#) on 18 Sept 2002, 9:44 a.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

Well, I just put my biography online in the case you want to read it :-)

Re: Biographies: You'd like to read about me?

Message #3 Posted by [Nenad Vulic \(Croatia\)](#) on 9 Oct 2002, 5:34 p.m.,
in response to message #2 by HrastProgrammer

My biography is finally there. If you find it boring, you may always skip everything between 1960 and 2000...

Re: Biographies: You'd like to read about me?

Message #4 Posted by [Fred Lusk \(CA\)](#) on 10 Oct 2002, 1:04 a.m.,
in response to message #3 by Nenad Vulic (Croatia)

Nenad...

Yours is the most intertaining biography yet!!!

I'm glad you were able to avoid the calculator virus. It is quite serious and has infected many of my friends. I have managed to stay well with a regimen of Vitamin C and slide rule excercises (including number crunches).

Fred

(35/55/34C/41C/41CX/42S/48G/48G+/32SII)

Re: Biographies: You'd like to read about me?

Message #5 Posted by [HrastProgrammer](#) on 10 Oct 2002, 2:38 a.m.,
in response to message #3 by Nenad Vulic (Croatia)

Really impressive biography and very nice calculator collection ... For unknown reason I thought that you are a student :-) Well, we must meet somewhere to talk a little about calculators and related things ...

Best regards.

Re: Biographies: You'd like to read about me?

Message #6 Posted by [Nenad Vulic \(Croatia\)](#) on 10 Oct 2002, 5:33 a.m.,
in response to message #5 by HrastProgrammer

AFAIK, we have already agreed on that. The first thing next time I come to Zagreb...

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

RPN calculators for Palm OS

Message #1 Posted by [Renato](#) on 15 Sept 2002, 2:36 a.m.

A bit off-topic, but interesting for anyone trying to replace a real HP for a Palm OS calculator.

1. Free RPN calc

Type: scientific

Programmable: no

<http://seul.org/~bergo/palm/rpn/>

2. RPN 3.04

Type: scientific

Programmable: yes

<http://www.nthlab.com/software/rpn/welcome.html>

3. Neocal

Type: scientific, business, programmer

Programmable: yes

<http://www.hudren.com/products/neocal/index.html>

4. 2xcalc

Type: scientific, conversions

Programmable: no

<http://www.palmgear.com/software/showsoftware.cfm?sid=34175820&prodID=2286>

5. Mathu / MathuPro / RootM

Type: scientific, financial, complex (RootM)

Programmable: yes

<http://www.creativecreek.com/>

6. PowerOne

Type: scientific, financial

Programmable: yes

<http://www.infinitysoftworks.com/>

7. Kalk

Type: scientific

Programmable: no

<http://www.palmgear.com/software/showsoftware.cfm?sid=34175820&prodID=365>

8. Abacus

Type: Financial

Programmable: no

<http://www.dovcom.com/abacus.html>

9. Megacalc

Type: scientific, financial, conversions

Programmable: no

http://www.megasoft2000.com/palm_division/megacalc.htm

10. Hex Calculator

Type: programmer

Programmable: no

<http://www.palmgear.com/software/showsoftware.cfm?sid=34175820&prodID=963>

<http://homepage.mac.com/w3woody/>

11. Intcalc

Type: programmer

Programmable: no

<http://www.inertron.com/palm/morepalm.html>

12. CustomCalc

Type: scientific, financial

Programmable: no

<http://www.visacsoft.com/mainns1024.html>

13. Financial Consultant

Type: scientific, financial

Programmable: no

<http://www.landware.com/financialconsultant/PALMOS/index.html>

14. RPN Calculator

Type: scientific

Programmable: no

<http://www.palmgear.com/software/showsoftware.cfm?sid=34175820&prodID=42434>

15. RPNPopupCalc

Type: scientific

Programmable: yes

<http://www.benc.hr/rpnpopcalc.htm>

Re: RPN calculators for Palm OS

*Message #2 Posted by [Christof \(Davis, CA\)](#) on 15 Sept 2002, 4:34 a.m.,
in response to message #1 by Renato*

good list!

I'd add only one thing, and that's that Webb's RPN calc (nthlab.com) is programmable on a level that makes it a really fantastic programmer's and financial calc.

-C

Re: RPN calculators for Palm OS

*Message #3 Posted by [Renato](#) on 15 Sept 2002, 11:01 a.m.,
in response to message #2 by Christof (Davis, CA)*

I think it is #2 on the list - or did I miss it ? Renato

Re: RPN calculators for Palm OS

Message #4 Posted by [Christof \(Davis, CA\)](#) on 15 Sept 2002, 11:32 a.m.,
in response to message #3 by Renato

No, you didn't miss it- I wasn't very clear in my writing. What I meant is that I'd label it as a scientific/general/financial programmable instead of strictly scientific. (I still use it on my girlfriend's Visor for grocery shopping math. Price per ounce/gram, discounts, tax, coupons)

-C

RPN calculators for Palm OS, list rev#2

Message #5 Posted by [Renato](#) on 15 Sept 2002, 11:42 a.m.,
in response to message #1 by Renato

A bit off-topic, but interesting for anyone trying to replace a real HP for a Palm OS calculator.

List author: Renato Toi

Contributions: Christof

Rev #2, Sep15th2002

1. Free RPN calc

Type: scientific

Programmable: no

<http://seul.org/~bergo/palm/rpn/>

2. RPN 3.04

Type: scientific, financial, conversions

Programmable: yes

<http://www.nthlab.com/software/rpn/welcome.html>

3. Neocal

Type: scientific, business, programmer

Programmable: yes

<http://www.hudren.com/products/neocal/index.html>

4. 2xcalc

Type: scientific, conversions

Programmable: no

<http://www.palmgear.com/software/showsoftware.cfm?sid=34175820&prodID=2286>

5. Mathu / MathuPro / RootM

Type: scientific, financial, complex (RootM)

Programmable: yes

<http://www.creativecreek.com/>

6. PowerOne

Type: scientific, financial

Programmable: yes

<http://www.infinitysoftworks.com/>

7. Kalk

Type: scientific

Programmable: no

<http://www.palmgear.com/software/showsoftware.cfm?sid=34175820&prodID=365>

8. Abacus

Type: Financial

Programmable: no

<http://www.dovcom.com/abacus.html>

9. Megacalc

Type: scientific, financial, conversions

Programmable: no

http://www.megasoft2000.com/palm_division/megacalc.htm

10. Hex Calculator

Type: programmer

Programmable: no

<http://www.palmgear.com/software/showsoftware.cfm?sid=34175820&prodID=963>

<http://homepage.mac.com/w3woody/>

11. Intcalc

Type: programmer

Programmable: no

<http://www.inertron.com/palm/morepalm.html>

12. CustomCalc

Type: scientific, financial

Programmable: no

<http://www.visacsoft.com/mainns1024.html>

13. Financial Consultant

Type: scientific, financial

Programmable: no

<http://www.landware.com/financialconsultant/PALMOS/index.html>

14. RPN Calculator

Type: scientific

Programmable: no

<http://www.palmgear.com/software/showsoftware.cfm?sid=34175820&prodID=42434>

15. RPNPopupCalc

Type: scientific

Programmable: yes

<http://www.benc.hr/rnpopcalc.htm>

Re: RPN calculators for Palm OS

*Message #6 Posted by [Johnny](#) on 18 Sept 2002, 8:38 a.m.,
in response to message #1 by Renato*

And then of course you have atleast two HP41 emulators. I use Coconut quite often. Almost as good as my real HP41. :-)

Re: RPN calculators for Palm OS

*Message #7 Posted by [Renato](#) on 18 Sept 2002, 9:26 a.m.,
in response to message #6 by Johnny*

Johnny, The thread was about RPN calculators, not HP simulators. See my list of HP simulators at: <http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/forum.cgi?read=21984>

The list includes both 41emulators and some other interesting ones.

Re: RPN calculators for Palm OS

*Message #8 Posted by [Johnny](#) on 23 Sept 2002, 8:16 a.m.,
in response to message #7 by Renato*

Well, the HP simulators **are** RPN calculators.

I have rpnPopCalc on my Palm, but once I found coconut I started using that one instead.

Re: RPN calculators for Palm OS

*Message #9 Posted by [Renato](#) on 23 Sept 2002, 1:40 p.m.,
in response to message #8 by Johnny*

I agree, HP simulators are RPN calcs. But there is a difference in doing a good RPN calc and doing a good simulation. NeoCal is a very good RPN calc, and does not try to simulate an HP - so the user interface is very appropriate for a palm, but you don't get keystroke programmability. On the other hand, coconut is a very good HP simulator, user interface suffers from this; on the other hand you get HP-41 programability.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

The HP12C, a buyer's guide

Message #1 Posted by [Scuba Diver](#) on 14 Sept 2002, 5:51 p.m.

Hi everyone!

I was hoping that someone out there could help me to understand something. Over the past few weeks, I have purchased three 12Cs on eBay. My goal is to find one that is in nice shape, then I'll sell the others (it's funny...I guess one person's description of "mint" isn't the same as mine!!!)

At first, I was just going to buy one of the new, sealed ones from a dealer, but then I read an article in this message board that said that the new ones aren't as well made as the older ones...I also read articles mentioning that newer ones have 1x3.3V cell vs 3x1.5V cells, and another article that discussed the # of ICs...

Can anyone out there describe the various "varities" of 12C, when they were manufactured and how you can identify them? Also, are there any performance differences between them?

Ideally, I'd like to find a nice, mint 12C that's one of the "good old" ones. Unfortunately, I don't know how to tell!

Thanks! Brendan

Re: The HP12C, a buyer's guide

Message #2 Posted by [Tom Sherman](#) on 14 Sept 2002, 9:17 p.m.,
in response to message #1 by Scuba Diver

I purchased a new made-in-China HP 12C at Staples, and it is just fine. However, I had to return two before I got this one on the third try. The first two had serious defects in their key action. But Staples is gracious in accepting returns within 30 days.

I had a similar experience buying a slightly older made-in-Malaysia HP 12C on clearance at WalMart. The first one had a slight defect in the action of two keys, but the second one is excellent. Again, WalMart was good about exchanging.

Statistics can do funny things, and it is possible that 99.9% of the new HP 12C's have perfect key action even though 3 out of 5 in my experience were imperfect. But personally I would be hesitant to buy a new HP 12C from anyone who did not provide easy exchange in case of defect.

So far as I can see, the two that I am left with are of very high quality, perhaps almost as good as my 1982 made-in-USA HP 15C. Or maybe I am getting carried away ...

Re: The HP12C, a buyer's guide

Message #3 Posted by [Scoba Diver](#) on 14 Sept 2002, 10:00 p.m.,
in response to message #2 by Tom Sherman

Thanks Tom!

What sort of defects did you have in the calcs? Did the keys not function at all? Did they fail the keyboard test?

3 out of 5, not very good odds I must say, but I'm glad that you found two that function perfectly!

Brendan

Re: The HP12C, a buyer's guide

Message #4 Posted by [thibaut.be](#) on 15 Sept 2002, 3:59 a.m.,
in response to message #3 by Scoba Diver

Yes, indeed, it's difficult to find a correct 12C.

I own several of these. I purchased one here on a local auction side that I paid \$15 I think. It's a 86 USA made and though it has several scratches it's really solid and works perfectly. I'm using it on a daily basis.

I purchased one 2 years ago on ebay, when the 12C were far less popular, to a PhD. Advertised as mint, I was delighted to see that it had never been used and was very complete in its box, with the pink foam protect slip. Only the box showed shelf wear.

I do have several other 12c's NIB -unopened that are malaysian made, and these are far worse than my 2 other US makes. Though they are mint, the plastic is not as glossy and the key response seem far softer. I don't like the touch feeling of these, but at least I do have some stock should my other 12c fall apart... or should they reach "leoglyph's " prices on ebay !

Re: The HP12C, a buyer's guide

Message #5 Posted by [Tom Sherman](#) on 15 Sept 2002, 9:06 a.m.,
in response to message #3 by Scoba Diver

Brendan,

I didn't get as far as trying an official keyboard test. In fact, I would have to consult the manual to know what that is!

In the first Chinese calc, when I pressed the zero key I could get anywhere from no zeros to four or five depending on how I pressed the key -- or perhaps depending, from all I could tell, on which way the wind was blowing.

In the second Chinese calc, two other number keys gave trouble; I believe one of them was a seven, I forget the other. It was not quite as bad as the first.

As you may guess, by this time I was trying all keys of a new calc for function -- many times -- before accepting it. I would enter a succession of zeros, then ones, etc., clearing the display as necessary before continuing.

In the first Malaysian unit, the trouble was with the blue "g" shift key and the RCL key.

If I were not watching the display as I worked, I could feel the key click, but not necessarily have the function work, which caused me consternation in writing programs. The unit was workable, but not really acceptable -- at least from HP. When a prefix key of this sort is pressed, the display will blink when the key is effective; I could press the key, feel the spring, but have no response from the display, and find out that the g-shift or RCL function had not worked. Press the key a different way, and everything would work -- but there was not a reliable relationship between the spring feel and the working.

When I think back to my slide-rule days, to log and trig tables, etc., I can wonder at how spoiled I have become. Think what Ptolemy or Kepler could have done with any of the calculators that I took back! (though they would have preferred one with trig functions!) I would have given most anything in the 1950's to have had that lousy calc with the mis-firing zeros! But Hewlett Packard has led us to expect perfection, and we are disappointed when we no longer find it at first try.

Tom

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

I'm building a site about programming and using Eproms for HP-41

Message #1 Posted by [Emmanuel](#) on 14 Sept 2002, 3:34 p.m.

Hi there, I need all experiences, docs, materials (why not?), ... in order to build that site. Thanks!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-49 array indirect addressing

Message #1 Posted by [Karl-Ludwig Butte](#) on 14 Sept 2002, 9:52 a.m.

I have a problem with array indirect addressing: When I'm using direct addressing for the global array RTAB e.g. 'RTAB(1,2)' the contents of the cell in the first row/second column is pushed on the stack. But if I write 'RTAB(i,2)' with i=1 the whole term 'RTAB(i,2)' is pushed on the stack although Approximation Mode is active. What am I doing wrong, what do I need to do to get the value from the cell on the stack with indirect addressing and where can I get more detailed information about the different addressing modes ? Any hint is very much appreciated. Thank you very much in advance.

A solution for HP-49 array indirect addressing

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 15 Sept 2002, 9:27 a.m.,
in response to message #1 by Karl-Ludwig Butte

Hi;

In Aproximation Mode, (0,1) replaces 'i'. I tried what you mention and it worked fine with 'RTAB(I,2)' instead of 'RTAB(i,2)', being Aproximation Mode on OR off.

Let me know if you have success.

Cheers.

Re: A solution for HP-49 array indirect addressing

Message #3 Posted by [Karl-Ludwig Butte](#) on 16 Sept 2002, 2:18 a.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

Hello,

and thank you for your response. I experimented further and found out that the problem wasn't a capital letter or not for the index variable. Instead I found that 'RTAB(I,2)' must be followed by the command -> Num and I made the mistake not to place << immediately after the declaration of the index variable. Alas the full program isn't finished, yet. By the way, do you know if there is some documentation about the addressing modes somewhere in the Web ? If you're interested in further discoveries during this program development anyway, please let me know.

Kind regards

Re: A solution for HP-49 array indirect addressing

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 16 Sept 2002, 10:02 a.m.,
in response to message #3 by Karl-Ludwig Butte

Hi, Karl;

another possibility is using EVAL instead of ->NUM (that's what I used). In order to indirectly address to any element in any data array, that's the one option I know.

As I remember well, HP48 original literature (manuals) mention this "indirect" access to array elements as 'Using Arrays and Array Elements in Algebraic Expressions' (User's Guide, 14-12). I also remember that the HP48S/SX literature illustrated this sort of indirect access by using lists.

And yes, I am surely interested on this sort of subject. As you (and I) have discoveries/information about it, let's post them here.

Thank you. And best regards.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Calculator Simulations for Palm

Message #1 Posted by [Renato](#) on 14 Sept 2002, 4:20 a.m.

Some Palm-OS RPN calculators are available.

1. HP-12C simulator

<http://www.kktechnologies.com/kk-12c.html>

2. HP-41CX emulator

<http://www.berndabel.de/products/coconut/index.html>

3. HP-41CV emulator with roms

<http://www.palmgear.com/software/showsoftware.cfm?sid=34175820020914001146&prodID=40123>

4. Scientific Programmable, no specific model, but a true RPN

<http://www.creativecreek.com/mathupro.html>

5. HP-16C simulation

<http://www.palmgear.com/software/showsoftware.cfm?sid=34175820&prodID=40784>

Re: Calculator Simulations for Palm

Message #2 Posted by [Glen Kilpatrick](#) on 14 Sept 2002, 7:52 a.m.,
in response to message #1 by Renato

THANK YOU!

I'm hoping to get a used, low-end Palm from a friend, will investigate these.

Re: Calculator Simulations for Palm

Message #3 Posted by [Bill Hemphill](#) on 14 Sept 2002, 11:13 a.m.,
in response to message #1 by Renato

I am a registered user of both of the HP-41 Palm emulators. They both work great. The nice thing is I always have my Sony Clie with me and it gives me full access to the HP-41.

Bill Hemphill

Re: Calculator Simulations for Palm

Message #4 Posted by [Christof \(Davis, CA\)](#) on 14 Sept 2002, 8:58 p.m.,
in response to message #1 by Renato

I've seen this come up now and then and I wonder why people don't often mention RPN (the calculator)?

Nth lab (Russ Webb) makes it, and it's programmable, usable, has a easy to view stack, and generally rocks

<http://www.nthlab.com/>

It also has several function sets available via: <http://www.mew3.com/mew3/palm/rpn/>

there's another one titled RPN here, it's nice but not the same beastie:

<http://seul.org/~bergo/palm/rpn/>

now, why can't I find something like this for my jornada 720?!?! (H/PC is != P/PC and most wince calc software is P/PC *only*)

-Christof

RPN calc for H/PC

*Message #5 Posted by [Renato](#) on 15 Sept 2002, 3:18 a.m.,
in response to message #4 by Christof (Davis, CA)*

Have you tried <http://www.applian.com/hpc/CoolCalc/> ?

Renato

Re: Calculator Simulations for Palm - HP-Likeness

*Message #6 Posted by [Renato](#) on 15 Sept 2002, 1:37 a.m.,
in response to message #1 by Renato*

My goal with this thread is to gather simulations that are HP-like. So here is the collection, with my own HP-Likeness indication. Software authors take note: HP-Likeness is important!

1. HP-12C simulator

<http://www.kktechnologies.com/kk-12c.html>

Very faithful HP-12C simulation, including programming. Very clever and functional solution for simulating the voyager keyboard on the palm screen.

HP-likeness: 8 out of 10

2. HP-41CX emulator

<http://www.berndabel.de/products/coconut/index.html>

Very faithful HP-41CX emulation (uses HP-41CX ROM) - much better on color.

HP-likeness: 9 out of 10.

3. HP-41CV emulator with roms

[http://www.palmgear.com/software/showsoftware.cfm?
sid=34175820020914001146&prodID=40123](http://www.palmgear.com/software/showsoftware.cfm?sid=34175820020914001146&prodID=40123)

Not as faithful as coconut, but the author is working on it. Very interesting ROM modules management.

HP-Likeness: 7 out of 10

4. Scientific Programmable, no specific model, but a true RPN

<http://www.creativecreek.com/mathupro.html>

Does not emulate a real HP model, but creates a surprising level of likeness. Very interesting functionalities.

HP-Likeness: 8 out of 10.

5. HP-16C simulation

<http://www.palmgear.com/software/showsoftware.cfm?sid=34175820&prodID=40784>

Complete (as far as I know) functional simulation of 16c, but a keyboard like KK-12C would improve HP-likeness very much.

HP-Likeness: 7 out of 10.

6. Other RPN calcs

There are at least 6 other RPN, with very good functionality as a RPN calc for palm. As HP-likeness is below 5, I don't list them here.

Re: Calculator Simulations for Palm - HP-Likeness

*Message #7 Posted by [Glen Kilpatrick](#) on 15 Sept 2002, 10:52 a.m.,
in response to message #6 by Renato*

I wonder if there should be pointers for these in MoHPC. Nothing is quite so pleasing as those Java emulations (25 & 35), but these would seem to extend the range of choices considerably.

Re: Calculator Simulations for Palm - HP-Likeness

Message #8 Posted by [Renato](#) on 15 Sept 2002, 11:12 a.m.,
in response to message #7 by Glen Kilpatrick

MOHPC is THE place for simulator authors to show their work. Simulations on a color Palm or a P/PC are currently very pleasant. With some work, these will be more satisfying than the Java simulations. Why ? Because PC simulation is not portable.

Re: Calculator Simulations for Palm - HP-Likeness

Message #9 Posted by [Christof \(Davis, CA\)](#) on 15 Sept 2002, 11:25 a.m.,
in response to message #8 by Renato

I'm not sure I follow you. the only emulator I can currently use on my pda is a java based one. (not counting omnisolve, but omnisolve lacks a lot)

So, I'm finding Java to be quite portable, thanks :)

and for the java ones with source code available, it is perhaps possible that I will yet be able to modify them to work properly with the screen dimensions of my h/pc

Re: Calculator Simulations for Palm - HP-Likeness

Message #10 Posted by [Renato](#) on 15 Sept 2002, 11:36 a.m.,
in response to message #9 by Christof (Davis, CA)

Oops, sorry for my lack of precision about portability. Java is a portable language. Palm, H/PC and P/PC are portable devices.

A Java simulation on a pocket device is twice portable ;-)))

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP serial numbers

Message #1 Posted by [jose goncalves](#) on 13 Sept 2002, 4:53 p.m.

Ok, I can understand traditional HP serial numbers. But I cannot understand the new scheme for it, that was adopted lately. My brand new Indonesian HP-20S, for instance, is S/N ID82102556. I know that ID stands for Indonesia, OK. But what for the rest ? I'm sure it was not manufactured in 1982, nor in 2042. So ?

Any clues ?

Jose

PS. This one has the "traditional" gold-blue color scheme and not the "new" blue-purple or whatever scheme.

Re: HP serial numbers

Message #2 Posted by [Randy Sloyer\(US\)](#) on 13 Sept 2002, 5:51 p.m.,
in response to message #1 by jose goncalves

Consider yourself lucky that your "new" calculator was made in 1998. The new units are black with the awful(IMO)green and lilac keytops.

An explanation of the new serial numbers can be found here:

<http://www.hpmuseum.org/collect.htm#numbers>

Yours would have been built in the 21st week of 1998 and it was the 2556th unit produced that week.

Just for comparison, I checked my newest 20S purchased in May 2002: ID20201847. 2nd week of 2002. Pretty new. The green and lilac paint is still wet on the keytops...

Re: HP serial numbers

*Message #3 Posted by [jose goncalves](#) on 13 Sept 2002, 8:39 p.m.,
in response to message #2 by Randy Sloyer(US)*

Thanks, Randy

My other HP-20S is the ID10201302, then I understand that it was manufactured in the second week of 2001, in Indonesia also, right ? In fact, It includes a third emblem (?) - a big C - in the back cover, may be regarding some quality assurance agency or the like.

Jose

Re: HP serial numbers

*Message #4 Posted by [Randy Sloyer\(US\)](#) on 14 Sept 2002, 9:08 a.m.,
in response to message #3 by jose goncalves*

Yes, your decoding is correct.

I don't think we ever settled which regulatory agency the "check mark within the circle" emblem is from. There was a thread some time ago on the subject:

<http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/archv008.cgi?read=18598>

Re: HP serial numbers

*Message #5 Posted by [B-school](#) on 14 Sept 2002, 10:53 a.m.,
in response to message #3 by jose goncalves*

I have a 19BII made in 1996; the case has "Made in Indonesia" stamped on it yet the serial number reads 36XXBXXXXX.

Does that not mean that the machine was made in Brazil?

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

High consumption with hp48G

Message #1 Posted by [Didier](#) on 13 Sept 2002, 4:27 p.m.

I bought a calculator hp48G by EBAY. It works correctly in the exception that it empties my piles (batteries) in three days. How it's possible? HAVe you an idea? Thank Didier From Belgium

High consumption with hp48G

Message #2 Posted by [Emmanuel](#) on 13 Sept 2002, 4:42 p.m.,
in response to message #1 by Didier

Quel genre de "piles" ou "batteries" utilises-tu? Alkaline ou saline 1,5V dans le premier cas? Accus 1,2V dans le second?

Re: High consumption with hp48G

Message #3 Posted by [jose goncalves](#) on 13 Sept 2002, 4:47 p.m.,
in response to message #2 by Emmanuel

Monsieurs !

I´m sure we have HP maniacs from all over the world. I can read your French, but may somebody else cannot. Use the English language, please !

Regards

Jose

Calc is defective. Return it to seller.

Message #4 Posted by [Raymond Hellstern \(Germany\)](#) on 13 Sept 2002, 6:15 p.m.,
in response to message #1 by Didier

Hi,

I'd return the calc to the seller immediately!

The massive battery drain is typical for an HP-48 if someone put the batteries in with the wrong polarity. You can consider the calc as defective, since in fact at least one electronical element (a zener diode) has burnt.

So if you're sure you didn't do this you should return it to the seller.

Raymond

Re: Calc is defective. Return it to seller.

Message #5 Posted by [Didier](#) on 14 Sept 2002, 4:06 a.m.,
in response to message #4 by Raymond Hellstern (Germany)

I used piles alkaline, actually I use batteries given the consumption. Raymond is probably right. However the salesman do not answer obviously any more. I should thus find the right diode myself. Thanks

Re: Calc is defective. Return it to seller.

Message #6 Posted by [James](#) on 15 Sept 2002, 10:49 a.m.,
in response to message #5 by Didier

Just put it on ebay and sell it to some other unsuspecting bastard. Don't let it be your loss. Pass it on to someone else.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Voyager accessories

Message #1 Posted by [Ellis Easley](#) on 13 Sept 2002, 11:13 a.m.

I thought there was a recent post looking for battery cover and slip case for a Voyager, stating that they were no longer available through the HP website - I can't find the post now, but I went to HP Parts Direct to see what I could find. The 12C no longer shows up in the "Partsurfer" which is used to find part numbers for a particular model. The 48G does show up. Then I went through a stack of postit notes on my table because I remembered looking up some HP parts in the past, and if I knew the P/N I could skip the Partsurfer. Well, it turned out the P/N I had was for the Pioneer slipcase. Just for fun, I tried putting my 12C in a Pioneer slipcase and it fits great! The slipcase is just about 10mm too long and the notches that let you grip a Pioneer to pull it out allow the opening to flare out a little to let you grip the Voyager. Maybe HP had this in mind?

So I entered the P/N 82243-60001 into the parts order system:

<https://parts.direct.hp.com/ShopForParts.asp>

and it shows out of stock but lets me order it. Best of all, the price is \$3.40 - it had been \$6.00. However, when I placed the order, there was a shipping charge of \$12.67! It used to be that all prices included shipping. So - no order. (Maybe I told the story of my \$0.11 FedEx shipment too many times!)

But, if anybody has part numbers for the Voyager battery cover and slipcase, we could try them at the website above to see if they are still available.

The thread was "HP1XC accessories"

Message #2 Posted by [Ellis Easley](#) on 13 Sept 2002, 11:19 a.m.,
in response to message #1 by Ellis Easley

- and was posted by Adrian on 6 Sept. 2002

"HP1XC accessories" (+ HP82240B)

*Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 13 Sept 2002, 5:52 p.m.,
in response to message #2 by Ellis Easley*

Hi;

I'm not sure this subject is the same, but I believe it's sort of a reference.

I visited e-Bay for an announcement about Voyager's battery cover. The saler mentioned the fact it was new, never before used. At the time I saw it, it was about US\$ 9.00. I thought it was too expensive, but what the h... If my Voyager is without that conver, what to do?

One question: is the 82240B still under production? Just to know...

Thanks.

Re: "HP1XC accessories" (+ HP82240B)

*Message #4 Posted by [Randy Sloyer\(US\)](#) on 14 Sept 2002, 11:53 a.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)*

The last time I contacted Hp directly (about a two months ago), to get some new thermal paper rolls for mine, the women I spoke to in the parts group said that the 82240B had been discontinued, along with the thermal roll paper. This would make sense as all the calculators that it is compatible with have also been discontinued.

She then went on to give me the obvious solution to the paper problem: Any 2 inch thermal paper is okay for the 82240A/B. Blue, black, whatever you can find she said. An answer from the Hp parts department that saved me some money!

There have been some new, in box units on eBay lately. I think they have been going for about half the retail price of \$130.

Re: "HP1XC accessories" (+ HP82240B)

*Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 14 Sept 2002, 12:36 p.m.,
in response to message #4 by Randy Sloyer(US)*

Hi;

Tnahk you, Randy; I was not known about this.

But both HP17BII and HP19BII still have IR output, and this is an IR output only, intended just for the HP82240B. And they are still (for how long?) in production.

That's why I asked about this: I was afraid it was discontinued, but HP still announces it in both manuals.

Re: "HP1XC accessories" (+ HP82240B)

*Message #6 Posted by [Randy Sloyer\(US\)](#) on 14 Sept 2002, 7:32 p.m.,
in response to message #5 by Vieira, Luiz C. (Brazil)*

The 17BII was been discontinued many months ago. I am not certain the current status of the 19BII. I suspect it will be history soon as well, if not already. There are still a few sites on the web where you can still find new 17BII's for about \$100.

It is a true shame that they continued to produce the 17BII and discontinued the 42S so long ago, as only the keytops, aluminum bezel and rom are different. They even shared the same circuit board. I guess Hp didn't want to cannibalize 48 sales with the 42 still around. That's one way to increase the market share for a product - just eliminate its only competition!

Re: "HP1XC accessories" (+ HP82240B)

*Message #7 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 14 Sept 2002, 9:07 p.m.,
in response to message #6 by Randy Sloyer(US)*

Hi;

once again, thank you, Randy; I based myself in the www.hp.com/ calculators/ information. Both - HP17BII and HP19BII are shown there as available. People at hP are not taking care even for updating their calculators' page. What to do?

Best regards.

Re: "HP1XC accessories" (+ HP82240B)

*Message #8 Posted by [Randy Sloyer\(US\)](#) on 15 Sept 2002, 8:53 a.m.,
in response to message #7 by Vieira, Luiz C. (Brazil)*

While the units appear in the Hp web site, you cannot buy them from Hp directly. They will refer you to their dealer network as they are no longer in stock at Hp.

For an example of this, go to the 12C. You will find a price listed and a link to "Buy On Line". This takes you to the Hp Direct Shopping. You will no have such luck with the 17 or 19.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP Numbers

Message #1 Posted by [Matthias Wehrli](#) on 13 Sept 2002, 6:43 a.m.

Does anyone has a "complete" list with all HP82xxx items? I'm going to list up all items, but if there is still a list I will save the time....

Matthias

Re: HP Numbers

Message #2 Posted by [Chris Catotti \(Florida\)](#) on 13 Sept 2002, 9:05 a.m.,
in response to message #1 by Matthias Wehrli

I have a Microsoft Excel spreadsheet that has a lot of part numbers. I have tried to number all manuals in all languages with their HP part numbers. Where HP Part Numbers do not exist, I try to number them with EduCALC Catalog Part Numbers. I could email this, or within a week I could put it up on the web for downloading (I think).

Re: HP Numbers

Message #3 Posted by [Gordon Dyer](#) on 14 Sept 2002, 6:20 a.m.,
in response to message #2 by Chris Catotti (Florida)

Put your parts list on the web , I am sure lots of people would be interested and you just might get some feedback on missing numbers.

Re: HP Numbers

Message #4 Posted by [Matthias Wehrli](#) on 14 Sept 2002, 7:24 a.m.,
in response to message #3 by Gordon Dyer

The list is on the web now... feel free to download and to send me additions or corrections...

<http://www.hp-collection.org>

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

On more question about 82120A HP41C battery pack repair.

Message #1 Posted by [Frédéric ALBERT \(from France\)](#) on 12 Sept 2002, 9:50 a.m.

Hello,

Today is a great day for me because I decided to try to repair an 82120A battery pack for my 22 years old HP41C. Alas, at the moment of the breakdown due to a leakage of the cells many years ago, I dismantled the pack in a rude way. Today my problem is that I have gathered the different parts, I mean:

- The case in two parts that I think I will be able to glue back together,
- The connector or plug: it is a three contacts plug with the middle contact for a switch (I don't know if this switch is useful and/or used)
- Two small hooked leaves: I think that they are useful for the contact with the calculator
- And the internal board with no external connection (alas I have cut all the wires !!!!!)

The problem is I have absolutely no idea about the connection between the plug and the board (where to connect the two AC entries from the charger block on the board. And if the switch is used and so connected but where????) And where and how to connect the battery cells.

I do not have anymore the old cells. I do not know which size of cell to use ($\frac{1}{2}$ N or 1/3AAA). I do not know which type of cell to use (does this "old" board support NiCad or NiMh or another.).

I suppose (but it is a supposition) that the cells have a voltage around 1.5 volts so I suppose that they are chained.... But are the intermediate points connected to the board, or is the board only connected at the two ends of the chain of cells????

Does anyone have an electrical schema of this board and of the whole battery pack?

I can send by mail images of the two face of the board, if someone can help me.

Many question for an operation I would like to be a success, because I wouldn't like my loved old HP 41C purchased in April 1980 to die sniff.

I have read plenty of threads and articles on this forum, but I haven't seen any schema of the 82120A battery pack.

Any help, any advise, any link on forum's thread or other site, will be really greatly appreciated. On this forum or directly by email.... especially if explanations could be given in French (you may have noticed that it is my mother's language and the reason of my poor practice of English [I do not tell you how many time and translator accesses I have had to do to write this message]).

Regards

Frederic

PS: my next step, after the success I hope, will be to repair my old card reader (to be used with my new battery pack!!!!). By the way does anybody know what is the translation of O-ring in French???

On more question about 82120A HP41C battery pack repair.

Message #2 Posted by [Hugo \(Belgium\)](#) on 12 Sept 2002, 10:10 a.m.,
in response to message #1 by Frédéric ALBERT (from France)

i can only help you with the translation: an o-ring in french should be "joint torique": <http://www.dassault-aviation.com/corporate/information/dictionnaire/liste.cfm?libelle=J>

salutations, Hugo

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

O-rings for HP41 Card Reader repair

Message #1 Posted by [Hugo \(Belgium\)](#) on 12 Sept 2002, 9:04 a.m.

thank you, MoHPC!! Being an enthousiastic HP Calculator user for over 20 years i am very happy to have found this website. With all the information i found here, i have been able to repair my card reader which has been ten years in a drawer! (-the cards would'nt get through anymore...).

I want to post this to the forum because apparently there is some confusion regarding the type of O-rings in the Article N°57 of Dave (an article in the Articles Forum). I found out that the type 006 O-rings are in fact the same as the english 1/4" OD - 1/8" ID. The 006 type has 2.9 mm ID and a rubber thickness of 1.78 mm, what makes an OD of $2.9 + 2 * 1.78 = 6.46$ mm. Here you can find more info on O-rings: <http://www.marcorubber.com/sizingchart.htm>

In Tienen (Belgium) i could only find a metric O-ring size "01" of OD 6 mm and ID 3 mm which also works fine!

regards, Hugo

Re: O-rings for HP41 Card Reader repair

Message #2 Posted by [thibaut.be](#) on 12 Sept 2002, 12:11 p.m.,
in response to message #1 by Hugo (Belgium)

Where did you find your rings ?

O-rings for HP41 Card Reader repair

Message #3 Posted by [Hugo \(Belgium\)](#) on 13 Sept 2002, 3:02 a.m.,
in response to message #2 by thibaut.be

Found them at a local car repair center, BVBA Brems, Ambachtenlaan 28, 3300 Tienen (see <http://www.brems.org> at a price of 0.20 €/piece (they only have a small stock!). These were the smallest rings available. regards,Hugo

Re: O-rings for HP41 Card Reader repair

Message #4 Posted by [thibaut.be](#) on 13 Sept 2002, 3:56 a.m.,
in response to message #3 by Hugo (Belgium)

Bedankt !

(thanks!)

Re: O-rings for HP41 Card Reader repair

Message #5 Posted by [David Smith](#) on 12 Sept 2002, 5:36 p.m.,
in response to message #1 by Hugo (Belgium)

Actually 006 o-rings tend to be a bit too big. Size 005 is better. Some 005's are 15/64" OD, others are 7/32". I think the 15/64 are probably ideal... but I much prefer the silicone rubber tubing.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 67/97 "Trick" Cards Warning for HP-97 Users

Message #1 Posted by [Dan M \(Vermont, USA\)](#) on 12 Sept 2002, 8:31 a.m.

HP-97 Users, please take note of the following:

The program under label "A" of the card labelled "Seasons Greetings" will ****print**** the special NNN's on the printer. (PRST Command)

It has been mentioned several times that printing these on the HP-97 will cause permanent and unrepairable damage to the printer head.

So.... be careful out there! And be aware of the potential damage from this program.

The program under label "E" of the same card will just display the special characters and not print them out.

For those without it, here's what the program tells us (it looks better in red led)...

```
"o o o o o" "8E dEC 25" "o 9lod do4" "oll do4" "o o o o o" "8E 1977" "o 900d" "4Eor" "oll 4Eor"
"90d 81E55" "o o o o o"
```

And if you can understand that you can appreciate 26 years of technology growth and deserve to have that new HP67CX appear in your Christmas stocking.

Dan

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

What is Speed Machine Pac Module??

Message #1 Posted by [Iqbal](#) on 11 Sept 2002, 11:48 p.m.

For the HP41CX.

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1380202486>

Re: What is Speed Machine Pac Module??

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 12 Sept 2002, 4:14 a.m.,
in response to message #1 by Iqbal

Hi, Iqbal;

Follow this thread. If the Speed Machine Pac is the same as the Speed Machine II mentioned by Emmanuel, I believe (as I was also a bit lost at a first glance) that there a little misunderstanding about what is this module for.

Best regards.

Re: What is Speed Machine Pac Module??

Message #3 Posted by [Chris Catotti \(Florida\)](#) on 12 Sept 2002, 9:16 a.m.,
in response to message #1 by Iqbal

I believe the RACETRACK and SPEED MACHINE II modules were Horse Race Handicapping modules. I have both ROMs, the overlays for SPEED MACHINE II, and one manual (Speed MACHINE II, I think) in my collection. If you have any specific questions, I could check the ROMs or look at old EduCALC Catalogs.

Re: What is Speed Machine Pac Module??

*Message #4 Posted by [Bill Hemphill](#) on 12 Sept 2002, 3:46 p.m.,
in response to message #3 by Chris Catotti (Florida)*

Just looked at the 1985 EduCalc Catalog, Issue #29.

On Page 7:

Speed Machine II is Horserace Handcapping Program. "Tells you when and how to bet to maximize your returns on every dollar - combines fractional and final race times to select the top 4 horses in each race and tells you under what circumstances and at what odds to make your bet."

Bill Hemphill

I forgot to post the thread's #...

*Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 12 Sept 2002, 4:57 p.m.,
in response to message #1 by Iqbal*

Here goes:

<http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/forum.cgi?read=21715>

I believe Emmanuel will have some more info.

Cheers.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

How to rebuilt a 9114 Battery pack

Message #1 Posted by [Matthias Wehrli](#) on 11 Sept 2002, 1:12 p.m.

Does anyone knows hwo to rebuilt a 88014A (battery pack) for my 9114A/B? In both drives I have bytteries, that shows a nearly empty status.. Where can I buy new Inserts (Mine is a Panasonic Lead-acid LCR-226P)

Matthias

Re: How to rebuilt a 9114 Battery pack

Message #2 Posted by [Ellis Easley](#) on 11 Sept 2002, 3:05 p.m.,
in response to message #1 by Matthias Wehrli

Use three Gates Cyclon 2.5 A-H ("D" size) cells.

Re: How to rebuilt a 9114 Battery pack

Message #3 Posted by [David Smith](#) on 11 Sept 2002, 6:05 p.m.,
in response to message #1 by Matthias Wehrli

Powersonic and several other people make direct replacements for the old Panasonic battery. It is a fairly common battery used in a lot of medical and other equipment. Replacements should cost less than \$15.

There are replacements

Message #4 Posted by [Mike](#) on 11 Sept 2002, 11:30 p.m.,
in response to message #1 by Matthias Wehrli

I have replaced these. You can get almost direct replacements online. Do a search on "lead acid" batteries and look for a cross reference.

If you can't find the replacement, find someone selling a good supply of lead acid and ask them.

I got mine that way.

Try this place - There are others

Message #5 Posted by [Mike](#) on 11 Sept 2002, 11:34 p.m.,
in response to message #1 by Matthias Wehrli

Send them an email with the battery number you have. Get the dimensions of the battery and try to find a match.

<http://www.batterycountry.com/ShopSite/sealed-lead-acid.html>

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 42 S flaking out

Message #1 Posted by [Edi von Engeln](#) on 11 Sept 2002, 10:16 a.m.

Recently my 42S started "flaking out". 1) The self test says okay but periodically instead of going to sleep it starts beeping steadily and then it resets the machine 2)after a delay in keystrokes I think that the decimal point or some series of key strokes with the decimal point also imitates a machine reset. Any ideas?

Perhaps some cleaning of contacts would work if I could open it

Re: HP 42 S flaking out

Message #2 Posted by [Randy Sloyer\(US\)](#) on 11 Sept 2002, 10:23 a.m.,
in response to message #1 by Edi von Engeln

Are the batteries fresh? Are you able to check the voltage of the 3 battery stack during operation? Anything below 3.8 volts and you will have trouble, maybe sooner. I have found the battery annunciator to not be a reliable indicator of battery condition.

A liquid spill in the keyboard may cause this behavior as well. Coffee, cola and others would certainly make a mess of things.

HP42S Not Working

Message #3 Posted by [Don Keller](#) on 19 Sept 2002, 10:40 a.m.,
in response to message #2 by Randy Sloyer(US)

The batteries went dead, and I didn't replace them even close to right away. It was probably 6 months later that I decided to replace the batteries. Now, after replacing the batteries, I turn it on and get all the pixels in the display are 'on'. Any buttons I press, results in a beep. I've tried the self test - beep. I've tried the reset - beep.

Is it a lost cause?

Thanx, Don

Re: HP42S Not Working

Message #4 Posted by [Randy Sloyer\(US\)](#) on 20 Sept 2002, 10:43 a.m.,
in response to message #3 by Don Keller

The beep means at least the processor is running but perhaps the ROM fails checksum?

Anybody know for sure?

Could it be a bad battery? I would check them if you can.

Never give up...

Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 21 Sept 2002, 6:52 p.m.,
in response to message #4 by Randy Sloyer(US)

Hi;

have you already tried to briefly (a lot briefly) shorten the batteries' terminals? Get a little piece of conductive metal, preferably a wire OR a thin paper clip. Carefully remove the batteries' cap. WITH THE BATTERIES INSIDE THEIR COMPARTMENT, briefly (a lot briefly) shorten the batteries' terminals. Keeping the batteries there will NOT ALLOW voltage to go upper than the 4.5 Volts. Place the cap back.

Whatever happens, let us know.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Saturn Processor documentation

Message #1 Posted by [Randy Sloyer\(US\)](#) on 11 Sept 2002, 6:14 a.m.

Does anyone know where I can find the Saturn processor documentation that has been on the web?
This link:

<http://www.ucalgary.ca/~mmastrac/saturn.doc>

seems to be everywhere as the source, but it is broken. I found a spanish version here:

<http://adictoshp.aforo.com/hp48/doc/saturn.zip>

but I'm looking for the same in english.

Thanks!

Re: Saturn Processor documentation

Message #2 Posted by [Christoph Giesselink](#) on 11 Sept 2002, 6:48 a.m.,
in response to message #1 by Randy Sloyer(US)

You can find a copy of it at

<http://www.hpcalc.org/hp48/docs/programming/saturnd.zip>

like many other things. TNX to Eric.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

futile inquiry.....

Message #1 Posted by [J Tiers](#) on 11 Sept 2002, 12:09 a.m.

The very nice HP 41 repair manual refers in large part to a test module, and other special test gear which naturally is not available anywhere. Equally naturally, you need it to diagnose effectively and easily, unless maybe you have detailed design info of the calculator.

Since the module consisted apparently of a program rom and possibly other logic parts, it clearly could be made, given information. So could any other test fixture.

Has anyone ever come across information sufficient to construct and program these items? Or found one surplused out by HP (hah)?

Re: futile inquiry.....

Message #2 Posted by [Chris Catotti \(Florida\)](#) on 11 Sept 2002, 5:24 a.m.,
in response to message #1 by J Tiers

I do not have the diagnostic ROM, but it does exist. A friend used to have a copy of the ROM image loaded in an EPROM Box. The ROM uses the control code that is also used in the AUTOSTART/DUP ROM. That is it runs immediately when you turn the HP-41 on.

Diagnostic ROM

Message #3 Posted by [Emmanuel](#) on 11 Sept 2002, 4:09 p.m.,
in response to message #2 by Chris Catotti (Florida)

I use a W&W 32K RamBox with the Diag' Rom at page 4 (configure the switches then). It works fine! I have a "hand made" 4K Eeprom Box which needs a couple of 2716 and 2732 Eeproms. I think I have somewhere files in order to burn them. ;o))

Diagnostic ROM (addendum)

*Message #4 Posted by [Emmanuel](#) on 11 Sept 2002, 6:04 p.m.,
in response to message #2 by Chris Catotti (Florida)*

Switches:

ON 2 OFF 1 3 4 5 6 7 8

OFF 1 2 3 4 5 6 7 8

OFF 1 2 3 4 5 6 7 8

Turning on the calculator gives: CPU OK and later: SELECT CPU

Key "-" show the Rom version (for instance it's a 41CX): ROM 0:N 1:F 2:L

Key"A": KYBOARD TEST

Key"B": KEYCODE TEST

...

Re: futile inquiry.....

*Message #5 Posted by [David Smith](#) on 11 Sept 2002, 6:11 p.m.,
in response to message #1 by J Tiers*

Actually the diagnostic module is not all that useful. If the system does not work at all the module will be useless. If it does, the ROMS are almost always good (if you have the card reader run the HP97 diagnostic program). The system does a quick RAM check when it turns on to size the system RAM. If you don't have what you're supposed to, a RAM chip is bad). Generally just exercising the machine will tell you all you need to know.

I test the keyboard by going into alpha mode and pressing each key three times. Erase the string when the buffer fills up and keep going.

Thanks. I suppose

*Message #6 Posted by [J Tiers](#) on 13 Sept 2002, 10:29 p.m.,
in response to message #5 by David Smith*

the thing wouldn't be much help for a dead unit like mine.

But, for a unit that has an "issue" I can see it might improve diagnosis to the component or module level..

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

New HP41CX from England???

Message #1 Posted by [karl gruber](#) on 10 Sept 2002, 11:42 p.m.

Does anyone have the story behind the flood of new HP41CXs for sale on Ebay? I'll bet there has been thirty in the last three weeks. Best,

Karl

Re: New HP41CX from England???

Message #2 Posted by [Steve Kersey](#) on 11 Sept 2002, 6:38 a.m.,
in response to message #1 by karl gruber

I purchased one of these HP41CX calculators directly from Laurence Carr at Classic Calculators. It was as advertised. Inside the box it is perfect. The box itself is not damaged but is a bit dirty, as if it's been on a shelf in a stockroom. I paid US\$399.00 including shipping and handling from the UK to my home in the USA.

Re: New HP41CX from England???

Message #3 Posted by [Laurence Carr](#) on 11 Sept 2002, 3:10 p.m.,
in response to message #2 by Steve Kersey

HI

I have sold quite a few of these units but not on ebay. I bought a batch from a guy who got them from an auction (real live auction, not ebay!), possibly in Scotland. A couple of other people also bought batches and are selling them off on Ebay. I dont know how many units became available in total. This is very much a "one off" as someone sold off a batch of old stock.

Personally I suspect they may have come from the old HP South Queensferry division in Scotland, maybe they were sitting in a basement there for 15 years??

Most of my units have already been sold, mostly to actual users rather than collectors, with

a very high number of surveyors and engineers buying them to replace old failing 41CX units. many users were very happy to be able to replace a unit that was maybe 20 years old with something that has never been used.

Most of the pictures you see on EBAY are pictures I took of one of my units, but i did give permission to one other seller to use these images, One or two others are using these images without permission (but I dont think Ill bother to do anything about it)!

What amazes me is that I could have sold these units 2 or 3 times over based on my feedback, They seem to attract a very loyal and committed following.

I still have some left but Im holding on to them for a while in case any of the units I sold develop a fault and I need to send a replacement (30 day warranty!) If all goes well I will sell the remainder in a few weeks.

I will be at the HPCC meeting in London if anyone wants to discuss this face to face.

Laurence Carr

Market for Cals

*Message #4 Posted by [Renato](#) on 14 Sept 2002, 1:38 a.m.,
in response to message #3 by Laurence Carr*

This event, and the 42S replacement units event (old HP stock sold on the HP on-line store), led me to state:

- 1- There is a market for small, powerful RPN calculators. This is a worldwide market, and customers are very loyal.
- 2- The web is a appropriate channel for reaching this market - it reaches a significant part of the market, very fast, with low upfront investment, and low operational cost.

So what ?

Well, where are the marketing geniuses ? Will they invest only on their own ideas, or will they just figure facts and act accordingly.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Is the ZENROM .rom image in the public domain

Message #1 Posted by [Steve Kersey](#) on 10 Sept 2002, 11:03 p.m.

I'm interested in trying HrastProgrammer's 41C emulator for the 48GX. He suggests having the ZENROM image loaded in with it. Does the 41C ZENROM exist as a .rom file in the public domain?

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

\$265 for a 28S

Message #1 Posted by [Scuba Diver](#) on 10 Sept 2002, 10:18 p.m.

Anyone been on eBay lately?

A 28S went for \$265 today...another one is at \$156...

Dave, I think it's time to update your "Collectors Corner" chart...

And if anyone has a few 28Ss sitting around, this may be a good time to unload them...maybe you could use the proceeds to buy that Porsche you've always had your eye on :)

B.

\$718 for a 25

Message #2 Posted by [Nenad Vulic \(Croatia\)](#) on 11 Sept 2002, 2:30 a.m.,
in response to message #1 by Scuba Diver

Have not seen it on eBay or elsewhere yet, but I always have one 25 to offer... :)

Re: \$265 for a 28S

Message #3 Posted by [Raymond Hellstern](#) on 11 Sept 2002, 5:21 a.m.,
in response to message #1 by Scuba Diver

Hi,

as I said in a similar thread, I think the buyer was a newbie, or the auction was not clean. An 28S isn't really rare. A price in that dimension could only make some sense if the machine is NEW IN BOX, and sealed, of course. And the box must be in perfect shape.

Used or incomplete 28S's are relatively common, at least in Germany.

Regards,

Raymond

Re: \$265 for a 28S

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 11 Sept 2002, 7:14 a.m.,
in response to message #3 by Raymond Hellstern*

Hi;

Raymond wrote:

"...or the auction was not clean."

I did never bid in any auction, and I do not know the rules. When you mention a "clean" auction you are referring to an auction that has not been arranged? I mean, an auction where bids are previously arranged so the price of the object in the auction rises fast? If so, I can find a couple of friends and make an arrangement with them and try to sale something for as many times as I can till I reach the price I want?

That's disgusting!

Re: \$265 for a 28S

*Message #5 Posted by [gifron](#) on 11 Sept 2002, 1:20 p.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)*

It's also very illegal.

Re: \$265 for a 28S

*Message #6 Posted by [Ellis Easley](#) on 11 Sept 2002, 3:14 p.m.,
in response to message #5 by gifron*

But like many scams, a person can't be cheated in an auction without cooperating with the scammers by bidding more than the item is worth.

Re: \$265 for a 28S -This is just a guess

Message #7 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 11 Sept 2002, 3:56 p.m.,
in response to message #5 by gifron

Gifron wrote:

"It's also very illegal."

Is there a way to identify such an occurrence?

I imagine this situation: I have some friends and they are authorized to raise any offer and bid as much as need to get my objects. A few days later, the supposed buyer will post the same objects to be auctioned again, and that's someone else's turn to raise their prices. And this goes on and on until someone else (not one of my friends) bids over the expected value; at this moment, the others (my friends) will no longer bid. Done: I got my object sold, their prices are too high, other owners will be happy because now their own objects are more valuable, too.

Let's change "objects" for "Hewlett-Packard calculators", and let's announce these auctions in a very well known site (among others, of course; but let's take one of the best), where people deal with Hewlett-Packard calculators very often, so the announcements will be read by as many people as the ones that visit THE site...

Sci-Fi ???!!???... Am I too wrong? Please, if there is something wrong in this analysis, let me know. And I cannot see a way to detect these maneuvers and verify if they are legal or not.

(I still feel it as disgusting...)

Re: \$265 for a 28S -This is just a guess

Message #8 Posted by [Ellis Easley](#) on 11 Sept 2002, 4:28 p.m.,
in response to message #7 by Vieira, Luiz C. (Brazil)

I'm no lawyer so I don't know how "shilling" is defined legally but I imagine it is in the general classification of fraud. Proof would be if the "shill" (bid raiser) could be shown to sometimes not actually purchase the item from the seller (just bid high to influence future auctions of the same or same type items), however such a transaction would still require the seller to pay a commission to the auctioneer. Ebay rules outlaw shilling but as has been pointed out here, Ebay rules do much more to protect sellers than buyers.

I have heard of cases where people have sold land back and forth several times to artificially raise the price.

The universal rule in all commerce is "let the buyer beware". Desire and lack of knowledge cause people to pay more than things are worth. The words "rare" and "vintage" have probably caused a lot of inflated prices.

I'm getting tired of Ebay because of sellers who don't know how to pack things for shipment. Some people buy something for a dollar and sell it for a hundred dollars, then pack it like it's only worth a dollar.

Re: \$265 for a 28S -This is just a guess

*Message #9 Posted by [Scoba Diver](#) on 11 Sept 2002, 7:23 p.m.,
in response to message #8 by Ellis Easley*

Well, I don't know if it was a co-ordinated effort, or if the buyer was simply under duress, but they could tell that they overpaid simply by doing a search on completed auctions. I think that every 28S went for under \$100 US.

Although it did come with two books, both of which are available on Dave's CDs...

That reminds me of a time I was in Future Shop (the Canadian version of Best Buy...actually Best Buy just bought them!) and a salesman was selling an insanely obsolete machine to a customer; the reason that this was better than the new machines was because it came with a "Wordperfect keyboard template".

Oh well, I digress. Far be it from me to judge; for all we know, the guy borrowed a friend's 28S and then broke it...maybe it was worth \$265 US to replace it...but I think it's sad when people pay outrageous prices for something.

Brendan P.S. The guy who "won" the auction was also bidding on another 28S, so I doubt that this auction was staged.

Re: \$265 for a 28S -This is just a guess

*Message #10 Posted by [gifron](#) on 12 Sept 2002, 1:24 a.m.,
in response to message #8 by Ellis Easley*

Nor am I a lawyer, but I am an auctioneer. Bid rigging by either the seller or the bidders amounts to "restraint of trade" by artificially controlling prices (yes, I know the government does this sometimes), which is usually a violation of the Sherman Antitrust Act, a law dealing with interstate commerce. Though it is conceivable that a case can arise to which absolutely no interstate commerce can be attached, with today's interconnectedness, this generally is not the case - Especially on a venue like eBay, where the bidders and sellers are from all over the country.

But as pointed out, without having a specific target, it's very difficult to catch bid riggers. And of course, no one wants to go to the trouble and expense, unless they're cheated out of a significant amount of \$\$\$\$. Bummer...

Re: \$265 for a 28S -This is just a guess

*Message #11 Posted by [David Smith](#) on 12 Sept 2002, 5:41 p.m.,
in response to message #10 by gifron*

The fine print on Ebay specifically claims that legally they are NOT an auction... just a name-your-own-price service. I don't know what this has on the legal aspects of auction bid-rigging laws, but I would assume some big bucks lawyers could have a field day duking it out.

This is getting even better...

*Message #12 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 12 Sept 2002,
8:05 p.m.,
in response to message #11 by David Smith*

Hi, David;

as I mentioned before, I have never participate in any e-Bay "auction", but it seems to me you have opened the door for a very serious subject in here.

Wow!

Cheers.

Re: \$265 for a 28S -This is just a guess

*Message #13 Posted by [gifron](#) on 13 Sept 2002, 12:33 p.m.,
in response to message #11 by David Smith*

Well, I don't think eBay would be liable for bid rigging - Just the sellers and/or bidders.

Re: \$265 for a 28S

*Message #14 Posted by [Gordon Dyer](#) on 14 Sept 2002, 6:35 a.m.,
in response to message #1 by Scuba Diver*

I am convinced that this web site is directly responsible for the hyperinflation of HP calculators, it arouses too many fond memories and new interest!

Its a good thing if you already have a collection but a big problem for us enthusiasts who would like to buy some more....

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

RAM Cards

Message #1 Posted by [chapotito](#) on 10 Sept 2002, 9:27 p.m.

What kind of RAM are the ramcard that the HP48*X uses. I have a 4 meg DRAM for a Velo I was wondering if there is a way to weld it on the board like the 512 kb chips people do.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

NIB HP-19BII calcs \$129.95 at Fry's/Sunnyvale, CA

Message #1 Posted by [Bill Wiese](#) on 10 Sept 2002, 8:41 p.m.

Folks...

Dunno if anyone cares, but there's 8 to 10 new, boxed, HP19BII (the folding biz version of HP28) calcs at Fry's Electronics in Sunnyvale, CA. Don't think these are still in production...

Bill Wiese San Jose, CA

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

You're not the only one Dave!

Message #1 Posted by [Chris Randle \(UK\)](#) on 10 Sept 2002, 5:18 p.m.

<http://www.pocketpcthoughts.com/forums/viewtopic.php?t=3399>

HE DESERVED THAT! (one of the best images I've seen...)

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Sept 2002, 5:27 p.m.,
in response to message #1 by Chris Randle (UK)

Thank you, thank you Chris!

I laugh a lot! Very, very good!

Cheers.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

ROM/EPROM board for HP94

Message #1 Posted by [Watchdog](#) on 10 Sept 2002, 3:11 p.m.

FYI, a ROM/EPROM board for HP94 on eBay <http://cgi.ebay.fr/ws/eBayISAPI.dll?ViewItem&item=1765315202&rd=1> (I'm NOT the seller)

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

hp-12c

Message #1 Posted by [Gil](#) on 10 Sept 2002, 1:59 p.m.

How do I change the digit separator display from a comma to a period (from 1,22 to 1.22).

12c decimal point to comma (FAQ?)

Message #2 Posted by [Gene](#) on 10 Sept 2002, 2:29 p.m.,
in response to message #1 by Gil

Turn the 12C off.

Press and continue to hold down the decimal point key.

While continuing to hold down the decimal point key, turn the calculator on.

Quit holding the keys and you have switched it to comma mode if it was in decimal point mode, or decimal point mode if it was in comma mode.

Re: decimal point to comma - All Voyagers

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Sept 2002, 3:15 p.m.,
in response to message #2 by Gene

Just to add this info...

Re: 12c decimal point to comma (FAQ?)

Message #4 Posted by [Michael Gauss](#) on 24 Sept 2002, 4:26 p.m.,
in response to message #2 by Gene

Gene - thank you. I have been stuck in comma mode for over a year.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

User's manual for CCD module for HP-41

Message #1 Posted by [Mark Villarino](#) on 10 Sept 2002, 1:42 p.m.

I have a CCD module for the HP-41 that came with the user's manual in German. I am in search of the manual in English. Would anybody know if a scan could be downloaded or a copy be located?

I can be contacted at markv@spectrumchemical.com

Thanks, Mark V.

User's manual for CCD module for HP-41

Message #2 Posted by [Emmanuel](#) on 10 Sept 2002, 1:45 p.m.,
in response to message #1 by Mark Villarino

Hello Mark, I have the user's manual in German but the QRG in English. I can scan it. Please wait.

Re: User's manual for CCD module for HP-41

Message #3 Posted by [Chris Catotti \(Florida\)](#) on 10 Sept 2002, 2:37 p.m.,
in response to message #2 by Emmanuel

I have original English and German User Manuals and QRG's.

I do not have time to scan it. Any suggestions?

Re: User's manual for CCD module for HP-41

Message #4 Posted by [Christoph Klug](#) on 11 Sept 2002, 4:01 a.m.,
in response to message #1 by Mark Villarino

Some time ago I contacted W&W the German producer of the CCD module, asking about the English language user manual - unfortunately with no positive response.

If possible for someone I want to trade the German manual version with the English manual.

Best wishes from Germany - Christoph

Re: User's manual for CCD module for HP-41

Message #5 Posted by [Chris Catotti \(Florida\)](#) on 11 Sept 2002, 8:57 a.m.,
in response to message #4 by Christoph Klug

What manual do you have now (English or German)?

Re: User's manual for CCD module for HP-41

Message #6 Posted by [Christoph Klug](#) on 12 Sept 2002, 3:24 a.m.,
in response to message #5 by Chris Catotti (Florida)

Dear Chris Catotti,

I have the German version (including binder) and want to trade this for getting the English CCD module manual.

Best wishes from Germany - Christoph

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

GOINTEL.BAS

Message #1 Posted by [Emmanuel](#) on 10 Sept 2002, 12:11 p.m.

I found the following program in HPX V1N3. Michael KRABACH <38> wrote an article named "Programming Eproms for the HP-41". Is there someone who used it or had experience? Thanks!

```
10 CLS:REM Remove line for non-IBM version MBASIC ... 180 DEFINT B,I,J,K 190 DIM B(16)
200 DIM U$(16),L$(16),SUM(4) 210 INPUT "File name to be converted into Intel Hex format";
FILE$:PRINT 220 PRINT "The output files will have the .HEX extension appended to them":
PRINT 230 INPUT "Name the output file for the lower 8 bits (L8)";FILEL8$ 240 INPUT "Name the
output file for the upper 2 bits (U2)";FILEU2$ 250 OPEN "I",#1,FILE$ 260 OPEN "O",#2,FILEL8$
+ ".HEX" 270 OPEN "O",#2,FILEU2$+ ".HEX" 280 WHILE NOT EOF(1) 290 FOR J=1 TO 4 300
FOR I=1 TO 16 310 INPUT #1,A$ 320 IF LEFT$(A$,1)=" " THEN 310 330 IF I=1 THEN ADRL8
$=LEFT$(A$,4) 340 IF I=1 AND J=1 THEN ADRU2$=HEX$(VAL("&H"+ADRL8$)/4-VAL
("&HC00")) 350 IF MID$(A$,5,1)=" " THEN 390 360 L$(I)=MID$(A$,6,2) 370 U$(I)=MID$(A
$,5,1) 380 GOTO 410 390 L$(I)=MID$(A$,7,2) 400 U$(I)=MID$(A$,6,1) 410 B(I)=VAL(U$(I))
420 NEXT I 430 L8$=":10"+ADRL8$+"00" 440 FOR K=1 TO 16 450 L8$=L8$+L$(K) 460 NEXT
K 470 MID$(L8$,4)="0" 480 C$=HEX$(B(1)+4*B(2)) 490 D$=HEX$(B(3)+4*B(4)) 500 E$=HEX
$(B(5)+4*B(6)) 510 F$=HEX$(B(7)+4*B(8)) 520 G$=HEX$(B(9)+4*B(10)) 530 H$=HEX$(B(11)
+4*B(12)) 540 I$=HEX$(B(13)+4*B(14)) 550 J$=HEX$(B(15)+4*B(16)) 560 SUM$(J)=D$+E$+F$
+G$+H$+I$+J$ 570 PRINT #2,L8$:PRINT "L8$=";L8$ 580 NEXT J 590 U2$=":10"+ADRU2$
+"00"+SUM$(1)+SUM$(2)+SUM$(3)+SUM$(4) 600 MID$(U2$,4)="0" 610 PRINT #3,U2$:
PRINT "U2$=";U2$ 620 PRINT 630 WEND 640 ENDFILE$=":0000000000" 650 PRINT #2,
ENDFILE$:PRINT "L8$=";ENDFILE$ 660 PRINT #3,ENDFILE$:PRINT "U2$=";ENDFILE$ 670
CLOSE #1 680 CLOSE #2 690 CLOSE #3 700 END
```

Re: GOINTEL.BAS

Message #2 Posted by [Ellis Easley](#) on 10 Sept 2002, 1:04 p.m.,
in response to message #1 by Emmanuel

I haven't used the program and I only read the first few lines of it, but I have used EPROM burners for many years and I have a little knowledge of some of the MCODE boxes for the 41C. I would guess that this program takes a file of 10 bit values output by a 41C cross assembler (the word size in 41C ROM is 10 bits IIRC) and does two things with it: splits each 10 bit word into a lower 8 bits and an upper two bits, then converts the 8 bit number and the two bit number (extended to 8 bits with zeros or ones - probably doesn't matter) to "Intel Hex records" which is one of a number of formats created by microprocessor manufacturers for use by their development system computers to output data to (for instance) EPROM burners, back in the early days when computers were only capable of transmitting data in ASCII. Manufacturers of EPROM burners would try to support the formats of all the microprocessor manufacturers - there were quite a few different formats, and some of them had to be extended as EPROMs got bigger. EPROM burners were typically connected to host computers by RS-232 serial ports and Teletype style paper tapes were sometimes used to save the data. We still use this kind of ASCII conversion scheme for internet e-mail attachments (uuencoding, base 64) because, as I understand it, there might still be computers between you and your destination that can't handle binary data.

The program likely puts out two files (the 8 bit and the 2 bit) so you can burn two EPROMs which you would then plug into an MCODE box. Two EPROMs are necessary because standard EPROMS only came in 8 bit word sizes (now they also come in 16 bit).

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

ROM>L8 and 'L8 for HP-41

Message #1 Posted by [Emmanuel](#) on 10 Sept 2002, 12:05 p.m.

Hi, I'm looking for ROM>L8 MCode routine and 'L8 U-Code program. Neil HUNTER-BLAIR (6981) wrote some articles in PPC Technical Notes and specially ROM>U2 and 'U2 (cf. PPC-TN #15). I thought he should have written ROM>L8 and 'L8 too. Thanks.

ROM>U2 and 'U2 for HP-41

Message #2 Posted by [Emmanuel](#) on 10 Sept 2002, 4:46 p.m.,
in response to message #1 by Emmanuel

ROM>U2 is a small routine called by the U-Code program 'U2, which prints the bytes for the U2 Eprom from agiven address.

```
9B2D 0B2 2 9B2E 015 U 9B2F 03E > 9B30 00D M 9B31 00F O 9B32 012 R 9B33 0B8
C=REG 2/Y 9B34 226 C=C+1 X 9B35 068 REG=C 1/Z 9B36 31C PT= 1 9B37 0F8 C=REG 3/
X 9B38 1BC RCR 11 9B39 158 M=C 9B3A 330 RDROM 9B3B 04A C=0 WPT 9B3C 3C6
CSR X 9B3D 106 A=C X 9B3E 198 C=M 9B3F 23A C=C+1 M 9B40 158 M=C 9B41 330
RDROM 9B42 04A C=0 WPT 9B43 3C6 CSR X 9B44 1E6 C=C+C X 9B45 1E6 C=C+C X
9B46 370 C=CORA 9B47 106 A=C X 9B48 198 C=M 9B49 23A C=C+1 M 9B4A 158 M=C
9B4B 338 C=REG 12/b 9B4C 04A C=0 WPT 9B4D 370 C=CORA 9B4E 106 A=C X 9B4F
198 C=M 9B50 23A C=C+1 M 9B51 158 M=C 9B52 330 RDROM 9B53 04A C=0 WPT 9B54
1E6 C=C+C X 9B55 1E6 C=C+C X 9B56 370 C=CORA 9B57 3C6 CSR X 9B58 0E8 REG=C
3/X 9B59 198 C=M 9B5A 23A C=C+1 M 9B5B 03C RCR 3 9B5C 0A8 REG=C 2/Y 9B5D
3E0 RTN
```

```
01 LBL "U2" "START ? " HEXKB SXR SXR SXL SXL
```

```
08 LBL 03 E1 STO 00 RDN SF 12 CLA 3-D PRA CF 12 ENTER^ SXR SXR
```

```
20 LBL 02 4 ABS RDN CLA 3-D "• " X<>Y
```

```
28 LBL 01 ROM>U2 2-D "• " RDN DSE L GTO 01 PRA X<>Y DSE 00 GTO 02 SXL SXL
```

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Spot welder for batteries?

Message #1 Posted by [John Ioannidis](#) on 10 Sept 2002, 11:30 a.m.

Does anyone here have information on what equipment to buy in order to spot-weld battery packs? Yes, I know I can get batteries with spot-welded tabs, and I know I can solder them without too much damage to the cell.

Cheers,

/ji

Re: Spot welder for batteries?

Message #2 Posted by [Ellis Easley](#) on 10 Sept 2002, 12:34 p.m.,
in response to message #1 by John Ioannidis

I hope you mean soldering to the welded tabs - you should never solder directly to a storage cell.

We have a store nearby called Interstate Batteries, they have a little shop in the store where they can assemble battery packs to order on the spot. They let me watch while they did the spot welding with a specially made (I like the British term "purpose built") spot welder. They gave me a handful of the tabs because I told them I wanted to experiment with doing spot welds on old batteries using a small arc welder that I have as a current source. However, I didn't get any details such as the current they are using and the time the current is applied (these both seemed to be adjustable on the special welder). The machine was bolted to the table and had a special head which incorporated the electrodes that contacted the workpiece. The electrodes appeared to be cast in thick copper. One electrode was of a small diameter that came down in the middle at the point where the spot weld would occur. The other electrode was shaped like a yoke that surrounded the small electrode, it made contact with the workpiece in a larger area. I suppose this arrangement is so that the current density will be lower where the larger electrode touches the workpiece, and much higher where the smaller electrode touches, so the heat will be generated in a confined area. The operator used a non-conductive block under the cell to raise it to a certain height. Then he pressed a lever which lowered the head down onto the top of the cell (with the tab in between the cell and the head). This allowed him to make sure he had the

head positioned properly, and then he applied a little more force to press the larger electrode down to make good contact. The final step happens quickly so I'm not certain how much is controlled by the operator's hand and how much by the machine: more pressure (or pressure on another lever) pushed the small central electrode down onto the workpiece, the current was applied (here I'm not sure if the current started because of the electrode making contact or if a timing circuit is in control), then the operator released the pressure pushing down the central electrode. I have ruminated over this (haven't tried to do it yet) and I think a critical step is removing the central electrode as soon as possible so it doesn't get joined in the weld. Also, that the other, larger electrode is firmly clamping the tab onto the top of the cell both before and after the application of the current. BTW, at the beginning of the whole operation, the operator cleaned the bottom surface of the electrodes with a piece of emery cloth.

I would like to know what alloy the tabs are made of (somehow I think it is mainly nickle), also the metal used in the cell can and positive terminal (looks like stainless steel).

Re: Spot welder for batteries?

*Message #3 Posted by [glynn](#) on 11 Sept 2002, 12:37 a.m.,
in response to message #2 by Ellis Easley*

Ellis;

The strips are indeed a nickel alloy; soft and flexible-- and the cans of batteries are usually steel. The interface between the two, whether welded as you are talking about, or in the case as when steel is plated by nickel, is very stable and corrosion-resistant.

The spot (or "resistance") welder is not all that special (the one at work is made by a company called Unitek); but the algorithms for the pulse intensity and duration, etc. are pre-programmed in the power-supply/control-head unit.

When spot-welding nickel strip to steel button-batteries, the operator will use a "lighter" setting on the machine than, for instance when trying to tack a steel mounting tab to a steel "D" cell. The spot welder can do both.

The operator knows what schedule to use on the machine, and how to adjust also the triggering-pressure, which is important, since too much pressure will result in material bending and deformation, but too little will cause excessive sparking and melting only the surface rather than the "interface" (a little spark-spitting is not terribly critical).

As said, the welder is a commercially-available stock item, but it isn't really cheap. You buy different electrode configurations as desired for particular jobs. Ours has two pointed copper electrodes spaced about 1/16 of an inch apart at the tips, the end of a very sharp "vee" of maybe 12 to 15 degrees. It is quite suitable for rebuilding packs and adding tabs to batteries.

I've seen the horseshoe electrode arrangement, but never used it myself, so I don't know what advantages it may or may not have. You have to have a file and/or emery paper around to clean the surfaces and the electrode tips, which get fouled fairly easily.

I'd love to have a spot-welder myself, but the one my boss bought was around \$10K-- so I've often wondered if there was a cheap model out there that would do a reasonable job for low-volume battery pack manufacture.

Funny-- ours says it is Dual-Pulse, but you can't tell there is more than one event per trigger. They must be fairly quick. Also, any nickel strips you have laying around on the desk close to the heavy-gauge cables that attach the electrodes to the power-supply/control unit, will jump up and dance in response to the pulse.

Would not like to test the pulse on a ring or, for that matter, on a ring-finger. I was told my predecessor at the shop managed to shock himself, but don't really have the details... I have hit the trigger with the electrodes on a wooden block, but the machine dumped its pulse internally and displayed an error message rather than arc into the wood-- so maybe the safety features are what costs so much. Certainly it is safe enough for a klutzy goof like me to use it regularly for a couple of years and not get into trouble....

Re: Spot welder for batteries?

*Message #4 Posted by [Ellis Easley](#) on 11 Sept 2002, 3:31 p.m.,
in response to message #3 by glynn*

glynn, I might be mistaken about the horseshoe shaped electrode. I looked at the cells they welded for me and the spot welds look like they are always in pairs, about 3-4 mm apart. Do you have any idea approximately what current and time would be correct for the thin battery tabs?

Re: Spot welder for batteries?

*Message #5 Posted by [glynn](#) on 11 Sept 2002, 9:32 p.m.,
in response to message #4 by Ellis Easley*

Ellis, I'll look at it at work sometime this week. I have never really studied the process fully; so voltage and current and pulse times are not in my head. But it should be (semi) obvious if I browse through the schedules menu.

I do know that the whole of the issue comes down to localized, quick heating, and then cooling. This is the reason soldering is NOT a recommended method of joining cells; you can't localize the heat required nor dissipate it quick enough to avoid

damage to the cells, and still solder well.

But a spot weld is so quick and small, the majority of the activity caused by the heat is in melting the two metal pieces together, and all around that small spot is cooler metal, helping to solidify the joint. A second after the weld, it is cool to the touch. You'd have to "bump" it several times in a row to get the weld area hot enough to burn your finger afterward; or you'd be welding it "wrong" (i.e., not enough pressure, too much current, too long a pulse).

The coolness is part of the reason, too, why the copper electrodes don't stick to the joint. If the joint isn't cooling fast enough (in milliseconds, really), then they DO stick. That's an indication of too much heat (back off pulse time or current slightly). In automated systems, it often happens that many welds are made one after another, in which case they usually cool the electrodes with internally-piped water systems, so the electrodes remain cool-- otherwise they stick and hold to the joint.

I'm guessing that the pressure, squeezing the pieces together, is important mainly in that it places the spot where the two pieces are going to be welded into a tiny footprint where the resistance will be less than anywhere else, and so the current will all go into that tiny spot. So there is an optimal pressure for the gap between electrodes and the thickness of material to be "penetrated" by the current.

Well, here I am ruminating on the process, and don't have all the facts of it... I'll see what I can get for you off the machine, and maybe (though this is a long-shot) if my boss has a data-sheet on it, I'll ask him to hunt it out for me.

It would be *fun* perhaps to make some hobbyist version (modified stun-gun? camera flash unit? hehe) that maybe could be put together very cheaply, and offer a duty-cycle of only a few welds per minute-- not right for industry, but good enough to put together the odd battery-pack or two for calcs and shavers and cordless tools. Use it a few times a year 'round the home and it might well pay to have done the project....

Re: Spot welder for batteries?

Message #6 Posted by [Ellis Easley](#) on 12 Sept 2002, 1:01 p.m.,
in response to message #5 by glynn

glynn, that's what I'm hoping to do. I have a small arc welder with output adjustable from 30 to 100 Amps. The open circuit output voltage is about 35V AC. To control the time precisely (if necessary), I plan to use a solid state relay or my own Triac circuit on the 115V primary side. If I build my own circuit I will also be able to control the current down to lower levels with phase control. Once I have the heavy duty electrodes built, I can sense when the electrodes contact the workpiece with a continuity test and use that signal to turn on the timer for the current pulse for any number of AC cycles.

If the actual current required is considerably less, it might be interesting to try the camera flash approach: a large capacitor and a heavy duty relay to turn on the current. Then the current-time product can be controlled by just charging the capacitor to a certain voltage. I've nearly welded screwdrivers to capacitor terminals plenty of times!

Re: Spot welder for batteries?

Message #7 Posted by [glynn](#) on 14 Sept 2002, 1:11 a.m.,
in response to message #6 by Ellis Easley

Ellis:

Took a cursory look at the machine today. It says it is a "Unitek/Miyachi 250 Dual-Pulse Stored Energy Power Supply".

By "250" and "stored energy" I sort of assume that the number is a wattage rating, ie. volts X amps in DC, and some sort of a capacitive-discharge circuit...

And I don't know what voltage, it doesn't say, but it doesn't seem to be high. Like maybe 3-5 volts tops. But 250 divided by 5 would be 50 amps; divided by 3 would be 83.3; that would make a pulse certainly strong enough to melt a spot in light steel or nickel.

The stored schedules in the machine have the following format: Schedule (#__), Pulse 1= (xx)%; Pulse 2=(xx)%; Polarity=(+/-); Width=(Short/Med/Long).

I wish it had more detail onscreen but was Really surprised that it had only those parameters. That the polarity on all the settings I scrolled down was Positive, and the Width setting always "Short" was another surprise; I suppose that since this particular machine was set up for light jobs like battery-packs etc., many of the settings will be only subtly different from each other.

Schedule 1: Pulse 1= 3%; Pulse 2= 9%.

Schedule 2: Pulse 1= 5%; Pulse 2= 15%.

Schedule 3: Pulse 1= 7%; Pulse 2= 22%.

Schedule 4: Pulse 1= 8%; Pulse 2= 26%.

Schedule 5: Pulse 1= 9%; Pulse 2= 28%.

Schedule 6: Pulse 1= 10%; Pulse 2= 11%.

Schedule 7: Pulse 1= 10%; Pulse 2= 30%.

Schedule 8: Pulse 1= 10%; Pulse 2= 35%.

Schedule 9: Pulse 1= 12%; Pulse 2= 36%.

Schedule 10: Pulse 1= 15%; Pulse 2= 35%.

Schedule 11: Pulse 1= 15%; Pulse 2= 40%.

Schedule 12: Pulse 1= 15%; Pulse 2= 45%.

Schedule 13: Pulse 1= 20%; Pulse 2= 45%.

Schedule 14: Pulse 1= 30%; Pulse 2= 50%.

Schedule 15: Pulse 1= 30%; Pulse 2= 65%.

Schedule 16: Pulse 1= 50%; Pulse 2= 77%.

Schedule 17: Pulse 1= 2%; Pulse 2= 4%.

Schedule 18: Pulse 1= 1%; Pulse 2= 5%.

Schedule 19: Pulse 1= .6%; Pulse 2= 0%

And I think there are some dozen more settings on the machine, but that's all I wrote down today.

Say the machine puts out 50A at 100%. That's only .5A per percent, right? So the schedule I use to stick nickel strips onto (AA,N,C,D) batteries with, Schedule 3, kicks out a pulse of 3.5A, then follows with a pulse of 11A. It does so fast enough that you only hear it as one small "thunk".

Well, I still haven't learned much, I know. I will try to follow up with more info-- I am certain that somewhere buried in my bosses office there is an owner's manual. Maybe I can find it...

Ellis, having played with a photo-strobe power-pack, I know it ramped up from a 12v battery to supply some 430v or so, but not many milli-amps-- that's good because while I was measuring it, it bit me. Ouch.

But it should be not terribly hard to do the opposite: a bank of capacitors storing low volts but together punching forth high amps.

Probably the tricky part is to make the only part of the circuit that has, as its highest RESISTANCE to flow through, a junction of pressed-together metals (the intended weld-spot)-- if the legs on the capacitors or the controlling relay have higher resistance than that, it is they that will melt!!

TTYL.-- grh.

Re: Spot welder for batteries?

*Message #8 Posted by [Ellis Easley](#) on 16 Sept 2002, 4:23 a.m.,
in response to message #7 by glynn*

Glynn, that's a lot of information! DC, low voltage, double pulse, and those ratios - especially the ones you use for a similar application. The double pulse reminds me of the pre-heating required before infra-red soldering of printed circuit boards. It is needed because all the moisture must evaporate from the solder paste before it melts, otherwise there is a lot of spattering of tiny solder balls all over the work. I notice that most of the schedules have the first pulse at a lower level.

And the manufacturer's name. I found a website, (<http://www.miyachi1.com/>), it is "A Unitek Miyachi International Company". I haven't found any "stored energy" power supplies there, but they have some DC supplies under "inverter weld controls". I downloaded an accessories catalog that has pictures and specifications of electrodes. Under "Benchtop System Solutions", the different families are divided by the amount of mechanical force they apply to the workpiece, from 70 to 700 pounds. These must be for bigger welds that batteries.

Another website, (<http://www.miyachitechnos.co.jp/e/pro/seihintop.html>), has laser welders and "fine spot welding" equipment including two "capacitor discharge" power supplies: MC80B and MC160B. They are single pulse supplies but unfortunately I can't read the specs in the .pdf file because of a missing font! This site has a page of technical information (<http://www.miyachitechnos.co.jp/e/tech/techtop.html#>). One of the articles linked from that page (<http://www.miyachitechnos.co.jp/e/tech/pop4.html>) has an interesting picture of the waveforms of different kinds of welding power supplies. Here is what another article linked from that page says about Capacitor Discharge welding:

2) Capacitive Discharge Welding Power Supplies By discharging the energy accumulated in the capacitors. They are suitable for welding materials with high thermal conductivity like aluminum and copper. Because the system stores the energy in the capacitors, it does not require a big capacity for the primary power source. On the other hand, the current rise is very steep and can not be controlled, and it may cause an expulsion. In this case, higher squeeze force must be applied. Also, Peltier effect which must be controlled somehow because it is direct current.

By "expulsion" I guess they mean expulsion of molten metal from the weld site, because of pressure due to the increased temperature. The "Peltier effect" I assume is related to Peltier devices which are the semiconductor devices that move heat from one side to the other when current passes through. They are used to cool CPU's when overclocking and also for the little six-pack coolers that run on 12 volts DC. "Controlling the Peltier effect" might be what the polarity control accomplishes, I know with Peltier devices, what direction the heat moves depends on what direction the current flows.

I have already started collecting parts for a fixture to remove short circuits from NiCads, with a large capacitor and a heavy duty contactor

type relay to quickly connect it to the cell to be "cleaned". The same type of relay (rated 30 Amps continuous) might work for welding if I use copper bars to make the connections. I guess SCR's would be faster, bounce free, and maintenance free, and 30 or 50 Amps isn't a terribly big SCR. Here's an idea I had to generate a double pulse: two capacitors and two relays (or SCR's) triggered one after the other.

One fine point: "watts" are a measure of power which I think would be a unit of the rate of energy consumption and watt-hours or watt-seconds - the integral of watts - would indicate the amount of energy delivered to the spot. With a capacitor, the product of the capacitance and the voltage is the number of Coulombs stored, one Coulomb being a huge number of electrons - the same number moved by a current of one Amp flowing for one second. By quickly connecting the capacitor to a short circuit, all those electrons will flow out in a very short time. But the total number of electrons involved in the discharge is determined by the voltage to which the capacitor was charged in the first place. In the case of a camera flash, the capacitor is charged to several hundred volts by a switching power supply. The capacitor is connected to the ends of the flashtube all the time but it is normally non-conducting. When the camera gives the signal, an SCR (if I am not mistaken) connects the primary of a step-up transformer to the capacitor (or to a separate capacitor similarly charged). The secondary of the transformer quickly develops a pulse of several thousand volts which is applied to the third, trigger electrode of the flashtube, which causes the gas inside to start conducting, then all the charge in the capacitor flows through the flashtube at once. Actually, the circuit must have some way to stop the flashtube from conducting before the capacitor is discharged, because when I set my flash to automatic, it recovers and is ready to flash again very quickly, so the capacitor must not have been completely discharged.

I can see that the critical thing will be to have all the conductors very large so that the spot-weld joint is the highest resistance in the circuit, as you point out. In the Miyachi catalog, all the conductors are made of wide strips of copper. As I recall, the spot welder at the local battery store had wires similar to those used for a car battery connecting the head to the power supply.

Re: Spot welder for batteries?

*Message #9 Posted by [David Smith](#) on 16 Sept 2002, 1:45 p.m.,
in response to message #8 by Ellis Easley*

While you can blow shorts out of Nicad batteries, it is really not a good idea. Once a battery starts growing shorts, it is on its last legs. They always grow back in a short period of time. Zapping them only makes sense as a short term emergency situation fix where you can't get to the battery store and just have to have something running.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-11C semi-dead or what ?

Message #1 Posted by [Erich Neubacher](#) on 10 Sept 2002, 10:52 a.m.

first of all: I can't accept the fact that a HP-Calculator doesn't work because of bad material, which fades away, or because of low accuracy in the manufacturing.

It all began with a HP-11C (USA 2552A03475)I bought some weeks ago. It passes all standard tests. All was very well. Then some day I want to have fun with my little toy and played around. Hmm, what to do ? Another key-board-test, but what's that, the display is frozen. Have I pressed a wrong key or what ? panic....but remember old 41C... get off the batteries...wait some seconds...and start again. NOTHING....Hmmm....get off batteries put 11c on the shelf some days....put in batteries...start....NOTHING...pressing randomly some keys...oops, he is alive, works some seconds, but then gets frozen again or doesn't start if turned off....same procedure many times. The machine doesn't work reliable, but the core seems OK. I suppose it is in a special state, some circuit/IC is in a wrong branch or something like that. Mechanical all seems OK.

I read some articles about dead 11C in this forum. Yes, I shortcut the battery-contacts...WITH < shudder > and without batteries. Maybe now the machine is really dead ;-)

Is there anyone out there, who can help me ?

Thank You.....Erich Neubacher

Re: HP-11C semi-dead or what ?

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Sept 2002, 12:31 p.m.,
in response to message #1 by Erich Neubacher

Hi;

I had an HP12C in hands with a problem about the same; the difference is that it froze for good.

After resodering all of the IC's terminals, it became the same, good little girl "she" was. If you want to do so, say, to open the calcualtor and solder the terminals, have a look [here](#).

Success!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

"FACT" ???

Message #1 Posted by [karl gruber](#) on 10 Sept 2002, 10:34 a.m.

I was playing around with my 12 yr old son while riding the Kinston Ferry. We did 40 "FACT", and stored the result.

Then we did it manually, $40 \times 39 \times 38 \times \dots \times 2$. When subtracting the two results we thought the answer should be "0," but it turned out to be -2.00.00000 38

I have repeated this with FACT 30 and the result is "0"

I wonder what is going on.

Karl HP41CX

Re: "FACT" ???

Message #2 Posted by [Fred](#) on 10 Sept 2002, 10:41 a.m.,
in response to message #1 by karl gruber

You have chance

Because on my 32SII the difference is 4 E36

But I made a program rather than manually.

Fred

Re: "FACT" ???

*Message #3 Posted by [Fred](#) on 10 Sept 2002, 10:59 a.m.,
in response to message #2 by Fred*

What is strange is that for 29 there is a difference and not for 30 Next step is a complete table of the difference for all the values from 2 to 69 for machine limited to 9.99999999 E99 and 253 for machine limited to 1.0000 E500.

By the way, what are the different range of our beloved calculators !!!!

My Program :

LBL A

STO A

STO B

LBL B

RCL A

1

-

x=0?

GTO C

STO A

x

GTO B

LBL C

RDN (roll down)

RCL B

x!

-

STOP

I promise my next version will only use the stack but I was in a hurry....

Fred

Re: "FACT" ???

*Message #4 Posted by [Fred](#) on 10 Sept 2002, 11:09 a.m.,
in response to message #3 by Fred*

It's funny to see that 18 is the first value which give a difference : 10000 for a result of 6,40237370573 E15 with FACT and 6,40237370574 E15 for the "manual" computation.

What is this "smallest special fact number" on different calculators. More seriously what are the different internal algorithm and internal calculus precision for the different CPU of our calculators ???

Fred

Re: "FACT" ???

*Message #5 Posted by [Ellis Easley](#) on 10 Sept 2002, 11:43 a.m.,
in response to message #4 by Fred*

One possibility: some machines (I know the 34C is one) use the Gamma function to calculate the factorial. This is an approximation method. You can read some good articles about it by Viktor Toth at www.rskey.org:

<http://www.rskey.org/gamma.htm>

<http://www.rskey.org/calcsme.htm>

If your calculator is using multiplication to calculate the factorial, another possibility is that the intermediate results are treated differently for internal functions than for the user-accessible multiply function, with regard to rounding and truncation. Remember that the calculator uses more digits than are displayed to help improve

the accuracy of final results, also that once the number gets larger than the internal number of digits, the calculator has to begin using scientific notation, and some least significant digits are unavoidably lost. I just started reading a very interesting book that has at the beginning a chapter on the limitations of numerical calculations with computers. The book is "Numerical Methods for Scientists and Engineers", second edition, by R.W.Hamming (of the Hamming Code). It was originally published in 1973 and is available as a Dover paperback book, I got mine at a US bookstore chain called Bookstop which is now part of Barnes and Noble.

Re: "FACT" -- A guess

Message #6 Posted by [Paul Brogger](#) on 10 Sept 2002, 11:23 a.m.,
in response to message #1 by karl gruber

I suspect that the Factorial function is handled with a look-up table, the values for which were derived on a machine with greater precision than the calculator. (Results for non-integer arguments are probably interpolated with some algorithm.)

Thus, error accumulates in sequential multiplication due to the relatively limited precision of the calculator, and after some point (between 30 & 40, no doubt) the results get large enough that that deviation from the look-up value is significant.

(Notice the difference has but one significant digit -- that implies the deviation is only in the last digit available in the calculator's internal base-10 representation.)

Anyway, that's what I SUSPECT is going on . . . (And I suspect that the function's pre-stored result is more accurate than a calculated one, for arguments > 30-something.)

Re: "FACT" -- A guess (modified)

Message #7 Posted by [Paul Brogger](#) on 10 Sept 2002, 11:28 a.m.,
in response to message #6 by Paul Brogger

I note Fred's discovery that 18! is the first value returning a difference -- of "1" in the 12th digit. This leads one to suspect that the calculator's internal representation of real numbers is limited to 12 digits.

Re: "FACT" -- ? for Fred?

Message #8 Posted by [karl gruber](#) on 10 Sept 2002, 11:36 a.m.,
in response to message #7 by Paul Brogger

Fred,

Sorry for the stupid question, but what are the "PGRM" keystrokes to:

STO A

Thanks, Karl

Re: "FACT" -- ? for Fred? (May I?)

Message #9 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Sept 2002, 12:24 p.m.,
in response to message #8 by karl gruber

Hi, Karl;

it seems to me you are using an HP41, right? Almost all others use "!" for factorial.
If so, you can change Fred's program to:

```
LBL A
STO 00
STO 01
LBL B
RCL 00
1
-
x=0?
GTO C
STO 00
*
GTO B
LBL C
RDN (roll down)
RCL 01
FACT (x!)
-
STOP
```

I think Fred used an HP32SII. Hope it helps.

Cheers.

Some new "FACT"s...

Message #10 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Sept 2002, 3:01 p.m.,
in response to message #9 by Vieira, Luiz C. (Brazil)

Hi;

it's getting even better.

Try this simple program running in any HP41:

```
LBL "FAC"
1
X<>Y
ENTER^
LBL 00
ST* Z
DSE X
GTO 00
CLX
1 E3
/
1
+
1 (or LASTX)
LBL 01
RCL Y
INT
*
ISG Y
GTO 01
X<>Y
RDN
.END.
```

If you input any number from 1 to 69 it computes the sequential product (factorial) upwards (X-register), say, lower-to-upper, and downwards (Y-register), or upper-to-lower. As expected, results are different from each other after 24 FAC. When mantissa loses the first rightmost non-zero digit,

everything else is not correct. And it happens with different values for each routine. And both results are different of the one obtained with 24 FACT.

Another thing: *the difference* that exists between the exponent of ten of both **n** FACT and the sequential product of **n** (**n** > 23) is constant and its value is "9", one less of the number of significant digits (mantissa). Did anyone notice that?

Just a matter on numbers...

Re: "FACT" -- ? for Fred?

*Message #11 Posted by [Fred](#) on 11 Sept 2002, 6:42 a.m.,
in response to message #8 by karl gruber*

I was using an HP32SII where storage is done in alphanumeric register (from A to Z plus i for indirection and the Sigma registers for statistics)

Fred

Re: "FACT" -- A guess

*Message #12 Posted by [Ellis Easley](#) on 10 Sept 2002, 11:54 a.m.,
in response to message #6 by Paul Brogger*

Actually, the factorial function is only defined for integer arguments (maybe only positive integers?). The Gamma function is a generalization of the factorial for positive real numbers. See Viktor Toth's article:

<http://www.rskey.org/gamma.htm>

I don't think a calculator would use a lookup table for the factorial, because a program using multiplication is so short compared to the ROM space (always at a premium in a calculator) required for even just a few full precision constants. The 34C uses the Gamma function to provide the factorial function, but they fully document the Gamma function because it has important applications in statistics.

Re: "FACT" -- A question, then . . .

Message #13 Posted by [Paul Brogger](#) on 10 Sept 2002, 9:35 p.m.,
in response to message #12 by Ellis Easley

Wellllllllll . . .

If I enter 5.15 on my HP-32S and hit Shift-<Prob> <x!> I get 155.311235965 . (Which is sorta like the Gamma function result, I'd guess?) Maybe the HP-32S factorial algorithm is actually the Gamma function? (I don't have a manual for the thing, so I don't know what HP says about this.)

5.15 and Shift-<PROB> <N!> on my HP-42S gives "INVALID DATA". On my TI-83 +SE, similar problem ("Error -- DOMAIN" or some such).

On the HP-48G, it gives (exactly) the same result as was offered by the HP-32S.

Re: "FACT" -- A question, then . . .

Message #14 Posted by [Werner Huysegoms](#) on 11 Sept 2002, 4:40 a.m.,
in response to message #13 by Paul Brogger

I don't know all implementations on all HP calcs, but I do know how it's done on a 48/49. The rest is probably similar. The factorial function for integer arguments is calculated with a simple loop - but it is executed with the internal 15-digit accuracy, so the rounded 12-digit result is accurate. Doing it with 12-digit numbers in a user program inevitably introduces rounding errors for $n > 17$ (17! still has only 12 significant digits, but 18! has 13), and of course the rounding errors are different if your order of operations is different ($1*2*3*..$ vs. $n*(n-1)*(n-2)$)

The factorial function for a non-integer argument x calculates $\text{gamma}(x+1)$ using a rational approximation, which is actually something that has bothered me from the beginning: FACT (or '!') should accept only integers, and to calculate GAMMA the function itself should have been provided - the way it was on a 42S. (the 49 provides GAMMA, but of course FACT still accepts reals)

Werner Huysegoms

Factorial and gamma -- 8 different HP's

Message #15 Posted by [Karl Schneider](#) on 12 Sept 2002, 2:28 a.m.,
in response to message #14 by Werner Huysegoms

Thank you, Ellis, for the info and insightful links on this subject.

I believe that Werner is on the mark regarding the algorithms.

On the 34C, 15C, and 32Sii, "x!" is a dual-use key, calculating factorial(x) for non-negative integer-valued x and gamma(x+1) for real x < 69.96 other than negative integers. (The 15C will ignore the imaginary part of complex x). On the 34C and 15C, x! takes much longer to execute for non-integer values of x than for integer-valued x, indicating use of different algorithms -- presumably using looped-multiplication for integer x and some estimating method for non-integer x. I suspect that the same is true of the 32Sii.

On the 42S, the algorithms are separated into the functions "n!" for n < 254 and "gam" for x < 254.12, which allows gamma(x) to be directly executed according to its definition without adjusting the input argument. Surprisingly, "gam" is almost instantaneous -- much faster than "n!" for n and x that are large and roughly equal. However, "gam" will execute (x-1)! instead if x is an integer.

On the 28C and 48G, one can execute factorial(x) or gamma(x+1) by entering x, keying in "FACT", then hitting <EVAL>. x < 253.12 for a *correct* answer (within range of 1E500) and x must not be a negative integer (or else, "infinite result" is the answer).

On the 41C-, however, any value of x other than a non-negative integer will give a "DATA ERROR" message, and I know of no HP Pac ROM that provides the gamma function.

Finally, the 17Bii provides only the n! function.

There you have it -- implementation of factorial and gamma for eight different machines. Who can explain the fast performance of gamma for the 42S?

-- Karl

Re: Factorial and gamma -- 8 different HP's

*Message #16 Posted by [Werner Huysegoms](#) on 12 Sept 2002, 5:59 a.m.,
in response to message #15 by Karl Schneider*

Hi Karl, depending on the argument, the gamma function is approximated by a rational function, or a continuous fraction. The operations count to calculate GAMMA(250.1), is only 5 div/mult and a logarithm and an exponential, both of which take an additional (say) 8 multiplications. FACT(250), on the other hand, takes 249 multiplications or more than 10 times more. Makes one wonder why large factorials are not computed with ROUND(GAMMA(n)) or so.

Re: Factorial and gamma -- 8 different HP's

*Message #17 Posted by [Werner Huysegoms](#) on 12 Sept 2002, 7:24 a.m.,
in response to message #16 by Werner Huysegoms*

Never mind my last suggestion. GAMMA is one of the functions that is apparently not correct to 12 digits over its entire range (as SIN, COS etc are) , and ROUND(x) has little meaning if $x > 1.E12$. eg FACT(100) - GAMMA(100) (calculated on a 48, using the GAMMA code itself) = -2.E146, meaning there's an error of two units in the 12th position.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

problem with HP-48SX

Message #1 Posted by [bucky](#) on 10 Sept 2002, 8:49 a.m.

My 48SX is having an intermittant problem. As the machine has been discontinued, HP tech support will not address the issue. The machine is locking up and leaving the number "6" below the bottom register. This is to say (reading from the top of the display down, I see "4:", "3:", "2:", "1:", and "6". The only way to recover is to pull a battery out of the back. I've removed the upper right foot off and done several internal resets, and I've done the self tests described in the manual (all OK). I've also blown out the keyboard as best I could with canned air. Any other thoughts or solutions would be greatly appreciated. Thank you.

Re: problem with HP-48SX

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Sept 2002, 9:41 a.m.,
in response to message #1 by bucky

Hi;

does the cursor (left-arrow) also appear beside the "6"? I few days ago, we had an HP41 with a stuck "5" key. I tested my HP48SX: if I press any numeric key and switch it ON, it comes like you said, with the cursor. Any other key will freeze the calculator. I did not remove the batteries, but it will come back to normal only after releasing the key.

The 41's awner said that a firm "rap" in the palm of his hand freed the key, and the calculator got back to normal opperation. Should you check for eventual battery leakage? These fluids are conductive, and I have a mylar 48's key-layer with some absent tracks because of this.

Hope it helps.

Cheers.

Re: problem with HP-48SX

*Message #3 Posted by [Bucky](#) on 10 Sept 2002, 11:44 a.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Luiz,

When the calculator locks up, there is no blinking arrow cursor beside the "6". The problem is intermittent (it happened twice last week) and I was tempted to give the machine a very firm "rap" up against the opposite wall. :-) When the machine locks up, and I resort to pulling the battery, it asks me if I want to try to restore memory. I say "yes". It has generally been able to retrieve some of the memory, but eventually returns me to the same screen with the "6" and locks up again. I've checked the batteries as you suggested, and they aren't leaking. I generally go through a set of Mallory Duracells every three months or so, so they stay fairly fresh.

When it locks up again, I will try the "rap" against the palm. Do you know of any way to safely crack the case and clean out the area under the keypad? Like you, I'm suspecting a keypad plaque problem or some other keypad related issue as the self-tests come back OK when the calculator is working.

Thank you for your efforts and suggestions.

--Bucky

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-41 Math/Stat Pac "Blank"

Message #1 Posted by [Chris Catotti \(Florida\)](#) on 10 Sept 2002, 7:03 a.m.

I have MATH/STAT Pac that CATalog 2 as:

-MATH 1D

-STAT 1B

The odd thing is it has no physical markings such as date code, part number, etc. It also has a thin slit 0.25 inches long on left and right sides. Compare with a normal module:

(picture unavailable)

(picture unavailable)

(picture unavailable)

(picture unavailable)

Any comments? Ideas?

Could it have been "rebuilt"?

Message #2 Posted by [Gene](#) on 10 Sept 2002, 7:28 a.m.,
in response to message #1 by Chris Catotti (Florida)

Might it had the "innards" of a normal module but perhaps it had to be put into a blank case for some reason? Damage to the original?

Hasn't it been burnt ?

*Message #3 Posted by [thibaut.be](#) on 10 Sept 2002, 8:16 a.m.,
in response to message #2 by Gene*

Isn't this a burnt module, carbon copy of the original math/stat module ?

Re: Hasn't it been burnt ?

*Message #4 Posted by [Ellis Easley](#) on 10 Sept 2002, 1:24 p.m.,
in response to message #3 by thibaut.be*

Didn't people use to combine ROMs both inside the 41C and in a module? I think someone recently pointed out that there is a minor difference between the Math/Stat module and the original two modules. It might have been a change that was necessary to overcome the reason why the two couldn't be combined - but if not, people might have made their own combined Math/Stat modules before HP.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP41 battery pack circuitry

Message #1 Posted by [Jaime](#) on 10 Sept 2002, 5:48 a.m.

Hello.

Some weeks ago I replaced the batteries of the battery pack of my old HP41 with Ni-Cd 1/3 AAA and it worked quite fine.

Suddenly the batteries didn't recharge anymore. I had a look at the circuitry and discovered that the small regulator (I think the small black three-terminals component is a regulator) had broken one of its pins. I'm afraid I was a bit clumsy when I rebuilt the pack. Now it's irreparable. So...

Does anybody know a possible replacement for this regulator? Does anyone know its characteristics?

Thank you in advance.

Re: HP41 battery pack circuitry

Message #2 Posted by [Ellis Easley](#) on 10 Sept 2002, 2:08 p.m.,
in response to message #1 by Jaime

If it is like mine, it is marked with the HP number 26-0275. I think it is a 78L12, 12V 100 mA regulator. Tony Duell might have verified this here in the Forum (he has a list of some equivalents for HP part numbers).

The part on my unit is like this (I traced out the circuit some time back): looking at the flat side of the regulator, with the terminals going down, the center terminal is connected to the -ve side of the unregulated supply; the right terminal to the +ve side. The left terminal is connected to a small capacitor to the center pin, and to the anode of a rectifier diode whose cathode is connected to a 365 ohm resistor. The other end of the resistor is connected to the +ve terminal of the battery. The -ve terminal of the battery is connected to the -ve side of the unregulated supply. A zener diode is connected across the battery, cathode to the +ve side and anode to the -ve side. With no battery present, and relative to the -ve side of the unregulated supply (and the battery), I measure +15-18V at the right terminal of the regulator, +12V at the left terminal of

the regulator, and +6.7V at the cathode of the zener diode (and the +ve battery terminal).

Unrelated note: I recently cleaned up a BBC model B computer I bought on Ebay from a guy in Australia, and have found quite a bit of literature and software for it on the internet. The Acorn manuals use the conventions "+ve" and "-ve" for positive and negative, as Tony does. I've started doing the same, it's a great shortcut! (Now I'll have to adopt some emoticons.)

Re: HP41 battery pack circuitry

*Message #3 Posted by [Tony Duell \(UK\)](#) on 10 Sept 2002, 3:49 p.m.,
in response to message #2 by Ellis Easley*

My list shows that 1826-0275 is an MC78L12ACP. Any other 78L12 would be fine too, I think. It's a standard 12V 100mA regulator. However, in an old PPC journal I found a reverse-engineered schematic of the pack which shows the part as a 78L06. I suspect the latter is incorrect, but.... The convention of +ve and -ve is _very_ common over here. I can't remember where I learnt it from, but I think it's been around for well over 50 years. I am suprised it's not universal. Another convention which is common in the UK and Europe, but which seems to confuse Americans is to use the prefix character in place of the decimal point in component values. Things like 4k7 for 4.7k (4700 Ohms). Or 5n6 for 5.6nF (5600pF) and so on. Very common here, and the letter is less easy to lose than a period.

" +ve " and " -ve "

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Sept 2002, 4:24 p.m.,
in response to message #3 by Tony Duell (UK)*

Hi;

I also have seen the "+ve" and "-ve" in some deutsch technical literature (very, very old ESK documentation; ESK is a Telephone Central Switching Network, from Siemens). Would it come from "Volt Eingang", that stands for "Volt Entrance", or Volt Input?

Any comments?

Re: "+ve" and "-ve"

Message #5 Posted by [Ellis Easley](#) on 13 Sept 2002, 9:15 a.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)

You might have something there. I have been thinking of the terms "+ve" and "-ve" as sort of hieroglyphic abbreviations for "positiVE" and "negatiVE" and also means to give more weight to the symbols "+" and "-" alone. In my German dictionary, I see that the words are spelled the same as English except without the final "e". But it could be that Germans adopted the English abbreviations. "+v" and "-v" alone imply something too specific to replace the general meaning of the original words.

Re: HP41 battery pack circuitry

Message #6 Posted by [Jaime](#) on 11 Sept 2002, 3:41 a.m.,
in response to message #3 by Tony Duell (UK)

It's marked 1826-0275. So your information is just what I needed. Thank you all.

Re: HP41 battery pack circuitry

Message #7 Posted by [Ellis Easley](#) on 11 Sept 2002, 4:04 p.m.,
in response to message #3 by Tony Duell (UK)

I think I've seen actual resistors marked "4k7" for 4700 ohms and I'm quite sure I've seen low value resistors marked "4R7" for 4.7 ohms. And I've seen this kind of notation used on schematics and parts lists. It makes perfect sense and can avoid a lot of trouble in the case of a fax or Xerox copy or a scanned image!

Regarding the PPC Journal schematic with the 78L06 - did it also have the resistor and 6V Zener diode?

I have some boards from old oil well logging equipment that use multiple Zeners in decreasing voltages, cascaded, to improve the regulation at the end of the chain by each Zener pre-regulating the next.

Re: HP41 battery pack circuitry

*Message #8 Posted by [David Smith](#) on 11 Sept 2002, 6:22 p.m.,
in response to message #2 by Ellis Easley*

There are two versions of the battery pack. One has three pins in the charger plug (the center one is actually a switch contact). The other has two pins. I think one type uses a 6V regulator. The other is 12V.

BTW, the three pin version is not as good a design. Besides the charger plug switch contact, it has a weird tape-flex circuit that forms one of the battery contacts. If the cells go, it can overvolt the machine. When I rebuild them I put a 6.8V zener diode on the ourput side just in case. I also put a couple of layers of kapton tape under the tape contact so that if the battery spring wears through the tape contact it will not make contact to the battery cell underneath it.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Help me with my 10C

Message #1 Posted by [Therese](#) on 9 Sept 2002, 2:00 p.m.

It's in radian mode, how do I get it back to degrees? The calculator must have gotten banged around in my purse. Of course I don't have a manual....this was mom's old calculator she kept in the camping trailer to figure out her gas mileage on long trips.

Re: Help me with my 10C

Message #2 Posted by [Juergen Rodenkirchen \(GER\)](#) on 9 Sept 2002, 2:56 p.m.,
in response to message #1 by Therese

Hi Therese!

I don't have a 10C calc but I checked a picture of the machine here at MoHPC. So, this pic reveals that pressing the gold shift key and afterwards the "4" key (which has printed DEG in gold above it) should put you back to degrees mode. Just for your information, pressing the gold shift key activates the secondary function of any key that has one (printed in gold above that key).

Got the degrees thang sorted

Message #3 Posted by [Therese](#) on 9 Sept 2002, 5:17 p.m.,
in response to message #2 by Juergen Rodenkirchen (GER)

Got it, thanks everyone. I was looking at the rad and deg functions on the extreme right hand side, the ones with the arrows. Hadn't noticed the number 4 and 5 keys.

Re: Got the degrees thang sorted

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Sept 2002, 4:36 p.m.,
in response to message #3 by Therese

Hi;

The functions [->RAD] ([SHIFT][$\frac{1}{X}$]) and [->DEG] ([SHIFT][$\frac{1}{Y}$]) are used to convert from radians ->DEGrees and from degrees ->RADians. Angles in degrees to be converted to radians must be entered as decimal values, not minutes-seconds. If you want to find the radians equivalent to 21 degrees and 30 minutes, you should input 21.5 (21 degrees and half degree) instead of 21.3.

Anyway, you can also convert from degres.minutes-seconds to decimal degrees with [->H] ([SHIFT][$\frac{1}{X}$]) and vice-versa with [->HMS] ([SHIFT][$\frac{1}{Y}$]).

Try this: 21.3 [SHIFT][$\frac{1}{X}$] (->H) Display: 21.5000

Best regards.

Re: Help me with my 10C

Message #5 Posted by [ojm](#) on 10 Sept 2002, 7:18 a.m.,
in response to message #1 by Therese

You say it got reset by banging around inside your purse - you may want to treat it a little differently in the future. That 10C calculator is now a very valuable rare item that a lot of these calculator collectors would drool over.....

Re: Help me with my 10C

Message #6 Posted by [Therese](#) on 10 Sept 2002, 5:54 p.m.,
in response to message #5 by ojm

Really? What do you think it's worth? It's probably on it's original set of batteries.

Re: Help me with my 10C

Message #7 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 10 Sept 2002, 6:28 p.m.,
in response to message #6 by Therese

Hi, Therese;

have a brief look [here](#). This is a link to a page with prices and rarity in the museum. Just navigate through the page and you'll see a table with prices. The HP10C is in the range of US\$100 - US\$400 (just in special, complete, NIB -new-in-box- condition with a devoted collector), as you'll see for yourself. %0

Re: Help me with my 10C

Message #8 Posted by [David Smith](#) on 11 Sept 2002, 6:24 p.m.,
in response to message #7 by Vieira, Luiz C. (Brazil)

I cant remember a recent 10C selling for less than \$200... even really ugly ones. NIB units seem to go well over \$500.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Looking for battery cover for a 28C

Message #1 Posted by [Gary Butler](#) on 9 Sept 2002, 9:27 a.m.

I have a 28C graphic calculator and need a new battery cover for it. If anyone has information on where I can purchase one, I would greatly appreciate it.

Thank you Gary

Re: Looking for battery cover for a 28C

Message #2 Posted by [IO](#) on 9 Sept 2002, 9:53 p.m.,
in response to message #1 by Gary Butler

this seller probably has one...

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1379341301>

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Truly powerful ~HP ~calculator

Message #1 Posted by [Glen Kilpatrick](#) on 8 Sept 2002, 9:01 p.m.

Dave, would you consider making a permanent part of MoHPC that HTML of the ~calculator posted many months back? I vague remember that it was modeled on the HP-65 style, but had a boatload of unusual functions (sed was in there somewhere, several other ~unix functions, and some that unix hadn't even yet discovered :).

What made it really impressive was that the HTML layout looked *just* like one had stopped by <http://www.hp.com/>, indeed I heard that HP had received some phone calls from people wanting to pre-order this powerhouse.

For those who didn't see this, it wasn't of this world, or universe either, but a very clever bit of fun / wishful thinking....

I'll add it

Message #2 Posted by [Dave Hicks](#) on 9 Sept 2002, 10:10 p.m.,
in response to message #1 by Glen Kilpatrick

I'm probably going to add the Xpander soon and perhaps the 48SX so sometime within the next month or so, it should show up on the main page.

Since it kind of upset the manager of HP's online store, I didn't want to link it in right away.

While you're waiting though, you can look at it [here](#)

built in functions

Message #3 Posted by [thibaut.be](#) on 10 Sept 2002, 6:36 a.m.,
in response to message #2 by Dave Hicks

I love this one : light-year to parsecs, and reverse... ;-)

Re: built in functions

*Message #4 Posted by [Tom \(UK\)](#) on 10 Sept 2002, 1:44 p.m.,
in response to message #3 by thibaut.be*

Perhaps if he put 'light year <=> days' the fool joke would have been better?

Re: I'll add it

*Message #5 Posted by [jose goncalves](#) on 10 Sept 2002, 8:13 a.m.,
in response to message #2 by Dave Hicks*

Now that several other models are "gone", Dave could include those that are referred to in the "Other" section and reorganize them into a new section (or maybe several sections. For instance, we could have a section devoted to the Clamshells, another one to the 48 family and so on. Of course, Dave will be able to include excellent photographs of them all, as he has done with the "traditional" part of the site.

I can't wait for this major improvement !

Jose

Re: I'll add it

*Message #6 Posted by [Dave Hicks](#) on 11 Sept 2002, 1:24 a.m.,
in response to message #5 by jose goncalves*

I'll be adding more models in time.

Thank You, Dave

*Message #7 Posted by [Glen Kilpatrick](#) on 10 Sept 2002, 9:40 a.m.,
in response to message #2 by Dave Hicks*

Thank you, Dave.

I'd forgotten about the HALT CTCH FIRE functionality, but did remember there was more unix-based stuff, and sure enough, to the left of SED can be seen AWK, to the right PERL, and two rows up the treasured RM -R (!).

I believe that this treat will be enjoyed by millions (well, OK, EEX 3 at a minimum, maybe 4 over the years), and BTW, if you have a pre-production model I might be interested.... :)

Re: Thank You, Dave

*Message #8 Posted by [Tom \(UK\)](#) on 10 Sept 2002, 1:47 p.m.,
in response to message #7 by Glen Kilpatrick*

Haven't you seen the pre-production models on ebay? The "Build it now" option was popular.

the Halt - CTCH - Fire instructions

*Message #9 Posted by [Gene](#) on 10 Sept 2002, 2:28 p.m.,
in response to message #7 by Glen Kilpatrick*

Actually, these were HP's way of having the machine switch from RPN to some insane version of algebraic.

Halt - Stop the machine from doing anything useful

CaTCH - For the user to catch their breath and REALLY think through what they are about to do

and

FIRE - The electronics of the unit begin a slow march to burying themselves out trying to solve equations with several dozens of pending operations.

:-) Gene

Why wouldn't we list one on ebay ?

*Message #10 Posted by [thibaut.be](#) on 10 Sept 2002, 5:31 p.m.,
in response to message #2 by Dave Hicks*

... just for the fun...

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

41CV functions

Message #1 Posted by [Martin](#) on 8 Sept 2002, 6:49 a.m.

I have an HP-41CV with no modules. How do I get the ATOX and XTOA functions to work? I need them for the Hex to Decimal base conversion programs.

Thanks, Martin

Re: 41CV functions

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 8 Sept 2002, 8:37 a.m.,
in response to message #1 by Martin

Hi;

XTOA and ATOX exist in the XFUNCTIONS and there is not DIRECT way to put them working in a plain HP41. The HP41CX already have them, and there are four equivalent (and somewhat more controlling) functions available in the Extended IO Functions Module: XTOAL, XTOAR, ATOXL and ATOXR.

Maybe there are others that do the same or closer, available in some non-HP modules OR in the Advantage Module, but I do not know about them. About converting from HEXadecimal to DECimal, I can tell I created a program to do the job without any other function than the standard ones. It's a little byte-consuming, but does the job. Are you interested? If so, let me know and I'm posting the list in here as soon as I find it...

Cheers.

Re: 41CV functions

*Message #3 Posted by [Martin \(UK\)](#) on 8 Sept 2002, 4:20 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Yes, thanks, I'm interested.

Incidentally, on one project I had to convert my Hexadecimal values to Octal for visiting engineers from the States. They said they hardly ever used Hex. Perhaps this is why the base model doesn't have Hex to Dec as a standard function.

Regards, Martin

Re: 41CV functions

*Message #4 Posted by [Les Bell \(Sydney\)](#) on 8 Sept 2002, 10:04 p.m.,
in response to message #3 by Martin (UK)*

The Hex/Octal thing basically depends on what types of computer one grew up with. While IBM documentation always used hex, DEC computers (such as the 12-bit PDP-8) and also HP machines were easier to work with in octal. Which is why the HP-65 and later machines supported decimal/octal conversion, of course.

As an example of why octal was sometimes more convenient, consider the Intel 8080. If you split the 8-bit opcode field into octal (from MSB to LSB), you wind up with a two-bit field, a three-bit field and a final three-bit field.

Now, if the two-bit field is 01, the remaining two three-bit fields represent the destination and source registers of a MOV, respectively, as shown in the following table:

A 7 B 0 C 1 D 2 E 3 H 4 L 5 M 6

So MOV A,D assembles into 0172. Knowing that the MVI (move immediate) opcode was 0x6, for example, it's obvious that 056 is a MVI L, instruction. And so on. There's tremendous orthogonality in the instruction set and opcodes that makes it very easy to assemble and disassemble using the Mark 1 human eye/brain combination - but it just doesn't work in hex.

I have here a couple of cardboard "slide rules": the "Tychon 8080 Octal Code Card" and the "Tychon 8080 Hex Code Card". As you slide the octal version, the patterns in the opcodes are obvious; as you slide the hex version, the patterns are much harder to see. The boundaries between hex nibbles just don't align with the opcode fields the processor actually works on, the way the octal digit fields do.

DEC and HP processors presumably had similar "octally-aligned" fields in their opcodes, while IBM didn't.

Of course, the complex instruction sets of modern microprocessors make it much more difficult to deal with instructions this way, and hardly anyone needs to identify opcodes by eye any more, so . . . and in that case, you might just as well use hex.

Best,

--- Les Bell, CISSP [<http://www.lesbell.com.au>]

Re: 41CV functions

*Message #5 Posted by [Chris Catotti \(Florida\)](#) on 9 Sept 2002, 5:33 p.m.,
in response to message #3 by Martin (UK)*

The Advantage Module handles Hexadecimal and Binary numbers easily.

The PPC Module has a program that converts Decimal to Base, and Base to Decimal, where the Base is any integer from 2 to 26. It uses synthetic programming but can be keyed in using a BYTE GRABBER, BYTE LOADER, copied from a PPC ROM, or I may have a BARCODE copy of it.

Email me if you like.

Re: 41CV functions

*Message #6 Posted by [Martin \(UK\)](#) on 10 Sept 2002, 1:53 p.m.,
in response to message #5 by Chris Catotti (Florida)*

Thanks for your help, everyone. I guess I'll do it the easy way and get a cheap Advantage module sometime.

Re: 41CV functions

*Message #7 Posted by [David Smith](#) on 10 Sept 2002, 5:32 p.m.,
in response to message #6 by Martin (UK)*

Lots of luck finding a cheap Advantage module. At one time they could be had fairly regularly for 20 bucks or less on Ebay. Then I saw one dufus bid over \$100 for one (without the box). Now I bet everybody expects their modules to bring even more (at least for a while). Also they seem to be getting scarcer and scarcer as time goes on.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Shaver case

Message #1 Posted by [Martin, UK](#) on 8 Sept 2002, 5:08 a.m.

I've found an agreeable substitute for the original HP-41 soft case.

It's from an old shaver, a Remington DA552. Its black, with a silver coloured zip, and my 41CV fits it perfectly.

The case even has a pocket that the CV fits snugly into!

Martin

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

CD's finally arrived.....

Message #1 Posted by [J Tiers](#) on 8 Sept 2002, 1:21 a.m.

Apparently the problem must have been a holdup in customs on the border coming from the United States into the State of Missouri.

Package was sent on the 29th, and only arrived now. Good old USPS.

Maybe they had to de-Anthrax it at the border, because some parts of it don't work. I could not get from the HTML pages to the manuals, even though there is a link. Link went into the weeds.

But I can open the manual no problem as a PDF from the directory, so I'm OK. Go figure.

Re: CD's finally arrived.....

Message #2 Posted by [John K. \(US\)](#) on 8 Sept 2002, 2:56 a.m.,
in response to message #1 by J Tiers

> I could not get from the HTML pages to the manuals, even though there is a link. Link went into the weeds.

Since you're having this problem, I'm going to assume that you're not using an operating system from that Really Big software company in Redmond, Washington. :^)

The problem is related to the fact that said company's OS products don't distinguish between upper- and lower-case characters in file path names. All of the links use lower-case letters and all of the files have upper-case names. If you're using a Mac, 10.2 seems to resolve things pretty well by making allowances for the Redmond company's (IMHO, broken) implementation of long/mixed-case filenames.

If you're using a *nix, your system's automounter should be set to map upper-case names to lower-case names on ISO 9660 file systems. If it doesn't, you'll need to refer to the man pages to figure out how to set this up. There is usually a file that has mounting options for known FS types.

Re: CD's finally arrived.....

*Message #3 Posted by [Dave Hicks](#) on 8 Sept 2002, 5:03 p.m.,
in response to message #2 by John K. (US)*

The lower case links were chosen to make as many *nix systems work by default as possible. All ISO 9660 CDs use only upper case filenames but most *nix systems map them to lower case by default. Windows and Macs don't care.

There's a [note about this](#) linked from the CD order page. It's been about a year since anyone had mentioned anything like this so I'm hoping that this was due to an old OS and not some new incompatibility.

A bit off-topic, but...

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 8 Sept 2002, 8:55 p.m.,
in response to message #3 by Dave Hicks*

Hi, Dave;

good reading your posts again.

Some months ago, I mentioned the possibility of having "bulk" (is it correctly applied here?) Forum Archives, so we could download for reading and also including them in the CD pack. That would allow us to (re)search on subjects, topics, authors and the like. Did you take some time to consider this? I (among many others) know and understand your time spent here is gold for each one of us, and you have been doing a lot of improvements in the Museum page. This is just a wish, nothing but a wish.

Thank you and best regards.

I'm sorry I don't remember this

*Message #5 Posted by [Dave Hicks](#) on 9 Sept 2002, 10:04 p.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)*

Did we talk about this through email or the forum?

Re: I'm sorry I don't remember this

Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 11 Sept 2002, 11:34 p.m.,
in response to message #5 by Dave Hicks

Hi;

This subject appeared at this forum when a lot of ideas about HW became the special of the day. I remember I mentioned that those ideas should be in focussed articles, together with many others. And if we had access to all of the posts, not in an on-line form, but as a file that could be downloaded to our computers, searching them would be a good way to compile the articles.

I also remember one of our contributors agreed with me, and this contributor (sorry I do not remember his name) introduced the term "bulk" as for the final file with all existing posts.

You see? I could not find the article where I post this idea, and I took a look at some of the most probable threads where I could find it. If the posts were available as files, organized as the same groups as they are available for the on-line reading, I could search for any post (faster) in my own computer.

I just want to know if this is possible. And if it is possible, would it also be a good idea to allow them to be downloaded? What's the actual size of all existing posts so far?

Thank you. And best regards.

Re: I'm sorry I don't remember this

Message #7 Posted by [Ellis Easley](#) on 12 Sept 2002, 1:40 p.m.,
in response to message #6 by Vieira, Luiz C. (Brazil)

I agreed with the idea of adding the Forum archives to the CD's, I likely did say "in bulk" by which I meant just as they are (not to add any more work for Dave). I figure since they are mostly* text, they wouldn't occupy too many megabytes, but I don't know how much it actually is in total.

*When a picture loads automatically, is it always a link to somewhere other than the Forum?

If it's too much altogether, maybe Dave could (1) filter out any post with "Ebay" in the text or (2) just include Tony Duell's and David Smith's and

Katie's and a few other's posts! They are usually very concise and informative.

Regardless of whether they go on the CDs or not, I have in mind to put together an FAQ list using links to the Archives for the answers. My idea is that anytime I search the Archives for some reason, I will save the links to useful threads or individual messages (isn't this sort of like the original idea behind Yahoo?)

And on the subject of searching the Archives, I have a suggestion. It would be nice if the default time span was wider, to include the complete Archive. Currently, the default range is Jan. 2000 to Dec. 2000. Every time I use the Archives, I make it Jan. 1990 to Dec. 2002. If the default was Jan. 1999 to Dec. 2007, it would save me a step!

Thank you and Sorry...

*Message #8 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 12 Sept 2002, 3:35 p.m.,
in response to message #7 by Ellis Easley*

Hi;

thank you, Ellis, and forgive-me not remembering that it was you who suggested that all.

So, Dave, do you think it's possible?

Thanks.

Re: Thank you and Sorry...

*Message #9 Posted by [Dave Hicks](#) on 12 Sept 2002, 9:32 p.m.,
in response to message #8 by Vieira, Luiz C. (Brazil)*

I've made the default date range for the archives "several eons".

The archives text in its internal form is about 20MB. If I convert it to HTML in order to make it friendly for a CD, then it expands to around 70MB. (Based on some preliminary attempts - I don't have a 100% complete method for this currently.)

It definitely won't fit on the next CD/DVD set in this expanded form. It might fit on the DVD in the internal form but I don't know if there's 20MB left on any of the 7 CDs. In any case, I wouldn't want to support it in its internal form since it would be accessed by text editor only. (There are HTML code fragments in the files but they are not valid HTML files.) I know a lot of people here could deal with it but I get a certain amount of "how do I use my CD drive" type emails and I don't want to make that any worse.

At some time in the future the expanded version could go onto a CD of its own or be part of a future double-sided DVD.

If one or both of you is prepared to take on the task of building articles based on the old postings and/or some index or FAQ, I would love to see that and would happily support you by sending you a CD with the archives.

Re: Thank you and Sorry...

Message #10 Posted by [jo se goncalves](#) on 13 Sept 2002, 7:39 a.m.,

in response to message #9 by Dave Hicks

seven CDs, next CD/DVD set ... uhh

can you tell us a little more about this, Dave ?

Well...

Message #11 Posted by [Dave Hicks](#) on 13 Sept 2002, 6:48 p.m.,

in response to message #10 by jo se goncalves

There will be 7 CD-ROMs or 1 DVD-ROM with about 4.5GB of materials. CDs 1-5 are the same as before. Anyone who bought the 5 CD set will be able to purchase CDs 6 and 7 or the DVD at an upgrade price.

It will be ready "fairly soon" now. (This year.)

I'm much interested...

*Message #12 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 13 Sept 2002, 8:44 a.m.,
in response to message #9 by Dave Hicks*

Hello;

I'd like very much having the forum files and build articles based on them, of course.

I know that a lot of details must be set up before any final document is available: authors authorization, conciseness, sequence criteria, subjects, among many others. Also, technical knowledge (I believe I can handle, but I hope I can count on you...) AND English language deep understanding (no comments... I'll often fail in that) are mandatory, so any additional text (bonding purposes) is also technically concise. I'd never disclose a final document without previous authors authorization.

AND mostly the copyright thing: every final text MUST, WILL belong to the MoHP.

Should I send you some recordable CD's so you can record the files in one of them and use the others to cover mailing expenses to send it back to me?

Let me know.

Cheers.

Re: I'm much interested...

*Message #13 Posted by [Ellis Easley](#) on 13 Sept 2002, 8:49 a.m.,
in response to message #12 by Vieira, Luiz C. (Brazil)*

Me too!

Just email me your shipping addresses

*Message #14 Posted by [Dave Hicks](#) on 13 Sept 2002, 6:42 p.m.,
in response to message #13 by Ellis Easley*

please. Will you two coordinate your work on this?

Nope its regular old win98.....

*Message #15 Posted by [J Tiers](#) on 8 Sept 2002, 10:19 p.m.,
in response to message #3 by Dave Hicks*

another box opened it up OK.

The first was using win 98 and Acrobat reader 3, the second Win 95 and acrobat reader 4, but the first has opened every other PDF I ever tried right from the HTML links.

Another problem to blame on Big Bill.....

Re: Nope its regular old win98.....

*Message #16 Posted by [Wayne Brown](#) on 9 Sept 2002, 7:37 a.m.,
in response to message #15 by J Tiers*

Acrobat Reader 3 had some problems with large PDF files. If started from a Web browser, it would read small PDF files OK but would display a blank screen for large files. Going to the PDF files on the CD directly it would read and display even the large files correctly. I had this problem not only with the Museum CDs, but also with other CDs containing HTML and PDF files. The problem disappeared when I upgraded to Acrobat Reader 4.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Ebay- does the display on this HP-80 look real?

Message #1 Posted by [gene](#) on 7 Sept 2002, 9:54 p.m.

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1379417017>

Notice how each "digit" appears inside a red block. Is this the way it should look?

Re: Ebay- does the display on this HP-80 look real?

Message #2 Posted by [Erik Wahlin](#) on 7 Sept 2002, 11:15 p.m.,
in response to message #1 by gene

Hi, This is one of my HP-80's that I am selling. The picture was taken with the calc on a HP bed scanner and you are seeing some strange artifact.

Then my apologies...just looked strange to me.

Message #3 Posted by [Gene](#) on 8 Sept 2002, 7:21 a.m.,
in response to message #2 by Erik Wahlin

Sorry about that. :-(

Gene

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP11C - dirt behind the screen glass

Message #1 Posted by [Nenad Vulic \(Croatia\)](#) on 7 Sept 2002, 11:43 a.m.

Having acquired an used, but a fully functional HP11C I noticed a small piece of dirt behind the display glass (on its back side). I would like to remove it. Would it be a problem to reach this part here after opening the calculator. How to disassemble this part and to assemble it back?

Thks in advance.

HP11C - dirt behind the screen glass

Message #2 Posted by [Emmanuel](#) on 7 Sept 2002, 11:55 a.m.,
in response to message #1 by Nenad Vulic (Croatia)

1. Remove the 4 rubber feet, 4 screws and back panel. Attention please. You have 2 antistatic springs on the printed board 2. Use a vacuum cleaner carefully 3. Replace the back panel, 4 screws and 4 rubber feet. Good luck!

Re: HP11C - dirt behind the screen glass

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 7 Sept 2002, 4:29 p.m.,
in response to message #2 by Emmanuel

Hello, Nenad;

Just check your 11C for the possibility it is an older model; this way, IF it is one of these, the PCB for the keyboard is different of the one used for the LCD + IC's (that are built in a flex circuit). These old calculators may have the LCD unit carefully removed, and they have eight small rubber foam to prevent from mechanical shock. Everything Emmanuel wrote is still a fact, and this other possibility may be taken into account.

Success.

Re: HP11C - dirt behind the screen glass

Message #4 Posted by [Nenad Vulic \(Croatia\)](#) on 8 Sept 2002, 4:10 a.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)

Many thanks to you both, Luiz-Claudio and Emmanuel. This is really an old model, made in USA. It was pretty easy to lift the LCD unit up and to remove the dust. After opening the machine, I was impressed with every detail in it; how robust it is.

After assembling and tightening the screws, the baby works perfect.

Thanks again, dear friends, this Forum is just great.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Speed Machine II fo HP-41CX

Message #1 Posted by [Emmanuel](#) on 7 Sept 2002, 3:02 a.m.

A friend of mine gave me module + overlay but w/o any user's manual. I would like a copy of it or to know how it works. Thanks. CATALOG 2 gives: SM II `BB `D1 `D10 `D11 `D12 `D13 `D14 `D15 `D16 `D17 `D18 `D19 `D2 `D20 `D3 `D4 `D5 `D6 `D7 `D8 `D9 DADJ `NEWC `RACE `RTIME `STORE `T1 `T2 `T3 `\$MGT `AA `AST `CLR `D-DBL `DIST `GH `HIA `MISC `N `NEXT `NTIME `NXFUN `O `PIC6 `PLACE `PPA PSIZE `Q `Q? `R `RECOVER `RNK `RSET `S `SCORE `SEE\$ `SHOW `SK `T `TOP `TRI `U `UPDT `V `VIEWT `VU `W `WIN `X `XACT `Y `Z `ZA `ZB `ZP `ZQ `ZZ

Speed Machine II fo HP-41CX (addendum)

Message #2 Posted by [Emmanuel](#) on 7 Sept 2002, 3:53 a.m.,
in response to message #1 by Emmanuel

Speed Machine II is a 8K module

DISASM gives for the first page:

A000 015 XROM 21

A001 01E FCNS 30

A002 000 SM II

A003 048 ADDR A048

A004 202 `BB

A005 007 ADDR A207

A006 205 `D1

A007 060 ADDR A560

A008 206 `D10

A009 0BE ADDR A6BE

A00A 206 `D11

A00B 0E2 ADDR A6E2

A00C 207 `D12

A00D 003 ADDR A703

A00E 207 `D13

A00F 040 ADDR A740

A010 207 `D14

A011 05F ADDR A75F

A012 207 `D15

A013 093 ADDR A793

A014 207 `D16

A015 0B4 ADDR A7B4

A016 207 `D17

A017 0D3 ADDR A7D3

A018 207 `D18

A019 0F0 ADDR A7F0

A01A 208 `D19

A01B 00E ADDR A80E

A01C 205 `D2

A01D 07F ADDR A57F

A01E 208 `D20

A01F 02B ADDR A82B

A020 205 `D3

A021 09B ADDR A59B

A022 205 `D4

A023 0B9 ADDR A5B9

A024 205 `D5

A025 0D3 ADDR A5D3

A026 206 `D6

A027 027 ADDR A627

A028 206 `D7

A029 043 ADDR A643

A02A 206 `D8

A02B 081 ADDR A681

A02C 206 `D9

A02D 09B ADDR A69B

A02E 008 DADJ

A02F 0CD ADDR A8CD

A030 208 `NEWC

A031 08F ADDR A88F

A032 200 `RACE

A033 04B ADDR A04B

A034 20E `RTIME

A035 05F ADDR AE5F

A036 20D `STORE

A037 08A ADDR AD8A

A038 200 `T1

A039 067 ADDR A067

A03A 200 `T2

A03B 0E4 ADDR A0E4

A03C 200 `T3

A03D 0B2 ADDR A0B2

...

And for the second page:

B000 01F XROM 31

B001 030 FCNS 48

B002 208 `\$MGT

B003 0A5 ADDR B8A5

B004 201 `AA

B005 013 ADDR B113

B006 203 `AST

B007 063 ADDR B363

B008 202 `CLR

B009 0F2 ADDR B2F2

B00A 209 `D-DBL

B00B 040 ADDR B940

B00C 200 `DIST

B00D 066 ADDR B066

B00E 206 `GH

B00F 04D ADDR B64D

B010 203 `HIA

B011 010 ADDR B310

B012 209 `MISC

B013 0AF ADDR B9AF

B014 208 `N

B015 0DC ADDR B8DC

B016 202 `NEXT

B017 0D6 ADDR B2D6

B018 203 `NTIME

B019 026 ADDR B326

B01A 203 `NXFUN

B01B 044 ADDR B344

B01C 208 `O

B01D 0CF ADDR B8CF

B01E 209 `PIC6

B01F 093 ADDR B993

B020 209 `PLACE

B021 008 ADDR B908

B022 206 `PPA

B023 0B5 ADDR B6B5

B024 00F PSIZE

B025 07D ADDR BF7D

B026 204 `Q

B027 070 ADDR B470

B028 209 `Q?

B029 0CA ADDR B9CA

B02A 204 `R

B02B 0EF ADDR B4EF

B02C 201 `RECOVER

B02D 07D ADDR B17D

B02E 20B `RNK

B02F 035 ADDR BB35

B030 202 `RSET

B031 0B0 ADDR B2B0

B032 205 `S

B033 0AD ADDR B5AD

B034 205 `SCORE

B035 0A1 ADDR B5A1

B036 209 `SEE\$

B037 0FC ADDR B9FC

B038 209 `SHOW

B039 025 ADDR B925

B03A 201 `SK

B03B 0C0 ADDR B1C0

B03C 205 `T

B03D 078 ADDR B578

B03E 202 `TOP

B03F 0BE ADDR B2BE

B040 209 `TRI

B041 07A ADDR B97A

B042 205 `U

B043 0F1 ADDR B5F1

B044 204 `UPDT

B045 04E ADDR B44E

B046 20A `V

B047 0F5 ADDR BAF5

B048 203 `VIEWT

B049 086 ADDR B386

B04A 20A `VU

B04B 0A4 ADDR BAA4

B04C 201 `W

B04D 036 ADDR B136

B04E 208 `WIN

B04F 0EF ADDR B8EF

B050 204 `X

B051 011 ADDR B411

B052 209 `XACT

B053 05D ADDR B95D

B054 202 `Y

B055 04D ADDR B24D

B056 202 `Z

B057 08D ADDR B28D

B058 201 `ZA

B059 06B ADDR B16B

B05A 200 `ZB

B05B 082 ADDR B082

B05C 20A `ZP

B05D 014 ADDR BA14

B05E 204 `ZQ

B05F 0F8 ADDR B4F8

B060 201 `ZZ

B061 02C ADDR B12C

...

Re: Speed Machine II fo HP-41CX

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 8 Sept 2002, 8:46 a.m.,
in response to message #1 by Emmanuel

Hi;

by reading the name of the functions, some in particular called my attention: RNK, SCORE, RACE, WIN, \$MGT and SEE\$. Based on the name of the module - Speed Machine -, what's the possibility of being a game?

Just a question...

Speed Machine II fo HP-41CX

Message #4 Posted by [Emmanuel](#) on 8 Sept 2002, 9:36 a.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)

Transforms your HP-41CX into a horse race computer. I would like to adapt it to french PMU.

Re: Speed Machine II fo HP-41CX

Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 8 Sept 2002, 12:47 p.m.,
in response to message #4 by Emmanuel

Hi, again;

I have a Financial Decisions module and a Navigation module, both for the HP41 calculators. The Navigation is a 8K ROM module, and both modules are full of programs that can be listed, printed. No function.

Have you checked if your Speed Machine II contains functions or programs? If they are programs, you can list them and, by inspection, create equivalent programs in other languages.

Just another idea...

Cheers.

(In time: forgive my ignorance, but... what does PMU stand for?)

Speed Machine II fo HP-41CX

Message #6 Posted by [Emmanuel](#) on 8 Sept 2002, 2:03 p.m.,
in response to message #5 by Vieira, Luiz C. (Brazil)

Please visit www.pmu.fr For instance 'RACE: 01 LBL "RACE" 02 XROM "NEWC" 03 FC? 08 04 XROM "CLR" 05 XROM "Z" 06 CF 05 07 CF 10 08 FS? 08 09 XROM "RSET" 10 0 11 FC? 08 12 STO 01 13 LBL "T1" 14 1 15 ST+ 01 16 LBL 99 17 FS? 05 18 GTO "T3" 19 "RACE " 20 FIX 0 21 ARCL 01 22 LBL 98 23 CF 08 24 AVIEW 25 PSE 26 "NO. HORSES?" 27 PROMPT 28 STO 04 29 X<0? 30 GTO 99 31 "TODAYS TRACK" 32 PROMPT 33 STO 00 34 X<=0? 35 GTO 99 36 XEQ 66 37 SF 11 38 LBL "T3" 39 "TODAYS DIS.?" 40 PROMPT 41 GTO "T3" 42 LBL 53 43 RCL 14 44 STO 17 45 CF 11 46 FS? 05 47 GTO "R" 48 RCL 04 49 0.01 50 + 51 1000 52 / 53 1 54 + 55 STO 04 56 LBL "T2" 57 0 58 STO 16 59 LBL 43 60 X<0? 61 GTO 91 62 "PP. " 63 FIX 0 64 ARCL 04 65 AVIEW 66 PSE

67 RCL 04 68 FRC 69 STO 06 70 LBL 70 71 "TODAYS WT.?" 72 PROMPT 73
STO 07 74 X<0? 75 GTO 43 76 X=0? 77 GTO 90 78 LBL 71 79 "LAST TRACK?"
80 PROMPT 81 STO 08 82 X<=0? 83 GTO 70 84 SF 12 85 "LAST DIS.?" 86
PROMPT 87 GTO 71 88 LBL 73 89 CF 12 90 RCL 14 91 STO 18 92 "LAST PP.?"
93 PROMPT 94 STO 11 95 X<0? 96 GTO 71 97 LBL 74 98 "LAST WT.?" 99
PROMPT 100 X<0? 101 GTO 73 102 ST- 07 103 "TRACK VAR.?" 104 PROMPT
105 STO 10 106 LBL 75 107 "FINAL TIME?" 108 PROMPT 109 STO 12 110
X<0? 111 GTO 70 112 FRC 113 ST+ 12 114 XROM "HIA" 115 LBL 76 116
"BEAT LENGTHS" 117 PROMPT 118 STO 13 119 X<0? 120 GTO 75 121 XEQ
02 122 RCL 03 123 STO 05 124 XEQ 62 125 FIX 1 126 RCL 34 127 STO 21 128
RCL 09 129 STO 05 130 XEQ 62 131 XROM "PPA" 132 RCL 38 133 STO 37 134
XEQ 04 135 FS? 02 136 GTO 05 137 1 138 STO 05 139 XEQ 69 140 SF 00 141
GTO 06 142 LBL 05 143 XEQ 07 144 LBL 06 145 XEQ 09 146 RCL 19 147 STO
24 148 SF 03 149 FS? 04 150 GTO 31 151 XEQ 32 152 LBL 77 153 FC? 09 154
GTO 34 155 "D4" 156 ASTO 05 157 "6F TIME?" 158 PROMPT 159 STO 12 160 -
2 161 X Y? 162 GTO "BB" 163 0 164 STO 19 165 GTO 31 166 LBL "BB" 167
RCL 12 168 X<0? 169 GTO 97 170 FRC 171 ST+ 12 172 XROM "HIA" 173 LBL
35 174 "BEAT LENGTHS" 175 PROMPT 176 STO 13 177 X<0? 178 GTO 77 179
XEQ 62 180 RCL 14 181 STO 05 182 XROM "DIST" 183 XEQ 04 184 FS? 02 185
GTO 10 186 2 187 STO 05 188 XEQ 69 189 GTO 11 190 LBL 10 191 XEQ 07 192
LBL 11 193 XEQ 09 194 RCL 19 195 STO 25 196 FS? 02 197 GTO 12 198 XEQ
63 199 GTO 31 200 LBL 12 201 SF 06 202 LBL 79 203 FC? 09 204 GTO 36 205 1
206 STO 05 207 "4F TIME?" 208 PROMPT 209 STO 12 210 X<0? 211 GTO 58
212 FRC 213 ST+ 12 214 XROM "HIA" 215 LBL 37 216 "BEAT LENGTHS" 217
PROMPT 218 STO 13 219 X<0? 220 GTO 79 221 XEQ 62 222 2 223 FS? 09 224 1
225 STO 05 226 XROM "DIST" 227 XEQ 04 228 XEQ 07 229 XEQ 09 230 LBL
31 231 1 232 ST+ 16 233 RCL 16 234 1 235 X=Y? 236 GTO 59 237 XEQ 44 238
GTO 56 239 LBL 59 240 XROM "STORE" 241 LBL 56 242 "EX OR OFF TR" 243
AON 244 PROMPT 245 ASTO X 246 "X" 247 ASTO Y 248 AOFF 249 X=Y? 250
GTO 24 251 "N" 252 ASTO Y 253 X=Y? 254 GTO 38 255 "O" 256 ASTO Y 257 X
Y? 258 GTO 56 259 SF 10 260 0 261 GTO 43 262 LBL 90 263 XROM "SK" 264
XROM "STORE" 265 LBL 38 266 CF 10 267 FS?C 05 268 GTO "ZQ" 269 ISG 04
270 GTO "T2" 271 "*****" 272 SF 12 273 AVIEW 274 CF 12 275 PSE
276 XROM "Z" 277 SF 08 278 LBL 14 279 CLX 280 " SELECT" 281 PROMPT
282 GTO 14 283 LBL 34 284 1 285 STO 05 286 "4F TIME?" 287 PROMPT 288
STO 12 289 -2 290 X Y? 291 GTO 64 292 0 293 STO 19 294 GTO 31 295 LBL 64
296 RCL 12 297 X<0? 298 GTO 97 299 FRC 300 ST+ 12 301 XROM "HIA" 302
GTO 35 303 LBL 36 304 0 305 STO 05 306 "2F TIME" 307 PROMPT 308 STO 12
309 X<0? 310 GTO 97 311 FRC 312 ST+ 12 313 XROM "HIA" 314 GTO 37 315
LBL 58 316 CF 06 317 RCL 19 318 RCL 36 319 * 320 ST- 23 321 GTO 77 322
LBL 97 323 XROM "Z" 324 GTO 75 325 LBL 44 326 FS?C 10 327 GTO 68 328
RCL 23 329 RCL 33 330 LBL 67 331 X>Y? 332 GTO 03 333 2 334 ST+ 02 335
XROM "STORE" 336 RTN 337 LBL 68 338 RCL 33 339 RCL 23 340 GTO 67 341

LBL 02 342 RCL 18 343 8 344 X>Y? 345 GTO 27 346 SF 02 347 RCL 17 348 8
349 X>Y? 350 RTN 351 SF 09 352 RTN 353 LBL 03 354 XROM "Z" 355 RTN
356 LBL 27 357 SF 07 358 RCL 17 359 8 360 X<=Y? 361 RTN 362 SF 02 363
RTN 364 LBL 04 365 RCL 34 366 INT 367 STO 39 368 LASTX 369 FRC 370
STO 40 371 RCL 07 372 RCL 39 373 / 374 ST+ 12 375 RCL 13 376 5 377 / 378 ST
+ 12 379 RCL 12 380 RCL 15 381 - 382 RCL 40 383 / 384 CHS 385 100 386 + 387
STO 19 388 RCL 10 389 ST+ 19 390 RCL 37 391 ST+ 19 392 RTN 393 LBL 07
394 FS? 00 395 GTO 08 396 1 397 STO 36 398 SF 00 399 RCL 36 400 ST+ 22 401
RTN 402 LBL 08 403 RCL 36 404 RCL 35 405 / 406 2 407 / 408 STO 36 409 ST+
22 410 RTN 411 LBL 09 412 RCL 19 413 RCL 36 414 * 415 ST+ 23 416 CLX 417
RTN 418 LBL 32 419 FC? 02 420 RTN 421 FS? 09 422 RTN 423 6 424 RCL 18
425 X<=Y? 426 RTN 427 RCL 17 428 RCL 18 429 X<=Y? 430 RTN 431 "6F
TIME?" 432 PROMPT 433 STO 12 434 X<0? 435 RTN 436 FRC 437 ST+ 12 438
XROM "HIA" 439 "BEAT LENGTHS" 440 PROMPT 441 STO 13 442 RCL 35
443 STO 21 444 RCL 14 445 STO 32 446 RCL 36 447 STO 30 448 "D4" 449
ASTO 05 450 CF 00 451 XEQ 62 452 FS? 07 453 GTO 17 454 RCL 18 455 8 456 -
457 -.75 458 * 459 2.7 460 + 461 ST+ 38 462 LBL 18 463 RCL 38 464 STO 37 465
XEQ 04 466 XEQ 07 467 XEQ 09 468 RCL 19 469 RCL 24 470 X>Y? 471 GTO
41 472 6 473 RCL 17 474 X<=Y? 475 GTO 42 476 RCL 32 477 RCL 17 478 - 479
RCL 32 480 6 481 - 482 / 483 ABS 484 STO 31 485 RCL 19 486 * 487 1 488 RCL
31 489 - 490 RCL 24 491 * 492 + 493 STO 19 494 LBL 42 495 RCL 19 496 STO
24 497 GTO 41 498 LBL 17 499 RCL 18 500 6 501 - 502 -5.333 503 * 504 ST+ 38
505 GTO 18 506 LBL 41 507 RCL 24 508 STO 19 509 RCL 30 510 * 511 STO 23
512 RCL 21 513 STO 35 514 RCL 30 515 STO 36 516 RCL 32 517 STO 14 518
RTN 519 LBL 69 520 RCL 05 521 2 522 X=Y? 523 GTO 15 524 .15 525 RCL 21
526 FRC 527 / 528 .5 529 + 530 RCL 18 531 6 532 - 533 .05 534 * 535 + 536 STO
20 537 STO 36 538 STO 35 539 RTN 540 LBL 15 541 4 542 RCL 17 543 / 544 2
545 / 546 STO 21 547 STO 36 548 ST+ 35 549 RTN 550 LBL 66 551 RCL 01 552
STO IND 02 553 RCL 04 554 100 555 / 556 ST+ IND 02 557 1 558 ST- 02 559
RTN 560 LBL 63 561 RCL 17 562 RCL 18 563 - 564 -2 565 * 566 8 567 RCL 18
568 - 569 6 570 / 571 1 572 + 573 * 574 RCL 24 575 STO 19 576 + 577 STO 24
578 RCL 19 579 RCL 25 580 STO 19 581 RDN 582 STO 25 583 RTN 584 LBL 62
585 GTO IND 05 586 LBL 00 587 2 588 STO 14 589 21.5 590 STO 15 591 80.05
592 STO 34 593 GTO 20 594 LBL 01 595 4 596 STO 14 597 43.3 598 STO 15 599
40.1 600 STO 34 601 GTO 20 602 LBL "D1" 603 "D1" 604 4.5 605 49.2 606
37.1125 607 XEQ 23 608 GTO 20 609 LBL "D2" 610 "D2" 611 5 612 55.2 613
35.125 614 XEQ 23 615 GTO 20 616 LBL "D3" 617 "D3" 618 5.5 619 1.2 620
33.1375 621 XEQ 23 622 GTO 20 623 LBL "D4" 624 "D4" 625 6 626 7.4 627
30.15 628 XEQ 23 629 GTO 20 630 LBL "D5" 631 "D5" 632 6.5 633 13.5 634
27.1625 635 XEQ 23 636 FS? 11 637 GTO 20 638 FS? 12 639 GTO 20 640 RCL 08
641 19 642 X Y? 643 GTO 22 644 12 645 STO 15 646 28.1595 647 STO 34 648
GTO 20 649 LBL 22 650 RCL 08 651 47 652 X Y? 653 GTO 20 654 13 655 STO
15 656 27.1617 657 STO 34 658 GTO 20 659 LBL "D6" 660 "D6" 661 7 662 19.3

663 25.175 664 XEQ 23 665 GTO 20 666 LBL "D7" 667 "D7" 668 7.5 669 25.3
670 23.1825 671 XEQ 23 672 FS? 11 673 GTO 20 674 FS? 12 675 GTO 20 676
RCL 08 677 22 678 X Y? 679 GTO 20 680 21.3 681 STO 15 682 24.1788 683 STO
34 684 GTO 20 685 LBL "D8" 686 "D8" 687 8 688 33.2 689 20.2 690 XEQ 23 691
GTO 20 692 LBL "D9" 693 "D9" 694 8.18182 695 35.28 696 20.204 697 XEQ 23
698 GTO 20 699 LBL "D10" 700 "D10" 701 8.3182 702 37.2 703 20.2075 704
XEQ 23 705 GTO 20 706 LBL "D11" 707 "D11" 708 8.5 709 39.4 710 19.2125 711
XEQ 23 712 GTO 20 713 LBL "D12" 714 "D12" 715 9 716 45.7 717 18.225 718
XEQ 23 719 FS? 11 720 GTO 20 721 FS? 12 722 GTO 20 723 RCL 08 724 35 725
X Y? 726 GTO 20 727 43.6 728 STO 15 729 18.2208 730 STO 34 731 GTO 20 732
LBL "D13" 733 "D13" 734 9.5 735 52 736 16.2375 737 XEQ 23 738 GTO 20 739
LBL "D14" 740 "D14" 741 10 742 58.3 743 15.25 744 XEQ 23 745 RCL 08 746 6
747 X Y? 748 GTO 20 749 57.12 750 STO 15 751 15.2477 752 STO 34 753 GTO
20 754 LBL "D15" 755 "D15" 756 10.5 757 4.7 758 14.2625 759 XEQ 23 760 GTO
20 761 LBL "D16" 762 "D16" 763 11 764 11.1 765 13.275 766 XEQ 23 767 GTO
20 768 LBL "D17" 769 "D17" 770 12 771 23.9 772 10.3 773 XEQ 23 774 GTO 20
775 LBL "D18" 776 "D18" 777 13 778 36.7 779 8.325 780 XEQ 23 781 GTO 20
782 LBL "D19" 783 "D19" 784 14 785 50.7 786 5.35 787 XEQ 23 788 GTO 20 789
LBL "D20" 790 "D20" 791 16 792 15.8 793 1.4 794 XEQ 23 795 LBL 20 796 FS?
11 797 ASTO 03 798 FS? 12 799 ASTO 09 800 FS? 11 801 GTO 53 802 FS? 12
803 GTO 73 804 FC? 02 805 RTN 806 RCL 14 807 FS? 01 808 GTO 21 809 STO
35 810 CLX 811 SF 01 812 RTN 813 LBL 21 814 STO 36 815 RTN 816 LBL 23
817 STO 34 818 RDN 819 STO 15 820 RDN 821 STO 14 822 RTN 823 LBL 91
824 RCL 04 825 INT 826 1 827 X Y? 828 GTO 43 829 1 830 ST+ 02 831 GTO 99
832 LBL 24 833 0 834 GTO 43 835 END

Re: Speed Machine II fo HP-41CX

Message #7 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 8 Sept 2002, 2:50 p.m.,
in response to message #6 by Emmanuel

Great!

We're one step ahead, now. Are all the other XROM that way? If so, big chances
are the programs can be rewritten in almost any language, given FOCAL (name
given to the HP41 programing language) is mid-level language, say, something
beyond C and Pascal.

If you need, count on me.

Cheers (I'm going to visit PMU right now).

Re: Speed Machine II fo HP-41CX

*Message #8 Posted by [Johnny](#) on 11 Sept 2002, 8:55 a.m.,
in response to message #7 by Vieira, Luiz C. (Brazil)*

Where did this "FOCAL" come from? FOCAL is an existing programming language, and while it's perhaps somewhat primitive, it's not the same thing as the programming language in the HP41.

FOCAL is like a more primitive BASIC. I have a programming manual for FOCAL on the PDP-8 somewhere around, if someone wants me to look anything up.

Re: FOCAL (formerly: SM II for the HP41CX)

*Message #9 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 11 Sept 2002, 12:31 p.m.,
in response to message #8 by Johnny*

Hi;

I'm not sure about when, as a precise moment, but it was in the 80's when the HP Journal published a contest where the HP41's programming language would be named. I could not read that in time to participate, but I thought about FOSPIC (Forty One's Set of Programmable Instruction Code). Reminds BASIC, suggests forty-one's speak... I also know about EUREKA, suggested by Andrés C. Rodrigues (Argentina), who posted the meaning of each letter in the name EUREKA a few weeks ago. Well, FOCAL was chosen to be the name of the HP41's programming language.

(Did I miss something?)

Cheers.

FOCAL and EUREKA

*Message #10 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 13 Sept 2002, 8:25 a.m.,
in response to message #9 by Vieira, Luiz C. (Brazil)*

I also had used FOCAL on a DEC PDP-11 (the LSI-11 version) in 1978, so I don't like the reuse of this name for the HP 41 system. I suggested the EUREKA name for the HP 41 programming language, since (in my opinion) it is an acronym for the most distinctive HP 41 features:

E: Expandability, represented by hardware accessories and peripherals such as Printers, Card Reader, Wand, HP-IL, etc.

U: User-mode keyboard. Keyboard redefinition was an HP 41 first.

R: RPN (classic, 4-levels version)., opposed to Texas Instruments Algebraic Operating System (AOS) or BASIC syntax.

E: Extendibility, represented by software extensions such as Application Pacs (ROMs), XFunctions, etc; and also user-programmed functions which can be called by other programs in the same manner than built-in functions (i.e.: keyboard assignment, indirect execution, XEQ command.).

K: Keystroke operation and programming; as opposed to BASIC-based calculators of the time (1980), in which you needed to type something as "?", "S", "I", "N", "(", "3", "0", ")", [RETURN] to get an answer. Nine key presses against three on a HP 41 for the same result. (The "?" was a shortcut for "PRINT")

A: Alpha capabilities, another HP 41 first for these kind of calculators.

Je vous comprendes, maintenant... (I understand you, now)

Message #11 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 8 Sept 2002, 3:04 p.m.,
in response to message #6 by Emmanuel

C'est le Paris Mutuel Urbain. (It's the Mutual Paris Urbain)

Merci. (Thanks)

Et salutations du Brésil! (and greetings from Brazil)

(Je le comprends un peu di (du?) Français, but I must confess I needed to look at a dicctionary... If this is wrong, forgive-me.)

Te entiendo en espa-ñol tambien

Message #12 Posted by [Emmanuel](#) on 8 Sept 2002, 3:41 p.m.,
in response to message #11 by Vieira, Luiz C. (Brazil)

Dear Luiz, Please send me an email if you want a disassembled listing of this 8Kb ROM. Yours. Emmanuel

Re: Te entiendo en espa-ñol tambien

Message #13 Posted by [Raymond Hellstern](#) on 9 Sept 2002, 6:00 a.m.,
in response to message #12 by Emmanuel

Hi Emmanuel,

the main language in Brazil is Portugese;-)

Regards,

Raymond

Ich weiss! Danke! Grösse!

Message #14 Posted by [Emmanuel](#) on 9 Sept 2002, 11:56 a.m.,
in response to message #13 by Raymond Hellstern

I promise keeping plain English....

*Message #15 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 9 Sept 2002, 3:12 p.m.,
in response to message #14 by Emmanuel*

...

;o))

*Message #16 Posted by [Emmanuel](#) on 9 Sept 2002, 3:43 p.m.,
in response to message #15 by Vieira, Luiz C. (Brazil)*

*Message #17 Posted by on 10 Sept 2002, 3:20 a.m.,
in response to message #16 by Emmanuel*

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP49G--Quirk or Problem?

Message #1 Posted by [Speck](#) on 6 Sept 2002, 7:17 p.m.

Hi, all. I've got a 49G that I'm still learning to use. When I'm in Algebraic mode, I can press LeftShift followed by F1 to get the Y editor, or F2 to get the window setup dialog box, etc. However, when I'm in RPN mode, I have to Press AND HOLD LeftShift while I press the function key I want to use. I am currently running VERSION 1.19-6. Is this an RPN flag issue or soemthing I don't know about? The difference between the two modes is confusing. Why does my HP do this? Any help would be greatly appreciated.

Took me the longest time to even find the Y editor in RPN!

Speck.

Re: HP49G--Quirk or Problem?

Message #2 Posted by [J.C. Randerson](#) on 6 Sept 2002, 9:41 p.m.,
in response to message #1 by Speck

You're doing fine, you're less confused than you think. You figured out the trick to graphing in RPN mode, good work. This is not a flag issue, but a deliberate program trick by the ACO to graph in RPN mode.

Stay in RPN mode, and learn the machine that way. If you absolutely need some algebraic operations use the Equation Writer. The HP49, despite its default algebraic mode, is really an HP48 with a lot of extra memory and programming. And the HP48 was an RPN machine.

The best newsgroup for HP48/49 discussions and questions is commonly known as comp.sys.hp48: <http://groups.google.com/groups?q=comp.sys.hp48&ie=UTF-8&oe=UTF-8&hl=en>

THE program site for HP calcs is: www.hpcalc.org

Between those 2 sources you have almost everything needed to make your 49 sing and dance. I'm not the last word on the 49, but I've used it a few years. It's a terrific machine, stick with it.

Email me directly if you want more info sources.

best wishes,

J.C. Randerson

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP1XC accessories

Message #1 Posted by [Adrian](#) on 6 Sept 2002, 6:08 p.m.

It used to be possible to buy spares for the 10C series - soft cases and battery covers - from HP, but I can't find the reference on their web pages any more.

Does anyone still have stocks ?

Re: HP1XC accessories

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Sept 2002, 11:48 p.m.,
in response to message #1 by Adrian

Hi;

do you remember how was it accomplished in the past? I'd like to know. A few months ago, the last HP42S available at Hewlett-Packard's stock were "engulfed" by people around here. If there is any sort of Voyagers (HP1XC) in stock, they'll also be gone fastly.

Cheers.

Re: HP1XC accessories

Message #3 Posted by [adrian godwin](#) on 12 Sept 2002, 3:14 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

It wasn't older 1xC models that were for sale - just spare parts. There was a reference somewhere on HP's web pages for the 12C (perhaps in the FAQ ?) that claimed spare battery doors and slip cases could be ordered from HP. Of course, they'd fit the other models, too.

Re: HP1XC accessories

*Message #4 Posted by [David Smith](#) on 13 Sept 2002, 3:29 p.m.,
in response to message #3 by adrian godwin*

The HP12C battery doors could very well NOT fit the older machines. HP changed the design of the later HP12 units to use a single coin cell battery and the door style changed.

Re: HP1XC accessories

*Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 13 Sept 2002, 5:52 p.m.,
in response to message #4 by David Smith*

It does not fit, for sure. Another, very different layout.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

? on HP 48 manual

Message #1 Posted by [barry](#) on 6 Sept 2002, 12:59 p.m.

i have a factory original HP manual; it is entitled: "HP 48 Owner's Manual"; it is about 2" thick, and is P/N 00048-90091, edition 2, 8/92; it shows an HP 48SX on the cover, but references only "HP 48" inside. is this for the HP 48S/SX calc? tnx, barry carson city, nv

Re: ? on HP 48 manual

Message #2 Posted by [Ron Ross](#) on 6 Sept 2002, 1:05 p.m.,
in response to message #1 by barry

Yes. The 48s and sx are identical aside from the two card slots available on the sx. On the G series, the GX was provided with more memory also, but that aside, operations were still identical between the upper and lower range calculators. Hp should have marketed the G+ much sooner, but probalby was afraid of robbing GX sales.

Re: ? on HP 48 manual

Message #3 Posted by [Christof \(Davis, CA\)](#) on 6 Sept 2002, 1:27 p.m.,
in response to message #1 by barry

Yep- that's the S/SX manual. the g/+/x calcs have a basic manual that is titled "hp48 g series user's guide"

Re: ? on HP 48 manual

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Sept 2002, 3:48 p.m.,
in response to message #1 by barry

Hi;

have a look at chapter 34; the differences between HP48S and HP48SX (I think it's not mentioned this way) are explained. In the beginning of this chapter, we read a sentence that states: "Except for the HP48S model, the HP48 has two plug-in ports...". Sounds strange, han?

Cheers.

48G+?

Message #5 Posted by [Scuba Diver](#) on 6 Sept 2002, 4:14 p.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)

Would someone mind explaining the difference between the G+ and the G/GX? I know the G has less memory and doesn't have the plug in ports; is the G+ a 128K version of the G?

Thanks in advance for your reply! Brendan

Re: ? on HP 48 manual

Message #6 Posted by [barry](#) on 6 Sept 2002, 4:43 p.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)

hi luiz, tnx! actually, in CH. 34 they refer to HP 48, HP48S & "NOT for the HP48S"; so possibly this is a intermediate manual, for the HP48 & HP48S? or is there NO HP 48? there is NO mention of the HP 48SX in this manual, not anywhere i can find, and not in CH. 34.
tnx, barry carson city, nv

Re: ? on HP 48 manual

Message #7 Posted by [Chan Tran](#) on 6 Sept 2002, 5:14 p.m.,
in response to message #6 by barry

HP introduced the 48SX before the 48S. So, I think when they said 48 they meant 48SX.

Re: ? on HP 48 manual

*Message #8 Posted by [barry](#) on 6 Sept 2002, 7:40 p.m.,
in response to message #7 by Chan Tran*

tnx chan! naturally, not being all that familiar w/ HP calcs, i assumed that the 48S would come BEFORE the 48SX! leave it to HP to go against the grain! barry carson
city nv

Re: ? on HP 48 manual

*Message #9 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Sept 2002, 10:01 p.m.,
in response to message #8 by barry*

Hi;

Chan Tran is completely right. At the time HP offered the HP48SX to the world, it was meant to be the intermediate of two worlds: the HP41 community and the newcomming HP28 followers. As the HP41 series offered the extension capabilities AND ability to communicate with the external world, the HP48 should offer both. And it did: RS232 for comms, and PCM-CIA connectors. Wow!

Against this was only the PCM-CIA cards price. They are somewhat expensive, and a lot of HOP48 users could not afford buying them. What to do? Offer a low-cost version of the HP48, that was SX when born. Let's take the 'X' of, and so the eXtension capabilities. So, the HP48S is born.

(I must stop reading poetry)

Hope this clarifies.

Cheers.

Re: ? on HP 48 manual

*Message #10 Posted by [barry](#) on 6 Sept 2002, 10:26 p.m.,
in response to message #9 by Vieira, Luiz C. (Brazil)*

and to support this, luiz, the manual does a lot of comparisons between the HP41 and the HP48.

Re: ? on HP 48 manual

Message #11 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Sept 2002, 11:42 p.m.,
in response to message #10 by barry

You bet!

And if you have the time to, have a look [here](#) (self promotion). I wrote a book named "Da HP41 para a HP48" (from the HP41 to the HP48) that goes a bit deeper. A lot deeper (I did not read it yet) and many light-years ahead my book is "HP41/HP48 Transitions", written by Bill Wickes (Project Leader for the HP28). This is really great!

You know what? Appendix F in your HP48 Owner's Manual was added later. I have a previous edition (two volumes, spiral bond) and all of the comparisons are absent.

It's good getting (a little) back in time and share a few words about it.

Cheers.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

The final version of HP-42X is available

Message #1 Posted by [HrastProgrammer](#) on 6 Sept 2002, 7:46 a.m.

Details on how to get it are on my homepage <http://hrastprogrammer.tripod.com...>

There are few variations of HP-42X according to the various calculator configurations and different user needs. These are:

HP42X48: The FINAL version for HP-48GX with a 128K RAM card in Slot1 and $\geq 128K$ RAM card in Slot2. Uses one RAM card for the HP-42/Emulator ROM and another for the HP-42/Emulator RAM.

HP42X48D: The DEMO version for HP-48GX with only one $\geq 128K$ RAM card in either Slot1 or Slot2. Uses RAM card for the HP-42/Emulator ROM and main calculator RAM for the HP-42/Emulator RAM. Destroys some parts of main calculator RAM!

HP42X48L: The FINAL version for HP-48GX with only one $\geq 128K$ RAM card in either Slot1 or Slot2. Uses RAM card for the HP-42/Emulator ROM and Port0 for the HP-42/Emulator RAM.

HP42X48S: The FINAL version for HP-48SX with a 128K RAM card in Port1 and another 128K RAM card in Port2. Uses one RAM card for the HP-42/Emulator ROM and another for the HP-42/Emulator RAM.

HP42X49: The FINAL version for HP-49G with both banks of Port1 empty. Uses one bank for the HP-42/Emulator ROM and another for the HP-42/Emulator RAM (uses the whole Port1).

HP42X49D: The DEMO version for HP-49G with only one bank of Port1 empty. Uses this bank for the HP-42/Emulator ROM and and main calculator RAM for the HP-42/Emulator RAM. Destroys some parts of main calculator RAM!

HP42X49L: The FINAL version for HP-49G with only one bank of Port1 empty. Uses this bank for the HP-42/Emulator ROM and Port0 for the HP-42/Emulator RAM. This version is especially suitable for use with HP-41X because it allows you to have both HP-41X and HP-42X installed

together (into Port1).

I am planning one maintenance release of HP-42X for october. It will contain fixes for all bugs which will (eventually) be discovered as well as the following commands:

SAVE for exporting the HP-42 program to HP-48/49, LOAD for importing the HP-42 program from HP-48/49, SAVEP for saving the HP-42 program to port memory, LOADP for loading the HP-42 program from port memory, PURGE for deleting the HP-42 program from port memory and CATP for displaying all programs contained in the port memory.

Registered users will get the maintenance release for free when it will be released.

Best regards.

Re: The final version of HP-42X is available

Message #2 Posted by [Christof \(Davis, CA\)](#) on 6 Sept 2002, 12:50 p.m.,
in response to message #1 by HrastProgrammer

You've got some HTML bugs in there you may want to look at. It's very difficult to get past your splash page. At least with ns6, mozilla, and konqueror web browsers.

Cheers- C

Re: The final version of HP-42X is available

Message #3 Posted by [Nenad Vulic \(Croatia\)](#) on 6 Sept 2002, 3:26 p.m.,
in response to message #2 by Christof (Davis, CA)

It is easy. Just replace \ (backslash) with / (slash), bexore index in the web site address.

Congratulations for the nice job done, HrastProgrammer.

Re: The final version of HP-42X is available

Message #4 Posted by [HrastProgrammer](#) on 7 Sept 2002, 12:40 a.m.,
in response to message #3 by Nenad Vulic (Croatia)

Hvala, Nenade.

Kad cemo na kavu?

Pozdrav.

Re: The final version of HP-42X is available

*Message #5 Posted by [Nenad Vulic \(Croatia\)](#) on 7 Sept 2002, 11:05 a.m.,
in response to message #4 by HrastProgrammer*

We shall have a cup of coffee when I come to Zagreb (I expect that I will have to, soon). Another question: When we shall establish HP Calculator Users/Fans Club-Croatia?

Re: The final version of HP-42X is available

*Message #6 Posted by [HrastProgrammer](#) on 7 Sept 2002, 2:23 p.m.,
in response to message #5 by Nenad Vulic (Croatia)*

Well, I have thought about the club. We shall discuss that when you come to Zagreb.

Re: The final version of HP-42X is available

*Message #7 Posted by [Christof \(Davis, CA\)](#) on 7 Sept 2002, 2:08 a.m.,
in response to message #3 by Nenad Vulic (Croatia)*

Yes- except that it works best when removing the intire string segment "\Index.HTML"

As I said "difficult". Meaning, in relative terms "more difficult than expected when selecting a link."

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 17bii

Message #1 Posted by [Ed Hitchcock \(New Zealand\)](#) on 6 Sept 2002, 6:46 a.m.

I have an hp17bii, bought because I could not obtain an hp32sii.

I like it. The solver plus the user-definable menu keys, and the ability to store lists make it pretty flexible for many tasks that are suited to a calculator rather than a computer. No trig functions but they can be programmed. And the program/data memory is quite large.

I'm comfortable with the programming that is described in the manual. But I've heard of let and get functions. And I've wanted to access memory registers from programs.

Has anyone any good tips on how to do (or not to do) these things.

Re: HP 17bii

Message #2 Posted by [Ellis Easley](#) on 6 Sept 2002, 9:40 a.m.,
in response to message #1 by Ed Hitchcock (New Zealand)

Look at this article by Bruce Maguire:

<http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/articles.cgi?read=222>

Also note the reference in the article to the HP27S and 19B Technical Applications book, which is on the Museum CD-ROMs.

Re: HP 17bii

*Message #3 Posted by [Ed Hitchcock \(New Zealand\)](#) on 8 Sept 2002, 11:00 p.m.,
in response to message #2 by Ellis Easley*

Thanks Ellis.

I am hoping for personal tips about how let/get work and how useful they are. I've ordered a CD, and await it with interest. I've seen Bruce Maguires article, but haven't worked out from there how to use the functions.

Also interested in whether the let/get functions, or anything else, allows access to the x y z t or numbered registers.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

no color in All-in-one

Message #1 Posted by [C N Chau](#) on 6 Sept 2002, 4:23 a.m.

I have a set of HP All-in-one model:#725 Just on yesterday I found it can not print color & only Back. I do not know why even I change a new ink into the mechine. Please let me have some idea.

Thanks a lot!

Re: no color in All-in-one

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Sept 2002, 3:30 p.m.,
in response to message #1 by C N Chau

HI;

are you talking about an HP printer/fax/copier (all-in-one)? Maybe this is not the forum you want...

Just check it, please; we all talk about Hewlett-Packard Calculators and a few related subjetscts in here.

Success.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

32s ii

Message #1 Posted by [jasper wei shangxiong](#) on 5 Sept 2002, 8:50 p.m.

i noticed on ebay that people are paying ****WAY**** more money than the 32s is worth!

what is going on with that???? why the crazy demand?

Re: 32s ii

Message #2 Posted by [Randy Sloyer\(US\)](#) on 5 Sept 2002, 8:59 p.m.,
in response to message #1 by jasper wei shangxiong

And I Hp notices too!

Consider that the 32Sii is worth it to the people paying those prices. No one is making them pay those amounts, only that there is a shrinking supply and a demand larger than that supply.

Have you tried to buy a new pocket size RPN calculator lately? It is the only unit out there. I think devoted RPN fans are buying "one more spare" just in case.

Re: 32s ii

Message #3 Posted by [Christof \(Davis, CA\)](#) on 6 Sept 2002, 2:28 a.m.,
in response to message #2 by Randy Sloyer(US)

Heh- I've managed to overdo my "one more spare", perhaps. I'm still scared to use my 42s much, it's basically irreplaceable at this point. And I don't use the 32Sii enough because 384 steps is a bit too limited for calc/stats/chem/psych research all at the same time.

I wonder when the 20S will start having a major price hike... -C

(and again I am about to go into my eternally cycling 41/42 vs 28/48 debate. I need one of the architectures to win, and if the 42s had serial, it would have by now. I don't use graphing

much. And if I had a 41 with all the bits....)

Re: 32s ii

*Message #4 Posted by [Juergen Rodenkirchen \(GER\)](#) on 6 Sept 2002, 3:53 a.m.,
in response to message #3 by Christof (Davis, CA)*

... and if you are dedicated enough to want a nice, old "brown bezel 32sii" as a "spare":
be aware that these gems have become collectors items, thus be prepared to pay a little
fortune for one of it ;-)

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Repairing HP41CX key

Message #1 Posted by [jetboy777](#) on 5 Sept 2002, 7:58 p.m.

Can anyone advise me on repairing the "4" key on my HP41CX. It functions but has lost it's usual snap feel. Or, can someone refer my me to a previous post. Thanks.

Re: Repairing HP41CX key

Message #2 Posted by [David Smith](#) on 5 Sept 2002, 8:20 p.m.,
in response to message #1 by jetboy777

Generally, once a key looses its snap... its all over. Nothing will get it back. The metal disk that forms the top of the key contact becomes fatigued. The key still works but the click... she be gone.

The HP41 keyboard is not designed to be repairable (at least not without causing more damage to the machine than you are trying to repair). Keys that double space or do not always give an entry when pressed are easily fixed by cleaning them out with a tiny wire brush (through the plated through hole beneath each key).

That said, sometimes the click problem can be caused by something spilled on the keyboard or a battery leakage problem. But this affects many keys at once.

Re: Repairing HP41CX key

Message #3 Posted by [Glen Kilpatrick](#) on 5 Sept 2002, 8:42 p.m.,
in response to message #2 by David Smith

This ain't my expertise (so what am I doing here, anyway???), I'm more of a 48-kinda-guy. But would it be possible to use "User" to _reassign_ the 4 to another key?

<http://www.hpmuseum.org/41cv.jpg> suggests maybe [Gold] [+] would be the only easy choice (and lose the [x .LE. y?] functionality to a CATalog).

Well, maybe *would it be worth it* would be a better question, but whatever, just my 0.02_\$....

Re: Repairing HP41CX key

Message #4 Posted by [thibaut.be](#) on 6 Sept 2002, 2:00 a.m.,
in response to message #3 by Glen Kilpatrick

Yes, the keyboard is (almost) fully assignable, and if this could help immediately to go on using the calculator, I don't think that this is a good solution in the long term.

Yes, the keybaord is almost unrepairable. Me recommandation would be to nuy a dear 41 on ebay (you sometimes find some for \$30-\$40) or post an ad here and switch the upper part of the calc : 5 minutes job.

Repairing HP41CX key

Message #5 Posted by [Emmanuel](#) on 6 Sept 2002, 3:21 a.m.,
in response to message #1 by jetboy777

It's not a disaster. I thing the problem comes from a plastic pin under the key or a metal disc on the printed board. I often fixed that.

Re: Repairing HP41CX key

Message #6 Posted by [jetboy777](#) on 6 Sept 2002, 7:28 a.m.,
in response to message #5 by Emmanuel

How do you fix it? Any pointers about removing the circuit board under the key pad. Aloha.

Repairing HP41CX key

Message #7 Posted by [Emmanuel](#) on 6 Sept 2002, 5:15 p.m.,
in response to message #6 by jetboy777

1. Remove the 4 rubber feet 2. Unscrew the 4 screws Now you have 3 major parts: front part of HP-41, a middle "U" and the back. 3. If you have a "Fullnut", please remove the board with electronic components, the black plastic sheet, the i/o part between the previous board and the printed board. You have in front of you 48 pins. 4. Clip them all 5. Lift the printed board up You have now access to the key and/or the metal disc.

Re: Repairing HP41CX key

Message #8 Posted by [jetboy777](#) on 9 Sept 2002, 6:36 p.m.,
in response to message #7 by Emmanuel

Yes I can do that easily. The problems is how do reattach the printed circuit board to the top half of the case. The heat swaged pins are now gone. Please any solutions.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP48GX Screen Broke

Message #1 Posted by [Curtis Woodworth](#) on 5 Sept 2002, 6:11 p.m.

Hey All,

In moving my HP48GX got its screen smashed. :(:(

Were can I get parts / repair?? And even how do I open the case?? (I saw it might require drilling?)

Any suggestions on the procedure / action? Thanks, Curtis-

Re: HP48GX Screen Broke

Message #2 Posted by [Randy Sloyer\(US\)](#) on 5 Sept 2002, 7:43 p.m.,
in response to message #1 by Curtis Woodworth

Call the Hp calculator support group. For an out of warranty unit, they will sell you a new one for about half the price of a new one on an exchange basis. That having been said, you asked how to open it.

While you *can* open a 48, it ain't pretty. You have two choices that I know of:

1. Drill holes behind the led cover and cut through the 4 heat staked posts on the top half of the calculator. Drill holes in the battery compartment and cut through the 7 heat stakes in the bottom half of the unit. Very ugly and hard to get back together in a way that stays together. FYI, this procedure is detailed elsewhere on the web.

2. My method is to use a heat gun and peel the aluminum bezel off the top of the unit. Do it in such a way that you don't bend it. Good luck. It helps to have a really trashed unit to play with first to get the hang of it. Then use a twist drill in a pin vise, and remove just enough from the top of the 7 heat stakes to free them.

Now you need to push a tool through the 6 slots along the sides of the keyboard and free the 6 locking clips across from the A,SIN,ON,F,1/x, and + keys. You now have two halves of a 48.

Now for the really hard part, the display...

Got the idea yet? While I have done it, and I'm sure others have done it many times, I don't consider it a fun time when I can still get a replacement from Hp.

Just my opinion.

Re: HP48GX Screen Broke

*Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 5 Sept 2002, 8:20 p.m.,
in response to message #2 by Randy Sloyer(US)*

Hi;

I have an (also) LCD broken HP48. It has NO font layer, and the holes are easily visible. I can scan the image and send it to, so you can try drilling in the precise position. Would you like it?

Best regards.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

going from 32SII to 48GX

Message #1 Posted by [Randy](#) on 5 Sept 2002, 3:58 p.m.

I screwed up and left my 32SII lying on my dashboard for a weekend. The display is dead. At the replacement prices (on ebay) I figure it's just as well to go to the 48GX. What I'm wondering is: are there better 48GX's to get than others. From reading the info on the hpmuseum, they were manufactured in the US, Singapore, and other places. Are there problems associated with any of these models, (are any production runs better than any others?) Or are they all the same. Thanks for your help...I'm still grieving over the 32SII. It's a brown bezel, that I bought new when I lost my 11C. (Another heartbreak.)

Randy

Re: going from 32SII to 48GX

Message #2 Posted by [Christof \(Davis, CA\)](#) on 5 Sept 2002, 5:03 p.m.,
in response to message #1 by Randy

I'e got some older 48SX machines- they have the old brown/blue colors instead of the new pastels.

For the 48GX, some of the really new ones have a much improved LCD, but at the expense of new plastic painted keytops..... so that's a tossup.

Re: going from 32SII to 48GX

Message #3 Posted by [Glen Kilpatrick](#) on 5 Sept 2002, 7:47 p.m.,
in response to message #2 by Christof (Davis, CA)

What Christof Said.

The new black style for 48GX displays (what you get with a 49G) seems significantly easier to read than the prior, but the earliest has the injection-molded keys, the later the paint-on (lots of posts seem to discuss this at great length). So it's a tossup.

HOWEVER, that assumes you can pick and choose. Probably you won't have an option if you go commercial, it'll be new stuff from China, black display & painted on keys, so you'll have to cruise <http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/adforum.cgi> or eBay if you want the earlier (anybody who *knows* where to get the earlier as new, please followup).

Re: going from 32SII to 48GX

Message #4 Posted by [Randy Sloyer\(US\)](#) on 5 Sept 2002, 7:59 p.m.,
in response to message #1 by Randy

Sorry to hear of the demise of your 32Sii. While I don't want to take your real question about a 48GX off course, I have a question about the 32Sii.

What I was curious to know is this: Did the LCD cook from the heat? Is it completely black? Or is the screen blank and the unit just will not turn on? It might be repairable if the LCD is okay. Email me or post it as a follow-up here. Thanks.

Don't forget one option you have before jumping to a 48: Since the 32Sii was just discontinued by Hp in 2001, it should still be on support for the next 4 years. If you call Hp calc support and say the unit is dead, they should offer you a replacement unit for I think about \$45 with your unit in trade. Unfortunately, it will be a black unit with the ugly color keys, but hey - it will fit in your pocket unlike a 48.

Let us know how it works out.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP48S/48G connectivity

Message #1 Posted by [Juergen Rodenkirchen \(GER\)](#) on 5 Sept 2002, 10:06 a.m.

Just a quick question: Is it possible to use the HP48G PC link cable and connectivity software with an HP48S? If not, is there any easy way known how to modify cable/software to make it work (does anyone know about "how-to-do" articles on this subject posted here or elsewhere)?

Re: HP48S/48G connectivity

Message #2 Posted by [andy](#) on 5 Sept 2002, 10:24 a.m.,
in response to message #1 by Juergen Rodenkirchen (GER)

It should work just fine. I've used the connectivity software with my Rev. A 48sx. The cable is the same 9 pin rs232-4 pin special connector.

Andy

Re: HP48S/48G connectivity

Message #3 Posted by [Glen Kilpatrick](#) on 5 Sept 2002, 1:22 p.m.,
in response to message #2 by andy

You might also be interested in "The HP Cable Table by Joseph K. Horn" (<http://pweb.jps.net/~joehorn/cable.htm>).

gk :)

Re: HP48S/48G connectivity

Message #4 Posted by [Juergen Rodenkirchen \(GER\)](#) on 5 Sept 2002, 3:25 p.m.,
in response to message #3 by Glen Kilpatrick

Thanks for advice, Andy! Thanks for the hint on Joes "cable table", Glen: it's great! :-)

Re: HP48S/48G connectivity

*Message #5 Posted by [Ellis Easley](#) on 6 Sept 2002, 9:50 a.m.,
in response to message #4 by Juergen Rodenkirchen (GER)*

I wish I had read the Cable Table before I plugged my \$25 HP39G into what turned out to be an HP200LX cable! The screen went crazy and might have some permanent damage although operation seems to be normal, still I wish I hadn't done it.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: HP-42X memory requirements, demo version, etc.

Message #1 Posted by [HrastProgrammer](#) on 5 Sept 2002, 7:58 a.m.

The demo is available :-)

To get a particular demo version just send me a mail ...

Thanks for the comments.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

My HP29C gave me a scare.

Message #1 Posted by [John Ioannidis](#) on 5 Sept 2002, 3:37 a.m.

My brand-new HP29C (S/N 1711Axxxxx; got it on ebay a few weeks ago) gave me a scare: keys pressed in run mode would have unexpected results. For example, the 7 key pressed several times would put different numbers on the screen.

I removed the battery, and let it recharge for half a day. I put it back and the machine is working fine. I can therefore assume that the problem was low battery, even though the low-battery indicator (it's all the decimal points but the real one lit, right?) was NOT on.

For what it's worth, the battery pack has been rebuilt using Radio Shack 1000mAH NiCd cells (it arrived this way).

Comments?

/ji

Re: My HP29C gave me a scare.

Message #2 Posted by [David Smith](#) on 5 Sept 2002, 3:35 p.m.,
in response to message #1 by John Ioannidis

I have found that getting wrong digits on Woodstocks is almost always caused by battery leakage residue (sometimes invisible) on the keyboard etches or contact posts. Open the machine and clean well. Unfortunately most 29C keyboards do not have the through holes under each key that give you some access to the etches on the top side of the keyboard. In bad cases it's ultrasonic cleaner and low oven time...

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-42X memory requirements, demo version, etc.

Message #1 Posted by [HrastProgrammer](#) on 5 Sept 2002, 3:11 a.m.

OK, this is the final (and last) explanation regarding memory requirements ...

First of all, I wrote emulators according to my needs and wishes. I own 3 equally equipped HP-48GXs (each with one 128K and one 2048K memory card), one HP-48G expanded to 1280K and one HP-49G. So I decided that HP-42X will have 96K of memory and it will have 96K of memory. I decided that it will have port memory and it will have port memory. I won't give up ...

Second, I must say that emulating an HP-42S on HP-48/49 isn't a trivial task. The Saturn is not a Pentium. To achieve speed and reliability some things must be sacrificed. I decided to sacrifice the memory - if I had to choose between speed and memory requirements, I will choose speed. I think that everyone can afford a memory card and I don't see any problem about this.

Memory requirements for HP-42X are as follows:

```
#00000..1FFFF: Original HP-42 ROM (64K)
#20000..3FFFF: Emulator ROM (64K)
#40000..403FF: Display and I/O (0.5K)
#40400..4FFFF: Port memory and emulator RAM (31.5K)
#50000..7FFFF: HP-42 RAM (96K)
```

Emulator RAM can be extended to #BFFFF (224K) on HP-48GX and #FFFFFF (352K) on HP-49G, if needed (by destroying the contents of main RAM).

The problem is how to map some parts of HP-48/49 memory to match those addresses. I don't want to explain technical details here because they can be found in the literature covering Saturn assembly programming but it is important to know that 128K "devices" like RAM and 128K memory cards can be mapped only on 128K boundaries. 32K cards can be mapped on 32K boundaries but they are difficult to find these days so I haven't considered using them.

So, the only way is to map Port1 to #00000..3FFFF and Port2 to #40000..#7FFFF on HP-48GX (or

vice versa). On the HP-49G, Port1(Bank1) can be mapped to #00000..3FFFF and Port1(Bank2) to #40000..#7FFFF (or vice versa). In this case you will have 96K of HP-42 memory, 31K of port memory and the whole HP-48/49 RAM left for other applications.

The same case is with HP-48SX equipped with two 128K RAM cards (I have a HP-42X for HP-48SX, too).

However, I wrote a HP-48GX (or HP-48G/G+ expanded to 256K) version which will require only one (unmerged) 128K RAM card for HP-42/Emulator ROM. The main RAM is used as a HP-42/Port/Emulator memory giving a 96K HP-42 RAM and 16K of port memory. About 12K is left for other purposes. This is all I can do regarding the HP-48GX with just one cards. If you need more memory for "other applications" than you cannot use HP-42X.

The emulator is finished. Now I had to implement SAVE/LOAD commands for saving/loading HP-42 programs to/from HP-48/49 and SAVEP/LOADP/CAT/PURGE command for managing port memory. I expect this will be finished during september (I had other work to do).

The demo for HP-48/49 is finished, too, but I have to write some installation instructions. It won't be available for download from my homepage but it can be sent on request. So, if you want to have a demo send a mail to me and ask for it - I will send it as soon as I write installation instructions. Demo version requires only one 128K RAM card on HP-48GX but it destroys some parts of main RAM so it is not suitable to run on the real calculator - running on Emu48 is recommended if you don't want to loose some data or the whole memory. You have been warned ...

Greetings.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Zenwand for the HP-71B

Message #1 Posted by [Andy](#) on 5 Sept 2002, 2:53 a.m.

Hi

I recently acquired an HP 71B which came with an HPIL interface and a "zenwand". Where can I find out more info on the Zenwand (maybe even a copy of the manual?). Is it used to load programs? If so is there any source of HP 71B programs in barcode format? The wand seems to work as the red laser comes on in the tip when the bar on the wand is pressed.

Andy

Re: Zenwand for the HP-71B

Message #2 Posted by [Andy](#) on 5 Sept 2002, 11:56 a.m.,
in response to message #1 by Andy

I'm not sure how it works either but the 71b has a file format compatible with hp41 files so you could probably test the bar code using some 41 bar code.

It might be as easy as the command:

copy "filename" from barcode

or some variation (similar to the 75/71 command for copying from a magnetic card: copy "filename" to/from card

Andy

Re: Zenwand for the HP-71B

Message #3 Posted by [Julián Miranda \(Spain\)](#) on 7 Sept 2002, 4:40 a.m.,
in response to message #1 by Andy

From the Zenwand manual:

"Here is the recommended procedure for scanning a barcode: 1) Connect ZENWAND to the HP-71, and turn the computer on. 2) Execute the keyword for the type of label you are scanning, e.g.:CODE39\$ for Code 39, etc. (There is a description at the beginning of the manual of the different types of bar codes) 3) Hold the ZENWAND in a similar manner to how you would hold a pen and press the switch near the tip. 4)Position the tip of the ZENWAND into the quiet zone (the white area either side of the label) and hold the wand at an angle between 0 and 30 degrees from vertical. 5) Scan the entire label smoothly ... 6) Release the switch on the ZENWAND to conserve battery power. During running an application program, step 2 will be handled by the program"

"Barcode readings can be obtained by use of strings functions provided by ZENWAND. These functions wait for a scan to occur, pass the data read by ZENWAND through a decoder and then return a string representation of the barcode data for subsequent processing by the application program. Note that all user prompting must be supplied by the application program. Because ZENWAND is capable of reading various different types of barcode, six separate string functions are provided: CODE11\$ CODE39\$ CODABAR\$ IND25\$ INT25\$ INACODE\$"

It seems you need these files so the wand can read. I have a HP-71 with its wand and manual but no files. So for me this is only theory as I'm not able to try it. If you are interested I can copy the manual (around 80 pages) and send it to you. I suppose there is someone who have a functioning wand and can tell from practice and not only theory.

Re: Zenwand for the HP-71B

Message #4 Posted by [Frank Wales](#) on 7 Sept 2002, 12:29 p.m.,
in response to message #3 by Julián Miranda (Spain)

If you have a 71 and a Zenwand, you have all you need to read bar codes.

Type BARCODE\$ into the 71 at the prompt, press enter, and scan the barcode on anything nearby, such as a cereal packet or a book. The results should appear in the display. Do something like A\$=BARCODE\$, and the result will end up in A\$.

I don't have a manual for Zenwand, but I'm fairly sure there's a bunch of features for handling errors, extracting checksums and so forth. I'm also fairly sure it doesn't decode HP-41 barcodes, but I might be wrong -- I think there is a feature to extract all the bar-by-bar

information from any barcode without decoding it, so it's probably possible to write your own decoder anyway. :-)

If you want to use it, you really need to get the manual -- among other things, it includes a little one-line BASIC program that has to be in memory, or some feature doesn't quite work right. Again, I don't remember the details.

If you have an HP2225B HP-IL ThinkJet printer, you can also print barcodes using Zenwand's BCPRINT program. It only includes a driver for the HP2225B HP-IL ThinkJet, but it's possible to add other printer drivers -- I don't know if the information on how to do this was ever released, though.

Re: Zenwand for the HP-71B

*Message #5 Posted by [Graeme Cawsey](#) on 8 Sept 2002, 9:07 a.m.,
in response to message #4 by Frank Wales*

As I recall, standard industry formats are read using functions such as: CODE11\$, CODE25\$, CODE39\$, EAN\$, UPC\$ (I can remember all the barcode types supported). You can also use the BARCODE\$ function, which will auto-discriminate between the supported formats. To read an unsupported format, I think you use the ANYCODE\$ function which will return a string of characters representing the relative widths of each bar and space. There was some software for loading 71B programs via barcode - but I can't recall if it made it into the ROM release.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-71B Memory Modules

Message #1 Posted by [Steve Seto](#) on 5 Sept 2002, 1:21 a.m.

Based on postings in the archive, there were 4k, 8k, 16k, 32k and 64k RAM memory modules that were once available for the 71. One maker of the 32k and 64k (Card Reader Bay) modules was Corvallis Microtech.

My question is: What was the largest RAM module that HP ever made? Was it the 16k module?

There was also the 128K

Message #2 Posted by [Steve \(Australia\)](#) on 5 Sept 2002, 2:13 a.m.,
in response to message #1 by Steve Seto

Corvallis also made a 128K memory module for the card reader bay.

Re: HP-71B Memory Modules

Message #3 Posted by [Juergen Rodenkirchen \(GER\)](#) on 5 Sept 2002, 4:07 a.m.,
in response to message #1 by Steve Seto

Talking about MMs for the 71B, I've a 32 as well as 64 KB MM installed in my machine. The 32 Module can be removed from the machine with some effort and care but no way for the 64 Module. It sticks that tight in the slot that I fear to break it when trying to get it out. I guess, this is due to the fact that the machine used to work in a hot environment. Any suggestions/procedures on how to manage to get it out without damage?

Re: HP-71B Memory Modules

Message #4 Posted by [Raymond Hellstern](#) on 5 Sept 2002, 6:56 a.m.,
in response to message #3 by Juergen Rodenkirchen (GER)

Hi,

at least for tight fitting HP-IL modules, I (carefully) insert a thin screwdriver from the opposite side of the case, and push the module out. I your 64K module sits in port 1 or 2, this should work the other way round.

I also made the experience that my CMT 32K modules won't get out w/o some force.

Maybe they thought 'Safety first';-)

Regards,

Raymond

Re: HP-71B Memory Modules

Message #5 Posted by [Juergen Rodenkirchen \(GER\)](#) on 5 Sept 2002, 7:37 a.m.,
in response to message #4 by Raymond Hellstern

Thanks for the advice, Raymond. Actually, I do have a tight fitting HP-IL too and do use a similar procedure you described to push it out. I didn't consider to apply this to the MMs in port 1,2 as I always felt the housing of the MMs being much more fragile (or brittle) than that of the HP-IL. However, I agree that the procedure could be successfully applied to MMs as well if carried out with (great) care :-)

Re: HP-71B Memory Modules

Message #6 Posted by [David Smith](#) on 5 Sept 2002, 3:38 p.m.,
in response to message #3 by Juergen Rodenkirchen (GER)

There is the philosophy: "If it jams, force it. If it breaks, it needed fixing anyway." As long as it works, I'd leave it alone.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 32SII

Message #1 Posted by [Howard Jones](#) on 4 Sept 2002, 6:58 p.m.

Could somebody please help me with my 32SII? Everything works fine but several keys (2, 5, 6 & 3) require much greater force to operate. Are there contacts that get gummed up or something like that? Help will be much appreciated.

Re: HP 32SII

Message #2 Posted by [Randy Sloyer](#) on 4 Sept 2002, 8:06 p.m.,
in response to message #1 by Howard Jones

Anything been spilled on the keyboard? If so, this would be the most likely culprit. The keyboard is scanned by the cpu in 6 columns across and 7 rows down. If it was a bad connection to the cpu board, a whole row or column would be acting up.

What you describe, the loss of just 4 keys in 2 x 2 grid would seem to me to be something in or on the keyboard itself. It is a sandwich of 4 layers of mylar. Two of the layers are spacers with holes, one looks like a double sided pc board but it's made of mylar and the real guts of the keyboard is a single layer sheet that has 37 domes formed in it with conductive material inside the dome. When you press a key, you deform the dome with a snapping motion and the conductive dome bridges a pattern on the circuit underneath, completing the circuit. Any gunk on the dome or the circuit underneath will prevent the circuit from completing. The resistance is very high in these circuits, a minimum of 10k ohm for a completed keypress so it would not take a very thick spill layer to prevent a keypress from registering. Perhaps when you press hard, you are able to burrow past the spill and complete the circuit.

A frequent contributor (Thanks David!) here reports good luck removing the batteries then giving the dirty keyboard three baths in an ultrasonic cleaner with fresh distilled water each time. Shake out as much water as you can, then dry in in an oven on low (< 150F) for several days.

Re: HP 32SII

*Message #3 Posted by [Howard Jones](#) on 5 Sept 2002, 5:29 p.m.,
in response to message #2 by Randy Sloyer*

Thank you Andy. When you say give the keyboard three baths in an ultrasound bath, do you mean I just take the batteries out and put the whole calculator in the ultrasound bath? Thank you.

Re: HP 32SII

*Message #4 Posted by [Randy Sloyer\(US\)](#) on 5 Sept 2002, 7:16 p.m.,
in response to message #3 by Howard Jones*

Yes, the whole unit gets the ultrasonic treatment as there is no simple way to take the case or keyboard apart. I would think 20 to 30 minutes for each cycle would be enough. Place it feet down in the tank as the newer 32sii's have printed keytops and you don't want to damage the legends by rubbing on the bottom of the tank. It is important to allow plenty of drying time (at least 2-3 days) after the final cleaning before re-powering.

Do you know if anything has been spilled into to keyboard? It would be helpful to know, so that a best course of action could be planned.

Re: HP 32SII

*Message #5 Posted by [Howard Jones](#) on 5 Sept 2002, 11:14 p.m.,
in response to message #4 by Randy Sloyer(US)*

Randy, Sorry I don't know the history of this machine as I bought it second hand in a pawn shop for \$Aust30. Thank you for your help. Howard.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

hp-41 repairs

Message #1 Posted by [David M. Jordan](#) on 4 Sept 2002, 4:54 p.m.

I have an hp-41 that when turned on only displays a "5". With fresh batteries and a lost memory routine I am still unable to regain function. Are there any repair techs available to address this issue?

Thanks

Re: hp-41 repairs

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 5 Sept 2002, 12:14 a.m.,
in response to message #1 by David M. Jordan

Hi;

let me try to get more info.

Is the "5" the only one character that can be seen or it is a "5_" (five with prompt cue, or underscore)?

After switching to ON, are you able to switch the calculator OFF by pressing the [ON] key? Or you have to remove the batteries?

If the display shows "5_" and you cannot turn the unit OFF by pressing the [ON] key, chances are you have a permanent pressed [5] key (short circuited, broken metal spring, among others). Fixing the key (that's another story) will probably be enough. I once fixed one HP41 with a related problem. One small piece of plastic locked the key (I don't remember which one) and it simply did not turn OFF and insisted on showing something (what was it?).

Otherwise, if the display shows only "5" and you can turn it OFF and ON by pressing the [ON] key, I cannot see the reason. Defective IC?

Others will post suggestions, too. And I hope this helps.

Success!

Re: hp-41 repairs

*Message #3 Posted by [David Jordan](#) on 6 Sept 2002, 7:29 p.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)*

Luiz, thanks for your response! It was a "stuck" 5 key. A firm rap against the palm of my hand freed the key and I'm back in business. Thanks again for your prompt input

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Zengrange Ltd 41CV Emulator Card for HP-48GX too?

Message #1 Posted by [Emmanuel](#) on 4 Sept 2002, 3:47 p.m.

This 32K ROM contains 4 libraries: L1402 (597 bytes,Ctl41), L1403 (890 bytes,Dat41), L1404 and L2046 (633.5 and 30685.5 bytes,41CV Emulator). Did someone re-write L1404 and L2046 with specific HP-48GX codes? Thanks.

Re: Zengrange Ltd 41CV Emulator Card for HP-48GX too?

Message #2 Posted by [Richard Garner](#) on 4 Sept 2002, 5:55 p.m.,
in response to message #1 by Emmanuel

I have the card that HP sold for the 48SX. I have used it in the 48GX without problems. Though I don't use it very often.

Re: Zengrange Ltd 41CV Emulator Card for HP-48GX too?

Message #3 Posted by [Chan Tran](#) on 5 Sept 2002, 5:34 p.m.,
in response to message #2 by Richard Garner

My card crashed the GX. It worked fine in my SX

Re: Zengrange Ltd 41CV Emulator Card for HP-48GX too?

Message #4 Posted by [Frank Wales](#) on 7 Sept 2002, 1:30 a.m.,
in response to message #3 by Chan Tran

It is highly likely that the emulator will misbehave in the GX, because there were some assumptions about the 48 memory architecture made in the emulator code which were invalidated by the GX.

I just tried two different versions of the emulator on a GX to see what would happen. The emulator with version 0E works up to the point where you attempt to complete number entry (for example, I typed '123 ENTER'), but then the machine hangs.

Emulator version 0A seems to work okay (i.e., it doesn't hang at that point), but I didn't do an exhaustive test, and I wouldn't rely on it working generally on the GX.

[To find out which version of the emulator you have, its version code is the first two digits of the string that VERS41 returns.]

Re: Zengrange Ltd 41CV Emulator Card for HP-48GX too?

*Message #5 Posted by [Emmanuel](#) on 22 Sept 2002, 3:47 p.m.,
in response to message #4 by Frank Wales*

Thanks!

Re: Zengrange Ltd 41CV Emulator Card for HP-48GX too?

*Message #6 Posted by [Chan Tran](#) on 24 Sept 2002, 8:24 a.m.,
in response to message #5 by Emmanuel*

I have one of those cards and it didn't work in my GX. However, some claimed that it works in his GX. Chan

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Who should pay for the shippings?

Message #1 Posted by [yorozubenkyodo](#) on 4 Sept 2002, 9:40 a.m.

Hi,

It's a long story, but ...

I bought a HP 32S 50th Anniv. Ltd. Ed. through ebay. The auction said it was in perfect working condition, but the 32S I received was NOT perfect. The keys on the rightmost column didn't work. So I emailed the seller and returned the calculator.

The seller said: Maybe something happened in transit. As I guaranteed it to work I am going to see how to refund your money via Paypal or Ebay Payments. I will email you again when I complete the transaction.

After a week, I received a notification email which said the seller refunded, but only the payment for the calculator. I believe the seller is honest. In this case which one should pay for the shippings, the seller or me?

I made a bid and lost \$30.00 + 1080 yen (I live in Japan). What a nice experience!

yorozubenkyodo

Re: Who should pay for the shippings?

Message #2 Posted by [Fred](#) on 4 Sept 2002, 9:53 a.m.,
in response to message #1 by yorozubenkyodo

Shipping costs of mail order outfits are usually passed on to the consumer. Don't know if the same applies to auctions.

Re: Who should pay for the shippings?

Message #3 Posted by [thibaut.be](#) on 4 Sept 2002, 9:55 a.m.,
in response to message #1 by yorozubenkyodo

There are no strict rules. The rules are the one mentioned on the auction listing and what the seller and the buyer agree when finalizing the transaction.

As a general principle the seller pays the ebay fees and the buyer the shipping costs. The goods are sent when payment is received.

The general principle for return of goods is also that the buyer pays the shipping costs, but other agreements can be taken with the seller, especially when the shipping costs are an important percentage of the value of the item itself. The fact that he refunded you is certainly a sign of honesty.

Re: Who should pay for the shippings?

Message #4 Posted by [Jack Stafford](#) on 4 Sept 2002, 1:05 p.m.,
in response to message #1 by yorozubenkyodo

Seems to me that If the seller can't provide a functional replacement it would be up to him to refund the complete cost to the buyer. If shipping caused the problem, then the shipping company would be responsible to the shipper as their customer.

IMHO

Jack

Re: Who should pay for the shippings?

Message #5 Posted by [Greg Ventresca](#) on 4 Sept 2002, 5:26 p.m.,
in response to message #4 by Jack Stafford

Right Arm!

The seller may seem honest, but people being what they are (I don't think the language I want to use would be welcome here!), are screwed or are going to screw you. Period. Once in a while, and among proffesionals, things will work out. How nice when it does.

Speaking of language

*Message #6 Posted by [Mike](#) on 5 Sept 2002, 8:49 a.m.,
in response to message #5 by Greg Ventresca*

I have something I'd like to say here but I'm sure that it would be worse than what you'd say (with your language) so I'll refrain.

Your comment is HOGWASH! Your incinuation that he may "seem" honest is a suggestion that he might not be honest. I don't have a clue about whom we are talking about but if he was dishonest, he wouldn't have even sent back ANY refund.

Why would you presume that someone is dishonest, if they don't refund shipping?

The only time that shipping should be expected is if the seller says shipping will be refunded or if the problem is the seller's fault. All other shipping charges should be the responsibility of the buyer. Otherwise, everyone on ebay would simply be "buying to test" and then returning the items. That does not mean someone is dishonest simply because they don't offer a refund.

Re: Who should pay for the shippings?

*Message #7 Posted by [gifron](#) on 5 Sept 2002, 4:59 p.m.,
in response to message #1 by yorozubenkyodo*

Apparently, there was no shipping insurance, so the carrier can not be held liable, even if it was damaged in transit.

If it was not in the condition stated when it left the seller, or if it was damaged because it was poorly packed, the seller should pay all costs - You should be out zero.

If it left the seller in the condition stated in the description (seems like you agree it did), and he packed it well, he has fulfilled his obligation, and should not be liable for return shipping.

IMHO

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

evaluation

Message #1 Posted by [Jack Stafford](#) on 4 Sept 2002, 3:26 a.m.

would some of you evaluate my RPN for windows and comment here or email?

Euclid's RPN @ www.livingsoftware.net

Thank you

Jack

Re: evaluation

Message #2 Posted by [Christof \(Davis, CA\)](#) on 4 Sept 2002, 3:36 a.m.,
in response to message #1 by Jack Stafford

Any chance of a port to wince? (2.0, 2.0, or 2000 for HPC)

for that matter, any existing ports?

Nice calc so far, though. I tend to want a certian amount of direct code compatibility with the 41/42 series, but overall it's workign so far.

Re: evaluation

Message #3 Posted by [Jack Stafford](#) on 4 Sept 2002, 3:50 a.m.,
in response to message #2 by Christof (Davis, CA)

Thank you, keep me posted please

Yes, I'm working on Pocket Euclid now

Jack

Re: evaluation of Euclid - Congrats!

*Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 7 Sept 2002, 12:02 a.m.,
in response to message #3 by Jack Stafford*

Hello, Jack.

Great job! Which environment did you use to develop it? Delphi?

Congratulations! I'm more to HW than to SW, but I am always amazed with any good SW expression.

Success!

Re: evaluation of Euclid - Congrats!

*Message #5 Posted by [Jack](#) on 7 Sept 2002, 3:36 a.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)*

Yes Delphi 6, how did you know?

thank you for your good wishes

Jack

Re: evaluation of Euclid - Congrats!

*Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 7 Sept 2002, 10:42 a.m.,
in response to message #5 by Jack*

Hi;

I'm not sure you'll agree with me, but I believe that development tools **MUST** be friendly, easy to use, so they will allow the developer to focus on the solution, not on how to use the tool itself. Delphi (as its Linux counterpart, Kylix) has proven to be friendly and powerful, not specifically easy to learn, but "**easy to use**". I would use Delphi to develop such applications, mostly because I'd have to learn it first, and I know it can be done...

I like to use TK/GTK under Linux environment, but sometimes the functionality of the final product leads to a harder, bigger source code. I believe Delphi allows faster development in some specific cases.

Anyway, simply knowing Delphi or any other tool will not lead to such final products as Euclid; the looks made me think of Delphi, but your own efforts are far beyond the scope of this brief analysis.

That said, congrats again for the great job.

Re: evaluation of Euclid

Message #7 Posted by [Gordon Dyer](#) on 6 Sept 2002, 3:35 p.m.,
in response to message #1 by Jack Stafford

Euclid is a very nice calculator BUT I am an HP-11C user and would love to see a version which emulates the 11C including the key layout and key legends. Exclude the programming functions (for now), but include as many of the key functions as possible and keep the key legends the same as the HP-11C. I would like to see an option to turn on a display of the stack and storage register contents, this can be implemented in a seperate window. I will report any bugs if I find them. Anyway thanks for the good calculator.

Re: evaluation of Euclid

Message #8 Posted by [Jack Stafford](#) on 6 Sept 2002, 11:21 p.m.,
in response to message #7 by Gordon Dyer

I actually tried to steer away from emulating any particular HP calulator, although the HP-11C would be my choice too. I did try to keep the HP key legends where I could and stay within the three character convention (something that can easily typed). Euclid does have the stack display in a seperate window you mentioned you would like to see included. (use "STK" to display)

Financial functions will be included soon. I'd be interested in what additional functions would be desirable.

Thanks for your comments,

Jack

Re: evaluation of Euclid

Message #9 Posted by [Christof \(Davis, CA\)](#) on 7 Sept 2002, 2:21 a.m.,
in response to message #8 by Jack Stafford

The only time I ever use windows is on the HP320LX and Jornada 720 handheld, though I did boot into a windows machine to try this.

Programming is a fairly large want for me, and a good full run of statistics functions. Trig work is done - for me, at least- in places where I need a lot of portability. So that's not a huge issue in general.

Once you get into solvers and such, it's almost time to use a regular CAS on the laptop.

I think it would be really very sweet to have a selectable "style". say- a 15C type function set and a 12C type function set.

Re: evaluation of Euclid

Message #10 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 7 Sept 2002, 7:12 p.m.,
in response to message #8 by Jack Stafford

I have not seen your Euclid calculator, I assume from comments posted here that it is a nice and well done application. I hope you will be successful with the PocketPC version, because there are some RPN calculators for PocketPC, but I would like to use a RPN application which resembles the HP11C (well, a 41C or 42S would be better, but it may be too much to ask for!). None of the current PocketPC calculators I know about is close enough, BizCalc is acceptable, but is equivalent to a 12C and the keyboard layout is awkward in my opinion.

By the way, there is a nice product for PalmOS, called MathU or MathUPro, from Creative Creek. very good, but only for Palms...

Pocket Euclid

*Message #11 Posted by [Jack Stafford](#) on 8 Sept 2002, 4:26 a.m.,
in response to message #10 by Andrés C. Rodríguez (Argentina)*

I don't see me doing an emulation of any particular HP-calculator with pocket Euclid either. Aside from the programming features which don't exist, Euclid is still way short of the HP-11 or any other real HP machine. My intent for Euclid was to be an RPN alternative to the "windows calculator". To provide a calculator with some teeth for the typical user in a form thats convenient to use alone or from within other applications.

I knew that this is not a "typical Users" group but I also knew from hanging out here for the last several months that this was a great bunch of friendly, helpful people. I wanted to see how this "in the know" group would respond to my implementation of Euclids rather basic function set and I am grateful for eveyone's kind wishes and helpful remarks.

I wish I could contribute more but I'm not much of an authority on math or machine. I'll be lurking here though, I do still have most of my HP's (35, 65, 67, 97, 12C, 15C, LX-100, and the 620LX). I was about to break ranks and buy a Compaq IPAQ but I waited long enough, it seems now it will also be an HP. If HP dosen't include RPN on the IPAQ then Pocket Euclid will!

Cheers! Jack

Re: evaluation

*Message #12 Posted by [thibaut.be](#) on 18 Sept 2002, 9:19 a.m.,
in response to message #1 by Jack Stafford*

Hi,

Congratulations, I really like your calculator.

3 tiny remarks on my side, that should not shadow the great appreciation I have for your work

a) it would be great if the key legends were as similar as possible to the original HP calcs and if the layout were similar to the voyager series b) it would be great if you could set up 2 or 3 different layouts, one 11C/15C like, one 12C like and for the fans 16C like. These layouts could be toggled ob clicking on a button voyager logo like... c) I appreciated very much the register window. I might be wrong, but the T register(or U register on your calc, seems you added one) does not copy to Z (or to T) when the stack goes down one level : very useful for constant

calculations.

Anyway my congratulations ! it's easy making remarks on something you have not developed !

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP28S Programming help (requested)

Message #1 Posted by [Christof \(Davis, CA\)](#) on 4 Sept 2002, 2:51 a.m.

Well, with the new semester I've been pretty busy.

I'm using the 32sii a lot, but I'm also getting a lot out of the 28s (especially in statistics). But I've got some issues with the RPL programming that I haven't figured out yet.

The built in stats functions include a sample standard deviation, which is great. But I really need to write a bit of code to do a population standard deviation (not by adding the mean to the sumdata and redoing the sdev as is done on the 20s)

I'm - quite honestly- totally lost on this. (and then there's the rest of what I need to build- grabbing median, finding modes (with some reasonable guessing as to how many there might be), ranges, limits, and midpoints of grouped data....)

Anyone want to pop a few tidbits out so I can get to the baby step stage instead of wondering how one starts thinking about sorts, summation, and etc in RPL?

-C

Re: HP28S Programming help (requested)

Message #2 Posted by [James M. Prange](#) on 4 Sept 2002, 4:21 a.m.,
in response to message #1 by Christof (Davis, CA)

It seems to me that once you have your statistics matrix, the following will give you the population standard deviation. Sigma stands for the upper case Greek sigma character, and SQRoot stands for the square root symbol.

```
<< NSigma DUP 1 - SWAP / VAR * SQRoot >>
```

If you also want the population variance, leave out the SQRoot from the above, and take the square root of the variance when you do want the standard deviation.

The Owner's Manual does have a program for finding the medians of the columns of the statistics data in the programming examples, but if I recall correctly, the sorting algorithm it uses isn't particularly fast. You might want to check <http://www.hpcalc.org>. Note that the 48SX doesn't have a built-in SORT command either; if you find a good sorting program for the 48SX, there's a pretty good chance that it will work on the 28S.

Sorting stat data -- HP-17Bii

Message #3 Posted by [Karl Schneider](#) on 4 Sept 2002, 6:42 a.m.,
in response to message #2 by James M. Prange

This won't help Christof, but the HP-17Bii retains each datum entered by the user for statistical analysis. Thus, it has built-in routines for "min", "max", and "sort" that would not be possible with simple summation, as is done with the scientific units.

While quite lacking in scientific functions, the 17Bii also has some handy functions, including:

clock/alarm/appointments quick, easy-to-use TVM quick, easy-to-use calendar functions

It's a nice complement to the scientific units.

Re: HP28S Programming help (requested)

Message #4 Posted by [James M. Prange](#) on 4 Sept 2002, 7:11 a.m.,
in response to message #2 by James M. Prange

Whoops, forgot there was more. The 28S has MAXSigma and MINSigma commands, which I believe are what you mean by limits, and the range is just the difference between them.

I think that MSORT looks like the best bet for a 28S sorting routine, but read MSORT.TXT for how to change it so that it will work with a 28S as well as a 48. See <http://www.hpcalc.org/details.php?id=2840>

Modes sounds like the hard one, particularly for multi-modal distributions. I suppose that what I would do is make a histogram. First save SigmaDAT under some other name. Make a 2-column matrix with the elements of the first column representing the midpoint of each "bin" (group? I forget the proper term), and the second column initially all zeros, and store it as SigmaDAT. Try to choose boundaries such that no data will actually fall exactly on a boundary. Loop through the column of your statistics data that you're interested in, and for each element use nested IF... structures using one of the inequality tests (greater than, less than, etc.) to find out which "bin" it belongs in, and add 1 to the corresponding element in column 2 of SigmaDAT. Finally use SigmaDRW to draw a scatter plot.

Note that you can use "indexed variables" on the 28S (but not on the 28C). That is, 'SigmaDAT(3,2)' EVAL recalls the object from the third row, second column of SigmaDAT, and 'SigmaDAT(3,2)' STO stores a real from level 1 there. Of course you can accomplish the same thing with GET and PUT.

Sounds like a lot of work. Have you considered getting a 48G series?

Regards,
James

Re: HP28S Programming help (requested)

Message #5 Posted by [Christof \(Davis, CA\)](#) on 4 Sept 2002, 11:34 a.m.,
in response to message #4 by James M. Prange

Ah, I should have said "class limits". maxSigma does give a good single mode, which gives me a stock mean, sdev, and single mode for reports. (assuming sample populations)

I really like the 28s- or even the 48sx. I've used a 48g and don't really care for the menu system on them much.

(another alternative is to use a 41/42 variant for all of this, but one of my goals is to learn rpl programming)

I'm looking through the gathered data so far, thanks for the what you've posted!

-C

Re: HP28S Programming help (requested)

Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 4 Sept 2002, 12:11 p.m.,
in response to message #1 by Christof (Davis, CA)

Hello, Christof;

I sent you an e-mail about this subject. Did you get it?

Just to know...

Cheers.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Ordered, paid, no CDs yet

Message #1 Posted by [J Tiers](#) on 3 Sept 2002, 10:58 p.m.

Ordered the CDs on Aug 22, got my receipt via email, but nothing has arrived.

I ordered from several other places the same day, everything else arrived long ago.

Vacation get in the way? Does it usually take a few weeks? Whats up with this?

Re: Ordered, paid, no CDs yet

Message #2 Posted by [Steve Seto](#) on 3 Sept 2002, 11:13 p.m.,
in response to message #1 by J Tiers

I have the same problem. I assumed it was a vacation or other delay, but now I'm also starting to wonder...

Don't worry

Message #3 Posted by [thibaut.be](#) on 4 Sept 2002, 5:35 a.m.,
in response to message #2 by Steve Seto

In the Internet Era, you want to see the DHL guy 5 minutes after you sent your payment by a secure credit card site.

This site is no commercial site. The CD set is a fantastic resource ran by Dave and many amateur contributors.

I have no idea of Dave's schedule, but I wouldn't be alarmed of a 10 days delay... Don't worry, Dave is a very serious person and no doubt you will receive shortly what you requested... just a little patience.

ja, just that "I ship right away" thing

*Message #4 Posted by [J Tiers](#) on 4 Sept 2002, 8:52 a.m.,
in response to message #3 by thibaut.be*

where he says orders in by Friday go out Saturday.

Re: Don't worry

*Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 4 Sept 2002, 12:18 p.m.,
in response to message #3 by thibaut.be*

Hi;

I'd take Thibaut words as mine, if I may.

My brother, when he was in USA, ordered the CD's and, in a couple of days, the package was in his hands. I myself had to wait for more than a month, so he was back.

I believe Dave, as it happens many times, is travelling. It happens that, for many reasons, we do not see his posts frequently in here for some time. I think we are in one of this "some time".

I'd not worry.

Just to let you know that many of us in here are aware of what happens in this site. And we share the same confidence on each other.

Thank you.

Re: Don't worry

*Message #6 Posted by [Scuba Diver](#) on 4 Sept 2002, 2:40 p.m.,
in response to message #5 by Vieira, Luiz C. (Brazil)*

Hi there!

I also had my credit card charged on the 22nd and I haven't yet received my CDs, but to be honest, I haven't really given it any thought. I don't really think there's anything worth worrying about.

Perhaps a personal story will help illustrate. Last year was the "international year of

the volunteer" so I decided I should get involved in my community. I decided to join a charity that my employer runs.

The work is extremely fulfilling; you definately get a feeling of accomplishment. The one unfortunate aspect is that nobody else appreciates what you've done!!! The people associated with the charity expect you to give 100% as if it's your "real" job, and the people at your "real" job expect you to focus solely on work.

It's impossible to keep everyone happy. For a while, I did what I could, but I felt like I was working two full-time jobs; I didn't have any free time so I started to burn out. Finally, I had to reduce the amount of time I spent volunteering.

My reason for sharing this is; this is not Dan's "real" job. It's a hobby. I figure, it's the summer, everyone's on vacation, let's cut him some slack. Otherwise, if we expect him to be working 80-hour weeks, we may find the site shut down someday!!!

Oh, no, I think I may have given myself nightmares!!! No more HP Museum? What would I do with all of my free time? Maybe I'll take up volunteering...

:)

B.

Oh, yes, that is true.....

*Message #7 Posted by [J Tiers](#) on 4 Sept 2002, 5:09 p.m.,
in response to message #6 by Scuba Diver*

but on the other hand, he is the one who decided to sell the CDs, so if it REALLY takes 30 + days to ship, he should say so up front, not say orders in by Friday are shipped Saturday.....

I am assuming he is on vacation, for the moment. Sometimes people post that on their sites, to avoid questions such as mine. Then you know that you can expect a wait.

Please note the word "Usually"

*Message #8 Posted by [Dave Hicks](#) on 4 Sept 2002, 7:55 p.m.,
in response to message #7 by J Tiers*

" so if it REALLY takes 30 + days to ship, he should say so up front, not say orders in by Friday are shipped Saturday....."

It REALLY doesn't take 30+ days to ship. On average it takes about 4. My order form used to say:

"Usually, orders placed by noon Friday PST are shipped on Saturday. Credit cards are not charged until the night before the CDs are shipped."

That first word is important. For the last few weeks, I've been billing on Wednesday and shipping on Thursday morning so I've changed the order form to indicate that. I would never insert a vacation between billing and shipping. Being hit by a truck perhaps, but not a vacation.

Each order in this thread was billed on the Wednesday afternoon following its receipt and shipped the next morning. (With the possible exception of Mr. Diver's since I don't know who he is.)

When a longer delay is expected, I do note it.

I Received my CDs!!!

*Message #9 Posted by [Scuba Diver](#) on 5 Sept 2002, 10:43 a.m.,
in response to message #8 by Dave Hicks*

Hi there!

I picked up my CDs this morning; they had arrived two days ago but I wasn't home to sign for them...

I had some duty to pay...so much for free trade between Canada and the US!

Thanks Dave (and sorry about my earlier note...I don't know why I called you Dan!)

B.

Re: I Received my CDs!!!

*Message #10 Posted by [Dave Shaffer](#) on 5 Sept 2002, 4:00 p.m.,
in response to message #9 by Scuba Diver*

re "I had some duty to pay...so much for free trade between Canada and the US!"

Good: somebody official (the Canadian Government) thinks Dave's efforts have value!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

surveying programs for hp32sii

Message #1 Posted by [henry shipman](#) on 3 Sept 2002, 9:28 p.m.

I AM LOOKING FOR A BOOK OF SURVEYING PROGRAMS FOR THE HP 32 S II, I WAS INFORMED OF ITS EXSISTANCE BY A REGISTERED PROFESSIONAL LAND SURVEYOR, BUT SO FAR HE HAS NOT KEPT HIS PROMISE TO GET ME THE LINK FROM THE HP WEB SITE COULD ANYONE HELP ME OUT HERE PLEASE SEND INFORMATION TO HENRY SHIPMAN AT GHSJR1966@YAHOO.COM , THANKS FOR ANY HELP.

Re: surveying programs for hp32sii

Message #2 Posted by [Karl Schneider](#) on 4 Sept 2002, 12:34 a.m.,
in response to message #1 by henry shipman

THE 32 S II HAS ONLY 384 BYTES OF MEMORY, I DOUBT IT COULD HANDLE LIBRARIES OF PROGRAMS ARE YOU SURE YOU DIDN'T MEAN THE 42S, 41-SERIES, OR 48-SERIES AND COULD YOU PLEASE PERUSE THIS SITE, TURN OFF YOUR CAPS LOCK AND WRITE PROPERLY, THANK YOU.

(Dave: Please feel free to delete this post along with the previous.)

Re: surveying programs for hp32sii

Message #3 Posted by [Chris Catotti \(Florida\)](#) on 4 Sept 2002, 9:10 a.m.,
in response to message #2 by Karl Schneider

I have three short surveying programs that were given to me by a surveying company. I'll see if I can find them and post them here. Meanwhile, if you are in a hurry you moight email me your postal address or fax number.

chris cattoti

*Message #4 Posted by [g. henry shipman](#) on 4 Sept 2002, 7:46 p.m.,
in response to message #3 by Chris Catotti (Florida)*

chris i am the one looking for the 32sii programs, i currently have several but am always looking for more you can post them here or e-mail them to me @ ghsjr1966@yahoo.com thanks for reading this posting to everyone, all help is greatly appreciated. if you would like a copy of the programs that i have let me know.

Re: surveying programs for hp32sii

*Message #5 Posted by [henry shipman](#) on 4 Sept 2002, 7:34 p.m.,
in response to message #2 by Karl Schneider*

no i have several programs for the 32sii now but am looking for more than what i currently have. my dad is a r.p.l.s. and he uses the 32sii for surveying so i have his programs as well as some i've picked up from people who do surveying in chemical/refinery plants. so i know that there are programs for surveying on the 32sii out there. i was told by another r.p.l.s. that there is a book of suveying programs for the 32sii just like there is for the 42s, so any help in locating this (mythical) book would be greatly appreciated.

Re: surveying programs for hp32sii

*Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 5 Sept 2002, 12:27 a.m.,
in response to message #5 by henry shipman*

Hi;

there are some surveying programs originally written for the HP41C/CV that are available with the User's Library Solutions. They are short enough that I believe, with a few changes, they can fit in an HP32SII. The exception may be Spiral Curve Layout, because it is 331 steps long. I know there is no direct equivalence from HP41 program steps to HP32SII program steps, but it can give an idea. The other group of programs that may also be hard to "tranlate" are the ones that compose Traverse Adjustment Routines, mostly because they use card reader functions and are divided into three programs.

Pleae, Henry, feel free contacting me for further information.

Best regards.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

The new line-up

Message #1 Posted by [Scott Pritchard](#) on 3 Sept 2002, 11:55 a.m.

Anyone have a update on the supposed new line-up of hp calculators, or is this just hot air??? I've had a dig around the net, not even a hint. Scotty.

Re: The new line-up

Message #2 Posted by [Tom \(UK\)](#) on 3 Sept 2002, 12:06 p.m.,
in response to message #1 by Scott Pritchard

Don't know.

HP are normally very quiet before the launch of calculators. Could this be so they can pull the plug at the last second?

Re: The new line-up

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 3 Sept 2002, 2:07 p.m.,
in response to message #2 by Tom (UK)

Maybe they are waiting for any sign from London's HPCC conference.

Let's take a breath and wait... What else?

Re: The new line-up

Message #4 Posted by [Steve Borowsky](#) on 3 Sept 2002, 7:32 p.m.,
in response to message #1 by Scott Pritchard

Are you familiar with the Casio fx-7000G?

Re: The new line-up

Message #5 Posted by [Scott Pritchard](#) on 4 Sept 2002, 10:17 a.m.,
in response to message #4 by Steve Borowsky

You have some inside knowledge Steve, tell me more.

Re: The new line-up

Message #6 Posted by [Steve Borowsky](#) on 4 Sept 2002, 8:32 p.m.,
in response to message #5 by Scott Pritchard

<<You have some inside knowledge Steve, tell me more.>>

The statement was a reflection of my dissapointment with the recent offerings from HP: The 49 and particularly the 30S and 6S. Not that I don't appreciate the tremendous effort and knowledge that went into the 49, but I found the manner of it's attempted positioning in the marketplace offensive. It's pretty obvious to me that HP is not thinking of calculators in the same way they used to. Not that I am totally pessimistic about the future, in fact I tend to be too optimistic most of the time. we'll have to see what comes out of HP in the future. I mentioned the fx-7000G because that was the worlds first graphing calculator, introduced in Japan in 1985 and the U.S. in 1986. A tremendous step forward at the time, but reissued today under the HP name, it would be a tremendous step backward, which would be in keeping with the recent trend at HP, IMO.

Re: The new line-up

Message #7 Posted by [Scott Pritchard](#) on 5 Sept 2002, 10:54 a.m.,
in response to message #6 by Steve Borowsky

I don't understand your connection with a outdated Casio and what HP might release in the coming future. I may of missed a past conversation where there was a link, you will need to bring me up to speed on that one. It would seem rather retrogressive to step sideways into someone else's technology when you have your own. Repackaging would properly suffice for years to come if a Casio fx-7000g was going to be the alternative. Features such as RPN can be easily inculded these days as soft ware options. Whom the manufacture is will be irrelevant, provided the design parameters stike a cord with us the devoted consumer. Regards Scotty (OZ)

Re: The new line-up

*Message #8 Posted by [Steve Borowsky](#) on 5 Sept 2002, 10:19 p.m.,
in response to message #7 by Scott Pritchard*

Scott,

I didn't mean literally that I believed HP would re-badge the 7000G and introduce it as their own 'new' product. But when you compare, say, the 32SII with the 30S, which was introduced something like 10 years later, clearly, this is a big step backward. My comment on the 7000G was a facetious attempt to carry this annoying trend to its logical conclusion. I apologize for any misunderstanding about that.

Re: The new line-up

*Message #9 Posted by [db\(martinez,california\)](#) on 5 Sept 2002, 11:05 p.m.,
in response to message #8 by Steve Borowsky*

steve; you didn't carry that annoying trend far enough. how about "the new hp re-introduces the biocalculator, mark one" a.k.a. fingers. if they need a sample to reverse engineer, i'll show them one of mine.

Re: The new line-up

*Message #10 Posted by [Steve Borowsky](#) on 6 Sept 2002, 12:21 a.m.,
in response to message #9 by db(martinez,california)*

LOL. Good one, db. After all, "turn about is fair play".

Re: The new line-up

*Message #11 Posted by [Scott Pritchard](#) on 6 Sept 2002, 12:38 a.m.,
in response to message #8 by Steve Borowsky*

Sorry Steve I've been a bit slow on the uptake, I see your point. From my experience decision makers are light years apart from our type of logic and communication is a alien concept. Visionareies and pioneers are very rare commodities in the corporate world. Regards Scotty

Is that what you mean???.....

Message #12 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 4 Sept 2002, 12:34 p.m.,
in response to message #4 by Steve Borowsky

Hi, Steve;

do you believe (or know something about) that HP is going to offer personal computing devices as those? Well, I always saw both HP75 and HP71 as signs of a "marketing preview" for this kind of equipment. I also "feel" as if HP always offers some "powerful add-on's" that differentiate their products. I should not write this down, but it has been to me as a CISC-like design: *"we offer these tools, even if you will seldom use them; but you'll pay for them"*. I do not see any other harm on this EXCEPT for final prices. I am completely aware of quality, design cost, patents involved, the brand itself. But I know many people that prefer to choose another cheaper, discarding, "easier to learn" (that is a lot different than "easy to use") calculator than to accept they cannot buy an HP and try to use it.

I'd like to know how to operate an HP71B, but I do not like BASIC language. I hope that, if HP goes for other market slices, that it does not forget us and keep RPN as an alternative, like the HP49G and both 17/19 BII.

Once again, time will tell. And pulling the plug, as Tom mentioned, reminds me the Xpander project. I'd rather not mentioning it...

Cheers.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP48SX non responding

Message #1 Posted by [Rodolfo Vilchez](#) on 3 Sept 2002, 9:49 a.m.

My HP 48SX is not turning on beside a replace all the batteries for new ones. I follow a procedure that on the owners manual. Does anybody knows what could happen and i could do for troubleshoot this problems?

Thanks in advanced for any suggestion

Rodolfo

Re: HP48SX non responding

Message #2 Posted by [Glen Kilpatrick](#) on 3 Sept 2002, 11:14 a.m.,
in response to message #1 by Rodolfo Vilchez

Try leaving the batteries out, and playing with the keys (should completely drain any capacitance power). And there's a reset button underneath _one_ of the rubber feet (I don't know which one, have never gone down this particular path) that you can use a paper clip on (hopefully another will post more on this procedure). Otherwise, I may have a 48S for sale....

Good Luck!

gk :)

Re: HP48SX non responding - Rubber feet location

*Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 3 Sept 2002, 1:54 p.m.,
in response to message #2 by Glen Kilpatrick*

Hi;

facing the back "label", it's the top-left rubber feet. It's easily removed by using your own finger nail. There is a small hole with a little "R" closed to it. Now, paper clip, a bit press for about ten seconds and [ON] [A] [F] together; that's the master clear, and it's the best recovery procedure.

Also, check batteries polarity... Who knows?

Success.

Re: HP48SX non responding - Rubber feet location

*Message #4 Posted by [James M. Prange](#) on 4 Sept 2002, 1:45 a.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)*

On my older 48SX it's the top-left foot, but on my newer 48SX (and I guess all 48G series), it's the top-right foot. Look for the letter "R" next to the hole. The "hardware reset" by itself forces a warmstart; useful when things are so fouled up that [ON][C] together won't do it.

It wouldn't hurt to check that the batteries are actually good. I once had a bad experience replacing low "N" cells in a 28S with new ones, and found that the new batteries were almost completely dead; not even enough power to retain memory. I doubt that that would happen with "AAA" cells, but if there are children around, they might replace the batteries in their toys and put the old ones back in the box.

Regards, James

Re: HP48SX non responding - Rubber feet location

*Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 4 Sept 2002, 7:22 a.m.,
in response to message #4 by James M. Prange*

Hi;

You're completely right! I forgot that changing. I just took my HP48SX and checked for the hole.

Thank you!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

94F Wand

Message #1 Posted by [Mike](#) on 3 Sept 2002, 12:00 a.m.

I was playing (can we call it that) with my 94F today and was wondering about the BarCode Wand. I looked around and found an HP wand that looks like it might be a match for the 94. But I have never seen a wand for the 94 so don't know what they look like.

The Wand (HP) looks almost identical to the 75C/D wand except it doesn't have the switch. It also has a matching 5 pin connector, instead of the smaller 3 pin connector. There are no part numbers on the wand. Anyone know what the 94 wand looks like? Might this be the right wand?

I plugged it in and turned on the 94 and it didn't light up. I know I have to write a program to use it but don't know if it should light up absent of the program. Anyone know?

Re: 94F Wand

Message #2 Posted by [Raymond Hellstern](#) on 3 Sept 2002, 3:40 a.m.,
in response to message #1 by Mike

Yes, this is the right wand (I own a NIB 94F, too;-) It has a spiral cord, and the connector has a full metal jacket...

And yes, the wand doesn't seem to light up when connected only. AFAIR the technical manuals are on the Museum CD's.

Raymond

BTW: The Zenwand for the HP-71 is a very nice thing. It just works out of the box. Too bad the 94F isn't as easy to use.

Re: 94F Wand

*Message #3 Posted by [Mike](#) on 3 Sept 2002, 10:17 a.m.,
in response to message #2 by Raymond Hellstern*

I have the technical manuals. I noticed today that the Cold and Warm defaults are for power to the wand port to be off.

I'm going to try and write a test program for the 94 this weekend and try out the wand.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

41C Halfnut Character Set

Message #1 Posted by [Gordon Dyer](#) on 2 Sept 2002, 8:39 p.m.

I read CHHU Chronicle July/August 1985 pages 9-11i. There is an article about the Halfnut improved HP-41C, CV and CX and it gives an extended character set with all of the lower case characters a-z.

My HP-41CX Halfnut and its manual does not show this extended character set. Does anyone know anything about it? Is it real? If it is real how can I display the characters? I have tried XTOA and this matches page 310 of the 41CX manual. The article refers to the A, B, and C registers with the extended character set, can anyone explain these?

Thanks,
Gordon

Re: 41C Halfnut Character Set

Message #2 Posted by [Tony Duell \(UK\)](#) on 2 Sept 2002, 9:01 p.m.,
in response to message #1 by Gordon Dyer

The extra characters `_do_` exist (as does the contrast control function), but you can't access them from Focal using any HP function, including Synthetic Programming (so XTOA won't work). The only way to get them is by using Mcode (the HP41's machine code), which means you need a RAM box (such as an MLDL) and something like the MLDL-OS ROM or ZenROM.

Re: 41C Halfnut Character Set

Message #3 Posted by [Chris Catotti \(Florida\)](#) on 3 Sept 2002, 2:08 p.m.,
in response to message #2 by Tony Duell (UK)

I would love to get more information on this. I would like to try it out with CCD, ZENROM and HEPAX modules. I had only heard about the contrast. This function was included in the CCD Module.

Re: 41C Halfnut Character Set

Message #4 Posted by [hans brueggemann](#) on 5 Sept 2002, 11:12 a.m.,
in response to message #3 by Chris Catotti (Florida)

chris, where did you get that information from? i checked cat2 of the ccd module (it's a w&w ccd A), but i could not find any related function. or, is it a hidden goodie in the function block headers of the ccd's cat2?? (hm... forgot how to activate that. does anybody know how ?)

cheers, hans

Re: 41C Halfnut Character Set

Message #5 Posted by [Chris Catotti \(Florida\)](#) on 6 Sept 2002, 11:20 p.m.,
in response to message #3 by Chris Catotti (Florida)

I was mistaken ... It is provided in the HEPAX Module by VM Electronics. The function name is CTRAST. The manual on page 78 says:

"The CTRAST (display ConTRAST, HEPAX 005) function sets display contrast on the newer HP-41s (the Halfnuts, known by a black rim on the display). Place a number from 0 to 15 in the X register to set the contrast. 5 is default. This function has no effect on older calculators."

I am sorry about the error.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

What's wrong with this picture?

Message #1 Posted by [Dave Mabry](#) on 1 Sept 2002, 10:31 p.m.

Is it me, or is there something "unusual" about the photo in this ad?

[E-bay ad for 32S](#)

Maybe it is a "rare" version, eh?

Re: What's wrong with this picture?

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 1 Sept 2002, 11:51 p.m.,
in response to message #1 by Dave Mabry

Hi;

maybe I'm wrong, but this is the very first version of the discontinued HP32SII, named HP32S. This one cannot handle algebraic expressions, and (if I am not wrong again) the HP32SII can. It's indeed a rare calculator.

OR there is something in the photo I did not catch: something not related to the calculator itself?

What???

Re: What's wrong with this picture?

Message #3 Posted by [Dan Lamb](#) on 2 Sept 2002, 1:53 a.m.,
in response to message #1 by Dave Mabry

This is rare indeed. A 32sII with the correct key overlay and the wrong number up top. This would be quite rare indeed.

Dan

Re: What's wrong with this picture?

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 2 Sept 2002, 3:09 a.m.,
in response to message #1 by Dave Mabry

Ooops... Shame on me! Now I "see" what you mean.

I tripped in my own tongue...

32SII RPN -vs- Algebraic

Message #5 Posted by [Ed Martin](#) on 2 Sept 2002, 10:01 a.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)

I just wanted to clear up an oft-repeated misunderstanding about the 32SII and its algebraic capabilities.

The 32SII (and 32S) are purely RPN machines, and cannot be used as algebraic calculators. This is in contrast to the 17BII and 19BII, which have mode selections for either algebraic or RPN entry.

Having said that, there is one area where the 32SII can handle algebraic expressions the Equation Solver. This calculator has the ability to store a list of equations and expressions (no = sign) that are written in equation (i.e., algebraic) form. You can then evaluate the equation or expression to determine the answer. You just can't calculate that way with direct entry of a one-off calculation.

I hope this helps. Of course, most of us on this forum would probably agree that the lack of algebraic input on the 32SII is not much of an oversight, eh?

- Ed

Re: What's wrong with this picture?

Message #6 Posted by [Randy Sloyer\(US\)](#) on 2 Sept 2002, 11:42 a.m.,
in response to message #1 by Dave Mabry

The photo must have been touched up. Enlarging it shows possible pixel movement in the area where the "II" part of the logo should be for this calculator.

Also, look at the other photo in the auction. It is of an original 32S, with a dirty keyboard and old style bezel. No rarity here.

On a similar note, I asked myself the same question "What's wrong with this picture?" when I saw this auction last week. Now I'm thinking whoever buys this 32S calc, they should get the manual from this buyer:

<http://cgi.aol.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1376581158>

Re: What's wrong with this picture?

Message #7 Posted by [Ellis Easley](#) on 2 Sept 2002, 1:54 p.m.,
in response to message #1 by Dave Mabry

It's just a 32SII, isn't it? I can't tell if the label has a "II" or not. I wasn't sure how different a 32S was until I looked at the auction Randy pointed to. I wonder if the guy just overlooked the "II" or if he's trying (not very hard!) to pull a fast one?

A couple months ago, didn't somebody say they got a 48G (or GX) that seemed to be a 48S (or SX) with the G keyboard bezel? I looked for that message later and couldn't find it. Sure sounded to me like somebody salvaged a bezel from a broken 48G and used it to up the price on a 48S.

I took a chance a couple weeks ago and did a "BIN" for a 12C for \$15.99. The picture wasn't very clear and the guy sent it (in its slipcase) in a USPS Priority Mail flat rat envelope with no extra protection, but it arrived OK and is in very good condition, made in 1992 in Brazil (this is my first HP made in Brazil).

Re: What's wrong with this picture?

Message #8 Posted by [David Ramsey](#) on 2 Sept 2002, 5:02 p.m.,
in response to message #1 by Dave Mabry

FWIW, here's what the seller said when I pointed this out to him:

"I apologize for the mix-up. I used images from another's auction. I will take more detailed pictures when I get back to work tomorrow and send them on. The calculator is a 32s and is in excellent condition. Thanks, Chris"

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Synthetic programming with HP-67 ?

Message #1 Posted by [jose goncalves](#) on 1 Sept 2002, 8:43 p.m.

I read somewhere that there were some tricks to try with the HP-67. Someone even called this "synthetic programming fo HP-67". As I never heard details of this subject I would like to know where I can find some more concrete information on this.

Thanks

Try the magnetic cards with letters & words

Message #2 Posted by [Gene](#) on 1 Sept 2002, 9:58 p.m.,
in response to message #1 by jose goncalves

Several people who frequent here have 15 or so magnetic cards they will make available if you ask for them.

These include cards with lots of words stored in the registers, one is a Coca-cola commercial that plays out over the screen, another is an HP Poem about early calculators, etc.

Gene

WARNING about Synth on the HP67/97

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 2 Sept 2002, 12:12 a.m.,
in response to message #2 by Gene

Hi, José;

I read here (I do not own neither the HP67 nor the HP97) that any attempt to print these characters WILL BURN THE PRINTER HEAD (HP97, of course). Also that switching the calculator OFF and ON quickly will allow some strange "trash" to appear in the display, sometimes entire words.

Well, I would try Gene's suggestion to ask for the cards with these "fellows" already trapped.

And DO NOT TRY TO PRINT THEM...

Cheers.

Re: WARNING about Synth on the HP67/97

*Message #4 Posted by [Fred](#) on 2 Sept 2002, 5:57 a.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)*

Hoax or not hoax ??????????????????

Re: WARNING about Synth on the HP67/97

*Message #5 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 2 Sept 2002, 8:45 a.m.,
in response to message #4 by Fred*

Hi, Fred;

no place for Hoax here, my friend. I read about these here and I do not have an HP97 to try. I may, if needed, try to find the post (among many others) in the archive and bring it back. Only if needed.

Is there anyone else in here that can add some more info?

Cheers.

Good warning...never try to print these "NNNs" on the HP-97

*Message #6 Posted by [Gene](#) on 2 Sept 2002, 9:09 a.m.,
in response to message #5 by Vieira, Luiz C. (Brazil)*

Of course, the original post was for the HP-67 and there is no danger there of printing these out. :-)

However, these "letters" and effects are formed from Non-Normalized-Numbers (NNNs). If one tries to print them out, you can kill the HP-97 printer. Details can be found in the old PPC Journal.

If you don't have the CD ROM versions of the PPC Journal, shame on you! :-)
You can get it from Jake Schwartz's calculator page for a very small fee. It's great.

Gene

Re: Good warning...never try to print these "NNNs" on the HP-97

*Message #7 Posted by [Fred](#) on 2 Sept 2002, 12:27 p.m.,
in response to message #6 by Gene*

I just would like to understand how printing numbers can "burn" or "kill" the printer head ??????

Re: Good warning...never try to print these "NNNs" on the HP-97

*Message #8 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 2 Sept 2002, 1:59 p.m.,
in response to message #7 by Fred*

Hi;

I should not be writing this, but I believe I am not completely wrong. Otherwise, please, correct me.

Again, I do not own an HP97, but I understand that printing numbers will never burn or kill the printhead; otherwise, if you think that NNN (Non-Normalized-Numbers) are numbers out of the range 0000_2 to 1001_2 , then they are probably in the range 1010_2 to 1111_2 , what is logically acceptable if we think ASCII code, not BCD. Please, consider that I do not have any idea if this is possible or not, I'm just thinking about electronics, HW, SW and the burning head.

If the calculator (HP97) does not offer the standard input for these "numbers" (A_{16} to F_{16}), then many things can happen if they appear in any register. Even "burning" or "killing" the printhead when one attempts to print them, and it may happen as a consequence of (for example) not turning off the head "burners" (resistors). As the NNN are not expected, the printhead controller may simply fail. Agree?

The "head burning" is a fact, and some guys in here have had the (sad) experience of seeing this happening.

Cheers.

Re: Try the magnetic cards with letters & words

*Message #9 Posted by [Dale Richmond](#) on 2 Sept 2002, 8:44 a.m.,
in response to message #2 by Gene*

Hello, I have the magnetic cards for the HP67/97 series of calculators (thanks Gene) and would be willing to copy them for anyone who is interested. Just drop me an email.

Re: Try the magnetic cards with letters & words

*Message #10 Posted by [Dan M \(Vermont, USA\)](#) on 2 Sept 2002, 10:01 a.m.,
in response to message #2 by Gene*

I, too, have a set of the cards (thanks, Gene - these have been languishing on my "catch up to it someday" pile) and can copy them for those who need them. Send me an email. I think that one of the 15-20 or so cards I have does not work, but the others do.

Dan

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: HP41 Rechargeable Battery Pack Repair Solution

Message #1 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 1 Sept 2002, 8:13 p.m.

I am not sure at all, but since I do have a few 1500 mAh AA cells, 500 mAh in N size doesn't seem that unreal to me... At least the energy density looks similar. They may be NiMH...

Re: HP41 Rechargeable Battery Pack Repair Solution

Message #2 Posted by [David Smith](#) on 1 Sept 2002, 11:03 p.m.,
in response to message #1 by Andrés C. Rodríguez (Argentina)

Yes, you can get over 1800 mAh in a AA NiMH cell. The cells in a 41C rechargeable pack are 1/N... 75-80 mAh in NiCad, 150 mAh in NiMH. The 1/3AAA mentioned before are a LOT smaller than the 1/2N size (remember volume and charge density go down with the square of the diameter). 50mAh in Nicad is about it. I have not seen NiMH cells in that size (or looked for them either).

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: A revised family tree

Message #1 Posted by [jose goncalves](#) on 1 Sept 2002, 7:43 p.m.

There was never an hp-32C, you're right. It was my mistake and I'm intending to correct the tree very soon.

Thanks for the comment.

Jose

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: A revised family tree

Message #1 Posted by [jose goncalves](#) on 1 Sept 2002, 7:41 p.m.

In fact I've been thinking of taking the 9815 out of this diagram. You're right: it doesn't belong there, even if there is direct link with the HP-46.

As for the newer machines, I included the hp-10BII only to clearly show to horribly long period of time we've been without new and interesting things from HP.

Thanks

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Help with this HP-12C

Message #1 Posted by [jose goncalves](#) on 1 Sept 2002, 7:35 p.m.

I'm trying to fix one of my hp-12C that insists in display sort of an adolescent behavior, like some teen agers will.

It operates for some 50 seconds to 1,5 minutes, and calculations are ok in this period of time. Then it suddenly crashes, the display blanks and the hp-12C will not respond until I take the cells out and wait for some 30 or 40 minutes.

I've resoldered the contacts (spring and stand) that touch the button cells and rechecked everything from the visual point of view.

Can anyone give a piece of advice here ? Did you experience the same with your Voyagers ?

Thank you

Jose

BTW, it's amazing how few electronics is included in this calculator ! I could find only 2 CI and 2 discrete components. I didn't check under the isolated protection for the display element, but there is no space for many more ICs.

Re: Help with this HP-12C

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 1 Sept 2002, 11:29 p.m.,
in response to message #1 by jose goncalves

Oi, cara! (Hi, pal!)

It seems you have an old, good HP12C. The most recent ones have only one IC (even the mid-term ones, between the three-button cells and the single 3.3V cell). Yours is a lucky ancient.

I would solder, also, all of the IC's terminals. This procedure worked fine with one HP11C and a mid-term HP12C (the one I mentioned that has only one IC and keeps the three-button cells).

If you believe this is risky, you can try "conductive ink". As you are in São Paulo, you may find some sort of conductive ink at the dedicated electronic shops (Santa Efigênia, isn't it? I'm always confused with Rua Aurora; which of them is in São Paulo and which is in Rio de Janeiro?). If you find the ink (there are golden and silver ones, you pick), you should try "painting" each IC's terminals at the point they touch the printed circuit board. The only problem is that if it does not work, soldering them after this will "burn" the ink, leaving residual stuff that may cause future problems.

If you believe you need some more info, e-mail me. Let's talk about it.

Sucesso!

(I owe you a telephone call... Forgive-me)

Re: Help with this HP-12C

Message #3 Posted by [jose goncalves](#) on 2 Sept 2002, 7:36 a.m.,
in response to message #2 by Vieira, Luiz C. (Brazil)

Hi, Luiz

Thanks for the suggestion. I'll try this asap.

As for those streets, both of them are here in Sao Paulo. In fact they will cross in famous corner in our "electronics bazaar district".

(I called you yesterday, but ...)

Jose

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Setting time/date on HP01 watch

Message #1 Posted by [Sarah](#) on 1 Sept 2002, 1:06 p.m.

I don't have a manual for my HP01 and need to know how to set the time/date. I remember it's really simple, but I don't remember the key combination! me=dork.

If anyone knows, please pass the wealth of information on to me.

Re: Setting time/date on HP01 watch

Message #2 Posted by [David Ramsey](#) on 2 Sept 2002, 1:01 p.m.,
in response to message #1 by Sarah

To set the time:

type in hours, colon, minutes, colon, seconds, then press the delta key (up-pointing triangle) and the "T" key. Time will start instantly at the new value.

To set the date:

Type in month, slash, day, slash, and 2 digit year, then press delta-"D"

Re: Setting time/date on HP01 watch

Message #3 Posted by [sarah](#) on 2 Sept 2002, 2:59 p.m.,
in response to message #2 by David Ramsey

you=awesome!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP30S

Message #1 Posted by [Howard Jones](#) on 31 Aug 2002, 10:30 p.m.

How do I use the %CHG function on my 30S?

Re: HP30S

Message #2 Posted by [rsenzer](#) on 1 Sept 2002, 12:19 a.m.,
in response to message #1 by Howard Jones

For example Percent Change from 4 TO 5 is 25:

Keystrokes are [2nd][%CHG]4[2nd][,]5[ENTER] You will see 25.

The calculator will supply the enclosing parenthesis around 4 and 5 automatically. The [%CHG] is the 2nd function above the multiplication [x] key and the comma [,] is the 2nd function above the division key.

Re: HP30S

Message #3 Posted by [Howard Jones](#) on 1 Sept 2002, 8:27 a.m.,
in response to message #2 by rsenzer

Thank you rsenzer. That must have been the only bloody combination I didn't try.

Re: HP30S

Message #4 Posted by [Ellis Easley](#) on 1 Sept 2002, 8:36 a.m.,
in response to message #3 by Howard Jones

Not trying to "teach my grandmother to suck eggs", but you can download the little user's guide from HP:

http://www.hp.com/cposupport/manindex/hp30sscien30829_eng_man.html

20S, 32SII manuals

Message #5 Posted by [Ellis Easley](#) on 1 Sept 2002, 8:48 a.m.,
in response to message #4 by Ellis Easley

The HP website also has manuals for the 20S and 32SII to download, but only in Spanish and Portuguese.

http://www.hp.com/cposupport/manindex/hp20scalcu20667_pr_man.html

http://www.hp.com/cposupport/manindex/hp32scalcu20672_pr_man.html

Re: 20S, 32SII manuals

Message #6 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 2 Sept 2002, 12:15 a.m.,
in response to message #5 by Ellis Easley

Hi;

you touched one interesting point: why Spanish and Portuguese?

I have my own guesses, and they are related to parallel-marketing sales, but I do not understand that. I tried to download the English version of the 17BII's manual and I got only the Portuguese and Spanish options, too. I thought it was so because I was downloading from Brazil, but now you called my attention. It seems that only the HP12C (Solutions Handbook, not Owner's Manual), HP10B and HP10BII offer the Portuguese, English and Spanish options. And the manuals I downloaded (HP17BII Portuguese and HP10BII English and Portuguese) are *.PDF files built with scanned, bitmapped images, not ASCII encoded text. Too big and no search options (HP19BII Spanish Manual is more than 23MBytes big).

BTW, I was looking at the HP10BII design and I felt something strange. I got to check for my fear feelings and I could see that it resembles the Xpander... It has the same top and bottom plastic "slice" (forgive-me I did not find the correct term for it) present in the Xpander. I also checked the HP30S, and its keyboard, with rounded-corner keys, tries to imitate the Xpander keyboard. Are these signs related to what is about to come from HP? Please, correct me if I missed something....

Cheers.

Re: 20S, 32SII manuals

*Message #7 Posted by [Ellis Easley](#) on 2 Sept 2002, 10:12 a.m.,
in response to message #6 by Vieira, Luiz C. (Brazil)*

I think those manuals are pre-internet and probably were not saved in electronic format. The 12C applications manual is also scanned. As for why just Spanish and Portuguese, I'm curious too! I wasn't able to download them but I think my computer is very low on disk space, it has been doing some other funny things. I want to download them in the hope that I might learn a little of the languages (I'm supposed to know some Spanish already).

BTW, Luiz, are you familiar with the TI business models? I have a Business Analyst (the original one, from the family of the TI57 and TI30) and recently tried to figure out how to use it. The statistics functions I figured out because I have the booklet for the SR-51, which seems to be their source. Also the cost-price functions I figured out from the HP14B manual. When I tried to figure out the TVM program by comparison to HP manuals, some things worked but some didn't. I looked on datamath.org and rskey.org but they don't have any manuals but rskey.org did have advice on finding manuals and pointed out that TI has them for current models online. I looked there and found the BA Solar which works very similarly but with more functions, but still many things I tried on my machine gave "ERROR" or just calculated 0 instead of the correct value. Then I found a page of information for users of the Business Analyst II. It said that on that machine, the TVM program only lets you control four of the five values (N, %I, PV, PMT and FV) and the fifth has to be 0. I had been entering 0 for some simple examples, but just entering a number is unacceptable to the original Business Analyst, after pressing "clear" you must not store anything in one of the registers. For the annuities calculation either PV or FV has to be left cleared, and in the compound interest calculation (a separate mode on the Business Analyst) PMT must be left cleared, entering anything into PMT gives an error right away. Actually, I found that on the annuities I could enter 0 into either PV or FV as long as it is before I enter a value into the other. The note in the BA Solar manual explained how this limitation reduced the types of calculations that can be done.

I think I can help...

Message #8 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 2 Sept 2002, 11:01 a.m.,
in response to message #7 by Ellis Easley

Hi, Ellis;

which one is yours? I have an old, old BA55 and Joerg Woerner helped me sending some scanned pages - English - of the BA54. I also have the QRG, and it is in Portuguese. I told Joerg I would be working on an English version of a Brief Guide I'm about to finish.

There is one thing I did not figure out about TI's PAYMENT input. It seems to me if the PAYMENT is money paid it's positive, and if the PAYMENT is money received, it's negative. In all HP calculators, PAYMENT paid is negative, and PAYMENT received is positive. A matter of interpretation, I think.

I'm finding the scanned pages (it is in one of my 4 computers, and they are connected with each other, and I thought the pages were in this one, and they're not) and I'll send them to you. Also, the brief reference guide, even if written in Portuguese, will help clearing stuffs up.

Does it help? Is it your TI a BA54 or BA55? The most amazing thing about the BA55 is the fact that it has printing commands and it accepts a two-wire standard TI printer (from that time). We must accept that TI calculators were also innovative, and their prices (against their quality) were affordable. I had one TI57 that worked for a long time. Amazing little fellow! Easy to use and program. I used to dream of the TI58C/59 because of their programming memory (499 steps, if I am not wrong). After the release of the HP41, I simply lost their footsteps. But I still have TI calculators in great consideration.

Let me know which TI business calculator is yours.

Best regards

Re: I think I can help...

*Message #9 Posted by [Ellis Easley](#) on 2 Sept 2002, 1:30 p.m.,
in response to message #8 by Vieira, Luiz C. (Brazil)*

Yes, I think those will help because the BA55 and 54 should be closer to my model than the BA Solar. Mine is just called TI Business Analyst, it is the same family as the TI57. Here is the datamath.org page:

<http://www.datamath.org/Sci/MAJESTIC/Business-Analyst.htm>

On this page at TI, you can download a QRG for a BA-35 Solar and a complete manual for a BA Solar, which I think TI must have supplied with the BA-35 Solar. This page is for the English version and the only other choice is French. The BA Solar manual has the notes on page viii "Special Note to BA-II Owners" which helped me understand my machine better, especially the section called "Enhancements" at the bottom of the page:

<http://education.ti.com/us/product/tech/ba35s/guide/ba35sguideus.html>

The TI website also has manuals for the BAI Plus and the BA Real Estate. I downloaded the BAI Plus manual and it appears to be much more advanced than my calculator. Here is the TI page where you can choose a manual to download:

<http://education.ti.com/us/global/guides.html>

You could be right about the "polarity" of money - here are some notes I made from the BA Solar manual (I don't think they apply completely to my BA because for annuities, it requires one of PV or FV to be 0):

PMT=0 : Compound Interest

PMT<>0 : Annuity

PMT + (discounted backward) : mortgages, loans, leases, bonds - have PV, FV may be 0 - PV, PMT flow opposite directions

PMT - (compounded forward) : savings - have FV, PV may be 0 - FV, PMT flow opposite directions

I wonder if the two wire TI printer you mentioned is the PC200? I have one that I got in a package with the TI66 from a closeout catalog. (Datamath.org indicates the PC200 was only used with the BA55 and the TI66.) The TI66 is the LCD version of the 58/59: it has a little more memory than the 58, 512 steps (the 58 had 480 and the 59 had 960) but like the 58, the 66 has no card reader. BTW, there is the 58 and the 58C, both have 480 steps but the C has constant memory. I wonder what kind of courage it takes to type in a 480 line program knowing your batteries could go out at any time? These calculators allow you to partition memory between program and registers (8 steps per register), and as has been pointed out here, some small programs need a lot of storage space.

Re: I think I can help...

Message #10 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 2 Sept 2002, 2:14 p.m.,
in response to message #9 by Ellis Easley

Hello, Ellis;

I did not find the scanned pages (yet), but I had a look at the TI Business Analyst. It does not have some of the features available at the BA55, but I think common features will work the same.

I'm gonna send you further e-mails about this subject before being cut-off by censors... We are out-of-business talking about TI in a HP-exclusive forum. (I know, I'm kidding; people in here would not blame us for that... would they?)

Thank you, guys.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

How to turn off GRAD on HP41C

Message #1 Posted by [Pat](#) on 31 Aug 2002, 9:09 p.m.

What is and how to turn off the word GRAD on display on HP41C?

Re: How to turn off GRAD on HP41C

Message #2 Posted by [Les Bell \(Sydney\)](#) on 31 Aug 2002, 9:31 p.m.,
in response to message #1 by Pat

400 grads = 1 revolution (360 degrees). To switch out of that mode, press either:

<XEQ> <ALPHA> D E G <ALPHA>

or

<XEQ> <ALPHA> R A D <ALPHA>

Best,

--- Les Bell, CISSP [<http://www.lesbell.com.au>]

Re: How to turn off GRAD on HP41C

Message #3 Posted by [Pat](#) on 1 Sept 2002, 12:30 a.m.,
in response to message #2 by Les Bell (Sydney)

Thanks Les,

It works, GRAD disappeared. Do you know how I could have gotten there? The key strokes were nontrivial and I have never use the grad/degree/rad functions ever.

Re: How to turn off GRAD on HP41C

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 1 Sept 2002, 1:44 a.m.,
in response to message #3 by Pat

Hi;

deg/rad/grad angular modes are set by executing directly their "names", as in [XEQ] [ALPHA] DEG [ALPHA]. This key sequence will result in their respective functions - DEG, RAD or GRAD - and these functions may be part of a program. The GRAD annunciator (and respective mode) may be set by a running program.

Hope it helps.

Best regards.

Re: How to turn off GRAD on HP41C

Message #5 Posted by [thibaut.be](#) on 1 Sept 2002, 4:25 a.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)

I have to check, but I think to remember that the DEG/RAD/GRAD modes can also be activated by flags (SF for Pat).

I'll have a look at the manual and confirm.

Re: How to turn off GRAD on HP41C: Corresponding Flags

Message #6 Posted by [Juergen Rodenkirchen \(GER\)](#) on 1 Sept 2002, 12:30 p.m.,
in response to message #5 by thibaut.be

The corresponding Angular Mode Flags are 42 and 43; Set/Clear combinations of them result in any of the Angular Modes. Status at reset is clear/clear, which represents DEG (if I remember right). The remaining meanings of combinations (which I do not remember) are easily obtained by experiment (just try each of the combinations clear/clear, clear/set, set/clear, set/set for Flags 42/43) :-)

Juergen

Re: How to turn off GRAD on HP41C: Corresponding Flags

Message #7 Posted by [Tony Duell \(UK\)](#) on 1 Sept 2002, 2:08 p.m.,
in response to message #6 by Juergen Rodenkirchen (GER)

The only problem is that you can't control flags 42 and 43 using SF and CF. You can do it with synthetic programming (of course), or by using one of the 3rd party modules that contains a flag control program that will work with any flag (the PPC ROM being the best known I think).

But why?

Message #8 Posted by [Juergen Rodenkirchen \(GER\)](#) on 2 Sept 2002, 3:29 a.m.,
in response to message #7 by Tony Duell (UK)

Well, yes, Tony, you're right, my oversight! However, is there any deeper reason why those flags - which are controlling a "user-function" after all - are not accessible for the user at all? I mean, you may set them indirectly by XEQ DEG, GRAD or RAD after all, so where's the reason that HP refused to operate on them directly? OK, you need 3 combinations for the 3 Angular Modes, whereas Flags 42,43 supply 4 combinations. So, I guess, the 4th combination is actually controlling a system state that's not supposed to be changed by the user?

Re: But why?

Message #9 Posted by [thibaut.be](#) on 2 Sept 2002, 4:32 a.m.,
in response to message #8 by Juergen Rodenkirchen (GER)

Maybe the answer is that to control 3 modes, you need at least 2 bits...

Re: But why?

Message #10 Posted by [Juergen Rodenkirchen \(GER\)](#) on 2 Sept 2002, 7:41 a.m.,
in response to message #9 by thibaut.be

Do you mean, HP intended to prevent confusion of the "average" user? Might well be. What about similar situations? E.g. Modes (SCI, ENG, FIX): they are controlled by more than 1 Flag and they are "user-functions" as well; I can't remember whether their respective Flags can be controlled by the user directly (by means of SF, CF) or not. However, if your guess is right, HP should have disabled direct control of these too ...

Re: But why?

Message #11 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 2 Sept 2002, 7:54 a.m.,
in response to message #10 by Juergen Rodenkirchen (GER)

Flags between 0 and 10 are controlled only by the user, and have no meaning for the system.

Flags between 11 and 29 are controlled by the user with SF or CF and also by specific functions like [USER], [ALPHA]; and have meaning for the system such as selecting radix and digits grouping, enabling or disabling the beeper, error handling, writing private cards, , overwriting write protected cards, controlling printer modes, enabling Autorun (we could call it AUTOEXEC nowadays), etc.

Flags 30 to 55 are system flags, the user cannot set or clear them except by specific functions like FIX, SCI, ENG, DEG, RAD, GRAD, ON; and some combinations are not enabled or not documented. The user can test them with FS?, FC?; but in some cases the results will be meaningless.

Synthetic programming, and the Extended Functions STOFLAG, RCLFLAG and X<>F instructions allow for advanced flag manipulation; these are the usual ways to test "invalid" flags combinations. I did some experimenting some years ago, without any remarkable result.

Re: But why?

Message #12 Posted by [Juergen Rodenkirchen \(GER\)](#) on 2 Sept 2002, 9:19 a.m.,
in response to message #11 by Andrés C. Rodríguez (Argentina)

Thanks for the summary of Flag control and manipulation, Andres! B.t.w., I liked espec. your comparison of Flag set {11,...,29} with AUTOEXEC :-) Intersesting point of view ...

Re: But why?

Message #13 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 2 Sept 2002, 5:47 p.m.,
in response to message #12 by Juergen Rodenkirchen (GER)

If Flag 11 is set (if I recall correctly), when the calculator is turned on it will start running the program at the point it was when turned off (as if an automatic R/S have occurred). That is why I mentioned Autoexec. Keep in mind that Flag 11 is tested and reset each time the calculator is turned on.

For instance, the following program is a fun example:

01 LBL "JOKE"

02 LBL 01

03 SF 11 ; Prepare for autoexec when turned on ...

04 OFF ; Turns itself OFF, waits HERE for someone to turn the calculator ON ...

05 GTO 01 ; Repeat as fast as possible!

06 END

What about CONFIG.SYS?

Message #14 Posted by [Juergen Rodenkirchen \(GER\)](#) on 3 Sept 2002, 3:28 a.m.,
in response to message #13 by Andrés C. Rodríguez (Argentina)

I agree, FL11 used this way certainly is the most obvious that can be compared with AUTOEXEC as it AUTOMATICALLY EXECutes the program you wish on turn on. On the other hand, as all Flags out of the remaining set {12,...,29} will put your calculator in a customized state, would it make sense to compare it with a nowadays_CONFIG.SYS?

Autoexec.bat and config.sys of a 41C...

*Message #15 Posted by [thibaut.be](#) on 3 Sept 2002, 9:46 a.m.,
in response to message #14 by Juergen Rodenkirchen (GER)*

Config.sys

Device=DoCmd.Activate!WhateverYouFind

Autoexec.bat If ResetSequence=True Then Radix="." Format=Fix(4) AngleMode=Rad AutoOff=True Beef=On
End If

Run

You see, no emm386, no himem, no UMB, no conflict.... That's the way (ha-ha ha-ha) we like it !

X-mem vs. "emm386"

*Message #16 Posted by [Karl Schneider](#) on 4 Sept 2002, 12:23 a.m.,
in response to message #15 by thibaut.be*

Whether added by a module or built into the 41CX:

X-Functions = "emm386".

Unfortunately, X-memory is more like a swap space than extended memory. 2.2 kB RAM can be constraining, as users of the 28C found out...

Re: But why?

*Message #17 Posted by [Chan Tran](#) on 3 Sept 2002, 6:47 p.m.,
in response to message #10 by Juergen Rodenkirchen (GER)*

System flags, the ones related to SCL, FIX, ENG or DEG, GRAD and RAD can not be set directly but can be tested in user program so that the program could know which mode the calc is set.

Re: How to turn off GRAD on HP41C

*Message #18 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 1 Sept 2002, 3:20 p.m.,
in response to message #4 by Vieira, Luiz C. (Brazil)*

If you have a 41CX, or a 41C/CV with an Extended Functions Module, a RCLFLAG operation may have caused GRAD to appear.

How to turn off GRAD on HP41C

Message #19 Posted by [Emmanuel](#) on 1 Sept 2002, 1:57 p.m.,
in response to message #1 by Pat

You have to handle Flag 42. 3 methods in order to turn "GRAD" off. 1- XEQ ALPHA R A D ALPHA or XEQ ALPHA D E G ALPHA. 2- Using Synthetic Programming and working on "d" register. 3- Using a PPC ROM for instance: 42 XEQ ALPHA I F ALPHA. Good luck!

Re: How to turn off GRAD on HP41C

Message #20 Posted by [Emmanuel](#) on 1 Sept 2002, 2:13 p.m.,
in response to message #1 by Pat

[for M \ for N] for O

```
01 LBL "IF" 02 ABS 03 24 04 + 05 STO [ 06 8 07 ST/ [ 08 MOD 09 RCL d 10 X<> [ 11 INT 12 SCI IND X 13 ARCL X 14 X<>Y 15 X<> ] 16 X<> \ 17 X<> d
18 FC?C IND ] 19 SF IND ] 20 X<> d 21 STO [ 22 RDN 23 12 24 - 25 SCI IND X 26 ARCL X 27 X<> ] 28 STO d 29 RDN 30 CLA 31 RTN
```

Re: How to turn off GRAD on HP41C

Message #21 Posted by [Emmanuel](#) on 1 Sept 2002, 2:38 p.m.,
in response to message #1 by Pat

IF you're using an interface (HP82164A RS232c or HP82169A HPIB/HPIL for instance) and HP82183A Extended I/O module, please INP a file (IF.BIN why not?) containing the following codes line:

```
003AC600F30049466112144091751895754B907ECE75689DF39B7371CE77CE76CE7EABF7A8F7CE7E9175751112419DF39B73CE77917E758785CC070914
```

Re: How to turn off GRAD on HP41C

Message #22 Posted by [Tony Duell \(UK\)](#) on 1 Sept 2002, 8:03 p.m.,
in response to message #21 by Emmanuel

Note that all that hex data must be one one line. There must be no spaces, newlines, etc in the middle of it. INP will complain if there are. Is the format of the INP (and OUTP) data documented anywhere, or didyou figure it out the hard way like I did?

Re: How to turn off GRAD on HP41C

Message #23 Posted by [Emmanuel](#) on 2 Sept 2002, 4:37 p.m.,
in response to message #22 by Tony Duell (UK)

Please use Synthetic HP-41C QRC for SP in order to "understand" those curious hex codes: ... F3 TEXT 2 00 NULL 49 I 46 F 61 ABS 12 2 14 4 40 + 91 STO 75 M 18 8 95 ST/ 75 M 4B MOD 90 RCL 7E d ... You use similar codes with program "LB" (Load Bytes).

Re: How to turn off GRAD on HP41C

Message #24 Posted by [Tony Duell \(UK\)](#) on 2 Sept 2002, 6:35 p.m.,
in response to message #23 by Emmanuel

I am well aware of the hex coding for HP41 Focal instructions. I've worked with it often enough, and my SP QRG (the 40 page booklet) is in front of me as I type. The point is that INP and OUTP hex streams have (IIRC) the program length sent first (as 2 bytes / 4 hex characters) and a checksum on the end (1 byte, 2 hex characters). The exact format of that, and how the checksum is calculated, seems to be undocumented. Before you ask, yes _I_ think I understand how it's done...

Re: How to turn off GRAD on HP41C

Message #25 Posted by [Pat](#) on 1 Sept 2002, 8:09 p.m.,
in response to message #21 by Emmanuel

Thanks for the instructions ... they worked and the GRAD annunciator is now gone.

I have one Financial and three Memory Modules installed but they were not used. I had not run any other programs so how did I get into this state remains a mystery. Glad I am out of it. Thanks for all the help I received.

Just a supposition...

Message #26 Posted by [thibaut.be](#) on 2 Sept 2002, 3:19 a.m.,
in response to message #25 by Pat

Was the USER indicator turned on ?

Maybe one of the keys were assigned to "GRAD"... I remember I did this in my trigs classes as some exercises were expressed in degrees and other in radians...

Re: Just a supposition...

Message #27 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 2 Sept 2002, 7:41 a.m.,
in response to message #26 by thibaut.be

Good point!!

How powerful our 41's are....

Message #28 Posted by [thibaut.be](#) on 2 Sept 2002, 8:19 a.m.,
in response to message #27 by Andrés C. Rodríguez (Argentina)

When we give a glance to our favourite calculator, really, aren't we impressed on how powerful it is ?

How powerful our 41's are....

Message #29 Posted by [thibaut.be](#) on 2 Sept 2002, 8:20 a.m.,
in response to message #27 by Andrés C. Rodríguez (Argentina)

When we give a glance to our favourite calculator, really, aren't we impressed on how powerful it is ?

This machine has been developed to be USED rather than to be a technology showcase...

Re: How powerful our 41's are....

Message #30 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 2 Sept 2002, 8:57 a.m.,
in response to message #29 by thibaut.be

Hi;

may I extend this "compliment" to all of them? At least, the "original HP equipment"? I myself posted this opinion more than one time in here, and it's good to know I'm not alone in my thoughts.

And let's also consider THE users: we see a thread in here where everyone shown his knowledge in a way all others agreed and kept adding suggestions, opinions, solutions, about a single angle mode. We know the machine can do it all, we know many of us know it all, and we feel fine reading and posting more and more info (as this bunch of words in here). For fun, pleasure, needing.

It's a pity (a shame?) the recent Hewlett-Packard Co. can no longer see or understand it all.

Good words. Good thread.

Re: How powerful our 41's are....

Message #31 Posted by [Ellis Easley](#) on 2 Sept 2002, 11:11 a.m.,
in response to message #30 by Vieira, Luiz C. (Brazil)

I love the early machines and all the capabilities packed into them. I have never been a power user and although I am old enough, I wasn't involved in the "heyday" when people were trying to figure out how to use them for the first time, when HP calculators represented as much computing power as an ordinary person could afford.

I want to give some credit to later computer companies, including HP, for the amount of computer power that is now available to ordinary users at an inexpensive price. I worked for a personal computer manufacturer and I know that all the emphasis was on making the machines easier for unskilled people to use so more people would buy them, and over time this has led to a great reduction in the entry price and a tremendous increase in the calculating power. (That so much of that power is being used to deliver pornographic images is beside the point!)

With the graphical user interface, preferences and online help, you don't so much figure out how to use the computer as tell it how to work. (I know this isn't true, but it's the company line, and like communism, it appears to be a beautiful dream that will never become reality.)

Well, I've always preferred trying to figure out how things work to actually using them. To me, "Plug and Play" is a cruel joke - what fun is

there in that? I have an amateur radio book from the 1930's or 40's (not the ARRL handbook, but a book for more general use). One chapter is about a facsimile system that was being tested at the time. Broadcast stations would transmit newspapers overnight, you wouldn't even have to step outside to get your paper in the morning. It was a graphical system that printed on electrosensitive paper. You would buy the printing unit and connect it to the output of your radio. A critical step in the project was wiring a switch to disconnect your radio's speaker, otherwise you would hear a terrible din all night! That's the kind of high technology I can get excited about!

Re: How to turn off GRAD on HP41C

*Message #32 Posted by [Emmanuel](#) on 2 Sept 2002, 12:54 p.m.,
in response to message #25 by Pat*

You're welcome. <p> It was a pleasure. <p> Good luck!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: HP41C

Message #1 Posted by [Roger Hubbert](#) on 31 Aug 2002, 5:17 p.m.

I would like to thank all for their help and advice. I found that in addition to the posts the screw bosses were also damaged. They had broken away completely from the body of the calculator. This is how I made the repair.

Methylene chloride is not easily available due to its dubious effect on health. I used Methyl Ethyl Ketone (MEK) which is a good solvent for ABS. To reinforce the weld I used small pieces of 50 micron ABS film carefully building up a strong weld over the bosses by melting the sheet into the body with MEK. A couple of layers have provided an extremely strong repair.

To repair the posts I preformed a cylinder of ABS from the same film around a small diameter wire. This I inserted into the centre of the post welding it in place with MEK. I did the same on the outside of the post. The thin film melts under the influence of the MEK filling up any cracks in the post again forming an extremely strong repair.

I left the repair for 48 hours before reassembling the calculator which is again working perfectly.

Best regards to all HP repairers.

Roger Hubbert

Re: HP41C

Message #2 Posted by [David Smith](#) on 1 Sept 2002, 11:05 p.m.,
in response to message #1 by Roger Hubbert

Methylene chloride is available at almost any hobby shop in small bottles of plastic welding solvent (various brand names). Hobbytown carries it for sure.

Re: HP41C

*Message #3 Posted by [Roger Hubbert](#) on 2 Sept 2002, 7:47 a.m.,
in response to message #2 by David Smith*

I live in the UK where possibly restrictions are tighter. Anyway MEK had done a good job!
Roger

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP9810 Printer Alpha ROM

Message #1 Posted by [Tony Duell \(UK\)](#) on 31 Aug 2002, 2:20 p.m.

Quick Question : Does the Printer Alpha ROM module for the 9810 have to go in slot 3? I've just obtained said ROM, and if it's put in slot 2, it prints blanks rather than characters (i.e. a program listing has a gap in the line of dashes where the function name should go). If it's put in slot 3, it's fine. And I get the same results using 2 different 9810s. So, do I have an obscure fault in both machines?

Re: HP9810 Printer Alpha ROM

Message #2 Posted by [Katie](#) on 31 Aug 2002, 5:18 p.m.,

in response to message #1 by Tony Duell (UK)

Yes, it has to be in slot 3. There's a big warning box in the manual saying this.

Re: HP9810 Printer Alpha ROM

Message #3 Posted by [Tony Duell \(UK\)](#) on 31 Aug 2002, 6:05 p.m.,

in response to message #2 by Katie

Thanks for the information. OK, I don't have a hardware fault to trace. Incidentally, it's unlikely that plugging a ROM module into the wrong slot will do any hardware damage. The slots are all equivalent electrically, they just have different chip select lines connected to them, so the cartridge in the slot appears at a different address depending on which slot it's in. A bit more detail for those who are interested. The HP9810 cartridges contain 2 or 4 HP ROM chips. Each ROM is 512 bytes. They are wired up so the cartridge is either 512 16-bit words or 1024 words. There's a separate chip select pin for each pair of ROMs, there is no address decoding in the cartridge (unlike, say, the 9825). The 09810-66523 (Red/Orange handles in the memory cage) handles memory addressing. One of the functions of this board is to provide chip select lines for 16 memory devices. Namely : 4 sets of ROMs on the system firmware board (09810-66521, red/brown handles in the memory cage), 6 sets of cartridge ROMs (2 sets on each of 3 slots) and 6 banks of DRAM (either 8 bits wide for data storage or 3 bits wide for program storage). A different 2 outputs of the decoder are connected to each slot. This would explain why some (all?) cartridges only work in

particular slots -- they need to be at the right address.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HPIL junk wanted (with e-mail address)

Message #1 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 31 Aug 2002, 9:06 a.m.

Hello, folks;

forgive-me posting the messae again; that's just because I forgot the e-mail address for answers.

I suddenly can use an HPIL in the HP41. Amazing! After more than 18 years waiting for it, I finally got one. Thanks (many thanks) to one of the contributors in here.

I became ambitious (in the very best sense) because I remember reading a lot about the HPIL and delving into my own brainstorm (WOW!).

At that time, the HPIL Kit was a must to developers. I know it no longer exists, and even the ones sold were used, of course.

I just want, from any sort of HPIL junk, both:

IN/OUT connectors

Pulse Transformer

I believe many things can be done with these...

PLease, if you have something, e-mail me.

Re: HPIL junk wanted (with e-mail address)

Message #2 Posted by [Tony Duell \(UK\)](#) on 31 Aug 2002, 2:24 p.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

A kludged way of getting the connectors it to cut an HPIL cable in half and solder the cut ends to your circuitry. Not as neat as the proper panel-mount connector, but it'll work. As regards the transformer, electrically-identical transformers were used in *_every_* HPIL device I've worked on, even things like the HP71 IL module. So you can raid a broken HP71 IL module (or whatever) for the transformer. One day I must dissect the dead transformer in my junk box (shorted turns) and count the turns, etc, so I can attempt to make a replacement. Do you have the 1LB3 HPIL interface chip, or are you planning on managing without it? HPIL is not trivial at the hardware level, so I'd try to get a few of those chips as well.

Re: HPIL junk wanted (with e-mail address)

Message #3 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 2 Sept 2002, 1:13 a.m.,
in response to message #2 by Tony Duell (UK)

Hello, Tony; thank you for your answer.

Tony wrote: << *A kludged way of getting the connectors it to cut an HPIL cable in half and solder the cut ends to your circuitry. Not as neat as the proper panel-mount connector, but it'll work.*>>

Yes, I'm lucky having a spare cable, but I'll try keeping it intact (cutting it will still allow me to connect more than one only IL device in the loop, I know; I just want to keep it intact). If I can find an unused I/O connector, better.

<< *As regards the transformer, electrically-identical transformers were used in *_every_* HPIL device I've worked on, even things like the HP71 IL module. So you can raid a broken HP71 IL module (or whatever) for the transformer. One day I must dissect the dead transformer in my junk box (shorted turns) and count the turns, etc, so I can attempt to make a replacement.*>>

I know about a guy that built an HPIL transformer. I'm no longer in contact with him (I saw him by the last time in Petrópolis, Rio de Janeiro, in 1989), but I remember he told me he used three toroidal ferrite cores and computed the number of turns based on the IL signal's frequency and waveform. I was not smart enough to ask him for the "recipe", so I'll try to do my best. Anyway, **if you count them down...**

Hewlett-Packard Journal, January 1983 issue, is a very good source of information. It has a brief, concise description of the electrical parameters and a simplified schematics of the IN/

OUT IL stage. There are indeed three transformers, and their primary-secondary relation (2:1 / 5:43 input, 3:1 output) is mentioned. If I have at least one number of turns for each...

<< Do you have the 1LB3 HPIL interface chip, or are you planning on managing without it? HPIL is not trivial at the hardware level, so I'd try to get a few of those chips as well.>>

Yes, I know. In the same HP Journal issue we can see the internals of the HPIL IC, the ILB3. Somewhat complex fellow, han? Well, I believe for the time it appeared there was no other "easy" way to achieve an HPIL communication. But I'd like to know if there are no other controllers nowadays that would allow the IL protocol implementation easier. I thought about ATMel controllers (if I am not wrong, Pavel Korensky is/was working with them), or some Microchip PIC's, I don't know. My starting "project" would be simply a dummy buffer, that would capture any group of bytes from a starting code (byte) to an ending code (byte). Just a single binary, ASCII-coded character sequence that would not harm any other device in the loop. I believe it's easy to arrange, mostly because I have an Extended IO module.

This buffer would allow a dot-matrix, graphic LCD to show images and text sent from an HP41. Basically a record-only RAM and a microcontroller dedicated to IL comms, being continuously scanned by the LCD's controller.

BTW: I was told you, Tony, have some programs that allow LIF disks to be read (manipulated too?) by Lynux-based machines. Do you have them? Are they available to download? If not, can I have a copy of them? What to do?

Well, I wrote too much. Is there anything else somebody would like to add? Please?

Thank you.

Re: HPIL junk wanted (with e-mail address)

Message #4 Posted by [Ellis Easley](#) on 2 Sept 2002, 11:19 a.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)

Tony said in another thread that HP2225A HPIB printers have an HPIL chip inside. I remember noticing a couple of years ago, when I was looking for a serial Thinkjet on Ebay, that the the HPIB ones sold very cheaply.

Re: HPIL junk wanted (with e-mail address)

Message #5 Posted by [Tony Duell \(UK\)](#) on 2 Sept 2002, 6:46 p.m.,
in response to message #3 by Vieira, Luiz C. (Brazil)

You should try to obtain copies of the documentation that came with the 82166C kit. I think most of it is on the MoHPC CD-ROMs. There's a very detailed spec of HPIL (complete with all the state transition diagrams), a data sheet for the 1LB3 chip (which includes the application circuit), another 'user guide' for the components in the kit (which essentially gives the schematics of the 82166A module) and a guide to writing the device's firmware. Alas the spec of the transformers isn't in any of those documents (well, the fact that there are 3 transformers, that some windings are centre-tapped, and how to connect them up is there). So thanks for the turns ratios -- it'll be a start. My suggestion of cutting an HPIL cable in half was simply made because (at least over here) HPIL cables are much more common than spare I/O panel connectors. Don't wreck your only HPIL cable, though. CONCERNING LIF disks on linux. Yes, I have written programs to do this. They are very much incomplete (I add more when I get the chance!), and there are almost certainly bugs in them (again, I fix those when I find them -- I do use these programs myself). I have no idea if they will work on any version of linux (they certainly depend on a PC's disk controller, so they are not going to work on non-PC linux systems), but you can try them. The programs are available as GPLed C sources (and a Makefile) from the HPCC web site (<http://www.hpcc.org/>) -- I think following the links for HP71 or HP75 will find them (!). If you have trouble, I'll send the latest version to you.

Re: HPIL junk wanted (with e-mail address)

Message #6 Posted by [Nigel Clayburn \(UK\)](#) on 6 Sept 2002, 4:55 a.m.,
in response to message #1 by Vieira, Luiz C. (Brazil)

Re Tony's comment on the subject of HP-IL transformers being the same in terms of electrical function are there not different versions for the different IL Chips.

The 1LB3 seems to use the 3 toroid design on a sort of DIL header as in 82163,5,6 18169 (most common) but in the HP3421 and 3468 the HP-IL chip is the 1LR4 and the transformer is in a reddish potted block. The schematic shows it to contain single transformers for Tx & Rx. They all seem to be made in Mexico and although they are proprietary HP parts the 3468 quotes Pulse Eng Inc as the manufacturer. In my 82169C the chip is the 1LB4 and the transformer is again in potted form and made in Hong Kong. Are there any other variants?

Among other items the 82166C Kit contains a module for the HP41 to assist in HP-IL development and provides a 'scope' function whereby messages going round the loop are delayed and displayed on the 41 for a time and then passed on.

How critical are the transformers? I did a quick experiment and made a 1:1 (10t:10t) txfmr using a 2 hole ferrite core from the junk box and inserted it in the loop between a 71 and 9114. Loop integrity was maintained and files could be read and written to the disc (2m cables)

Re: HPIL junk wanted - good info!

*Message #7 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 6 Sept 2002, 4:00 p.m.,
in response to message #6 by Nigel Clayburn (UK)*

Hello, Nigel;

thanks for the information. Would you be as kind as for posting the txfmr core dimensions and wire specs? Did you use each hole for each coil? Did you try one single-hole txfmr? Sorry for bothering you with as many questions. With the specs for the ferrite core and wires I'll try the single hole transformer with two coils.

The ten turns for each side is a very good starting reference. Was it a guess or you considered frequency, waveform and electrical parameters?

Let me (us) know if anyone else is doing something on this area. HPIL protocol is somewhat complex, and for the control level it allows to, it is not expensive. It's (now-a-days) just slow.

Thank you all again.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

old hp 20s faster then the newer ones?

Message #1 Posted by [Mark](#) on 31 Aug 2002, 7:54 a.m.

I have a older model hp 20s (the brown ones) Sn#id94500666 and a newer black model with the purple and green numbers Sn#id03102813. If I run a simple program lbl a + 1 gto A the older model is a lot faster. doing about 2 more operations a second.

Re: old hp 20s faster then the newer ones?

Message #2 Posted by [Julián Miranda \(Spain\)](#) on 31 Aug 2002, 8:21 a.m.,
in response to message #1 by Mark

Perhaps you could post the results of your test. With the same program you posted my 20S (3121S...)does 4176 in a minute. And a 21S (2936A...) does 4235.

Re: old hp 20s faster then the newer ones?

Message #3 Posted by [mark](#) on 31 Aug 2002, 10:44 a.m.,
in response to message #2 by Julián Miranda (Spain)

The older model hp 20s (the brown one)Sn#id94500666 got4748 The newer black model Sn#id03102813 got 4670

and i got an even older brown one sn#3420s81550 it got 4796

Re: old hp 20s faster then the newer ones?

Message #4 Posted by [Raymond Hellstern \(Germany\)](#) on 31 Aug 2002, 10:41 a.m.,
in response to message #1 by Mark

ACO redesigned some of the calculators in the last few years. Maybe the 20S has undergone the same process?

On the other hand, someone should try another of the 'new' 20S units, to prove that yours isn't a 'monday' machine;-)

Raymond

Re: old hp 20s faster then the newer ones?

Message #5 Posted by [Randy Sloyer \(US\)](#) on 31 Aug 2002, 1:04 p.m.,
in response to message #1 by Mark

Your actual program as displayed on my machines:

```
00 -  
01 - 61 41 A  
02 - 75  
03 - 1  
04 - 51 41 A
```

My results by serial number for 1 minute:

```
20S 2931A USA 3690 counts  
20S 3404S SING 4778  
20S ID202 INDO 4574
```

All batteries where new, 4.66 to 4.70 volts per set. I tried the highest voltage pile in the old US unit - no change in speed.

Re: old hp 20s faster then the newer ones?

Message #6 Posted by [Ellis Easley](#) on 1 Sept 2002, 7:56 a.m.,
in response to message #5 by Randy Sloyer (US)

I calculated the ratio of your three results to their average and got 84.9%, 109.9% and 105.2%. My 20S, Indonesia ID836 gave 4749, which is 109.2% of that average.

Here's a guess: I'll bet the frequency is set by an external capacitor and a resistor inside the IC, or possibly an external capacitor and inductor. A resistor inside an IC would probably have enough variation to account for the range of speeds; I think the Voyagers had an external capacitor and inductor, and I know the Classics and Woodstocks did. But however they did it, and assuming they had a design that gave a fairly consistant speed, the easiest way for a sizable reduction in speed to happen by accident would be for someone at the factory to substitute a lower quality capacitor for the one that sets the frequency. You can get capacitors in a tolerance called "Guaranteed Minimum Value", which is sometimes stated "+100 -0%". These are intended as bypass capacitors for low frequencies. Compliance engineers warn against using them in signal filtering applications because they can be self-resonant at the frequencies you are trying to suppress.

Re: old hp 20s faster then the newer ones?

Message #7 Posted by [Randy Sloyer\(US\)](#) on 1 Sept 2002, 9:17 a.m.,
in response to message #6 by Ellis Easley

Hi Ellis!

The 20S is a one chip design, with one 10uf tantalum cap across the battery. No other external parts of any kind. Zero, notta, zip. Amazing. So the oscillator must be a RC type with everything on the silicon?

I thought perhaps battery voltage might affect the speed, but tests showed no change.

Just process variations in the chip?

Re: old hp 20s faster then the newer ones?

*Message #8 Posted by [Ellis Easley](#) on 1 Sept 2002, 10:14 a.m.,
in response to message #7 by Randy Sloyer(US)*

Well, I've always heard that the resistors on chips can vary a lot, like 50%. I don't know about capacitors on chips in this regard, except that the the capacitance value has to be kept small to reduce real estate. Maybe there is a way to design them so the process variation affects R and C oppositely, so their variation cancels in applications like an oscillator.

Speaking of real estate, here's a possibility: maybe the chip went through a die shrink and the capacitor came out different.

Or maybe, even though there is an internal RC for the oscillator, there might be a pin or pins to add external components to change the frequency. Maybe a PCB change resulted in more capacitance on that pin, which might just be connected to a test pad.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-22s

Message #1 Posted by [benny](#) on 30 Aug 2002, 11:34 p.m.

I'm having a problem with my HP-22s. When I start entering several "8"'s they start dimming after the 6th one. Some EE's at my office say it's a power problem, but I just replaced the batteries. Any ideas? It seems to calculate fine.

Also, I'm thinking about listing it on ebay. Any ideas for a starting bid? (Don't know if I'm allowed to ask that...)

Re: HP-22s

Message #2 Posted by [Randy Sloyer\(US\)](#) on 31 Aug 2002, 1:33 p.m.,
in response to message #1 by benny

Try this:

Key in 12 8's.

Turn the contrast all the way up by holding down the C key and + key at the same time.

When it stops increasing in darkness, hold the calculator so you can change the viewing angle of the display.

Angle the display so everything appears darkest, especially the annunciators.

Is the right side of the display the same contrast as the left?

If the left/right sides are different, it may be one of two different problems:

Missing pieces of digits or annunciator: loose connections between the circuit board and the LCD (easy repair)

or

The right side seems to fade away to nothing: a bad LCD (still repairable, but hard to find a spare LCD).

IMHO, an eBay price in good condition would be would \$40-50 and up. All depends. Have the manual? Add \$15-20. Start the bidding at \$10, no reserve, with a 7 day auction and the market will determine what it's worth. Even with a broken LCD, it's worth something since the logic board works. Don't toss it!

Please let us know what you find with the test.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-42X: HP-42S MicroCode Emulator for HP-48GX (Preliminary Info)

Message #1 Posted by [Erik Ehrling](#) on 30 Aug 2002, 5:10 p.m.

I have with much delight followed the HP-42X thread - this is indeed a breakthrough! Not only does it give us the possibility to emulate the HP42S on a HP48GX, it also gives us the first true HP42S emulator in the PC!

When can we expect it to arrive? Sometime this autumn? Will there be a Beta-release with further upgrades for all of us that cannot wait for the 1.0-version?

Personally I would prefer to see just a plain emulator with as few extras as possible. (OK being able to load/save HP42S programs/data to the HP48-stack would be a nice add-on... but definitely not necessary in the first version)

Also, would it be possible to cram it all onto a 128K ROM card? I.e. storing the HP-42 ROM (64K) + Emulator ROM (64K) on the ROM Card and use the Port 0 for 32K Emulator RAM + 8K HP-42 RAM!?

Surely such a ROM card would also be much easier to sell than a program that requires a HP48GX with two RAM cards... and if the ROM card was sold with a HP42S overlay it would be even better. (Maybe a HP42S emulator on a 128K ROM card + overlay for the HP48GX is the calculator-nirvana all of us HP42S fans have been waiting for???)

Am I just dreaming or would all this be possible?

Best regards, Erik Ehrling

Re: HP-42X: HP-42S MicroCode Emulator for HP-48GX (Preliminary Info)

Message #2 Posted by [HrastProgrammer](#) on 31 Aug 2002, 12:32 a.m.,
in response to message #1 by Erik Ehrling

> When can we expect it to arrive? Sometime this autumn?

I hope so :-)

> Will there be a Beta-release with further upgrades for all of us that cannot wait for the 1.0-version?

No, it will be the final version.

> Personally I would prefer to see just a plain emulator with as few extras as possible. (OK being able to load/save HP42S programs/data to the HP48-stack would be a nice add-on... but definitely not necessary in the first version)

I think that some kind of data/program saving/loading possibility would be implemented.

> Also, would it be possible to cram it all onto a 128K ROM card? I.e. storing the HP-42 ROM (64K) + Emulator ROM (64K) on the ROM Card and use the Port 0 for 32K Emulator RAM + 8K HP-42 RAM!?

I am working on this. BTW HP-42X RAM is 96K, not 8K! And there will be further 31K of independent port memory for data/programs!

Best regards.

Re: HP-42X: HP-42S MicroCode Emulator for HP-48GX (Preliminary Info)

Message #3 Posted by [Erik Ehrling](#) on 1 Sept 2002, 1:55 p.m.,
in response to message #2 by HrastProgrammer

>> When can we expect it to arrive? Sometime this autumn? > > I hope so :-)

Keep up the good work... we are all very impressed by what we have seen so far...

Best regards, Erik Ehrling

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: Are 17B/19B calculators being discontinued?

Message #1 Posted by [Skip](#) on 30 Aug 2002, 4:51 p.m.

That's what I'm finding too. It's been removed from HP's consumers sales website. I called HP sales and they were useless. However, the tech support group was quite candid in saying they have heard rumors but no official word and that they usually don't get the word from 'the powers that be' until a new product is a couple days from launch. I'd welcome an 19BIII, but the industry is probably pushing people (especially with CPQ and HWP merger) to focus on handhelds/palmtops with software add-ins. However, I'd rather not have to pay \$450 for a decent hand-held and then \$80 for financial software. I bought a TI BAI Plus as a replacement for my lost HP 19BII, but it's not as friendly to work with although it has newer functionality. I also don't get how I bought my 19BII in 1989 for \$120 and when they were selling new now, they are \$160-180. Doesn't compute ;-)

Re: Are 17B/19B calculators being discontinued?

Message #2 Posted by [Karl Schneider](#) on 31 Aug 2002, 12:20 a.m.,
in response to message #1 by Skip

I was at Fry's in Wilsonville, OR several evenings ago. There were three HP-17Bii's left, marked down \$10 to \$69.99 for "Clearance". There were about six HP-19Bii's available (I didn't check the price). None of them look as nicely-made as my built-in-America HP-28C (1987) and built-in-Singapore HP-17Bii (1992).

For the curious: No more 32Sii's (I bought mine there several months ago), nine HP-49G, ten HP-48GX, ten HP-20, a few HP-10B, plenty of HP-39G.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-82106A Mem Modules?

Message #1 Posted by [karl gruber](#) on 30 Aug 2002, 3:50 p.m.

I have three HP-82106A memory modules, which the documentation says are for the HP-41C.

Do these work in the HP-41CX, which I own and have plugged them in? But I don't really know how to test them .

Can anyone help?

Thanks,

Karl

Re: HP-82106A Mem Modules?

Message #2 Posted by [David Smith](#) on 30 Aug 2002, 4:48 p.m.,
in response to message #1 by karl gruber

They only work in the HP41C. They are already built into the CV and CX.

Re: HP-82106A Mem Modules?

Message #3 Posted by [karl gruber](#) on 30 Aug 2002, 5:37 p.m.,
in response to message #2 by David Smith

Thanks,

I have them for sale here at \$90. I'm going to lower the price to \$60 for the three.

Thanks again, Karl

Re: HP-82106A Mem Modules?

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 31 Aug 2002, 9:05 a.m.,
in response to message #1 by karl gruber

Hi;

I myself have four of them. If I do not restore my old HP41C (running with a CV board inside), I'm keeping them for both reasons:

collector's piece AND
possible holding for HP41 implementation (the best holders)

Just keep that in mind...

Cheers.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP11C ,not working

Message #1 Posted by [Jean Minazio](#) on 30 Aug 2002, 9:25 a.m.

My HP11C is not working when changing batteries. It hangs up with some segment on the display ON. Is there any change of a chip or resonator failure ? Please advice on how to fix it. Best Regards
Jean Baptiste

Re: HP11C ,not working

Message #2 Posted by [Ellis Easley](#) on 30 Aug 2002, 9:54 a.m.,
in response to message #1 by Jean Minazio

Do you have the user's guide? There is probably a chapter or appendix about "troubleshooting". There may be some key combinations that can reset the calculator. If the keyboard resets don't work, some of the HP calculator manuals recommend shorting the battery terminals with a metal object in case the calculator won't work after installing fresh batteries. In some cases, the batteries are to be left in place, in other cases the batteries are to be removed. It sounds wrong to short the terminals of the batteries, but some of the HP manuals recommend it for some of the calculators that run on button cells. The reason for shorting the battery terminals is to make sure the calculator chips receive a low enough supply voltage so that the memories will "forget" all the meaningful data in them. Sometimes data remaining in memory, but corrupted, will cause the calculator to think it is in a certain state. When the data in the memory returns to a default "power up" state, the calculator knows to re-initialize everything, then it will give the message "memory lost" or "pr error".

Re: HP11C ,not working

Message #3 Posted by [thibaut.be](#) on 30 Aug 2002, 2:20 p.m.,
in response to message #2 by Ellis Easley

try sort circuiting the contacts. Try ON/- (reset sequence). Try inverting polarity for a very short while. And before anything, check the batteries, even if they're new : one bad battery could be the cause of all your problems.

Re: HP11C ,not working

Message #4 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 30 Aug 2002, 3:04 p.m.,
in response to message #3 by thibaut.be

Hello;

I have one 11C, two (new)12C, one 15C and one 16C. The message Ellis mentions is "Pr Error" (they're all 7-segment display), and it should appear when [ON]/[-] are pressed, as Thibaut mentions. What I strongly recommend is that you shorten (very briefly) the batteries contacts (use a thin wire) WITH THE BATTERIES IN. Depending on the model you have, the batteries will not fit in if placed inverted.

If the calculator does not turn ON, the alternate reset is [ON]/[D], being [D] the key with y raised to x printed in. Press simultaneously (not one after the other, both at the same time) [ON] and [D]. The display changes its contents IF the calculator turns on.

I repaired both HP12C (old-fashion) and another HP11C by simply resoldering all IC's terminals (one IC in the HP12C, two IC's in the 11C).

If you need more info, let us know.

Success!

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP 27S Books

Message #1 Posted by [Ana Smith](#) on 29 Aug 2002, 7:44 p.m.

I would like to get copies of reference books with formulae for the HP 27S. Is there a place to do so?

Re: HP 27S Books

Message #2 Posted by [Ellis Easley](#) on 30 Aug 2002, 3:10 a.m.,
in response to message #1 by Ana Smith

The curator of the Museum, Dave Hicks, offers a set of CD-ROMs with scanned copies of many HP manuals including these:

HP-27S Owner's Manual

HP-27S/19B Technical Applications

You can learn about the CD-ROMs on this page:

<http://www.hpmuseum.org/cd/cddesc.htm>

Re: HP 27S Books

Message #3 Posted by [Ana Smith](#) on 30 Aug 2002, 2:46 p.m.,
in response to message #2 by Ellis Easley

Thank you for the info I have already got the CD ROM's of the HP museum. However I am searching for the actual books.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-41 SKWIDBC barcode rom

Message #1 Posted by [Christoph Klug](#) on 29 Aug 2002, 8:12 a.m.

Does this module really exist ? It was programmed by Ken Emery and announced by Synthetix for a price of nearly \$200. Two variations exist, for HP Think Jet and HP Laser Jet printers. The module was programmed in mcode and creates HP-41 barcode plots in short time. Does everyone have mor details about this, or own it ? Would be a rom-file avallable ?

Best wishes from Germany - Christoph Klug (the author of I/O-Board and IL2000 system for hardware intefacing & measurement applications with HP-41)

Re: HP-41 SKWIDBC barcode rom

Message #2 Posted by [Raymond Hellstern \(Germany\)](#) on 29 Aug 2002, 9:51 a.m.,
in response to message #1 by Christoph Klug

Hallo Mr IL,

ich habe kuerzlich ein ROM-Image davon erhalten.

AFAIK gibt es das Barcode-ROM zumindestens auf EPROM.

Viele Gruesse aus Hannover,

Raymond Hellstern

Re: HP-41 SKWIDBC barcode rom/HP-IL VASM listing

*Message #3 Posted by [Mike \(Stgt\)](#) on 30 Aug 2002, 6:09 a.m.,
in response to message #2 by Raymond Hellstern (Germany)*

Back from vacation near Perpignan (F) w/o access to internet (intentionally) I find here a "rare bird" I'm chasing for a long time. Could you be so kind ... you know what I mean ;-)

BTW, is there somewhere a scan of the HP-IL VASM listing?

Ciao.....Mike

Re: HP-41 SKWIDBC barcode rom/HP-IL VASM listing

*Message #4 Posted by [Chris Catotti \(Florida\)](#) on 4 Sept 2002, 3:19 p.m.,
in response to message #3 by Mike (Stgt)*

I saw one HP-41 SKWIDBC barcode on ebay, complete with box, etc. sometime within the last two years. I dis=d not chse it aggressively enough. It does exist.

Re: HP-41 SKWIDBC barcode rom/HP-IL VASM listing

*Message #5 Posted by [Mike \(Stgt\)](#) on 5 Sept 2002, 5:04 a.m.,
in response to message #4 by Chris Catotti (Florida)*

Thank you for the hint, alas it hurts a bit to know the facts.

Ciao.....Mike

Re: HP-41 SKWIDBC barcode rom/HP-IL VASM listing

*Message #6 Posted by [Chris Catotti \(Florida\)](#) on 10 Sept 2002, 8:56 a.m.,
in response to message #5 by Mike (Stgt)*

A friend contacted me to say he has a SKIDBC rom (no, I do not believe he would sell it). If you want me to forward your contact information to him for questions, drop me an email.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP-71: MakeLEX

Message #1 Posted by [Juergen Rodenkirchen \(GER\)](#) on 29 Aug 2002, 3:32 a.m.

I'd like to send ahead that this note is mainly for those of you who had the pleasure to read Joseph Horns book "HP-71 Basic Made Easy". I'm currently trying to understand the beautiful program MAKELEX in that book on page 133 and encountered a problem in line 60

```
60 A=HTD(ADDR$('DUMMY')) @ A1=A @ P$=RPT$("-",16)
```

where in the last entry the command (?) RPT\$("-",16) is not recognized by the machine (and not by me either). So, I guess this is a "typo" (or did I miss something?). Does anyone know what the correct entry should be? I'd really like to see this fascinating little program run ... :-)

Juergen

Re: HP-71: MakeLEX

Message #2 Posted by [Raymond Hellstern \(Germany\)](#) on 29 Aug 2002, 9:57 a.m.,
in response to message #1 by Juergen Rodenkirchen (GER)

```
$'=RPT$($pattern,n)
```

where \$pattern is repeated n times, which gives \$'. Example: R\$=RPT\$("ABC",4) Afterwards R\$="ABCABCABCABC"

It seems you need the small HP-71 LEX file called STRINGLX, which adds some nice string manipulation functions.

If the above example is the only occurrence of RPT\$, you can substitute it with a string of 16 '-'.

Regards,

Raymond

Thanks, Raymond!

*Message #3 Posted by [Juergen Rodenkirchen \(GER\)](#) on 29 Aug 2002, 10:21 a.m.,
in response to message #2 by Raymond Hellstern (Germany)*

Many thanks for the explanation, Raymond! I'll try it out tonight and hopefully will see the gem finally run :-) B.t.w., do you know any source where I could find the LEX-file STRINGLX you mentioned?

Regards, Juergen

You have mail;-)

*Message #4 Posted by [Raymond Hellstern \(Germany\)](#) on 29 Aug 2002, 9:45 p.m.,
in response to message #3 by Juergen Rodenkirchen (GER)*

Regards,

Raymond

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

DeskJet 820 Cse for windows

Message #1 Posted by [Claire](#) on 29 Aug 2002, 2:26 a.m.

While using my Desk Jet 820 Cse HP printer for windows the 2 cartridges have suddenly SLAMED UP against the left side of the printer (as one faces the printer) and the printer will no longer print. There is no paper jam, the cartridges were installed 3 days ago and everything had been fine until now. Just before this happened there was a paper jam with an envelope but this seemingly pulled out with no trouble. I can find no troubleshooting for this kind of problem in my Users Guide. Does any one have a solution? I know this is an old printer but it has been an excellent one up until now. I have a new computer and will buy a new printer for it but there is so much on this computer that I need to print and reprint that I would like to continue the use of this DeskJet Cse 820. Help! and Thank you!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Training Applet for RPN

Message #1 Posted by [Steve Seto](#) on 29 Aug 2002, 1:05 a.m.

Maybe this has come up before, but I'm trying to teach my kids the fundamentals of stack architecture and RPN. Does anyone know of a good (working)shareware program or applet that has a graphic interface that shows what happens as you work? I've found only one (can't remember the website.. "coco-something"...) but I wasn't very impressed with it.

Re: Training Applet for RPN

Message #2 Posted by [Ellis Easley](#) on 29 Aug 2002, 6:03 p.m.,
in response to message #1 by Steve Seto

Get a 9100!

Re: Training Applet for RPN

Message #3 Posted by [Mike \(Stgt\)](#) on 30 Aug 2002, 6:31 a.m.,
in response to message #1 by Steve Seto

There is a real sophisticated working graphic demo of UPN that runs nice on my HP200LX. See <http://www.palmtop.net/cgi-bin/search.pl?Query=rpndemo>

Ciao.....Mike

Re: Training Applet for RPN

Message #4 Posted by [Ellis Easley](#) on 30 Aug 2002, 8:12 a.m.,
in response to message #3 by Mike (Stgt)

I downloaded the RPN demo. It runs fine in a DOS box under Win95. It looks great!

RPN Demo for DOS

*Message #5 Posted by [Mike](#) on 2 Sept 2002, 7:19 a.m.,
in response to message #4 by Ellis Easley*

I should have changed the subject as eye catcher for others.

M.

Re: RPN Demo for DOS

*Message #6 Posted by [Ellis Easley](#) on 2 Sept 2002, 11:28 a.m.,
in response to message #5 by Mike*

One thing I have noticed about this program which is a little distracting for an HP user: after entering a number, or I should say after typing the digits and not wanting to hit enter, it is necessary to press "escape" to exit number entry mode before executing a function. Also, the program periodically beeps on the original PC speaker, which makes me jump every time it happens, because I am unaccustomed to hearing it!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Color of HP 2225 Printers ??

Message #1 Posted by [Steve Seto](#) on 29 Aug 2002, 12:59 a.m.

Can anyone tell me if printers like the HP2225 were ever offered in any color other than "computer beige?" I've been searching for one in black or dark gray, but the only color I ever seem to see is the light beige...???

Re: Color of HP 2225 Printers ??

Message #2 Posted by [Ellis Easley](#) on 29 Aug 2002, 6:14 p.m.,
in response to message #1 by Steve Seto

I've got the HPIB version that was rebuilt by a third party to meet Tempest (I think) RFI specs. The working parts are mounted in a heavy metal case which is dark gray or black. Maybe you saw one of these before. Access to the carriage is through a hinged door with heavy RFI gaskets and spring loaded catches. At several places where there is a seam in the enclosure, there is a strip of tape with a pentagon symbol printed on it crossing the seam; this appears to be like a calibration sticker, intended to break if the seam is opened.

Re: Color of HP 2225 Printers ??

Message #3 Posted by [Michael Meyer](#) on 29 Aug 2002, 8:54 p.m.,
in response to message #2 by Ellis Easley

Way back when, I was a student training at the Veterans Administration Hospital (V.A.) in Kansas City, Missouri. In about 1985, all of the ventilators were replaced with new models that had Thinkjet printers (IB models, probably to record all the parameters. These were the usual (light beige) color, though built in as part of the system.

The ink cartridges were notorious for quitting working before they were empty. It made for a nice, endless source of ink for my HP-71B/Thinkjet combo, as a moist kleenex was all that was needed to make them work fine again....

Michael

Re: Color of HP 2225 Printers ??

Message #4 Posted by [Ellis Easley](#) on 30 Aug 2002, 8:05 a.m.,
in response to message #1 by Steve Seto

Another idea occurred to me: are you possibly thinking of the HP320 or 340 inkjet (but not Thinkjet) printers? I have a 340, it is black. As I understand it, HP made some inkjets in two versions: Centronics interface or Mac serial interface, which were called DeskJets or DeskWriters (does any of this sound right?) I got the 340 because it works as a "Win printer*" through a Centronics port as it comes but for a few dollars there is a convertor (might just be a cable) that plugs into the Centronics connector and has a cable that plugs into a Mac serial port, where it works as a "Mac printer*" (I guess)(*not a PostScript printer - not even an Ascii printer - depends on a driver running on the host to print anything).

Re: Color of HP 2225 Printers ??

Message #5 Posted by [Michael Meyer](#) on 30 Aug 2002, 11:15 p.m.,
in response to message #4 by Ellis Easley

Ellis, was that directed to me or Steve? Mine were definitely the Thinkjets: I even came across a small Canon desktop calculator that uses the old Thinkjet cartridge! (I know that Canon made printers that used the same cartridge, but the calculator was a fun find!)

I used the 300 series (uses the 500 series black and color cartridges) to test the refills I did for my kids grade school.... at least 10 years after the first HP thermal ink-jet, which I do believe was the Thinkjet.

The Thinkjet came in A,B,C,and D models, I believe. I know the B was HP-IL, the C was Centronics. Perhaps the A was HP-IB, and I believe the D was serial. Or something like that. Some plugged in, and some had an external wall wort, and others had the battery packs and used the old two prong calculator charger. What a great little printer at the time. I wrote many letters, and especially liked the LEX files for the HP-71 that printed signs and even stretched letters so you had to look at a shallow angle to read what was on the page!

It's amazing that they still make the ink cartridges (or did until recently) for that series. Again, there were so many other devices (medical, word processors, etc.) that used that cartridge.

Now HP seems to come out with a new series every few months. I like my HP 2000C printer as the ink bladders are so easy to refill.

Michael

HP2225 versions

*Message #6 Posted by [Tony Duell \(UK\)](#) on 31 Aug 2002, 2:12 p.m.,
in response to message #5 by Michael Meyer*

I know of _5_ interface versions of the 2225 Thinkjet. 'A' is HPIB. 'B' is HPIL (and battery-powered). 'C' is standard Centronics parallel. 'D' is RS232 serial. And 'P' is 'portable parallel' -- a cut down Centronics interface on a DA15 connector, and a battery pack. The A, C, D models all run off an internal mains transformer. The battery-operated versions are significantly different inside -- they use lower-voltage stepper motors, etc so as to be able to run easily off the 7.2V NiCd battery pack. Incidentally the -A model is strange inside. The CPU in the Thinkjet has an internal HPIL port (which is used as you'd expect on the 'B' model). The 'A' model uses it too. There's an HPIB - HPIL converter board at the back (microcontroller, 1LB3 chip, etc) which is then connected to the HPIL port on the CPU. The C, D, P models are a lot more conventional with the interface converter hung off the CPU's 'bus'. Incidentally, the CPU uses a Saturn bus (!) to communicate with an external RAM chip and a ROM chip that contains the font patterns. One last thing. Can you still get the cartridges for these printers?

Re: HP2225 versions

*Message #7 Posted by [Ellis Easley](#) on 1 Sept 2002, 8:30 a.m.,
in response to message #6 by Tony Duell (UK)*

A company called MEI, who have sent me a catalog for many years and are now online, still have one listed:

http://www.microcenter.com/single_product_results.phtml?product_id=0093139

I think this must be the one made for special inkjet paper because the "plain paper" version usually spelled that out.

The 2225A interface sounds like the 3421A, if you have the HPIB option. The "A" printer is usually cheap, nobody seems to want them - they would be a good source for the HPIL chip.

Re: HP2225 versions

Message #8 Posted by [Tony Duell \(UK\)](#) on 1 Sept 2002, 2:04 p.m.,
in response to message #7 by Ellis Easley

You could get _one_ 1LB3 from a 2225A (the one on the converter board) -- there isn't one on the main board because the HPIL port is built into the CPU. Also, there are no pulse transformers in this printer -- the 2-device 'loop' doesn't need them. The 1LB3 pins are directly connected to those on the CPU. It should be possible to convert a 2225A to a mains-powered 2225B (HPIL) by removing the HPIB converter board and adding a homebrew PCB containing the pulse transformer and the rest of the HPIL interface components. I do know that the CPU (which contains the print control firmware too) is the same in the -A and -B versions. Actually, the -A is the only Thinkjet I've not managed to find yet. I can't see why people don't want it -- HPIB is a very pleasant and useful interface.... Thinking about the 3421 for a moment, the HPIB interface for that unit does contain the pulse transformer (as does the main board) -- it's a genuine (but short) HPIL loop between the 2. There's a changeover switch on the interface PCB which switches the HPIL connector on the mainboard between the external HPIL connector and the HPIL interface on the HPIB board. I have one of these units (with the HPIB interface option) which I normally use with an HPIL controller.

Re: HP2225 versions

Message #9 Posted by [Ellis Easley](#) on 2 Sept 2002, 11:39 a.m.,
in response to message #8 by Tony Duell (UK)

When I found that HPIB Thinkjets were plentiful was when I was searching Ebay for a serial version. At that time, the serial and parallel ones drew lots of bidders, the HPIL ones, what few I saw, would draw bidders, but the HPIB ones, of which many were being listed, drew few or no bidders. This might have been a temporary condition. I figured there were a lot of HPIB units sold originally - they were the only version I saw in my job - but in general, few people have a place to connect them.

Re: Color of HP 2225 Printers ??

Message #10 Posted by [Ellis Easley](#) on 1 Sept 2002, 8:09 a.m.,
in response to message #5 by Michael Meyer

Sorry, I meant to be responding to the original post again. I got the notion that maybe Steve thought he had seen a dark colored Thinkjet once!

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: HP-42S emulated on an HP-48 emulated on WinCE . . .

Message #1 Posted by [Paul Brogger](#) on 28 Aug 2002, 5:54 p.m.

This is headed in a very interesting direction. Now if only I could write a 9100A emulator for the HP-42S . . . And, I could run the developer's PocketPC emulator on Windows, and run that maybe on a Windows emulator on a Mac! Better yet, there's a MacOS emulator for Windows . . .

I wonder, has anyone knowlege of a system employing more levels of emulation? What must be the record?

For my part, I worked on a IBM MVS system that ran on a hardware emulation over SCO Unix on an Intel-based box . . . But that was child's play compared to what may be possible here!

Re: HP-42S emulated on an HP-48 emulated on WinCE . . .

Message #2 Posted by [HrastProgrammer](#) on 29 Aug 2002, 3:07 a.m.,
in response to message #1 by Paul Brogger

> I wonder, has anyone knowlege of a system employing more levels of emulation? What must be the record?

I don't know about other systems because I am interested only in emulators for HP-48/49. From my experience it is possible to emulate everything from HP-35 to HP-41 on HP-48/49. I just need a ROM from these calculators because I already know how to emulate CPU (I wrote HP-41E and HP-41X).

After developing an HP-42S emulator I know that emulation of other calculators in the Pioneer family is possible on HP-48/49 (like 17B or 32S, for example). The appropriate ROM is necessary, of course.

HP-28 emulator is possible but I don't think it would be very useful because HP-48/49 can do everything HP-28 can do.

I think that an HP-71B emulator for HP-48/49 would be possible, too. It would be very useful

because of its BASIC and FORTH languages. An HP-41/HP-71 Translator module is available for HP-71 so that would be the final line of emulation (simulation): Windows emulator on Mac (Unix) -> PocketPC emulator on Windows -> HP-48/49 emulator on PocketPC -> HP-71 emulator on HP-48/49 -> HP-41 translator on HP-71.

Re: HP-42S emulated on an PDAemulated on WinCE . . .

Message #3 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 29 Aug 2002, 9:47 a.m.,
in response to message #1 by Paul Brogger

Paul:

I would just like to have something like an HP 41 or 42 running in my Pocket PC. While many HP ****FINANCIAL**** calculators are available for the Pocket PC, I have found nothing yet in the direction I am looking for (again, 41-42). Of course, I know that many levels of emulations are not advisable, but I was just wondering about how to achieve my goal, and the very nice emulators from Hrast may (just may) be a manner, albeit with an extra layer of overhead. Needless to say, I would NOT like to have an HP48 emulator in my Pocket PC, were it the case, emu48 is available...

Of course, I would prefer if Hrast or someone else takes the effort to develop a native HP 41/42 emulator (or even port the calculator application from the HP LX 100/200) to the Pocket PC. There are nice HP SCIENTIFIC apps for Palm (see MathUPro just as an example), but I have found nothing comparable yet for the Pocket PC

An alternative I would explore is a JVM (Java Virtual Machine) for Pocket PC and a modified version of the HP25 available here at the MoHPC, but it will have 2 layers too...

Re: HP-42S emulated in a 48 emulation on a WinCE device.

Message #4 Posted by [Paul Brogger](#) on 29 Aug 2002, 11:12 a.m.,
in response to message #3 by Andrés C. Rodríguez (Argentina)

Right -- I think I could see where you were going with the "42 in a 48 in a PDA" idea. Sorry to treat it so flippantly. (But I did like the notion of seeing how many layers of emulation could be experimented with!)

I've tried EMU48 and found that the slavish implementation of a "virtual keyboard" and tiny simulated screen to be prohibitive limitations. These are made all the worse in my case because I've only afforded a monochrome PDA, and so don't get the benefit of colors in the interface. The horizontal pitch on the iPAQ is not quite enough to double that of the HP-48's screen, so the developer is limited to mapping them pixel-for-pixel. Consequently, the emulated screen is *really* miniscule!

So, I think you'd end up stuck with the too-busy HP-48 keyboard simulation, and the 42S output crammed into a microscopic version of the 48's display -- not a good situation.

I have expressed a hope that I could someday get 'round to utilizing the EMU48 (or similar) code as a behind-the-scenes "calculator engine", and somehow translate the PDA's standard input into virtual keystrokes. But such a project is simply not in the cards right now, and I've enough HP-32S/SII models stashed at the office, in my car, and in my toolbox that I don't really need it . . .

Re: HP-42S emulated in a 48 emulation on a WinCE device.

*Message #5 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 1 Sept 2002, 8:21 p.m.,
in response to message #4 by Paul Brogger*

Paul: I have a iPaq 3630 (color) with PocketPC 2002, and I am still in the search for the "perfect" RPN calculator application for it... (something in the line of the 25-41-42 which I physically had, or a 11C emulation).

If you know about something good, please let us know.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

OT: What Features Should I be Looking for in an "eBay Digital Camera"?

Message #1 Posted by [Paul Brogger](#) on 28 Aug 2002, 2:43 p.m.

I'm wanting a relatively inexpensive digital camera for close-ups on typical eBay items (including, from time to time, calculators).

Does anyone have any recommendations?

(I'm sure there's a better forum for this kind of discussion -- I'll follow that recommendation as well.)

Thanks,

Paul B.

Re: OT -- "eBay Digital Camera" -- Clarification

Message #2 Posted by [Paul Brogger](#) on 28 Aug 2002, 2:48 p.m.,
in response to message #1 by Paul Brogger

... *there's a better forum* ...

By "better", I meant, of course, "more appropriate" . . .

I don't know of *any* "better" forum or more helpful group of participants!

Re: OT -- "eBay Digital Camera" -- Clarification

Message #3 Posted by [mike tjebben](#) on 28 Aug 2002, 5:03 p.m.,
in response to message #2 by Paul Brogger

Hey Paul-

First a half-serious/half-joking answer: Do you have scanner? Have you considered buying one? They are pretty cheap nowadays, and one can set something on the bed and it'll do a great job of capturing a not-too-large item. The beauty is that the "environment" is more "controlled" that way then what you can do with a digital camera, and you can use it for other purposes too. And you might have difficulty getting a camera that can do as well for the same price; often less than \$50.00 with these Staples or Office Max rebates!

I have a higher-end SONY digital camera, but I still resort to the scanner for easy, quick-setup-shots!

Just a thought...

Good luck! Perhaps someone will have a much better suggestion...

-Mike

Re: OT -- "eBay Digital Camera" -- Clarification

Message #4 Posted by [Dave Shaffer](#) on 28 Aug 2002, 6:06 p.m.,
in response to message #3 by mike tjebben

For E-bay selling, you do not need a lot of pixels - the image files will just be too big (in fact, you will almost certainly want to crop your images in software). I have used an HP210 (I think the HP 215 is the same, except for added USB direct connectivity - a VERY nice feature) for E-bay pictures and it works fine. It is a "1.3 megapixel" camera and makes 1280 by 960 images. All cameras (when they are new!) come with some kind of image processing software. Try to have the software come with the camera.

I'd guess one of these HP models, or other similar 1 to 1.3 megapixel cameras should be available on E-bay for (well?) under \$100. Don't get a 640x480 model - I had one of those (an Agfa) and it was not very satisfying. The compression algorithms to store the images left you with pretty fuzzy results when you tried to blow up an image.

Also, you will want to be taking close-ups, so make sure the camera will focus at short range. Most of them do; most have autofocus of some kind.

Also, try to get one with a power supply adapter - these babies can go through batteries like nobody's business. (VERY unlike your HP 11 or 41 which will run for years on a few little batteries.) Better yet, invest in rechargeable NiMH batteries, and use them. I did that after about the fourth set of AA cells (4 at a blow). The current requirement, at least for these HPs, is rather high: an amp or more, and a lot of the cheap "vampire" supplies won't supply enough current to run them - I know 'cause my Dad tried, and eventually he had to get the real HP PS. i.e. your HP calculator wall charger won't cut it!

Then, have fun playing with it.

Re: OT -- "eBay Digital Camera" -- Clarification

*Message #5 Posted by [Ellis Easley](#) on 30 Aug 2002, 4:03 a.m.,
in response to message #4 by Dave Shaffer*

I got a demo HP 210 camera with no accessories - not even a memory card. I got the serial cable, literature and strap with memory card tool from HP Parts (I ordered 4 items priced \$6, \$1, \$0.50, and \$0.11, each came in a separate bag by FedEx with no additional shipping charge!) I've never used the serial cable because I got a "USB Enabled" compact flash card made by Lexar Media which comes with a USB cable to connect the card directly to the computer like a disk drive. Here is Lexar's page about USB enable compact flash cards: <http://www.digitalfilm.com/digfilm/index.html>

Also, I got the CD-ROM for the camera from HP for free, not from the parts organization, but by calling (or writing) customer service. As I recall, they gave me an 800 number to call to ask for the CD.

The user's guide for the camera says NOT to use rechargeable batteries. It seems to say that the camera circuits don't have any current limiting and NiCads could put out too much. I eat up AA cells but I have been using some I got for free at an Interstate Batteries store grand opening! I am eventually going to build a power supply for the camera with careful current limiting because I am too cheap to pay \$25 for a generic camera power supply or \$50 for the exact replacement from HP. I am also going to build an external battery pack with current limiting so I can use some larger rechargeable batteries for portable use.

I wanted a close-up lens for the camera and ended up ordering a package including close-up and telephoto lenses, a polarizing filter, a lens adapter for the camera, and a pouch for compact flash cards from dcprodirect.com. First several items were backordered, then I had to return the close-up lens because it had several mechanical defects, and the telephoto lens is still on backorder since March!

I hope to take pictures with the close-up lens, the power supply (since I need to use the LCD display with the close-up lens) and a tripod.

Re: OT -- "eBay Digital Camera" -- Clarification

Message #6 Posted by [Dve Shaffer](#) on 30 Aug 2002, 1:42 p.m.,
in response to message #5 by Ellis Easley

Ellis, et al.,

I HAVE been using rechargeable NiMH AA cells in my HP210 camera, with no ill consequences so far (certainly, no "nuclear explosion"! I almost fell off my chair while reading that one!). Either I didn't see the warning in the manual or decided to ignore it. I did worry that the NiMH voltage would be a bit low (1.2 V/cell versus 1.5 V/cell for standard batteries) but that doesn't seem to be a problem. In fact, as you noted, this camera really pulls the amps from the batteries, and if anything, the NiMH (and NiCad for that matter) are pretty good at supplying hefty currents.

I, too, discovered and now use the Lexar "USB enabled" compact flash card, and that really is the way to get images out of the camera. You can get more generic CF (and other memory card type) readers, as well - check E-bay listings for better prices than you'll find at either your local CompUSA or camera store. These card+reader systems also serve nicely for file transport between computers - you can think of them as 16/32/64/etc MB solid state disk drives. They are much faster than ZIP drives or CD writing for modest file sizes (10-ish megabytes) that are too big for floppies.

I haven't tried extreme close-ups with the '210, but it works fine for distances of a foot or more, and I have used it to image mice and other small devices for sale on Ebay. The resolution is enough that you can crop the image substantially and still see enough detail. Remember, you don't want megapixel images for your E-bay sales - it ticks off potential buyers if they have to wait a minute for the image to come through.

There is significant parallax between what you see in the viewfinder and what gets imaged when you are working up close with the HP210 (and, I suspect, most other digital cameras which non-imaging viewfinders). A little practice, though, will allow you to center the image (and "film" is cheap - just push "delete" if you don't like what you see!).

Re: OT -- "eBay Digital Camera" -- Clarification

Message #7 Posted by [David Ramsey](#) on 28 Aug 2002, 10:55 p.m.,
in response to message #3 by mike tjebben

Sadly, the scanner idea doesn't work well. Scanner's depth of focus is a millimeter or less. Things not directly on the glass won't resolve well-- I've actually tried scanning one of my HPs.

Let's just say the key tops came out great! Everything else was pretty fuzzy.

Re: OT -- "eBay Digital Camera" -- Clarification

Message #8 Posted by [Mike Tjebben](#) on 29 Aug 2002, 7:56 a.m.,
in response to message #7 by David Ramsey

David brings up a good point: Maybe not all scanners can do the job. My Visioneer 4400 (which was quite cheap) does GREAT! I've scanned my HP16, 48 and 49 with EXCELLENT results! It must be that my Visioneer has a larger depth-of-focus than what David's scanner has. It also cost me about \$30.00 new when I bought it as Staples with one of their rebate programs.

You will have better results for larger items with a digital camera. I find that it is nice to be able to control the exposure settings and be able to turn off the flash, because sometimes pictures taken without the flash come out better (if something reflects, etc.). Perhaps all digital cameras allow you to "force-disable" the flash.

Good luck!

-Mike

Re: OT: What Features Should I be Looking for in an "eBay Digital Camera"?

Message #9 Posted by [John K. \(US\)](#) on 28 Aug 2002, 8:59 p.m.,
in response to message #1 by Paul Brogger

The things I would look for:

- 1) Macro setting -- This can actually be either a setting on the camera or a separate attachment or lens, depending on the amount of money you're spending. This is **very** important if you want to take close-ups.
- 2) USB connectivity -- Very handy, though not absolutely vital.

3) Built-in flash that can be turned off -- It is becoming increasingly difficult to find a camera that *doesn't* have a flash these days, despite the fact that they're almost useless for close-up work (they're placed too close to the lens). I would look for a camera with a flash that can be turned off (not difficult, since almost all allow this) and would try to use environmental light to illuminate the subject.

4) Standard batteries -- Most run on AAs, but not all...

Another option you might consider, if you've got a good film camera with a macro lens, is to take the pictures on standard film and take them to a processor who can put them on PhotoCD for you. A cheaper way to go if you'll only be using the camera once or twice.

Re: OT: What Features Should I be Looking for in an "eBay Digital Camera"?

Message #10 Posted by [thibaut.be](#) on 29 Aug 2002, 3:10 a.m.,
in response to message #1 by Paul Brogger

Some time ago my passion was photography. I worked as student job in entertainment parks and worked for 6 months after my studies as a school photographer.

I bought last year a Minolta diimage digital camera. Nice stuff actually, 1.3 M Pixels with a Minolta aspherical lens, macro, built-in flash disabling, ...

To be very honest I find that making pictures with this camera is easy when it is about casual snapshots and very difficult when it is about taking a picture of an item you want to list.

Not that astonishing actually as the encountered difficulties are the same as for argentic images. Taking a closeup picture needs a good control of the light everywhere. Remember Daves's explanations about his recent snapshots : even done with common material, the light was thoroughly "moulded", and this gave the fantastic pictures we saw.

But the classic SLR wins at least 2 majors battles : first of all the picture is taken (almost) when you press the shutter and secondly on most classic SLR's you can select the shutter time.

With a digital camera most of the time closeup pictures are not focused because the camera computes focus even after you press the shutter and the small focus depth does not compensate a slight movement of your hands or because the shutter time is too short.

The only solution would be to mount the digital camera on a tripod but few of them accept distance shooting, though the timer function could do it.

So, to answer your question, I think John K's remarks are pretty wise !

Enjoy it !

Re: "eBay Digital Camera" (or scanner)?

Message #11 Posted by [Paul Brogger](#) on 29 Aug 2002, 10:54 a.m.,
in response to message #1 by Paul Brogger

Thanks to everyone for chiming in. (And do feel free to continue!)

Re: film cameras -- I do have two older manual 35MM SLRs, and have used them in the past. Lighting for acceptable closeups is a real skill, and I've not yet come close to mastering it, I confess. It sounds like I'll be working on that either way. Dave's latest beautiful shots are indeed an inspiration -- and it never occurred to me to simply go outside and use sunlight!

But the film-to-processor-to-prints part of the cycle is what I'd like to cut out, and it sounds like USB is the way to go. I suspect that, to the extent the lighting issues are indeed similar, one might use a digital to refine technique, then use film for a quality image. (Until, that is, one simply invests in a multi-megapixel solution?)

Re: Scanners -- I did, in fact, use my Visioneer scanner for my last three calculator auctions, and it worked o.k. I modified and cropped the images, but there was certainly enough detail for eBay's photo features. However, for anything other than "flat stuff", that won't work. I've got fishing reels, etc. that will need more depth of field. I also want to get some extreme close-ups to show scratches (or the absence thereof) to good effect.

Re: Digital Cameras -- Thanks for the recommendations -- I'll look at those models and compare features.

I appreciate the generous support afforded by contributors to this forum!

Re: "eBay Digital Camera" (or scanner)?

*Message #12 Posted by [Steve Borowsky](#) on 29 Aug 2002, 9:57 p.m.,
in response to message #11 by Paul Brogger*

Paul, I would recommend any 1.3 megapixel digital camera with a macro setting. When you take the picture use the flash, but attenuate it with something, such as a thick piece of white (translucent) plexiglas. By experimenting with different thicknesses and other arrangements you should be able to come up with something that maintains the advantage of even lighting while eliminating most of the problems of the flash going off 6 inches from the subject. Maybe if you paint a black dot on the part of the plexiglas that is directly over the bulb, etc. Have fun!

Re: OT: What Features Should I be Looking for in an "eBay Digital Camera"?

*Message #13 Posted by [jetboy777](#) on 9 Sept 2002, 6:43 p.m.,
in response to message #1 by Paul Brogger*

I bought a Sony DSC-F55 Cyber-shot about 3 years ago for \$700. It is a 2 megapixel camera with no optical zoom but with a macro feature. It also has a 180 degree rotating lens. I just love this compact camera. Check E-bay and you'll see it from time to time going for about \$200.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: Nothing much - Other RPN scientifics

Message #1 Posted by [Katie](#) on 28 Aug 2002, 11:35 a.m.

At least one of those other RPN scientific calculators makers was Heathkit! In the late 70's they made a really incredible handheld designed for use as an aircraft navigation computer the OC-1401. It was actually an LED, RPN scientific with navigational functions, real-time clock, stop watch and memories that could store either numbers, times or vectors. Its RPN stack was 5 levels deep and it used 3 microprocessors (display/keyboard controller, math/scientific functions, navigational functions) with a few supporting chips. One of the supporting chips was memory which was the only one powered in "standby mode" -- not a CMOS chip, but a low power chip that allowed the batteries to keep it running for a day or so. Its design seems to have been modeled after the HP "classic" series; even using a similar power supply connection. The keys have a nice "click" to them as well. It's one of my favorite non-HP calculators.

Re: Nothing much - Other RPN scientifics

Message #2 Posted by [Steve Borowsky](#) on 29 Aug 2002, 2:44 a.m.,
in response to message #1 by Katie

<<At least one of those other RPN scientific calculator makers was Heathkit! In the late 70's they made a really incredible handheld designed for use as an aircraft navigation computer the OC-1401.>>

ooh ooh I have one of those Katie! When I realized what it was I about flipped. It was so little known I wanted to shout about it from the rooftop (I didn't though). I even talked to Guy Ball about it and he had never heard of it. It's so well built that I thought it had likely been designed by HP for Heathkit. It's a real jewel from the '70's.

Re: Nothing much - Other RPN scientifics

Message #3 Posted by [Chan Tran](#) on 29 Aug 2002, 6:33 p.m.,
in response to message #2 by Steve Borowsky

I think I remember it now. It looked like a 67 didn't it?

Re: Nothing much - Other RPN scientifics

*Message #4 Posted by [Steve Borowsky](#) on 29 Aug 2002, 8:06 p.m.,
in response to message #3 by Chan Tran*

<http://www.datamath.org/Related/Heathkit/OCW-1401.htm>

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

HP Post Merger Results

Message #1 Posted by [frank](#) on 28 Aug 2002, 9:53 a.m.

SEE: <http://www.chron.com/cs/CDA/story.hts/business/1551207>

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: Nothing much

Message #1 Posted by [db\(martinez,california\)](#) on 27 Aug 2002, 11:22 p.m.

re; your posting.

your part 2 - i know one man who started out with a novus 4510, then bought a 41, then got a 45 from his dad when he retired, and then bought a 32sii to use for mundane stuff so he wouldn't wear out his treasures. rob is unique but i doubt he is the only one who started out with an off brand rpn and moved up to hp.

your part 4 - the microcifra is not a cheapo. it is a well made unit that used what may have been the only scientific rpn "calculator on a chip" that they could buy. the argies like to make their own stuff and do a good job of it too. i hear that there was also another brand from there that had an rpn model but i don't know if that one was a scientific. garrett, from san diego california was also not a cheapo. mine is a desktop probably made for accountants. with a thick sculpted black plastic & solid walnut body and boasting a clock, it looks more like fine furniture than a calc. as far as i know; garrett made nothing but rpn.

your part 5 - besides the 10 or so scientific & specialized financials from national/novus the american scientifics that i know of were from apf and corvus.

Re: Nothing much

Message #2 Posted by [Mike Sebastian \(Texas\)](#) on 28 Aug 2002, 7:30 p.m.,
in response to message #1 by [db\(martinez,california\)](#)

The APF and Corvus RPN calculators are the APF Mark 55 and the Corvus 500. Both use the same Mostek chipset: MK50075, MK50103, and MK50104.

Corvus was the brand name Mostek used to market their own calculators.

Re: Nothing much

Message #3 Posted by [db\(martinez,california\)](#) on 28 Aug 2002, 11:23 p.m.,
in response to message #2 by Mike Sebastian (Texas)

no fair! katie has the best toy.....again.

that was interesting mike. my omron has mostek ic's too but one of them is fried. i guess mostek was a quality company since not only the three we are talking about used mostek but hp outsourced to them for ic's as well. do you know if are they still in business?

Re: Nothing much

Message #4 Posted by [Mike Sebastian \(Texas\)](#) on 29 Aug 2002, 7:52 p.m.,
in response to message #3 by db(martinez,california)

Unfortunately, Mostek is no longer around. It was acquired by what is now STMicroelectronics.

This URL is a former employee's short history of Mostek: <http://www.mindspring.com/~mary.hall/mosteklives/history.htm>. This URL is a photo page: <http://www.mindspring.com/~mary.hall/mosteklives/photos.htm>. In the lower left corner of the calculator picture is a Corvus 500. Also, be sure to read the last paragraph on the photo page.

Here is an image of a poor quality copy of an advertisement comparing the [Corvus 500 to the HP-45](#) (warning, the image is 2MB) published in the May 1976 issue of *Scientific American*.

Re: Nothing much

Message #5 Posted by [db\(martinez,california\)](#) on 29 Aug 2002, 11:44 p.m.,
in response to message #4 by Mike Sebastian (Texas)

thanks for the urls mike. the ad is something dave should have in the museum if he can: hp's competition. from the tone of the ad it seemed like friendly competition though. i copied them all to read slowly. did you notice the reference to mostek printing a picture of woodstock on a chip they made for hp? wonder which series that was for?

steve: i hope you get time and parts to fix your garret someday. you've got a real jewel there. mine is a 2002. which is yours?

i really like that people here like and respect the rpn thought process too and not just

the hp brand. i think that hp was correct in choosing a system that analyzes the problem inside-out and is not just mindless "plug and crank" like aos. they also were correct in making most of their units to last too. doing both for a long time is what made them great. then.

Re: Nothing much

Message #6 Posted by [Steve Borowsky](#) on 30 Aug 2002, 10:29 p.m.,
in response to message #5 by db(martinez,california)

<<steve: i hope you get time and parts to fix your garret someday. you've got a real jewel there. mine is a 2002. which is yours?>>

Mine's a 2002 as well, but i've seen the same machine under a different name, but I don't remember what it was. It's definitely a very nice machine.

Re: Nothing much/3 things

Message #7 Posted by [db\(martinez,california\)](#) on 31 Aug 2002, 12:34 a.m.,
in response to message #6 by Steve Borowsky

mike; re: my stupid question. of course you saw them - you pointed them out to me! yes the character of homer simpson IS loosely based on me.

dave and katie; whatever calc i am using i always stroke the keys with my left hand so i can scribble with my right one. since i don't touch type i never thought that one side would be better with right handers than the other for the arithmetic keys but i guess it is. and it puts me square in the southpaw camp.

steve; if you ever get to working on your 2002 and need output data AND you know someone in the sf area who can figure out how to tell you what you need (that's way over my head) let me know and i'll get mine over to him. you can tell that i really think you have a cool unit there.

Re: Nothing much - Corvus 500

*Message #8 Posted by [Dave Shaffer](#) on 30 Aug 2002, 2:25 p.m.,
in response to message #4 by Mike Sebastian (Texas)*

Why isn't this the Corvus Forum!? That looks like a great machine, but I don't recall having ever heard of it before, let alone seeing one. All my friends and I wanted the latest HP at this epoch, I guess! (I was just out of graduate school, had a job (and no dependents!), and could conceive of spending a few hundred bucks on a useful toy.)

I've asked about this before, but never got any answers: The Corvus 500, and the HP calcs of this era, all have the arithmetic keys (+ - x divide) on the left hand side of the body, where a right-handed person would like them (at least I do), because you can easily see what operation you are about to do. At some later date, certainly by the HP11, these keys are on the RIGHT hand side of the calculator - not as convenient IMHO. You have to move your hand way to the right, or learn to punch the arithmetic buttons with your little finger. Does anybody know why HP changed the location? The revenge of a left-handed designer??

Re: Nothing much - Corvus 500

*Message #9 Posted by [Katie](#) on 30 Aug 2002, 6:48 p.m.,
in response to message #8 by Dave Shaffer*

I agree with you that the left side is the better place for the math keys, but only on the handheld machines. If you can work the desktop machines without looking at the keys and you're right handed, having the math keys on the right side is better. I think that HP figured this out and made their desktop machine that way starting with the 9815, 46 and the 91. I would guess that they realized that some people use their handheld calculators on their desk and made the switch for these too starting with the 10 series. But for effective touch typing you also need a key input buffer. The 10 series didn't have one, I don't know why. But they did add a buffer starting with the 18C and I think that all subsequent machines have at least a 2 or 3 key buffer.

Interestingly, Wang made their machines with duplicate math keys -- one set to the left of the numeric keys one set on the right. They didn't want to disenfranchise anyone!

Re: Nothing much

*Message #10 Posted by [Randy Sloyer](#) on 30 Aug 2002, 9:43 p.m.,
in response to message #4 by Mike Sebastian (Texas)*

Thanks for the URL's Mike.

So after reading the last paragraph, I wonder. Which came first, The yellow cases on the outside of the Woodstock machines, or the real Woodstock inside every Mostek chip inside every Woodstock?

Re: Nothing much

*Message #11 Posted by [Steve Borowsky](#) on 29 Aug 2002, 2:28 a.m.,
in response to message #1 by db(martinez,california)*

<<your part 4 - the microcifra is not a cheapo. it is a well made unit that used what may have been the only scientific rpn "calculator on a chip" that they could buy. the argies like to make their own stuff and do a good job of it too. i hear that there was also another brand from there that had an rpn model but i don't know if that one was a scientific. garrett, from san diego california was also not a cheapo. mine is a desktop probably made for accountants. with a thick sculpted black plastic & solid walnut body and boasting a clock, it looks more like fine furniture than a calc. as far as i know; garrett made nothing but rpn.

your part 5 - besides the 10 or so scientific & specialized financials from national/novus the american scientifics that i know of were from apf and corvus.>>

Thanks for the correction, db.

I didn't realize apf and Corvus made rpn's, or I had forgotten. I guess it was a pretty respectable field all told, though with the market what it was back then (tumultuous) the various rpn models may not have been exactly concurrent. Also i'm fairly certain that all these 'second sources' for RPN also made algebraics at some point, which is sort of like fighting on both sides in the war, with respect to our discussion. Kind of amusing.

BTW I have one of those Garretts, mine doesn't work. I've never bothered to try to repair it since it isn't scientific.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: HP 29-C

Message #1 Posted by [Michael Meyer](#) on 27 Aug 2002, 10:56 p.m.

Gotta mention here, again, my good luck so far in replacing the cells in HP packs with 1.5V Lithium AA batteries. I've never seen one leak (though I suspect the legend of the nuclear explosion would apply here...), they have an incredible durability if the useable temperature range is any indication (0 degrees to 212F), and a ten to twenty-year or more storage life. They are much lighter than alkaline AA's, and have approximately five times the power capacity. Has completely removed the necessity of charging a calc and they're always at full power. (I've only done this with my "users". The collection has the dutifully rebuilt NiCD's in separate storage.

I'd hypothesized the lithium's stability and safety in an earlier thread, but of course, haven't used any long enough to know for sure. I do have some very early design lithium AA's in flashlights over 5 years old and still powering up strong.

I'll let everyone know, in about 20 years, if the ones in my spare HP-25 and HP-67 have leaked or not. (Does anyone know what WOULD leak?) BTW... the few extra tenths of a volt don't seem to have hurt any of the calcs. Again, yet: but they can't be worse than alkalines...

Michael

Re: HP 29-C

Message #2 Posted by [David Smith](#) on 29 Aug 2002, 5:32 p.m.,
in response to message #1 by Michael Meyer

Just make REAL sure that nobody accidentally connects one to a charger cord... lithium is the most volatile metal known. It makes sodium look tame and can spontaneously combust in humid air. Although they probably would not acutally explode if charged, the end results would be much the same. Perhaps a piece of tape over the charger port would be a good thing. I would use Kapton tape used to mask gold fingers on circuit boards being flow soldered. The adhesive seems very stable and is designed to not leave residue behind.

Re: HP 29-C

*Message #3 Posted by [Michael Meyer](#) on 29 Aug 2002, 9:30 p.m.,
in response to message #2 by David Smith*

Thanks for the reminder, David! I hadn't even considered or worried about that, as I am the only one in the house using my calculators.... but the kids will be older soon. It would be-- potentially-- quite a disaster!! (Hmmmm.... sounds like a fun science project to me. I have several semi-functional TI's in my junk bin that would still charge a pack. I wonder what would happen if I charged one outside... I might have to be sure it's around July 4th....)

If you see a large mushroom-like cloud, you'll know I accidentally hooked one up to a charger... <grin>.

Michael

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: HP 29-C

Message #1 Posted by [Jerry Siegel](#) on 27 Aug 2002, 11:58 a.m.

A friend at work told me that rechargeable NiMH batteries pose a threat to the Woodstock series, and that I should use NiCDs instead.

Does anyone have any info to confirm/deny this?

Re: HP 29-C

Message #2 Posted by [David Smith](#) on 27 Aug 2002, 5:24 p.m.,
in response to message #1 by Jerry Siegel

I have an EE degree with over 30 years experience including many projects involving rechargeable batteries (some that required over 10 years of uninterrupted operation in VERY harsh field conditions).

I also took the time to track down an applications engineer with Sanyo and confirmed that NiMH cells work fine in NiCad applications that use slow charge rates of (say less than C/10, where C is the battery capacity). Basically, if your pack is not getting overly warm when sitting on charge, it is OK. Charge rates slower than say C/40 are not recommended since it is hard to maintain charge balance between multiple cells in a string.

Re: HP 29-C

Message #3 Posted by [Randy Sloyer \(US\)](#) on 27 Aug 2002, 8:42 p.m.,
in response to message #1 by Jerry Siegel

I would be curious to hear the explanation of how a NiMH pack poses a threat to a Woodstock machine. Is there concern when a cell fails and the voltage rises? Is this any different then the failure mode of a Nicad? Just wondering.

No matter which way you go, heed the warnings of all here concerning the fragility of the 29C. Do what ever you can to charge the pack out of the calculator.

Re: HP 29-C

Message #4 Posted by [David Smith](#) on 27 Aug 2002, 9:17 p.m.,
in response to message #3 by Randy Sloyer (US)

At one time there was some idle speculation that NiMH cells would somehow explode in a small thermonuclear explosion, etc. if charged in an HP calculator ;). Like all bogus info on the internet, once it gets out there, there is no stopping it.

There are some minor differences in the discharge curve of the NiMH and NiCad cells. Depending upon the circuit this can cause the "low battery" light to come on too soon (usually) or later than a NiCad... no big deal. In my trusty, dusty, rusty HP67 the low battery light comes on with an hour of run time left (out of over eight hours of continuous use).

This is the only difference that I have seen between operating NiMH cells and NiCads and have used them in numerous Classic, Woodstock, and Spice machines. NiMH cells do self discharge a little quicker than NiCads, but do not have "memory effect" problems with charging a partially discharged pack.

I have one HP97 pack also (but Sub-C NiMH cells are surprisingly hard to find and ludicrously expensive for a comparatively modest increase in capacity... it cost 60 bucks last year) so do not have much long term experience with them in that configuration. So far it does seem to work quite well though.

Re: HP 29-C

*Message #5 Posted by [Randy Sloyer](#) on 27 Aug 2002, 10:12 p.m.,
in response to message #4 by David Smith*

Thanks for enlightenment David. Thermonuclear explosion. Yeah. Reminds me of an old Steven King short story called "Thermonuclear War" where there is a war fought between plastic soldiers. A double-A cell would be just about the proper scaled size for such a weapon.

Another urban legend laid to rest.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: Nothing much

Message #1 Posted by [Les Bell \(Sydney\)](#) on 27 Aug 2002, 11:17 a.m.

Steve Borowsky wrote:

"This is good to know, but i'd have to know more about the specific models to tell whether they would have been a good or a bad influence on the acceptance of RPN. The NS models for example were so crappy, comparatively, that they may have had a negative influence".

I remember the old Sinclair Scientific, from around 1974 or so. I used to build the earlier Sinclair calcs from kits, and then typically sell them that evening to the first person who saw me use one in the bar where I worked during student vacations. So when the Scientific came out, for GBP14.95 in kit form, of course, I had to have one!

Trouble was, after I built it, it wouldn't work. I had no schematics, of course, but probing around with a scope, all I could see was DC everywhere - there was no clock running. I remember walking back to the university Hall of Residence where I lived, and despondently fishing the calc out of my parka pocket, only to discover it now worked - for a few minutes.

A little experimenting revealed that the calc would work for a few minutes after being cooled down in the icebox of the fridge next to my room - so for a few days, I used it like that to do Bode/Nyquist calculations: grab the calc from the freezer, work the numbers like crazy until it stopped, and then back into the icebox!

Eventually, a phone call to Sinclair revealed that TI had supplied a faulty batch of chips, and they would rework the calc if I sent it back, which I did.

However, the Sinclair's implementation of RPN (three level stack, from memory) was fatally flawed by the absence of an $X \leftrightarrow Y$ key, so that intermediate results had to be written down. Nonetheless, it beat the *crap* out of using a slide rule, so I persevered, until the bar job during the following Easter break provided the funds to buy an HP-45.

Blessed relief!

Best,

--- Les Bell, CISSP [<http://www.lesbell.com.au>]

Re: Nothing much

Message #2 Posted by [Steve Borowsky](#) on 27 Aug 2002, 7:10 p.m.,
in response to message #1 by Les Bell (Sydney)

Les Bell wrote:

<<A little experimenting revealed that the calc would work for a few minutes after being cooled down in the icebox of the fridge next to my room - so for a few days, I used it like that to do Bode/Nyquist calculations: grab the calc from the freezer, work the numbers like crazy until it stopped, and then back into the icebox!

Eventually, a phone call to Sinclair revealed that TI had supplied a faulty batch of chips, and they would rework the calc if I sent it back, which I did.

However, the Sinclair's implementation of RPN (three level stack, from memory) was fatally flawed by the absence of an X<->Y key, so that intermediate results had to be written down. Nonetheless, it beat the *crap* out of using a slide rule, so I persevered, until the bar job during the following Easter break provided the funds to buy an HP-45.

Blessed relief!>>

'Cool' story, Les! It's difficult to appreciate today how valuable a few trig keys were back then. The NS RPN wasn't much better; a three level stack, though at least one model, the 'Scientist' had an X<>Y key. In fact, that model virtually reproduced the HP35 keyboard. The top level wasn't perpetuated when the stack dropped though so the neat trick of filling the stack with the same number and using it as a constant couldn't be done. Interesting that the Sinclair used TI chips. I guess they didn't sell only AOS.

I think a lot of people came to RPN not for it's own sake, but simply because HP's were the best calculators out there and everyone knew it. The advantages only became apparent later. Machines like the Sinclair and NS models didn't have enough going for them in the quality department to carry people from the initial purchase decision on to proselytizing conviction, as we see in the case of HP.

Re: Nothing much

Message #3 Posted by [Masao Kinoshita](#) on 28 Aug 2002, 9:18 p.m.,
in response to message #2 by Steve Borowsky

<<Machines like the Sinclair and NS models didn't have enough going for them in the quality department to carry people from the initial purchase decision on to proselytizing conviction, as we see in the case of HP.>>

I used to own one of those neat Sinclair RPN scientifics. They looked cool and were small enough to put inside your jeans pocket. I remember also having to key in pi (3.14159 was printed on the calculator). I even built one of their algebraic scientifics from a kit, but by that time it was only for fun.

I had bought an HP 25 and the Sinclairs were no match. I was still saving up for an HP 65, so when HP introduced their HP 67 in 1976, I could afford one. :-) But not the HP 01, which came shortly after. :-(

Masao Kinoshita PPC 8585, CHHU 123, HPCC 1031

Re: Nothing much

Message #4 Posted by [Masao Kinoshita](#) on 29 Aug 2002, 12:34 p.m.,
in response to message #3 by Masao Kinoshita

Now that this little beauty is on my mind, I googled around and found this web page:
<http://www.vintagecalculators.com/html/scientific.html>

Back before buying an HP 25, I did use my father's HP 21 quite a bit; but the Sinclair RPN was mine.

Thread-wise, I really don't know if the Sinclair RPN helped or hurt RPN-ing in the long run. It certainly helped in that the HP Classics were so expensive back then, but unless you were comfortable using scientific notation and keying in constants, this little machine might have put some people off a bit. I also remember comparing the speed at which the HP's and the Sinclair RPN performed trig transcendentals. Let's just say that the Sinclair took a lot lot longer.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: HP41C

Message #1 Posted by [Ion Abraham \(New Mexico USA\)](#) on 27 Aug 2002, 8:55 a.m.

Hi,

There are relatively few people who will service these calculators for a fee, unfortunately.

If you have the time and patience, you can send it to John Robinson in Australia. He is very good with these sorts of repairs. You can contact him at john_a_robinson@hotmail.com and see if he's interested.

Meanwhile, you might consider buying a spare. I have one, if you're interested.

Good luck,

Ion Abraham Albuquerque, New Mexico

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: Repair of I/O ass'y on HP-41C

Message #1 Posted by [Christoph Klug](#) on 27 Aug 2002, 3:46 a.m.

Please describe the forum the technologie you use for repairing the I/O assembly.....

Re: Repair of I/O ass'y on HP-41C

Message #2 Posted by [Dave Mabry](#) on 27 Aug 2002, 7:27 a.m.,
in response to message #1 by Christoph Klug

Repairing the I/O assembly in the HP-41C series is generally a matter of some fairly small soldering. I use a binocular microscope with a high quality fine tip temperature controlled Metcal soldering iron. Here are a couple of examples of repaired assemblies. The first one was fairly easy, the second one was quite trashed. I have done worse ones, just didn't think to take a photo. I have to scrape the plastic coating off the copper foils to expose a surface to solder to. Then I use some copper foil with adhesive backing, cut to size, and solder it to the assembly. So far I haven't found one that I couldn't repair, and one required the copper foil to extend all the way to the point where the assembly makes contact with the PC board of the calculator. That one was a challenge, but it works fine.

(picture unavailable)

This one had only one of the four contacts that didn't work.

(picture unavailable)

All four contacts were trashed on this one.

These are just two examples. I am certainly willing to help anyone repair their own. Feel free to e-mail me directly or ask questions here. I will also do the repair for \$20 to \$25, depending on the severity of corrosion.

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: Minimum memory requirements...

Message #1 Posted by [HrastProgrammer](#) on 27 Aug 2002, 2:42 a.m.

OK, I will correct myself: HP-42X runs fine under Emu48 (v1.30) on Windows 98 or XP. There will be a demo on my homepage very soon so you will have a chance to test it on another platforms.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: HP41C

Message #1 Posted by [J Tiers](#) on 27 Aug 2002, 12:01 a.m.

I will second that.

If the material is indeed ABS, then methylene chloride is a good welding solvent. Our vacuum forming vendor assembles parts for us with it, and it ends up just like a molded part. Breaks again as if it were a solid piece.

I'd go with the wire, the reason it broke is that it wasn't strong enough to start with, wire re-inforces it.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: A revised family tree

Message #1 Posted by [Ellis Easley](#) on 26 Aug 2002, 11:28 p.m.

I think I answered my own question - binary integer object type, with choice of binary, octal, decimal or hexadecimal representation. Also logical operators to work on them.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: RPN as a language?

Message #1 Posted by [Mike Sebastian \(Texas\)](#) on 26 Aug 2002, 7:26 p.m.

Here is a link to the calculator forensics page, <http://forensics.calcinfo.com/>, which has a discussion about the algorithm and results tables for numerous calculators.

A few weeks ago, I was looking at Chinese calculator manufacturer web sites, and stumbled across who I believe is the manufacturer of the HP6S. I believe it is Karce (<http://www.karce.com/>). Here are their product pages for two calculators that, except for some color differences, look suspiciously like the [HP6S Solar](#) and [HP6S](#).

Re: Calculator Forensics -- A Few More Results

Message #2 Posted by [Paul Brogger](#) on 28 Aug 2002, 5:13 p.m.,
in response to message #1 by Mike Sebastian (Texas)

I don't think these are in Mr. Sebastian's tables:

Sharp EL-5100S: 8.999981534

HP-32S: 8.99999864267

HP-42S: 8.99999864267

Re: Calculator Forensics -- A Few More Results

Message #3 Posted by [Massimo Gnerucci \(Italy\)](#) on 30 Aug 2002, 9:08 p.m.,
in response to message #2 by Paul Brogger

My *all bugs* red dot 35 gives me a quite discomfoting 0.0174524064...

Another result for your table, Mr. Sebastian.

Greetings,
Massimo

Re: Calculator Forensics -- A Few More Results

Message #4 Posted by [db\(martinez,california\)](#) on 8 Sept 2002, 2:25 a.m.,
in response to message #3 by Massimo Gnerucci (Italy)

massimo; you think that your hp 35's answer is disconcerting? a casio fx101 from the 70's gives 9.785883 as it's final answer! it is exactly equal to an hp 32 at tan, starts to diverge by arctan and goes way out from there. what i want to know is: why does it's manual begin with "congratulations on your purchase of this highly advanced scientific calculator...." - d

Re: Calculator Forensics -- A Few More Results

Message #5 Posted by [Massimo Gnerucci \(Italy\)](#) on 8 Sept 2002, 2:56 a.m.,
in response to message #4 by db(martinez,california)

massimo; you think that your hp 35's answer is disconcerting? a casio fx101 from the 70's gives 9.785883 as it's final answer! it is exactly equal to an hp 32 at tan, starts to diverge by arctan and goes way out from there. what i want to know is: why does it's manual begin with "congratulations on your purchase of this highly advanced scientific calculator...."

Well, **0.0174524064** is the final answer on this calculator! :)

Greetings,
Massimo

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: Nothing much

Message #1 Posted by [Fred H. Schellenberg](#) on 26 Aug 2002, 6:45 p.m.

I still have an HP-45 for use on my desk at home (still the best-feel keyboard ever made!), an HP-67 on my desk at work, and an HP-15C and HP-16C both of which I carry every where I go in my brief case. All are in working order except for the HP-67 card reader.

I'd also like to express my kudo's to the originators of this site. Amazing, I just told my wife that I feel like a kid in a candy store - I guess that sort of gives away my age 57, but what the heck.

Re: Nothing much

Message #2 Posted by [Vieira, Luiz C. \(Brazil\)](#) on 27 Aug 2002, 10:59 p.m.,
in response to message #1 by Fred H. Schellenberg

Hi;

I'm 40, and I'd like reaching 57 to celebrate it here!

You're lucky. And I always think of it everytime I swithc my PC on (hpmuseum.com is my starting page).

Cheers.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: The exchange of the built-in NiCd battery of HP-34C.

Message #1 Posted by [David Smith](#) on 26 Aug 2002, 6:16 p.m.

I have been using 1800maH cells made by Gold Peak (I think). They are the semi-flat topped cells just like the original HP. You can find cells have a true flat top, others have a small raised button like a standard AA cell. These have a larger, shallower raised button. NiMH cells can be found in 1300 to 1800+ maH. Any capacity should work fine. The slow charge rates of the HP charge circuit are quite compatible with the NiMH cells.

Just about any battery store (Batteries Plus, Batteries, Etc, etc) can make up a pack by welding a strap across the bottom end of the cells (don't solder cells, it ruins the seal, etc).

I then fill in the valley on the top side with thickened epoxy. The bottom side gets about 1/3 filled in. This makes the pack keyed like the original so that it cannot be put in backwards.

When I install a pack in any Spice machine I first place a piece of ribbon in the battery compartment to use as an extraction aid... no more broken contacts trying to lever it out.

[[Return to Index](#) | [Top of Index](#)]

HP Forum Archive 09

[[Return to Index](#) | [Top of Index](#)]

Re: HP41 Rechargeable Battery Pack Repair Solution

Message #1 Posted by [David Smith](#) on 26 Aug 2002, 6:07 p.m.

I was getting the 150maH NiMH cells from TGWORKS before they went belly up. They had no manufacturer info on them, but Red said they were from Sanyo. I have not tried to find another source yet.

As far as 500 maH in a 1/3AAA cell, that would exceed the energy density available from any known chemical battery chemistry including lithium-ion. The original 1/2N cells were 70-80 maH, all my specs for Nicad 1/3AAA say 50 maH. I think the battery salesman who said they were 500 maH was inhaling some pretty special solder flux fumes ;)

[[Return to Index](#) | [Top of Index](#)]

Scan Copyright ©
The Museum of HP Calculators
www.hpmuseum.org

Original content used with permission.

Thank you for supporting the Museum of HP
Calculators by purchasing this Scan!

Please to not make copies of this scan or
make it available on file sharing services.