HP Forum Archive 10

Welcome!

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

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HHP RAM for 71b - back up battery
*Message #1 Posted by **Kim Holm** on 28 Feb 2003, 2:58 a.m.*

Does anybody know what the specs on the battery in the HHP 64Kb for the Card reader port is (3V Lithium?). I'm in the US next week and was hoping that maybe they would have one at Radio Shack or Frys.

Kim

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Preliminary list of my user library programs available
*Message #1 Posted by **Gene** on 27 Feb 2003, 9:58 p.m.*

Here's a preliminary list. List shows Library number, calculator model, game name, and comment. There are many more, but some are from the PPC Journal. There is a whole notebook of "HP-67 Miscellaneous" programs. Most HP41 programs are copies of pages from the Journal it appears. --More later, Gene

```
00501D  HP67    Baseball        Simulates a baseball game by rolling 2 dice to see
what the batter does
00555D  HP67    Baseball        Competitive game between 2 people, entering pitches
and deciding to swing or not
00499D  HP67    Battleship I    Similar to the board game on a 6x6 grid
01927D  HP67    Advanced Battleship     Similar to board game on a 10x10 grid
01370D  HP67    Blackjack       Improved version of games pac program
00200D  HP67    Blackjack       Plays game
04463D  HP67    Catch me if you can     Hi Lo game, but the number moves depending
on how close your guess was!
00266D  HP67    Concentration   Recall a list of numbers flashed on the screen
00586D  HP67    Football        Choose 1 of 3 plays and enjoy
00747D  HP67    Football        More advanced version of game
00537D  HP67    Championship Golf       Choose a club and play
00825D  HP67    Golf with unique putting routine        Another version of golf
00626D  HP67    Life    10 x 10 grid
00463D  HP67    Life    9 x 9 grid
01767D  HP67    Magic Squares   Helps fill in magic squares
01412D  HP67    Matrix Game     Calculator learns as you play against it, choosing 0
or 1 each time
01532D  HP67    Moon Lander     Has uninterruptable continuous countdown
01884D  HP67    Noughts and Crosses     Tic tac toe game
00616D  HP67    Objective       Tanks are seeking you on a grid (fox and hounds?)
00853D  HP67    Orbitor Game    Lander game with up/down and side/side control
04191D  HP67    Paper, Rock, Scissors   Play it against the calculator
00874D  HP67    Ping Pong       Looks tough
00875D  HP67    Electronic Ping Pong    Played on a grid marked off in logarithmic
units
00256D  HP67    Probe word game 2 player game - guess the word
00964D  HP67    Robot Trap      Move your android on a 10x10 grid - avoid robots
00538D  HP67    Roulette Deluxe Play the wheel
04190D  HP67    Sic Bo  Chinese dice game
01581D  HP67    Sink the ship   Shoot torpedoes



01616C  HP41    Double Precision Hexadecimal Conversion
00663C  HP41    Maze Construction and Play
Games Solution  HP41    Reversi
```

PPCCJ	HP41	SuperDetective	Includes extra pages from author
00363C	HP41	Step Game	Similar to flip it - move the > from one end to the other
01523D	HP67	Baccarat	Card game
00326D	HP67	Bagels 1-5	Digit guessing game
01495D	HP67	Baseball	Another Baseball variation
00873D	HP67	Basketball	2 people play basketball
00278D	HP67	Blackjack	"Las Vegas" style
03100D	HP67	Bowling	Can you strike down all the pins?
01798D	HP67	Bridg-it	Similar to "hex" - cross the board without getting blocked
03288D	HP67	Checkers	Not a very good player, but it works!
04505D	HP67	Chess - 8 queens	
01497D	HP67	Crack the vault	How good a thief are you?
00325D	HP67	Cybernetic Nim Game	Learns as you play
00739D	HP67	Daytona 500	Drag racing
01838D	HP67	Draw Poker	Get the best hand you can
00259D	HP67	Duel	Decide how close to get before you shoot
04356D	HP67	Engine Out	Glide your plan to the landing strip
04061D	HP67	Exterminator	Kill the gophers on a grid
04122D	HP67	Fan Tan	Cut a random pile of beans to leave only a few (NIM?)
01800D	HP67	Fortress	Invade a fortress in only 7 turns
00552D	HP67	Forty Four	Looks like a Bagels variation
04189D	HP67	4-5-6	Dice Game
04199D	HP67	Guess the number	Guess a secret number
03952D	HP67	How Old are you?	Given present date & birthday, computes values
01173D	HP67	Hunt the wumpus	Great!
03958D	HP67	IQ Tester	Familiar "remove pegs" from board game
00727D	HP67	Jack of Eagles	Calculator tries to guess next number you enter
00734D	HP67	Jotto	2 Guess the 5 letter word the calculator invents
01918D	HP67	Keno	Gambling game
03130D	HP67	Keno Special	Nevada style Keno game
01496D	HP67	Labyrinth	Escape the maze
00220D	HP67	Game of Life	10x10 game
00888D	HP67	Mastermind	Bagels
00216D	HP67	Mastermind Deluxe	Choose number of digits and digit values
02962D	HP67	Mine Field	Escape the minefield
04464D	HP67	Modified Moon Lander	Uses a bio-mass engine
01816D	HP67	Monopoly	Says it really plays the real game
03961D	HP67	Number Guesser Game	Guess the secret number
00850D	HP67	Number Hunt	Combines mastermind and supermastermind
00321D	HP67	Pinball Wizard	My all time favorite by Craig Pearce
01511D	HP67	Pinochle	Card game against the calculator
00959D	HP67	Programmers Bell Fruit Slot Machine	
01650D	HP67	Random sequence	Generates a number from 1 - N without replacement
00733D	HP67	Roulette	Another version
00219D	HP67	Shooting Gallery	Another by Craig Pearce
01471D	HP67	Slalom Ski	Make it down the course
02845D	HP67	Space War Plus	Starship KittyHawk
00369D	HP67	Advanced Star Trek	Six cards in this game!
02335D	HP67	Star Wars	Fly from enemy planet to home base

```
02039D  HP67    Super Bagels    "Easy Does it"
00000D  HP67    Supermastermind No library number on this
02900D  HP67    Telepathy       Card trick game
02913D  HP67    Game of 15      Nine cards used in this game
01475D  HP67    Rational TicTacToe      You'll never beat this game
02925D  HP67    3-D TicTacToe   4 x 4 x 4
00255D  HP67    Word Bagels
00687D  HP67    American Roulette Wheel
03954D  HP67    Down the Middle Guess a number exactly between 2 given numbers (?)
04510D  HP67    Guess the card suit     Series of cards, no repeats, guess the suits
00179D  HP67    Space War       20 pages of docs
04118D  HP67    Toss and Score  Pitch the rings onto the pegs
01829D  HP67    Unbreakable Cryptography        (Even with a P4?)
```

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eBay Leaves A Lot to be Desired

*Message #1 Posted by **Nick Nicholas** on 27 Feb 2003, 9:55 p.m.*

I just completed several eBay transactions as a buyer and I have yet to be completely satisfied with any of the transactions that have been completed. In the majority of the cases, the problems were minor such as scratches or writing in the manuals which were not anticipated. In a couple of cases, I received calculators with dents and scratches even though I asked specifically if there were any visible defects to the calculators. It seems that the onus is on the buyer to make sure to ask enough questions to determine the quality of the product rather than the seller providing a reasonable description. I see this as a major problem because it is much easier for the seller to notice defects and report them than it is for the bidder to ask a lot of questions in the hope of confirming the quality or uncovering a problem. But by advertising anything negative about the product, the seller detracts potential bidders so the descriptions are positive and vague in nature.

Unfortunately, in the case where I questioned the seller about the apparent defects, the response was that the item was previously owned by someone else and that the seller did not know much about the product. (This did not answer my question.)

I have also noticed sellers using words like "unused", "like new," or "mint" inappropriately or do these words have a different meaning on eBay than common english usage. There is an ad on eBay for a mint calculator but there is a picture of the front of the calculator with dents visible on the plate below the display.

It's buyer beware when doing business on eBay. Unfortunately, eBay is the only readily available source of HP calculators at high prices.

Re: eBay Leaves A Lot to be Desired

*Message #2 Posted by **Steve (KY USA)** on 27 Feb 2003, 10:13 p.m.,*
in response to message #1 by Nick Nicholas

Nick I too have been disappointed in a couple of my purchases on ebay!

Tips

*Message #3 Posted by **Mike** on 27 Feb 2003, 10:25 p.m.,*

in response to message #1 by Nick Nicholas

Well, you should definitely be very careful when you see words like MINT. In fact, you could split hairs and say that "mint" and "MINT" have different suggestions. While "mint" might be just an oversight, when it is bolded or all caps, it's being emphasized.

But aside from that, you will almost always be disappointed when buying something mint, if you really expect it to be mint. Most will probably be nice but most will also not be mint.

Calculator buying tips

Quite a lot of people see one auction go for a lot and since they have the same model assume theirs is worth the same. I have even seen them point to the better auction and say stuff like, "goes for $xxx.xx" when theirs is not at all the same.

Re: Tips

*Message #4 Posted by **Nick Nicholas** on 28 Feb 2003, 12:40 a.m.,*

in response to message #3 by Mike

Thanks for the reference to your "Tips" page.

I thought my situation should have been more obvious than your "mint" example. Are dents or scratches on the calculator that are visible considered defects? Evidently, some sellers would not consider them defects and would not include them in their response. I would guess that in most instances, unless the dents impaired the functionality of the calculator, the seller would be able to get away with this kind of response.

Not at all
*Message #5 Posted by **Mike** on 28 Feb 2003, 12:48 a.m.,*
in response to message #4 by Nick Nicholas

If there are dents or significant scratches, they are flaws. But defect implies defective.

Just be careful that you are specific in your questions. Cosmetic and functionality are two important considerations. Ask about both the cosmetic as well as functional condition.

And you need to be specific about functionality. That is why I always specify things like "all segments in every LED work." Some people might think (or try to alibi) that a missing segment or so means functional. If it's not 100%, it should be disclosed.

Lying by omission is still a lie, if the seller knows and just expects to fall back on "you didn't ask."

Re: eBay Leaves A Lot to be Desired
*Message #6 Posted by **db(martinez,california)** on 28 Feb 2003, 12:02 a.m.,*
in response to message #1 by Nick Nicholas

the biggest problem with ebay is that there is always someone willing to pay way too much for something, and when you win - you're him.

Re: eBay Leaves A Lot to be Desired
*Message #7 Posted by **Nick Nicholas** on 28 Feb 2003, 12:27 a.m.,*
in response to message #6 by db(martinez,california)

That is a problem of the buyer. The buyer decides whether to bid or not. I was referring to the seller either not providing an accurate description of the quality of the merchandise or misrepresenting the quality of the merchandise.

In my original post, I said that the seller may not want to advertise negative aspects of the merchandise that they are selling. However, I have seen winning bids for poor quality calculators or no manuals higher than better quality with manual calculators so given the bidding behaviour of buyers, I don't think having negative aspects advertised would make much difference.

Re: eBay Leaves A Lot to be Desired

Message #8 Posted by . on 28 Feb 2003, 12:44 a.m.,

in response to message #1 by Nick Nicholas

What else do you expect when buying shit on eBay?!?

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Nice DVD, Dave!
*Message #1 Posted by **Dave Mabry** on 27 Feb 2003, 9:06 p.m.*

Just wanted to say that I received my HP Museum upgrade DVD today and it is awesome! Dave, you did a really nice job putting it all together. I've just started looking at it and it appears to have wonderful content.

Nice having it all on one disk, too!

Thanks!

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71b Finally
*Message #1 Posted by **Joe Edwards** on 27 Feb 2003, 5:38 p.m.*

Okay, its official. I am the proud owner of the 71b. Now what do I do? :0

In regards to saving files, I understand my options to be the old cassette recorder (HP-IL), the card reader (internal) and if I am not mistaken there is a way to transfer data to a PC as well.

Could someone enlighten me on these solutions and any more that might be available.

Setup: 71b 64Kb 32Kb Math ROM 41c/Forth ROM

Joe

Re: 71b Finally
*Message #2 Posted by **Joe Edwards** on 27 Feb 2003, 7:18 p.m.,*
in response to message #1 by Joe Edwards

Never mind. It no longer matters. :(

Re: 71b Finally
*Message #3 Posted by **David** on 27 Feb 2003, 7:19 p.m.,*
in response to message #2 by Joe Edwards

What happened???

Re: 71b Finally
*Message #4 Posted by **Joe Edwards** on 27 Feb 2003, 10:33 p.m.,*
in response to message #3 by David

I could blame it on my astrological sign of Pieces...being wishy washy. I could also blame it on bad timing with finances. I will give you the full story. 1.I contacted the gentleman to buy the calc. He agreed. I sent him the money. 2.I had issue with tuition, and since it hadn't shipped I asked for a refund. He provided it no questions asked. 3. Well, I think I have it worked out so I send him the payment again, he refunds me again because it was a troublesome sale and he didn't want to deal with me. 4. I explain the situaion. He again agrees to sell me the calc. I send him the cash. I get a nasty letter from my health insurance stating that they aren't covering my liver lab work. 4a. I also get an agreement from one of my professors to buy my 15c, who laters backs out on me (karma?). 5. I ask for a refund since I cannot pay for both. He agrees, but isn't a bit happy. He tells me off. 6. I contact my grandmother and she agrees to loan me the cash for the bill. 7. Now I have the cash to pay for the thing and if I were even to try and contact the gentleman he would probably lose it! What really is upsetting is that his price was fair and he seemed to be a nice guy. Now I have no chance of purchasing his calc.

Joe

Re: 71b Finally
*Message #5 Posted by **Raymond Del Tondo (Germany)** on 28 Feb 2003, 4:13 a.m.,*
in response to message #4 by Joe Edwards

The hand of fate doesn't seem to be good to you...

You sent the money three times, and cancelled the deal three times?

Seriously, You'd make sure the money *is* available at the time you need to pay the HP-71.

Maybe you could kindly ask the seller to accept the money in two parts, and after having received the second part, he'd send you the calc. This could work if you explain the situation to him. In any case you should give him a guarantee for not cancelling again!

But again: Check your budget before buying;-) Never buy an expensive toy when you're low on bucks.

Good luck!

Raymond

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HP-67 (soft) display trouble
*Message #1 Posted by **Daniel Conde** on 27 Feb 2003, 3:09 p.m.*

Hi, my HP-67 display shows a "light shadow" or thin light between the decimal point/dot and the lower display segment. I mean, always, in the decimal point digit, the lower segment is a little bit alight. With the following numbers: 2-3-5-6-8-9 & 0, the decimal point is alight. This fact occurs in every digit (mantissa and exponent).

The problem is not so serious, but I would like to know if can I fix this trouble easily, and how. Thanks!

Re: HP-67 (soft) display trouble
*Message #2 Posted by **Spice_Man** on 27 Feb 2003, 7:02 p.m.,*
in response to message #1 by Daniel Conde

If I'm not mistaken, that's caused by low battery.

Spicey

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RAM cards for the 48gx
*Message #1 Posted by **Joe Edwards** on 27 Feb 2003, 2:58 p.m.*

Hey folks, I am looking for places that sell RAM cards for the 48gx, prefferably in the States, but I will order outside the US if necessary. Any info is appreciated.

Joe

Re: RAM cards for the 48gx
*Message #2 Posted by **R Lion** on 27 Feb 2003, 3:17 p.m.,*
in response to message #1 by Joe Edwards

Good and cheap: http://uuhome.de/oklotz/index_e.html

Raul

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HP48 plot to HPGL device?
*Message #1 Posted by **Chan Tran** on 27 Feb 2003, 2:39 p.m.*

Has any one written a program for the 48 to allow it to plot to an HPGL compatible plotter?

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71b CMT EPROMS
*Message #1 Posted by **andy** on 27 Feb 2003, 9:47 a.m.*

I have two CMT 64K eproms. I've read a little about them in the DataFile archives and it sounds like you need a CMT eprom burner to put images on them.

Does anyone have a CMT burner. If so, would you be willing to burn eproms for those of us who have the eproms but no burner (for areasonable compenstion of course)?

Or, since the eprom inside the CMT module is probably standard, I suppose one could build a custom adapter to connect the eprom to a standard eprom burner. Any advice here?

Thanks,

Andy

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82161A Tapes?
*Message #1 Posted by **Diego Diaz** on 27 Feb 2003, 9:25 a.m.*

I've come across with this while prowling the net:

(picture unavailable)

Braemar Inc. is the manufacturer of these tapes, you can found them at:

http://www.braemarinc.com/

and some info about the tape itself at:

http://www.braemarinc.com/GeneralProducts.htm

This tape looks pretty alike the infamous 82176.

Does any of know something about'em?

Are they *really* compatible with 82161A tape drive?

Thanks and regards from the Canaries.

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HP-97
*Message #1 Posted by **Mark Monica** on 27 Feb 2003, 7:28 a.m.*

Any suggestions on where I can find a battery pack for a HP-97 (p/n 82033A)? How can I find out what voltage this battery pack is? Could I bypass with a power supply? Thanks, Mark Monica

Re: HP-97
*Message #2 Posted by **Dave** on 27 Feb 2003, 10:50 a.m.,*
in response to message #1 by Mark Monica

4 C size NiCads (~4 X 1.25V) or 5 V total. Never bypass the power supply or use adapter without batteries in place. Calc will be fried.

Use ads to get battery pack, they can be rebuilt cheaply at BAtteries Plus.

Re: HP-97
*Message #3 Posted by **Dave Shaffer** on 27 Feb 2003, 11:12 a.m.,*
in response to message #2 by Dave

re: "... Never bypass the power supply or use adapter without batteries in place. Calc will be fried."

While this may be true for the usual/normal el-cheapo wall socket power adapters (batteries act like super-duper capacitors in this case, to regulate and smooth out any variations from the supply), you ought to be able to use a well-regulated power supply as a stand-alone, non-destructive substitute.

re: "... they can be rebuilt cheaply at BAtteries Plus."

Good idea. I got a battery pack rebuilt for my father's '97 a couple of years ago at Batteries Plus - it took only a day or two and $20 (parts and labor).

Re: HP-97
*Message #4 Posted by **Mark Monica** on 27 Feb 2003, 11:58 a.m.,*
in response to message #3 by Dave Shaffer

Thanks for the info, I have the old pack but the batteries (or super capacitor) must be open. When the adaptor is plugged in the calculator with the battery installed, it's dead. I am getting voltage thru the adpator. I think I should try running the unit off 4 C size batteries (WITHOUT the adaptor) before I try to get the orginal battey pack repaired.

Re: HP-97
*Message #5 Posted by **Christof** on 27 Feb 2003, 1:46 p.m.,*
in response to message #4 by Mark Monica

you might not want to use 4 regular C batteries, though if you go to rat shack and grab a 4 cell holder and 4 *nicad* (1.2 volt, not 1.5 volt like alkalines) batteries, you can test that way.

before you try much of anything, realize that a repaired battery pack is worth as much to someone here as you pay to get it rebuilt even if the 97 is dead. So it is worth getting the batteyr pack repaired anyway.

I always rebuild my own packs, as it isn't really very hard.

(you should be able to function test off *any* 4 cell nicad pack, so using a cheap 4 cell (4.8 or 5 volt will be printed on the package) cell phone battery pack should allow for testing. I keep a few of those around for that reason, too.

don't mix the + and -, though- I don't think you have a short protection in the 97

Re: HP-97
*Message #6 Posted by **David Smith** on 27 Feb 2003, 5:56 p.m.,*
in response to message #1 by Mark Monica

The cells used are the "sub-C" size... NOT C sized. Just take your old pack to your local battery store and they will know what to do.

Re: HP-97

*Message #7 Posted by **Sambonator** on 28 Feb 2003, 12:15 a.m.,*
in response to message #1 by Mark Monica

Try EBay. Here's a link to a battery for it:

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3009562800&category=11713

Sam

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...for beginners
*Message #1 Posted by **Pyerre** on 26 Feb 2003, 8:53 p.m.*

I've found this pretty good page :

http://users.ece.gatech.edu/~mleach/revpol/

for beginner like me,

Pyerre

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new *hp* calculators
*Message #1 Posted by **James Stephens** on 26 Feb 2003, 5:35 p.m.*

Several people have commented in pasing that the newer hp's (-9g, -9s, -30s) are rebadged products of other manufacturers. Who is actually making these?

Re: new *hp* calculators
*Message #2 Posted by **J.Manrique Lopez de la Fuente** on 26 Feb 2003, 5:53 p.m.,*
in response to message #1 by James Stephens

It has been said before in this forum, Kinpo: http://www.kinpo.com.tw

Best regards,

J.Manrique

#1077 HPCC Member

We should all be very proud
*Message #3 Posted by **Messrs. Hewlett & Packard** on 26 Feb 2003, 7:04 p.m.,*
in response to message #2 by J.Manrique Lopez de la Fuente

Why wait, how soon can we rename this the The Museum of Kinpo Calculators (MoKC)? Even we have to admit, Carly is a genius!

Funny, but...
*Message #4 Posted by **Vieira, Luiz C. (Brazil)** on 26 Feb 2003, 8:14 p.m.,*
in response to message #3 by Messrs. Hewlett & Packard

... I think Messrs. Willian Hewlett and David Packard should have their names mentioned in higher consideration, and never used as a disguised.

Forgive-me, Mr. I-will-not-post-my-name, but I would think twice before doing this. I'm almost sure you're not a regular contributor. But if you are and wanted to be funny (and the post is indded funny), you should write: "I belive Messrs. Hewllet and Packard are thinking..."

Maybe other contributors don't agree, but Messrs. Hewllet and Packard's memories must be respected.

Sorry, my thoughts. With my name.

Luiz C. Vieira - Brazil

Re: Funny, but...
*Message #5 Posted by **Michael Meyer** on 26 Feb 2003, 11:36 p.m.,*
in response to message #4 by Vieira, Luiz C. (Brazil)

Luiz,

I admire your loyalty, admiration, and respect for Mr. Hewlett and Packard. And I also think, even joking, people should post their real names.

Having said that, I think the writer is expressing his sadness over the state of HP and that the founders would be horrified with this development. He is using sarcasm to express this-- something I like to do maybe too often.

For example, our last free-standing mental hospital (the one I moved here for) is closing due to losing 2 million dollars a year. I've been "praising" this decision as a way to raise the insurance companies' CEO bonuses from 40 plus million to 42 plus million per year. (After all, aren't their bonuses more important than providing services to the people buying health insurance? One CEO in Iowa made a 20 million dollar bonus two years ago, but 200 million last year. The government is "looking into it" as the company laid off (fired) over 40 employees.)

See, I can't help myself either. HP's decision is actually related to this: profit is more

important than quality when serving people.

My own opinion only: "When you put people before money, both will benefit. When you put money before people, both will suffer."

Damned idealist.

Michael

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7 card star trek for 67/97
*Message #1 Posted by **Malcolm** on 26 Feb 2003, 4:18 p.m.*

I heard there is a 7 card star trek program for the 67/97.

Has anyone here a listing of this?

Thanks Malcolm

Re: 7 card star trek for 67/97
*Message #2 Posted by **Robert Blaschke** on 27 Feb 2003, 3:01 a.m.,*
in response to message #1 by Malcolm

Hi Malcolm,

please use this link for a listing of Star Trek: http://www.rskey.org/gene/hpgene/67sttrk.htm

At http://www.rskey.org/gene/hpgene/ you´ll find more programs, not only for HP-67/-97.

Best regards, Robert

Re: 7 card star trek for 67/97
*Message #3 Posted by **Gene** on 27 Feb 2003, 10:06 a.m.,*
in response to message #2 by Robert Blaschke

Unfortunately, that's not a 7 card star trek program. :-(

I have a shelf of binders of user library programs for the HP-67 and HP-41, including lots of games. Sadly, I dont' have the time to scan them into PDFs. :-(

Anyone want to volunteer? I'd love to have these available to my fellow enthusiasts!

Gene

User Library Programs - scanning
*Message #4 Posted by **Bill Hemphill** on 27 Feb 2003, 10:36 a.m.,*
in response to message #3 by Gene

Gene,

I would be delighted to scan the user library programs. I will be picking up a new scanner this weekend that will have a sheetfeeder. So it would be a great test for it!!

I have always wondered what HP did with all the user library programs. Looks like you have some of them. Did HP pass on the the entire library to any user group. There must have been thousands of programs submitted. Since there were all types of users, I'm sure there ar some pretty unusual programs that were submitted.

Bill Hemphill bjh@vpes.com

Re: User Library Programs - scanning
*Message #5 Posted by **Malcolm** on 27 Feb 2003, 4:24 p.m.,*
in response to message #4 by Bill Hemphill

To Bill / Gene,

If I could help out scanning I would. I have the use of a 40ppm scanner. Just one problem - I live in Oz.

To Bill in particular - I would love to have access to these listings.

Please Please Please

Re: User Library Programs - scanning
*Message #6 Posted by **Gene** on 27 Feb 2003, 4:39 p.m.,*
in response to message #5 by Malcolm

Lol. Where is OZ? :-)

I'll try to type up a listing of the program titles to whet everyone's appetite.

Note to the rest of you folks...check your HP calculator goodie stash and see if you have program listings of USEFUL programs lying around. That seems to be lots of games, but then those may be more useful than an HP-67 bicycle tire design program or such. :-)

And, as another poster included, don't forget the programs ALREADY available here on the museum page as well as at my site at www.rskey.org/gene/hpgene

Gene

Re: 7 card star trek for 67/97
*Message #7 Posted by **David Smith** on 27 Feb 2003, 5:57 p.m.,*
in response to message #1 by Malcolm

The 7 card Star Trek was for the HP41 series...

Re: 7 card star trek for 67/97
*Message #8 Posted by **Gene** on 27 Feb 2003, 6:11 p.m.,*
in response to message #7 by David Smith

Well, there are several star trek games for the HP-41 in the old PPC Journal articles. One was a programmable logic defense version that I liked.

I remember two more.

If you don't have these old PPC Journals on Jake Schwartz' CDROMS, you should consider getting them.

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HP21 bacteries
*Message #1 Posted by **Fabio Bertella** on 26 Feb 2003, 10:19 a.m.*

I would like to know the characteristics of rechargeable bactery (voltage and intensity) of HP-21, because I have it damaged. In HP museuum i cannot find this information Thank you, Fabio Bertella

Re: HP21 bacteries
*Message #2 Posted by **Philippe** on 26 Feb 2003, 12:21 p.m.,*
in response to message #1 by Fabio Bertella

Very easy: 2 cells CD-NI 1,2V 600mA. But works great with to AA Alkaline battery (2x1,5v) good luck !! Philippe from France

Re: HP21 bacteries
*Message #3 Posted by **Frank Glitz** on 26 Feb 2003, 4:36 p.m.,*
in response to message #1 by Fabio Bertella

Hi Fabio, look at http://www.hpmuseum.org/batts/battery.htm. Very useful information IMHO.

Regards, Frank

Re: HP21 bacteries
*Message #4 Posted by **David Smith** on 27 Feb 2003, 5:59 p.m.,*
in response to message #1 by Fabio Bertella

I use 1800 maH AA sized NiMH cells in my woodstock series machines... they give three times the run time of the standard 600 maH NiCad cells (you charge them for three times as long).

Re: HP21 bacteries

*Message #5 Posted by **Gray Wilson** on 27 Feb 2003, 9:02 p.m.,*

in response to message #4 by David Smith

David - do you use the standard HP charger?

Re: HP21 bacteries

*Message #6 Posted by **David Smith** on 27 Feb 2003, 9:55 p.m.,*

in response to message #5 by Gray Wilson

Yes, I use the standard HP charger. As long as the charger is a slow charge system, NiMH cells will directly replace NiCad cells... it just takes propotionally longer to charge them fully.

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41->71 Translator and the FTH41ROM LEX file

*Message #1 Posted by **andy** on 26 Feb 2003, 9:59 a.m.*

On this site's ftp swap disc archive, there's a file called LEXF1.LIF which contains over 600 LEX files for the 71b.

One of them, FTH41ROM, is identical in size to the FTH41ROM file found on the 41->71 translator rom.

I have downloaded the FTH41ROM file to my 71b (to both main ram and independent ram), but when I type "hp41" or "forth" I usually get a memory loss. I've even tried keeping the FTH41RAM file in place thinking that might be needed.

Do any of the 71b wise-ones know if its possible to run the translator or forth from this lex file, and if so, how?

Thanks,

Andy

Re: 41->71 Translator and the FTH41ROM LEX file

*Message #2 Posted by **Ex-PPC member** on 26 Feb 2003, 10:42 a.m.,*
in response to message #1 by andy

Both the Forth/Assembler ROM (which creates a FORTHRAM file) and the 41CTranslator/Forth ROM (which creates a FTH41RAM file) are hard-configured to a fixed address, and expected to reside precisely there.

They can't be soft-configured in RAM at all, so loading these ROM images in RAM will never work, regrettably, unless some extremely clever assembly programming tricks are used.

Re: 41->71 Translator and the FTH41ROM LEX file
*Message #3 Posted by **Gene** on 26 Feb 2003, 12:56 p.m.,*
in response to message #2 by Ex-PPC member

Do I detect that you may KNOW how to run the Forth / 41 translator in RAM on the HP-71B?

You say that it would take "assembly" techniques. Do you have any ideas or have you been able to do this?

:-)

Gene

Re: 41->71 Translator and the FTH41ROM LEX file
*Message #4 Posted by **Raymond Del Tondo (Germany)** on 26 Feb 2003, 5:54 p.m.,*
in response to message #3 by Gene

Since the sources were available, I think you could modify the F/A ROM config code to match your needs (e.g. another address range).

As far as I remember, the F/A ROM consisted of at least *two* functional libraries, one of them a floating ROMPart, and the other banned t a fixed address, I think in the #E**** range.

I don't know if they used address block dependent code there, in which case it would be more work to get it running at other addresses.

However, with enough energy and the suitable knowledge it should be possible to run the FORTH system from other than the default locations;-)

Raymond

BTW: I may have used ROMPart, library, and LEX file interchangeably, since they're nearly the same, at least from the functional side.

Re: 41->71 Translator and the FTH41ROM LEX file

*Message #5 Posted by **Ex-PPC member** on 27 Feb 2003, 4:59 a.m.,*

in response to message #3 by Gene

Gene wrote:

"You say that it would take "assembly" techniques. Do you have any ideas or have you been able to do this?"

Nothing is impossible using the right techniques and given sufficient time and effort, but regrettably I think making the Forth ROM run in RAM in exceedingly difficult.

The problem is this: the Forth ROM consists actually of two parts, a soft-configured ROM, that holds the Text Editor, the supporting LEX keywords for the editor and other ancillary LEX files, and a hard-configured ROM that holds the FORTH system and the Assembler.

For efficiency sake, FORTH needs to have its basic dictionary words at fixed addresses, while simultaneously trying to coexist with the native 71B operating system, that uses to configure everything at variable addresses. The FORTH development team solved the problem by convincing the BASIC developers to include some extra coding to help them achive their goals, namely that whenever the system starts, if it detects a hard-configured ROM at E0000, it reserves 64 Kbytes (from E0000 to EFFFF) for its use, avoiding configuring anything else in that address range.

FORTH is thus written and configured to always run from E0000 onwards. Further, it must ensure that the user words also start at fixed addresses, and it does this by forcing the FORTHRAM file to be the first one in the file chain, and intercepting the configuration poll to compute the size of the variable-length system buffers which precede it, in order to pad them with enough bytes to always make FORTHRAM start at a fixed address as well.

What are we to do then, in order to run FORTH from RAM ? Well, for once we would need to place it exactly at E0000. This is next to impossible to do, as you would need to have so much RAM allocated, and you would need to 'soft-configure' that address space yourself, because the operating system will be done with the configuration by the time your LEX file can take control, and may have allocated those addresses for RAM, ROM, or other purposes.

The other remaining possibility would be to write a 'relocator' LEX file or program that would change all addresses in the FORTH system to their new values, based on where

in the address space resides the FORTH ROM file. But this is unworkable, because you would need a listing of the many hundreds or thousands of fixed addresses that need retouching, plus many of them might be calculated on the fly, so you would need to change the code to recompute them as well. This would be extremely hard work, would require a very detailed, commented listing of the whole FORTH system, and a single mistake or omission would mean disaster.

Also, even if you would do it, the FORTH ROM file would not be the first file in RAM (that will always be the FORTHRAM file), so as the FORTHRAM file grows or shrinks, the FORTH ROM file is bound to move in memory, and the 'relocator' LEX file would need to answer the appropriate POLL to relocate everything again 'on the fly'. Needless to say, this would slow the system to the point of absolute unusability, thus negating the main advantage of FORTH over BASIC, i.e.: speed. The only way to solve this would be for the FORTH system to reside in some suitable IRAM, so that its address would be more easily computable.

There may be other ways, but the mere fact that any LEX file or procedure you could write will only get control after the main system configuration has run and allocated everything makes the task next to insurmountable.

Re: Soft-addressed based FORTH

*Message #6 Posted by **J-F Garnier (France)** on 27 Feb 2003, 6:55 a.m.,*
in response to message #5 by Ex-PPC member

Hi all,

There was a soft-addressed based Forth version made by HP. This was intenting for professional developers in order to develop Forth applications without the Forth (expensive) module. It was possible to put it (with the application) in standard 32k/64k ROM or EPROM modules.

Does someone ever use it for applications? I don't know.

Best regards.

J-F

Re: Soft-addressed based FORTH
*Message #7 Posted by **andy** on 27 Feb 2003, 9:43 a.m.,*
in response to message #6 by J-F Garnier (France)

If utilizing FTH41ROM and FORTHROM LEX files are next to impossible, why did someone bother to extract them from the ROMS and preserve them?

Does the potential for making these two lex files work increase if one were to consider burning them to a CMT eprom?

Which brings up another question which probably deserves its own thread: Does anyone out there own a CMT 71b eprom burner? If so, would they be willing to burn images to eproms if I send them eproms?

Andy

Re: Soft-addressed based FORTH
*Message #8 Posted by **HrastProgrammer** on 28 Feb 2003, 2:29 a.m.,*
in response to message #7 by andy

FORTHROM is part of the 16K soft configured Forth ROM. This is just a LEX file which calls addresses from hard configured Forth ROM (E0000.. EFFFF) and that's why it crashes. It doesn't contain 32K hard configured ROM ...

Burning just a FORTHROM into an EPROM will do nothing except a crash.

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LINK+....how fast
*Message #1 Posted by **andy** on 26 Feb 2003, 9:55 a.m.*

What is the fastest computer that LINK+ has successfully run on. I have a pentium 166 that I was going to attempt to run it on.

Is the problem with LINK+ on faster computers the CPU speed or the ISA bus speed?

Andy

Re: LINK+....how fast
*Message #2 Posted by **Massimo Gnerucci (Italy)** on 26 Feb 2003, 1:37 p.m.,*
in response to message #1 by andy

I used it on a dual Celeron 525, a dual Pentium3 500, a Pentium 200 under DOS, Win98SE and Win2k... haven't tried it on the Athlon 2400+ since it has no ISA slots :(

I had to disable external cache though; this way the PC takes forever to boot up but you can use Link+

Now I bought an OmniBook 800CT with docking station to devote to this task.

Greetings,
Massimo

Re: LINK+....how fast
*Message #3 Posted by **andy** on 26 Feb 2003, 1:50 p.m.,*
in response to message #2 by Massimo Gnerucci (Italy)

It turns out that my 166 MHz is an OmniBook 800CT.

Do you have any more tips for running LINK+ on an omnibook 800CT?

thanks,

Andy

Re: LINK+....how fast
*Message #4 Posted by **Massimo Gnerucci (Italy)** on 27 Feb 2003, 2:15 a.m.,*
in response to message #3 by andy

Do you have any more tips for running LINK+ on an omnibook 800CT?

Not yet, sorry.
I had it recently and had to play with it for a little to choose what to install on.
I am planning to try the HPIL card during the weekend *if my wife doesn't turn out with more clever things to do* ;-)

Massimo

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HP41c slot problem

*Message #1 Posted by **Wolfgang Batrla** on 26 Feb 2003, 9:37 a.m.*

my good old machine does not recognize any hardware plugged into three of the four slots. for years, i had a memory module in one of the slots. that slot is still working, even if i exchange the bar-code reader for the memory module, that slot works fine. the other three slots will not recognize any hardware. any help would be greately appreciated, since my brain is hooked to rpn.

Re: HP41c slot problem

*Message #2 Posted by **Diego Diaz** on 26 Feb 2003, 6:12 p.m.,*
in response to message #1 by Wolfgang Batrla

Which slot is the one that still works? I may guess it's number one (the top leftmost viewed from behind).

Did the problem happen suddently or did it begin as a single (or double: #2 and #4) slot malfunction and lately the third one (say #3) stopped working?

Chances are you have contact problems between the I/O Port Block and the Keyboard PCB (loosen screws prone to this behavior), nevertheless this usually causes the slots to stop working in pairs as slots 1 & 3 are internally wired toghether and slots 2 & 4 also are.

This should explain the problem with the pair of non working slots.

For the remaining faulty slot you might have a problem in the above mentioned internal wiring, or some dirtiness (e.g.: battery corrosion) that avoid proper contact or, in the worst case, a broken path inside the block.

Wichever the case you'd better try this first:

Twist both HP41's ends (you can't harm your calc unless you apply a *really* excesive force) this will make the contacts to sligthly move so it can displace some minor rust.

Should it becomes ineffective, try to press both halves of yuor 41, while a module is connected in one of the non working slots, and check if it's recognized.

Those are only diagnostics steps, anyway you should have to open your calc and make a contact cleaning, both on the Keyboard PCB and the I/O Port Block. Iso Propylic Alcohol is suitable for the task, if there is "greenish/blue" battery corrosion traces, a diluted acid like Acetic (vinegar) or Citric (lemon) will fit the needs, clean again with IPA once the acid cleaning is done. Cotton tipped sticks are great for the job. Care should be taken to avoid IPA or acid reaching the display area. After that make sure to dry the whole thing completely.

If one or more wiring paths are broken... Well, if you are happy (like I am) with a soldering iron in your hands, then you know what to do, otherwise, you're more likely to avoid trying and messing it all up with.

Be careful when screwing it back as plastic poles tends to broke, keep both halves tightly toghether with your hand while screwing and do not overscrew, just set them firmly.

I'd enjoy doing the task for you but I'm really far away from the rest of the world :-)

Regards from the Canary Islands.

(Pls, excuse my English)

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'rescue' updates
*Message #1 Posted by **Christof** on 26 Feb 2003, 2:08 a.m.*

So.... I've got one nearly trashed 9114B that i picke dup for $20 which now seems to function fine.

I rebuilt the battery pack (though my batteyr is in a pod externally, it still works great.) Read write test on 41CX and 75D..... gorgeous!

Except, the test light won't go out. i can't find any functionality not working, but..... in theory this means *error*

Now I need to buy more HPIL cables so I can connect the printe rin the loop.

I should be ready in the next day or two to do some real testing with the 86B and associated disk drives. I'll test the printer once I get a ROM drawer and figure out how to make a printer ROM.

I found an HPIB interface in SBUS format for my Sun workstations, but hav eno clue how to make it go.

and, finally, I found a really cheap laserjet III and have made it work with my 200LX for serial printing :)

I'm still playing with materials to replace the flexible conductor tapes in the spice machines, I just don't *like* using wire.

Re: 'rescue' updates

*Message #2 Posted by **Vassilis Prevelakis** on 26 Feb 2003, 7:43 a.m.,*
in response to message #1 by Christof

```
> I should be ready in the next day or two to do some real
> testing with the 86B and associated disk drives. I'll test
> the printer once I get a ROM drawer and figure out how to
> make a printer ROM.
```

You don't need a "printer ROM" to use the printer. You just type

PRINTER IS 705

This assumes that the HP-IB adapter is at the default position (7) and the printer has HP-IB address 5.

Then if you sy

PRINT "HI THERE"

or

PLIST (to print the current program)

The printer should come to life

Also if you want to log everything that appears on the screen (in character, not graphics mode), you just type

DISPLAY IS 705

**vp

Re: 'rescue' updates
*Message #3 Posted by **Matt Kernal (US)** on 26 Feb 2003, 11:15 a.m.,*
in response to message #2 by Vassilis Prevelakis

>Also if you want to log everything that appears on the screen (in character, not graphics mode), you just type

>DISPLAY IS 705

And to return "printing" to the screen only (ie. stop echoing everything to the printer), just type:

DISPLAY IS CRT

or IIRC..

DISPLAY IS 701

mk

sorry.. wrong answer (I think)
*Message #4 Posted by **Matt Kernal (US)** on 26 Feb 2003, 11:28 a.m.,*
in response to message #3 by Matt Kernal (US)

My memory is being faulty this morning... (I don't have my HP 85 manual handy :-)

Vassilis Prevelakis is correct in his post.

I think I'm confusing "PRINTER IS" and "DISPLAY IS" commands.

Next time I'll wait until I am sure of my answer before I post it ;-)

mk

Re: sorry.. wrong answer (I think)
*Message #5 Posted by **christof** on 26 Feb 2003, 1:06 p.m.,*
in response to message #4 by Matt Kernal (US)

What is the printer/plotter rom for specifically, then?

color choices and printer graphics?

thanks!

Re: sorry.. wrong answer (I think)
*Message #6 Posted by **Vassilis Prevelakis** on 26 Feb 2003, 3:27 p.m.,*
in response to message #5 by christof

```
christof wrote:
> What is the printer/plotter rom for specifically, then?
```

To quote from http://www.series80.org/accessories.html

00087-15002 Plotter ROM: Allows data to be transferred from the HP-86/87 to an HP plotter. Also provides single commands to dump CRT graphics and alpha screens to any HP dot matrix printer. (Print and graphics commands for transferring data to an HP printer are included in each HP-86/87). Consumes 1392 bytes of available user memory.

The HP-85 has a built-in printer which can produce screen dumps, but does not have software to drive external printers, so HP produced the Printer/Plotter ROM that allowed the HP-85 to drive external printers and plotters. The 86 and 87 do not have a built-in printer, so HP included the GDUMP program (see below) in the demo disk supplied with each 86 and 87 system. HP also supplied the Plotter ROM that provided similar functionality as the 85 Printer/Plotter ROM.

You can download the GDUMP program from http://www.series80.org/Programs/index.html which allows you to dump the graphics display to any of several graphics printers.

BTW I made a mistake in my ealier post, the Series 80 do not have a DISPLAY IS command, rather a CRT IS. To send output to an HP-IB printer (address 5), you use

CRT IS 705

and to turn it off, you use

CRT IS 1

**vp

built in HPIB?

*Message #7 Posted by **Christof** on 27 Feb 2003, 4:02 a.m.,*
in response to message #6 by Vassilis Prevelakis

okay, now armed wiht a magnavoz series 80 monitor and a 9121D dual floppy drive, I'm ready to go....

or maybe not

1: MASS STORAGE IS xxx doesn't work with anyhting I cna figure out (the test switch is up (normal) and the address switches are 1=down 2=up 4=up) on the drive.

the built in HPIB (it *is* built in HPIB on a 86B machine, I am assured. And it's labelled) doesn't seem to have a switcc system *shrug*

so, mass storage is 701 doesn't work, neither does 706. this is also true for prefixes 0,2,3,4,5,6. (haven't tried 1 yet, guess I will soon)

I get error 88, BAD STATEMENT no matter what I do with mass storage.

2: the monitor is fine, but I'm having the same problem I had using the PC and TV composite inputs. the top 2 " pixel lines" of the top line of the 86 display are out of the range of all composite video outputs I've hooked up. Not world shattering, but weird. makes a capital A look like a shortened H.

any ideas? C

Re: built in HPIB?
*Message #8 Posted by **Vassilis Prevelakis** on 27 Feb 2003, 9:52 a.m.,*
in response to message #7 by Christof

```
> MASS STORAGE IS xxx
> doesn't work with anyhting I cna figure out
```

I hope you are using

```
MASS STORAGE IS ":D701"
```

and not

```
MASS STORAGE IS 701
```

which doesn't work.

Have a look at page 16 of the Mass Storage ROM Manual and don't take liberties with the spelling :-)

**vp

Re: built in HPIB?
*Message #9 Posted by **Christof** on 27 Feb 2003, 12:06 p.m.,*
in response to message #8 by Vassilis Prevelakis

I type quite well when I'm on a decent keyboard, really :)

I see the syntax now, looking through that.

MASS STORAGE IS ":D701" just... hangs.

Granted, this is a 9121 and I dont' appear to have any floppies that will work in it (it takes some other kind of 3.5 inch disk? one that I don't have, apparently)

But I have another HPIB floppy appearing soon, and a second HPIB interface which I cna set to a different address and keep testing things.

not sure about the display, there doesn't seem to be any obvious way to tune the output...

back to printing manuals, thanks....

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48gx buying info - questions
*Message #1 Posted by **Joe Edwards** on 26 Feb 2003, 12:37 a.m.*

Hey folks, yet another question. I am going to purchase a 48gx soon and I need some advice...

Is there a difference in quality and manuals supplied between the 48gx in the box and the 48gx in the bubble pack (for a lack of a better term)?

Thanks.

Joe

PS...why the heck does the U.S. get stuck with the bubble packaging (on many different products) while others throughout the world have their electronics packaged in standard boxes? Just curious.

Thanks.

Re: 48gx buying info - questions
*Message #2 Posted by **George** on 26 Feb 2003, 5:28 p.m.,*
in response to message #1 by Joe Edwards

I have purchased both versions and they are of the same quality. The manuals in mine are identical. The most recent ones in the "bubble pack" have the screen that displays black characters instead of the older bluish color. I like the black version as the contast seems to be better.

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48S died
*Message #1 Posted by **Mike Rivera** on 25 Feb 2003, 10:52 p.m.*

Hi all:

My 48S went blank the other day. I thought it was the batteries but when I put in a fresh set (I checked that they are good) the screen is still blank.

If I press on the battery door I can sometimes get the screen to show some signs of life, but just for an instant.

Is it dead?

Even though I've owned it for about five years, it looks perfect and I don't want to throw it away.

Any ideas?

Thanks,

- Mike

Re: 48S died
*Message #2 Posted by **Christof** on 26 Feb 2003, 1:59 a.m.,*
in response to message #1 by Mike Rivera

sounds to me like loose contacts. I'm not sure of the construction on one of these- I'm still a bit leery of taking one apart, but many HP calcs will have pressure connections for LCDs and if it gets loose, it goes blank.

try turning it on and typing 2000 <enter> 1 <enter> beep <enter> ? (I really have no idea if it will beep with a loose LCD, but why not try?)

Christof

Re: 48S died
*Message #3 Posted by **Randy Sloyer** on 26 Feb 2003, 3:05 p.m.,*
in response to message #1 by Mike Rivera

Flip it over and remove the upper right rubber foot. You will see a small hole. Straighten a paper clip and poke it through the hole until it bottoms out. Remove the clip and try turning on the unit. You might be alive again, if so, you'll be presented with the question "Recover memory?" Answer no to clear memory and you should be okay.

If that doesn't do it, try pressing on the raised part of the bezel above the B and C keys while pressing the ON button. If it comes on, the keyboard circuit has lost contact with the logic board. It will need to be popped open and fixed. Post a message if you need help.

Good Luck

Re: 48S died
*Message #4 Posted by **Mike Rivera** on 26 Feb 2003, 5:22 p.m.,*
in response to message #3 by Randy Sloyer

Christof and Randy:

Thanks for the ideas. By the way, my calculator is a 48G (not S) sorry.

I tried all your ideas and nothing. When I put batteries back in it, the screen looked like a bar-code until I pressed the under-foot reset, then it went blank. Nothing you recommended helped (or did anthing).

It might be a goner?

- Mike

Re: 48S died
*Message #5 Posted by **Vieira, Luiz C. (Brazil)** on 26 Feb 2003, 8:08 p.m.,*
in response to message #4 by Mike Rivera

Hi, you guyts, Christof and Randy;

what do you think about a cold-sldering in one of the LCD drivers? There are two of them built beside the Saturn CPU, and I have seen electronic diaries with this sort of behavior. For funny (they do not cost so much, people throw them away and buy new ones) I repaired a few of them by cleaning the flat conductor or the polymer, but in two cases, there was a bad contact in some IC's terminals. Resoldering them was enough.

Just a hunch, what do you think?

Best regards.

Dead 48G
*Message #6 Posted by **Randy Sloyer** on 27 Feb 2003, 9:47 a.m.,*
in response to message #5 by Vieira, Luiz C. (Brazil)

In the 48's I've opened, and there have been many, I've never seen a bad solder connection. I doubt it is a soldering problem, nor will a bad or loose LCD zebra connection cause the problem as described.

I suspect a bad power supply component on the logic board, for which the best repair is replacement. It is not worth the effort when you can buy new 48's on ebay for $50. I've seen used units without manuals go for $25.

Just my 0.02 worth.

Power components: can you specify?(was: Dead HP48G)
*Message #7 Posted by **Vieira, Luiz C. (Brazil)** on 27 Feb 2003, 11:16 a.m.,*
in response to message #6 by Randy Sloyer

Hy, Randy;

thank you. This is a very important information. Can you specify the power components you have seen as bad? In this post our friend Philippe mentions a 1,000uF/6.3V capacitor in the 49G's power circuit that he found as burnt. I have an opened HP48G and I can see a capacitor with the same specs (is this the one that's burnt when batteries are placed wiht inverted poles?) and, in the opposite side, some SMD around what seems to be an inductor (in this MB, a "big" blue bubble). Are these the power-supply "team"?

Just to add more information about these beasts.

Thank you and best regards.

Luiz C. Vieira - Brazil

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how do i do a matrix transpose
*Message #1 Posted by **zenon** on 25 Feb 2003, 8:55 p.m.*

I am typing TRAN([[5,3,2]][2,2,2])

and I get TRAN([[5,3,2]][2,2,2]) back!

my calc won't transpose! it just keeps giving back the thing I punched in.

would a reset or something help? How do I do the strongest type of reset w/o wiping my OS? help!

Re: how do i do a matrix transpose
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 25 Feb 2003, 9:58 p.m.,*
in response to message #1 by zenon

Hi;

If your typing is correct in the post, there is an inner bracket that should not be there; like this:

```
TRAN([[5,3,2]][2,2,2])
```

, instead you should type::

```
TRAN([[5,3,2][2,2,2]])
```

Anyway, I tested it in the HP49 and I get the transpose matrix. Have you checked for any particular setting? I had a look at the HP49G's Command Guide and there are no specific settings for TRAN, neither for TRN (works as well). But who knows...

If it's just the typo bracket, it should work fine (I typed this way and I received a Invalid Dimension error and the wrong command line is kept in the display as you mention)

Best regards.

Re: how do i do a matrix transpose
*Message #3 Posted by **zenon** on 25 Feb 2003, 10:57 p.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

:) IT WORKS!

Actually that was a typo, I do know how to use matrix math. ;)

What I did was push in the reset button in the back.

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E-Bay question - Past Auction Search
*Message #1 Posted by **D. Hanson** on 25 Feb 2003, 6:32 p.m.*

Does anyone know where the past auctions searches on E-bay went. Is it still possible to make such searches for a given calculator? Or better yet is there anywhere on the net they keep past auctions for several years back?

Where can I find the calculator auction pages on Yahoo?

Thanks D.H.

Re: E-Bay question - Past Auction Search
*Message #2 Posted by **Joe Edwards** on 26 Feb 2003, 2:07 a.m.,*
in response to message #1 by D. Hanson

Ebay changed the way this is done, but it is still possible.

Do a search for the item you want. After the results pop up, look to the left side of the screen and you will find a link for COMPLETED AUCTIONS.

Joe

Sure there is
*Message #3 Posted by **Mike** on 26 Feb 2003, 9:07 a.m.,*
in response to message #1 by D. Hanson

Just do any Search and click the Advanced Search tab. On that form you will see a check box for "completed items."

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my HP25 is now white!!! help
*Message #1 Posted by **Rodney** on 25 Feb 2003, 5:56 p.m.*

I did the rinse with IPA as you suggested, but now my keyboard looks ruined!! Its like white all over and I tried to scrub it off and it is still there....plz advise!

Re: my HP25 is now white!!! help
*Message #2 Posted by **Michael Meyer** on 25 Feb 2003, 10:02 p.m.,*
in response to message #1 by Rodney

Try Armor-all or some other car vinyl protectant. It works pretty well on small areas that have the "white" appearance, but I'm not sure it'll fix a whole keyboard. Give it a try, though.

Michael

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HP 49g
*Message #1 Posted by **Joe Dirt** on 25 Feb 2003, 3:56 p.m.*

Was this model discontinued? why?

Re: HP 49g
*Message #2 Posted by **Dave** on 25 Feb 2003, 4:17 p.m.,*
in response to message #1 by Joe Dirt

Probably,

Not what the market wanted or needed....

Re: HP 49g
*Message #3 Posted by **James Stephens** on 25 Feb 2003, 7:03 p.m.,*
in response to message #1 by Joe Dirt

The hp-49g was discontinued, which is unfortunate. The market may not have wanted it, but my gut feeling is that there was--and is--plenty of room in the market for it and there were other reasons for production to have ceased. The hp-49 is a good machine, and I'd like to see it back in production. I hope someone at hp monitors this site and reads my suggestions.

When I bought mine in 1999 there was a lot of interesting material on the web, and some of it may not be available any longer. According to my web-based research, the 49g was designed in Australia by some very good hp-48 experts, so it was designed to be appreciated by loyal hp types who knew their way around an hp-48. HP was also trying to push into the education market, so the requirement to compete with TI (and others) drove the design to some extent. The look of the calculator, and more significantly the fact that it can operate in RPN and algebraic input modes were certainly results of this philosophy. Nothing is wrong with any of this. The calculator looks fine, and although the layout and tactile feedback are a bit different than those of the 48 series, the keyboard is still high in quality and the layout is appealing. The fact that the user could choose algebraic or RPN input should have opened up a good segment of the market, at the expense of complicating the documentation requirement. Documentation

(at least in my opinion) is where hp blew it.

These calculators are too complex to master without good documentation. The User's Guide (manual) supplied with the machine was full of statements like "The hp 49g can do..." one thing or another, without explaining how to actually do the one thing or another. Some of the few detailed examples that were in the guide had errors, and the entire document was geared toward algebraic input. I had never used a graphing calc before I bought the hp-49g--had never owned an hp-48 (but was a loyal hp man, having owned a -15c, -32s and -32sII). I took the -49g out to sea on a seismic survey in early 2000 and worked through the manual. I found examples that didn't work, found a few things (such as entering vectors) that didn't "translate" in any obvious way between algebraic and RPN modes, and was sorely tempted to toss the thing into the Atlantic. One bright spot: I bought the calculator for its CAS, with the intention of having an easy-to-use way of evaluating integrals numerically. I did find the Equation Writer to be intuitive, so the machine did what I wanted without a lot of trouble.

I had the impression that HP believed that an experienced hp-48 user should have no problem with the hp-49, but many hp-48 users didn't like it--or more precisely didn't like the fact that the hp-49 worked differently. NB: For those of you who don't know, there is a flag setting that makes the -49 operate like an hp-48, so all of that knowledge--and the manuals--carry over. Still, one shouldn't be required to own an hp-48 in order to be able to use an hp-49.

By producing poor documentation HP alienated its loyal customer base as well as new users. When you by an hp-48 (yes, I got one of these after I got the hp-49), you get three manuals: a User's Guide, an Advanced User's Guide, and a Quick Start Guide. The user's guide is a thick, comprehensive, very-well-written document, as is the advanced user's guide. HP needed to produce documentation of similar quality for the hp-49 (the existing guides are worthless and need to be rewritten). Now, here's the problem: separate user guides would have to be supplied for algebraic and RPN modes of operation. This would be an expensive proposition. Here's the solution: the Quick Start Guide for the hp-48 introduces you to everything (short of programming) that a student or professional user needs to use the calculator (through a series of exercises), so produce a two-part quick start guide for the -49g: section I would be algebraic, section II would be RPN. Include a mail-in card for the full User's Guide of choice (algebraic or RPN), and make the appropriate Advanced guide an extra available for sale.

The machine is capable enough for the education trade, and good documentation and marketing would surely make it a contender. It is rugged (it's a *real* hp) and capable enough (especially in RPN mode) for professionals. HP's designers really did succed in creating a machine to please everyone, but their technical writing and support efforts failed them. OK, I've rambled enough--Jim.

Re: HP 49g

*Message #4 Posted by **J.C. Randerson** on 25 Feb 2003, 8:26 p.m.,*

in response to message #3 by James Stephens

"...the keyboard is still high in quality..."

Bull$%#&!!! I had not one, not two, but three sets of HP49 keys go bad on me. Indeed, it was the sorry, low quality of keys that finally made me to quit using the HP49.

" It is rugged (it's a *real* hp) and capable enough (especially in RPN mode) for professionals. HP's designers really did succed in creating a machine to please everyone, but their technical writing and support efforts failed them."

Horsefeathers! Wait till your key markings wear off, your case starts coming apart, and that awful upper screen scratches from no apparent cause. In addition, there were so many bugs in the OS and CAS that users abandoned the machine in droves.

The HP49 was a colossal failure, from its amateur conception, hideous design, atrocious keys, poor programming, and shoddy production quality.

Believe it or not, I used to be a HP fanatic. I was one of those who initially championed the HP49. As a long time HP user I thought it would be a dream machine. But, it failed me every chance I gave it. I'm done with it, I'm glad HP cancelled it. And I sure as heck don't trust the new "Carlyized" HP to produce anything better. - J.C. Randerson

Re: HP 49g

*Message #5 Posted by **Michel Beaulieu** on 25 Feb 2003, 9:11 p.m.,*

in response to message #4 by J.C. Randerson

I use a HP-49G at school often since 2 years and i didn't have any of these problem... But you're right : the keys feeling/feedback is not very responsive - it's "spongious" like (but no problem with non-contact or bouncing). I prefer the keys on my 41cv... :-)

The only real inconvenient i can see is that it miss the "expandability" of my 41cv or the 48 IR

Re: HP 49g

*Message #6 Posted by **Nick Nicholas** on 26 Feb 2003, 1:18 a.m.,*

in response to message #3 by James Stephens

I agree with your comments, especially regarding the part on the documentation. HP had no hope of selling these machines unless it came with some quality instruction manuals on how to utililize the features of the calculator.

I am surprised that there is minimal help built into the calculator, which would have made learning it easier.

I am not sure why people are complaining about the screen cover. The HP 48 did not have a screen cover so any damage on the screen would have been permanent. What HP should have done was to make the screen cover replaceable so that a new screen cover could be installed if the existing one was scratched or damaged.

The HP 49G has more memory and especially flash memory compared with the 128 KB in the HP 48GX. Has anyone tried to obtain memory cards for the HP 48GX?

Even with two memory cards installed in the HP 48GX, the software to make the functionality of the HP 48GX similar to the HP 49G would have to be installed into one of the memory cards and the functionality would probably be not as good as the HP 49G.

For me the most significant negative aspect was the omission of the infrared ports that would have allowed printing to the infrared printer and wireless communication with other HP 49G's or HP 48GX's.

On the balance, I think the HP 49G is an improvement over the HP 48GX but it was truly unfortunate that the infrared ports were omitted.

Re: HP 49g
*Message #7 Posted by **J.Manrique López de la Fuente** on 26 Feb 2003, 12:47 p.m.,*
in response to message #1 by Joe Dirt

Discontinued? As far as I know, it haven't been discontinued yet..

Best regards,

J.Manrique

#1077 HPCC Member

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hp-25 pressing 1 displays 3?
*Message #1 Posted by **Rodney** on 25 Feb 2003, 11:37 a.m.*

On my hp-25, when I press the number 1, it displays a 3. Is there anything that I can do to fix this?

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Re: HP 41 Battery Pack
*Message #1 Posted by **Steve** on 25 Feb 2003, 9:53 a.m.*

I have a pack (1992 vintage) that is marginal, so yes, I would be very interested in pics and info on rebuilding the pack. Thanks!

Steve

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Solve/Integrate Algorithms
*Message #1 Posted by **Patrick** on 25 Feb 2003, 1:57 a.m.*

Back in the days that I used to devour everything to do with HP calculators, I remember one of the HP Notes issues which contained a summary explanation of how the Solve and Integrate algorithms worked. If I remember correctly, they were (justifiably) proud of the Integrate feature wherein the function could be undefined at the endpoints of integration.

I'm wondering now, seeing a number of emulators available, whether these algorithms have ever been published in a more detailed form? If an emulator uses a ROM, then I guess there's no coding needed. But if it is a non-ROM emulator, then what would the author do to emulate these functions?

Re: Solve/Integrate Algorithms
*Message #2 Posted by **Mike (Stgt)** on 25 Feb 2003, 6:03 a.m.,*
in response to message #1 by Patrick

In the PPC-ROM manual is a good description of the Romberg integration. AFAIK there is a PDF/scann of the manual out there somewhere.

Hope this helps

Ciao.....Mike

Re: Solve/Integrate Algorithms
*Message #3 Posted by **Ex-PPC member** on 25 Feb 2003, 9:32 a.m.,*
in response to message #1 by Patrick

There are several sources for the details of the algorithm:

- the HP-34C Owner's Handbook discusses it at lenght, giving a lot of useful information

- the HP-15C Advanced Functions manual also discusses it very thoroughly

- the HP-71B Math ROM manual, ditto

and for the most comprehensive, detailed exposition, look at this article, written by the very creator of the algorithm:

"Handheld Calculator Evaluates Integrals" by William M. Kahan

Hewlett-Packard Journal, August 1980

All those manuals and article are available in the CD set you can obtain from this Museum of HP Calculators, follow this link:

MoHP CDs

More precisely ...
*Message #4 Posted by **Ex-PPC** on 25 Feb 2003, 9:35 a.m.,*
in response to message #3 by Ex-PPC member

The exact reference for the article is:

HP Journal, August 1980 Vol. 31 No. 8

HP-34C

pages 23-32 Handheld Calculator Evaluates Integrals

- The HP-34C is the first handheld calculator to have a key that performs numerical integration almost automatically. It may change your attitude towards what used to be regarded as a dreary tedious task.

by William M. Kahan

reference taken from Craig Finseth's site

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HP 55
*Message #1 Posted by **Erik Madsen** on 24 Feb 2003, 11:35 p.m.*

Where can I find a replacement battery door for a HP 55 calculator?

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how do i give a 25c a bath?
*Message #1 Posted by **db(martinez,california)** on 24 Feb 2003, 10:28 p.m.*

i found a 25 c at the flea but it was stored with the battery in it. sad. there is green spooge on the pcb traces. i am not sure if this is connected but; half the keys are stiff or unmovable too. i have little hope for it but i'd like to clean it up anyway. i think i remember someone saying a vinegar bath will neutralize battery stuff. is that ok? is there anything else i should bathe it in before, after, or instead? how long can i leave it in? i have learned not to leave a calc in alcohol for over a day. it's bad for the screen. thanks in advance.

Re: how do i give a 25c a bath?
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 25 Feb 2003, 12:17 a.m.,*
in response to message #1 by db(martinez,california)

Hi, D.B.; howdy?

I used alchool vinegar in many situations to remove alkaline residual durty (acid + alkaline (base) = salt + water), tepic temperature to speed the process. I used this technique a few days ago with an HP27 that was actually dead; now it's completely alive, but the keyboard is not working. In fact, it belongs to a contributor in here and I need to send it back to him... I want to just to put the keyboard in working condition before sending it back (first row fails a lot). I removed the IC's (hard job... and worth the effort) and a few surrounding components. Green stuff everywhere, mostly under the IC's (no visible). The HP27 uses the sama HP25's base board, but has only two IC's insterad of the three that comes with the HP25.

It's a bit time consumming but worth the job. If having a working HP25C is the prize, then... go for it!

Best regards.

Luiz C. Vieira (Brazil)

Re: how do i give a 25c a bath?
*Message #3 Posted by **db(martinez,california)** on 25 Feb 2003, 7:56 p.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

thanks luiz and howdy to you too. i'm ready to start but: what do you mean by alcohol vinigar? a mixture of alcohol and vinigar or is that a direct translation of a way youall describe a type of vinigar? i have some 70% isoprppyl alcohol, some 5% (50 grain) table vinegar but i can get something else if it will work better. i've also got a bottle of cristal brand aguardiente that i got in columbia but i don't think all the exess sugar will do the 25 any good.

and as we say out here in the west: happy trails to you - d

Re: how do i give a 25c a bath?
*Message #4 Posted by **Vieira, Luiz C. (Brazil)** on 25 Feb 2003, 10:23 p.m.,*
in response to message #3 by db(martinez,california)

Hi, D.B.;

now I'm in the corner: I know vinegar is mainly obtained from wine, but I have bought Apple vinegar and Alcohol (learning, learning...) vinegar. It's composition is not specified, but it smells as vinegar with alcohol. The only inscription it has is:

Ascetic Leavend of Alcohol (Fermentado Acético de Álcool)

Does it help anyway?

Best regards, my friend.

Luiz C. Vieira - Brazil

Re: how do i give a 25c a bath?
*Message #5 Posted by **db(martinez,california)** on 27 Feb 2003, 11:59 p.m.,*
in response to message #4 by Vieira, Luiz C. (Brazil)

luiz; i tried vinigar and it turned blue from all the corrosion. i took that as a good sign. all but three keys feel good now but it dosn't work.

all; when i turn it on it either gives me a decapitated 8 or a decimal point on the right side or three decapitated 8's or dots evenly spaced across the screen. the characters are dim on a fully charged battery and bright with the battery in and the adapter plugged in. any ideas or should i just learn to like the way it looks in the glass case?

Re: how do i give a 25c a bath?
*Message #6 Posted by **Vieira, Luiz C. (Brazil)** on 28 Feb 2003, 1:03 a.m.,*
in response to message #5 by db(martinez,california)

Hi, D.B.;

Let me tell you what happened to me a few weeks ago.

I was sent four Woodstocks (not mine) so I would try to repair them. Two of them -HP22 and HP27- showed the same behaviour you mention: random display. The HP22 came back to life after a detailed cleanning procedure. In the HP27 I had to remove the logical set - two IC's - and clean under them. A lot of "cyan" crystals (copper oxide). I used tepid (+) vinegar and I could remove all visible oxide material. Voilá! Both are back to life. The other two are waiting for me for this next week.

There is a possibility of contamination in the display, too. I saw this sort of misfortune in two Spices, because batteries are right under the LED's display. You should inspect to see if the display is O.K. Better yet, you should try the display in another Woodstock, if you have one for testing.

I think there is still some residual between the IC's and the logical board. I must warn you that removing these IC's was not easy: these boards do not have metal-coated holes; instead they have small, thin metal rivets, and the IC's terminals will insist on keeping in contact with them. It's somewhat hard to remove, and in my particular case, there was oxide residual coating inner solder surface. I had to use sharp-edged clips so I could remove the IC's without dammaging the metal rivets. If you are willing to do this, just be carefull and pacient, will yah?

Having a Woodstock back to life worth the job, believe me. And I consider I have been fairly "gifted" (I was gifted a calculator without the need of a commitment to the repairing; I felt myself gifted with the gesture, too), mostly now that my friend's calculators are ready to fly back home.

I hope you have success. Let me know if you need something, O.K?

Best regards and good luck.

Luiz C. Vieira - Brazil

Decapitated "eight"
*Message #7 Posted by **Vieira, Luiz C. (Brazil)** on 28 Feb 2003, 1:10 a.m.,*
in response to message #5 by db(martinez,california)

Hi, DB;

I forgot to mention. The same segment on each diaplay is connected in the same copper trail, and each digit has a "common" pole. This allows the display to be "built" in a multiplexed way, say, each digits lights-up at its time, in a sequence.

If a copper trail for one specific segment is not in contact with the driver circuit (bad contact is the major cause), this same segment will not lit in all digits, O. K.? Is that what's happening?

Cheers.

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Hrastprogrammer's emulators for the 48gx
*Message #1 Posted by **Joe Edwards** on 24 Feb 2003, 10:17 p.m.*

Has anyone here use Hrastprogrammers emulators for the 48gx? Are they top-shelf? Thanks

Joe

Re: Hrastprogrammer's emulators for the 48gx
*Message #2 Posted by **Jeff** on 25 Feb 2003, 8:48 a.m.,*
in response to message #1 by Joe Edwards

I use his 42X emulator that emulates the HP42S. I find it extremely useful, and am glad he developed it. It has way more ram than a user is likely to ever need (either 32k or 96k, compared to 8k on a real one) and you can load and save programs. If you have a 48GX, it is cheaper to buy the necessary ramcards (from Klotz, at least) and the emulator program from HrastProgrammer than it is to buy a real 42S on eBay. The only downsides I can think of are that:
1. it cannot emulate the size and weight of a real 42S (that would be a pretty neat trick!)
2. you cannot transfer a 42S program that exists in the standard ASCII listing. All programs must be typed in the first time by somebody, somewhere on a 48GX running 42X. Once saved in 42X format, they can be transferred and uploaded by anyone running 42X, but the library of 42S programs cannot be directly transferred. This is not a fault of 42X. This could be overcome if a clever person developed a program or application (on the 48GX or PC) to convert such a program listing to the binary string representation of the program that 42X uses. Based on my limited understanding, the hex codes are the well known codes used by the 41C, which are compatible with the 42S.
If you have any more detailed questions, I would be glad to e-mail you directly to answer them.

Re: Hrastprogrammer's emulators for the 48gx
*Message #3 Posted by **HrastProgrammer** on 25 Feb 2003, 3:40 p.m.,*
in response to message #2 by Jeff

Well, when I will have enough free time (I really don't know if this will ever happen) and if there will be enough interest from users, I will write the necessary software to convert:

(1) RAW files to HP-41X card collection format
(2) ASCII files to HP-42X format
(3) LIF files to HP-71X card collection format (this will probably be the first one to implement)

This is not very complicated but I simply doesn't have enough time :-(

For example, (2) can be something like that:

```
...
var
  f1: TextFile;
  f2: file of Byte;
  Inst,Inst1,Inst2: string;
  n: Integer;
begin
  AssignFile(f1,'PROG42.TXT'); Reset(f1);
```

```
  AssignFile(f2,'PROG42.BIN'); Rewrite(f2);
  while not Eof(f1) do
  begin
    ReadLn(f1,Inst); Inst:=Trim(Inst);
    if Inst='' then Continue;
    if Inst[1]='"' then begin Write(f2,TextBytes(Inst)); Continue end;
    if Inst='STO 00' then begin Write(f2,$20); Continue end;
    ...
    if Inst='RCL 00' then begin Write(f2,$30); Continue end;
    ...
    n:=Pos(' ',Inst);
    if  n=0 then
    begin
      Inst1:=Inst;
      Inst2:=''
    end
    else
    begin
      Inst1:=Copy(Inst,1,n-1);
      Inst2:=Trim(Copy(Inst,Length(Inst)-n));
    end;
    if Inst2='' then Error('No argument');
    if Inst1='STO' then begin Write(f2,$91); Write(f2,RegisterByte(Inst2)); Continue
end;
    if Inst1='RCL' then begin Write(f2,$90); Write(f2,RegisterByte(Inst2)); Continue
end;
    ...
  end;
  CloseFile(f1); CloseFile(f2)
end;
...
```

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Yet another 41CX Display Problem...
*Message #1 Posted by **Spice_Man** on 24 Feb 2003, 9:01 p.m.*

I have a 41CX Halfnut that appears to function properly, except the lower half of the display is very very faint/light. Does anyone have any suggestions on what to try to fix or repair this? I tried reset ([<-] [ON], then release [<-]) which gives MEMORY LOST, which is normal, but still doesn't fix the faint display.

Much obliged! Spicey

Re: Yet another 41CX Display Problem...
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 25 Feb 2003, 12:07 a.m.,*
in response to message #1 by Spice_Man

Hi;

Maybe it is simply forced/bent in a way the lower part is dim. Have the calculator been opened and reassembled?

Just a guess.

Luiz C. Viera - Brazil

Re: Yet another 41CX Display Problem...
*Message #3 Posted by **Spice_Man** on 26 Feb 2003, 2:54 p.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

Hi Vieira! I opened and reassembled to try and fix, but to no avail. I cleaned the contacts, and even took another battery contact assembly from another calculator and tried it. I got the same result. Much obliged! Spicey

Re: Yet another 41CX Display Problem...
*Message #4 Posted by **David Smith** on 27 Feb 2003, 6:09 p.m.,*
in response to message #1 by Spice_Man

If you have the fullnut version with the removeable LCD module (you have to unsolder 16 connections), you can actually disassemble the LCD module itself and clean the internal connections. The HP41 service manual on the HPMUSEUM CDROM tells how. This should be a last ditch thing to do as you can wind up with more problems than you started with.

Also the modules from a fullnut 41C or CV will work in the CX as long as they have the two round blobs of epoxy on them... very early 41C modules with square blobs are not directly compatible.

Re: Yet another 41CX Display Problem...
*Message #5 Posted by **Spice_Man** on 28 Feb 2003, 1:58 a.m.,*
in response to message #4 by David Smith

Unfortunately its a halfnut, and looks like not much can be done about it. <sigh>

Spicey

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HP 41 Battery Pack
*Message #1 Posted by **Howard** on 24 Feb 2003, 8:48 p.m.*

I have a battery pack for my HP41. It came with the machine when I bought it. It has never been used. I don't have the charger for it. Do these packs deteriorate? What is the charging voltage and can you recommend a method of charging this pack. I don't want to go to the expense of buying a charger if the battery pack is shot. I have a battery charger for HP 45 and Hp 33C. Can I take leads off either of these and connect to the battery pack? If so what is the polarity? Thank you in advance.

Re: HP 41 Battery Pack
*Message #2 Posted by **Randy Sloyer** on 24 Feb 2003, 9:53 p.m.,*
in response to message #1 by Howard

Yes, all batteries have a finite life, even when not used.

If the pack is a rechargeable ni-cad (82120A), you'll need to re-cell it with 1/3 AAA cells as the original 1/2 N cells are no longer made. The proper charger is HP 82059B, output is 8 VAC @ 3 watts.

Re: HP 41 Battery Pack
*Message #3 Posted by **Steve** on 24 Feb 2003, 11:38 p.m.,*
in response to message #2 by Randy Sloyer

I have an 82059D charger with the same specs, I wonder how it differs from the B model? Also, where do you find 1/3 AAA cells? Is there an article on how to open up the 82120A?

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41C Display "Memory@@@@@@"
*Message #1 Posted by **Kris** on 24 Feb 2003, 8:20 p.m.*

Any suggestions about what's wrong?

Re: 41C Display "Memory@@@@@@"
*Message #2 Posted by **Renato** on 24 Feb 2003, 8:53 p.m.,*
in response to message #1 by Kris

This is a symptom of bad internal connection, usually due to broken screw posts or broken screw seats. Look at the very nice article about fixing a 41 at the article archive.

Re: 41C Display "Memory@@@@@@"
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 24 Feb 2003, 9:10 p.m.,*
in response to message #1 by Kris

Hi;

Renato pointed out a common procedure that, in most cases, work perfectly well.

But as you have a [MEMORY@@@@@@] display, intended to be a disguised [MEMORY LOST], I must warn about the possibility that you may also have cold soldering OR bad contact in some chips.

I have a fullnut 41C that does not work anylonger, and I surelly detected one ROM (ID 1LE908) that is faulty and, when installed in other calculators, shows the following problem:

- if you hold any of key you'll have a brief [CLX @ @ @] and [NULL @]
- if you use any key normally, it generates a [NONEXISTENT] message.

If you have the 1LA701 RAM as a fulty IC, [MEMORY LOST] is displayed constantly, and you'll see a brief blinking (should see it in some twisted angles against reflected light), one for each second (1 Hz).

If yours is a halfnutt, nothing of what's written above applies.

I would like to help, if I kow how.

Success.

Luiz C. Vieira (Brazil)

Re: 41C Display "Memory@@@@@@"
*Message #4 Posted by **Kris** on 25 Feb 2003, 3:49 p.m.,*
in response to message #3 by Vieira, Luiz C. (Brazil)

I got this 41 from a friend because it wasn't working. Reportedly dropped. The display shows darkened areas around the edges of the LCD. I separated the halves of the case and noted that two screws were stripped. Upon reassembly the display shows different characters. Guess I need to fix the screw seats. The display can be activated by pressing keys other than POWER. Anybody know how to reposition the short piece of black plastic that dislodged when I separated the halves. It apparently applies pressure to some component on the inside when the halves are reassembled. I am not speaking of the trim that holds the halves together. This piece is two inches long and is on the side behind the display.

Re: 41C Display "Memory@@@@@@"
*Message #5 Posted by **Vieira, Luiz C. (Brazil)** on 25 Feb 2003, 4:03 p.m.,*
in response to message #4 by Kris

Hi;

this small plastic piece is mounted in the top of the display and is intended to keep the LCD in place (the plastic piece itself feels a bit loose in place). There are two small "tabs" in one of the alignments. These tabs are intended to be in the outher side, say, you should see them after placing the piece.

I'd like to know if the darken areas around the edges are spot marks or sort of a frame. There are two types of HP41 construct as you can see below:

(picture unavailable)

If my explanation is not good, let me know and I'll add an image so you can "see" it in place.

Best regards and success.

Luiz C. Vieira - Brazil

Re: 41C Display "Memory@@@@@@"
*Message #6 Posted by **Kris** on 25 Feb 2003, 4:50 p.m.,*
in response to message #5 by Vieira, Luiz C. (Brazil)

The 41 is a Fullnut. The darkened area is within the margin of the area where the digits appear. It looks like a damaged etch-a-sketch.

Image needed - thanks
*Message #7 Posted by **Kris** on 25 Feb 2003, 4:52 p.m.,*
in response to message #5 by Vieira, Luiz C. (Brazil)

Yes, Luiz, I would like to see an image of the placement of the small plastic piece if it is not inconvenient. By the way, I sent a mag card to someone in Brazil a year or so ago. I wonder if it might have been you.

Re: Image needed - thanks
*Message #8 Posted by **Vieira, Luiz C. (Brazil)** on 25 Feb 2003, 11:16 p.m.,*
in response to message #7 by Kris

Hi, Kris;

try the image below:

(picture unavailable)

The upper image is shows the plastic out of its position, ready to be rotated. The mid image shows an intermidiate point and the last one shows the piece on its final position. You may place it directly, without rotating. I built the images like this just for showing the final, actual position.

I hope this helps.

About the card, what sort of mag card? For the HP82143A? I remember I received a pack of mag cards, but from another contributor in here: I do not mention names without previous consent, but he knows I know who is he.

Maybe another of our fellow contributors was the fortunate guy.

Best regards.

Luiz C. Vieira - Brazil

Oops... Typo!
*Message #9 Posted by **Vieira, Luiz C. (Brazil)** on 26 Feb 2003, 6:03 p.m.,*
in response to message #8 by Vieira, Luiz C. (Brazil)

Hi;

in my previous post, where it's written:

```
what sort of mag card? For the HP82143A?
```

please read:

```
what sort of mag card? For the HP82104A?
```

Thanks!

HP82104A
*Message #10 Posted by **Kris** on 27 Feb 2003, 5:20 p.m.,*
in response to message #9 by Vieira, Luiz C. (Brazil)

Mag card was from my HP41CV supply. Party in Brazil had posted a request on the Classified board wanting one card for testing. Apparently didn't have any cards at all. Surely you would remember if this had been you.

Re: Image needed - did it help?
*Message #11 Posted by **Vieira, Luiz C. (Brazil)** on 27 Feb 2003, 11:18 a.m.,*
in response to message #7 by Kris

Hi, Kris;

just to know if the image I added help you placing the structural piece. Need more advice?

Best regards.

Luiz C. Vieira - Brazil

Image was a big help. Thanks!
*Message #12 Posted by **Kris** on 27 Feb 2003, 5:14 p.m.,*
in response to message #11 by Vieira, Luiz C. (Brazil)

Yes the image helped. Thanks very much.

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so why did hp display from the left?
*Message #1 Posted by **hugh** on 24 Feb 2003, 7:02 p.m.*

is it because of the default 0.0000 fix 4 style? indeed, why was this adopted rather than suppressed zeros and why 4 when 6 digits (fix 5) would make more sense for engineers working at ppm tolerances.

just curious,

Re: so why did hp display from the left?
*Message #2 Posted by **gene** on 24 Feb 2003, 7:45 p.m.,*
in response to message #1 by hugh

Well, early HP calculators defaulted to fix 2.

My guess is that by starting numbers from the left, they didn't have to shift around the previously entered digit across the screen as more numbers were entered. Perhaps this required less programming or ?

Who knows. They pretty much could do what they wanted early on because there weren't any real standards...they were inventing them!

Re: so why did hp display from the left?
*Message #3 Posted by **Ernie Malaga** on 24 Feb 2003, 7:52 p.m.,*
in response to message #1 by hugh

Hugh:

HP calculators have always left-justified numbers in the display. Even the venerable HP-35 did it. As for why, it probably simplified the microcode of the earliest machines (which had very little ROM and RAM to work with, since it was so expensive). But this is just speculation on my part.

About the fixed number of decimals, the HP-35 was, for a few long yeas, the only one lacking it. Classic HP calculators invariably defaulted to FIX 2 when powered on; if you wanted anything else, you had to start pushing buttons. Then the 41C came out and changed all that to FIX 4.

Actually, I like the fixed display better than the automatic-zero-supression mode (named ALL in some calculators, STD in othes). It makes things consistent. Hey, at least now the calculators switch to scientific notation when the numbers get too small; the earliest HP calculators stayed in FIX 2, displaying a horribly misleading "0.00"!

-Ernie

Re: so why did hp display from the left?
*Message #4 Posted by **Ernie Malaga** on 24 Feb 2003, 7:56 p.m.,*
in response to message #1 by hugh

I meant to add this to my previous post:

Another odd thing about number entry in HP calculators is that multiple leading zeros are accepted and displayed. Virtually all non-HP calculators ignore further presses of the [0] key.

For example, press [0] [0] [7] to get James Bond in the display. Now do that on a Casio or TI. All you'll get is "7."

-Ernie

Re: so why did hp display from the left?
*Message #5 Posted by **Nenad Vulic (Croatia)** on 25 Feb 2003, 3:28 a.m.,*
in response to message #4 by Ernie Malaga

In one of the Woodstock manuals (HP21 or HP25, I do not remember which one) HP explained that the numbers on the display are entered from the left to the right just because this is the way you would write numbers on paper. Then they continued explaining that RPN system also follows the same way you would calculate on paper, etc.

Re: so why did hp display from the left?
*Message #6 Posted by **Glen Kilpatrick** on 25 Feb 2003, 11:39 a.m.,*
in response to message #5 by Nenad Vulic (Croatia)

I'll add that I would suspect numbers from the left side of the display as a recognition that most people are right-handed. If you type with your right hand, which side of the display is more likely to be masked by your hand? And when the new digit goes into the building number, what digit is furthest from any masking effects?

I vaguely remember that there was such a consideration as to the four-banger functions, and that's why the Classic, Woodstock, & Spice series had the functions +-*/ on the left side of the keyboard. What I don't remember is what argument was presented to migrate such over to the right side, Voyagers & Pioneers (& my venerable 48S).

The HP16C doesn't!
*Message #7 Posted by **Vieira, Luiz C. (Brazil)** on 25 Feb 2003, 5:35 a.m.,*
in response to message #1 by hugh

Hi;

being the unique of its kind, the HP16C shows a right-justified number input when it is in integer mode (HEX, DEC, OCT or BIN). Left-justify input is assumed (like other voyagers) when **FLOAT n** mode is selected. The HP28 and 48/49 show a different behavior: the numbers are entered in a left-justified command line, but are showed in a right-justified stack level. For all tastes...

I have the original HP25 manual and I found Nenad's (thank you!) valuable observation, on page 14, under **Keying In Numbers**:

```
Key in numbers by pressing the number keys in sequence,
just as though you were writing on a piece of paper.
```

What else to say? Cheers.

Re: The HP16C doesn't!
*Message #8 Posted by **HrastProgrammer** on 25 Feb 2003, 6:43 a.m.,*
in response to message #7 by Vieira, Luiz C. (Brazil)

> the HP16C shows a right-justified number input when it is in integer mode

HP-41C can do the same with Advantage module (BININ, OCTIN, HEXIN) ...

Re: The HP32Sii doesn't!
*Message #9 Posted by **Tom (UK)** on 25 Feb 2003, 12:34 p.m.,*
in response to message #7 by Vieira, Luiz C. (Brazil)

The HP16C is not the only one, the HP32Sii also displays non base 10 numbers (BIN,OCT, HEX) as right justified. Actually BIN mode spreads across several screens but normally displays the least significant bits as right hand justified when the number is less than 12 bits long.

Re: The HP32Sii doesn't!
*Message #10 Posted by **Vieira, Luiz C. (Brazil)** on 25 Feb 2003, 2:44 p.m.,*
in response to message #9 by Tom (UK)

Hi, Tom;

if I am not wrong (I used an HP32SII a long time ago...) it showns right justified integers, but left-justifies them when typing them in, right? Input numbers follow the same rule, what they are going to be is up to the user. Is it correct?

If it's correct, the HP32SII acts the same as the HP28/48/49.

Cheers.

Re: so why did hp display from the left?

*Message #11 Posted by **Bill Wiese** on 25 Feb 2003, 1:00 p.m.,*

in response to message #1 by hugh

HP LED calculators defaulted to FIX 2 mode (meaning 0.00).

Dunno about HP11C/15C, etc but the HP41C/V/X calc defaulted to 0.0000.

With limited ROM space in the first HP calcs (35, etc.) the code required to do floating display, etc may have been regarded as superfluous - and may have included HP design engineer's sense of significant figures (why carry a given calc out to N places if lots of your data is only good to 2 or 3 places, for example).

Also, on an LED display calc, defaulting to FIX 2 also saves battery life over displaying in FIX 4.

[An aside: If you've ever seen the library source code for the C function printf() you know that this is a fairly 'large' function compared to many others in libc, and the formatting code takes quite some space. In fact, on current C compilers targeted to small 8-bit embedded processors, there are sometimes several versions of the printf() function that can be linked to your code, with some having quite a few features removed (in many cases, floating point formatting) and consequently saving a few KB of ROM after linking.]

Bill Wiese San Jose, CA

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hp 71b
*Message #1 Posted by **Joe Edwards** on 24 Feb 2003, 4:13 p.m.*

This is a very general request for information. I read some of ex-PPC members info on the 71b (thanks). My questions is this; how useful is the 71b today, compared to the 41 series, 42s, and 32s? Is using a BASIC machine a waste of time, or does it still have usefulness left in it. Thank you.

Joe

Re: hp 71b
*Message #2 Posted by **Dave** on 24 Feb 2003, 4:42 p.m.,*
in response to message #1 by Joe Edwards

Reality- It is a hobby and the 71B has a neat implementation of HP Basic (a relic of bygone days). It would not be used today in any critical aplication due to speed, limited memory, and availabiltity of parts. Even when designed it was obselete and never attained significant sales.

The other units you mention are true calculators and can still function today since speed and memory are not an issue. Though parts and replacement issues are always an issue.

Re: hp 71b
*Message #3 Posted by **Ron Ross** on 24 Feb 2003, 5:07 p.m.,*
in response to message #1 by Joe Edwards

Well, this is only my opinion, BUT:

I feel all are great number crunching machines in their own right. However, I like the 42s best for its portability. That said, I like the 48G series best for their I/O and simple programmability (keystroke for me) and loads of built in features (lots of functions and conversions so my programming is still minimal).

But I feel that same type of argument applies to the older line 71b vs 41c as well (except that the 41c is indeed more versatile than a 42s simply because it did/does have I/O).

The 71b is a nice machine to use and WAS portable for its day. By today's standards, you would be much better served by an Hp100 or 200lx (unless you have equipment based upon the modules and interface bus of the older 71/41 line). However, its simple to implement BASIC and its calculator mode were unequalled by CASIO or Sharp, though the latter did make smaller and more portable machines. I don't believe it was ever intended to be a stand alone calculator due to its high price and I/O capabilities.

Cost and availability have narrowed down my calculator of choice to the 48G series. I use a 48G for all my work, because it has a quality keyboard, has all the features and functions I use (or I can easily download or write). And it is Cheap to replace should I need a replacement (so far, though I have spares). And this is/was important when I worked in the field.

That is no longer the case with any of the other calculators. I do not have a back up for my 71 (actually, I only collected this calculator, never really used it aside from simple comparisons). My 41c was a gift, and I do not have many accessories. My 42s was used heavily in school (upgraded from my 15c, also heavily used) and is still my preferred choice (and I have a single backup). For general RPN use, an Hp32s is great, but since it lacks real RAM, it can only perform simple customabilty (though it would probably be enough for me, I don't like being cramped). It is really no big step up from a 10c series in capability. I like my 15c much better than a 32s.

And while it is true that my higher end math can be done with my PC, unless I am documenting my calculations into a report, I feel better with my portable calculator. When I used to work in the field, a PC would be a nuisance vs a pocket calculator was an aid and a tool.

All things considered though, these calculators are being used by choice and not of necessity 95% of the time. Most calculator users could indeed do their work with a Ti or Casio with little penalty of functions. However, getting this bunch to accept this fact would be tough (90 % of us feel we are the upper elite and could not work with anything less than HP and that is probably not true for most of us). We are Calculator connoisseurs and do not want to settle for Mickey-Mouse calculators and just want the best available. Most of us could easily get by with another brand, if we were to abandon Hp and our knowledge base and learn a new calculator. Do we want to? No, most of us do not. If fact, the more I learn about the opposition (Ti, Casio, Sharp), the more I want to stay with my Hp's. But that doesn't mean those calculators cannot do what I need them to do.

However, those calcs cannot do what an Hp can be made to do. If I tackle simple research and do preliminary calculations for the sake of analysis, (or taking an EIT EXAM) there is no substitute for calculational Horse power (although plenty have passed the EIT's with calculators other than Hp also).

Most people are happy or satisfied with a cheaper calculator since it is now a commodity. The one percent who feel otherwise do not constitute a market to pursue. And that is why our Hp calculators are no longer available. That is the sad reality the we must face. I hope Hp will release a new RPN calculator with good quality, but I will not hold my breath.

Enough of my Rant.

71B rules! Nothing quite like it even today.
*Message #4 Posted by **Michael Meyer** on 24 Feb 2003, 10:06 p.m.,*
in response to message #3 by Ron Ross

Hi.

The HP-71B was my hobby during med school. I didn't always have money to eat (and ate leftovers from hospital trays), but when the HP-71B came out, I had to have one. I never regretted the money spent.

The first time I held it and entered a BASIC program from the command prompt, I was overwhelmed with the power. Instead of using a big machine with a big monitor, I could program in the palm of my hand. With concatenation, an entire routine could be entered on one line (if desired).

Though it's been mentioned as an algebraic machine, I have several modes that do RPN well. One small program, with its keyboard overlay and written in machine language, provides a fast, powerful, and multi-featured RPN calculator. The HP-41 module provided another RPN calculator, as did its FORTH mode. Adding the calculator ability of BASIC from the command prompt, leaves 2 algebraic modes and three RPN modes. WOW! (I haven't seen this machine language RPN program mentioned here-- I think I got it from Joe Horn. An amazing program! Syntax: CALL RPN. It stays in that mode when turned on and off until the program was ended.)

To this day, I think it is incredible in its power and versatility. It blows away other calculators in speed, custom abilities, etc.

It'll do anything the 41 will do, and much, much more.

It may not have sold well, but with an open architecture and so many LEX files available, it's abilities are endless. New commands could be written in BASIC, FORTH, and even machine language.

A person could spend a lifetime and not know all of its capabilites, in my opinion.... (probably not unique to the 71, but far beyond unchangeable calculators...)

Just my opinion, Michael

Re: hp 71b
*Message #5 Posted by **HrastProgrammer** on 25 Feb 2003, 2:56 a.m.,*
in response to message #1 by Joe Edwards

In my opinion, after HP-48GX, HP-71B is the best HP calculator because it is totally open for (software and hardware) expansion. It's BASIC is extremly powerful, much easier for programming than RPL and can be easily expanded using LEX files. And if you need it, there is Forth for HP-71B, too.

HP-41C and HP-42S are the next ...

Re: hp 71b
*Message #6 Posted by **Christof** on 25 Feb 2003, 6:25 p.m.,*
in response to message #5 by HrastProgrammer

note that forth will cost you a pretty penny :)

Re: hp 71b
*Message #7 Posted by **Ex-PPC member** on 25 Feb 2003, 5:19 a.m.,*
in response to message #1 by Joe Edwards

Hi Joe, glad you liked my former posts on the HP-71B.

As for your request for info or opinions, I'll tell you the HP-71B is the one HP machine I use most of the time, even today. I do have all the others (41's, 42's, 32's, 15C's, etc), but the one I grab to do *anything* be it at home or out of it, is the HP-71B.

My HP-71B is fitted with nearly 210 Kb RAM, the Math ROM, the HP-IL ROM, the Forth/ Assembler ROM, and the Card Reader, and no other HP calculator can touch it, in sheer power, ease of use, manufacture quality and versatility. Why ? Let's see:

1. **Manufacture quality:** it is *extremely* robust, strong, durable. It has real HP keys, molded (not painted), with the usual HP colours and quality, as found in the Voyager series, for example, not cheap plastic, painted, garish-colours affairs. Those keys can stand any use and abuse, indoors and outdoors with ease. Matter of fact, my HP-71B is

the only calculator/computer I can trust to work reliably under extremely cold and humid conditions, mountains in winter, for instance. After nearly 20 years, it still looks and works like new.

2. **Memory:** while a 32s has some 0.3 Kb or so, an HP-41CX can have up to some 6 or 7 Kb, and a 42S can be fitted with as much as 32 Kb, you can fit up to 512 Kb RAM/ROM combination in a 71B. I've seen machines with up to 400+ Kb, and mine has nearly 210 Kb. That's more than enough for most programming needs, even those involving data collection (surveying, geophysical engineering), and you can handle really large systems of equations and matrices with that much memory. Compared to that, a 42S simply does not deliver the goods.

3. **Expandability:** unlike the almost non-I/O 32S/42S, you can fit dozens and dozens of devices to an HP-71B, via the HP-IL module. This ROM can handle up to three IL loops, with scores of devices on each one, and can transmit data in excess of 5,000 bytes/second. You can use digital tape drives, floppy disks, control other HP-71Bs or even HP-41Cs, and using the HP-IL/HP-IB interface card, you can even access and control files on a PC !! The HP-IL ROM features some 50 keywords (which extend BASIC, written in assembly, of course) which allow you to do most anything I/O-related you may want. Just ask Tony Duell ! :-) Matther of fact its HP-IL controller capabilities are so good that the HP-71B has been used and is probably still used inside HP as a controller for their expensive digital measurement devices (multimeters, oscilloscopes, etc).

   If that wasn't enough, you can use the attached card reader to write/read programs and data without any HP-IL mass storage devices in sight.

4. **Ease of use:** The HP-71B features one of the best BASIC dialects ever. It comes with more that 240 keywords, and features such advanced capabilities as a whole file system which allows multiple files in RAM, multiline user defined functions, named subprograms, recursivity, passing parameters by value and reference, user-selectable precision for numeric arrays, two-dimensional matrices, strings, 12-digit IEEE precision with NaNs', infinities, and gradual underflows with denormalized exponents, programmable timers that can turn off and on the machine or interrupt execution at specified intervals, etc.

   As such, it's extremely easy to write programs using it, even very complex ones, and what's better, you *can* understand and modify your own programs months or years after you wrote them. I guess that no matter how much we like or love RPN, it's far too cryptic when compared to English-like, BASIC statements, not to mention RPL.

5. **User-expandability:** the HP-71B allows you to program it in at least four languages: BASIC (native), RPN (HP-41C translator, runs some 7 times faster than the real thing),

FORTH (runs 6-10 times faster than BASIC) and Assembler (full machine speed).

In this regard the HP-71B is almost unique in that it allows the user to add his/her own BASIC keywords to the already existing ones, in assembly, undistinguishable in use, appearance and speed, from the built-in ones. For instance, I've created a LEX (Language EXtension) file that adds some 40 very powerful keywords to the BASIC. Once created, you can share this file with any other HP-71B, use the keywords in your programs, etc. Also, most ROMs add their own keywords, such as the 50+ added by the HP-IL ROM, the 85+ added by the Math ROM, etc. That why you'll find yourself with hundreds and hundreds of extremely powerful, assembly-language high-level BASIC keywords at your command.

6. **Open:** Full documentation is available for the HP-71B, including the complete, documented, commented listings for the 64 Kb operating system, with thousand of supported entry points exhaustively documented for use in your own assembly-language routines. You can use those entry points as subroutines in your own keywords, and you can even modify the way the built-in keywords work, by means of intercepting polls, so further customizing even the built-in BASIC language to your needs.

I could go on, and on, and on, I haven't mentioned the incredible CALC mode, the 15-level command stack, the user-definable keyboard and character set, the graphic, dot-addressable display, but the summary is clear: there is no other HP machine which can touch the 71B. Some may have more memory, some may be smaller, some may be faster, none is more rugged, none is more extensible, none has all those features to such a high degree in the same, very machine. Of course, it isn't perfect, it could use at larger display, for instance, but then nothing is.

As for use, I use it daily, from balancing my checkbook to keeping personal data, to playing what-if with my IRS data (far from a non-secure PC environment), to gathering geophysical data high on a mountain, at -20. I would trust no other HP calculator/computer to perform flawlessly and reliably under such environmental circumstances.

Another opinion ...
*Message #8 Posted by **Ex-PPC member** on 25 Feb 2003, 9:16 a.m.,*
in response to message #7 by Ex-PPC member

By the way, you may find interesting to read the very opinion of Steven T. Abell, one of the 'fathers' of the 71B:

Steven T. Abell's on his creature

I think it's an exceptional document, and clearly shows that even back then, HP wasn't the HP we all knew and loved. At least it seems Steven was on the verge of calling names, and seems to me this was the beginning of the bitter battle between engineers and marketing people. Not that we don't know pretty well who lost ...

Re: hp 71b
*Message #9 Posted by **kim holm** on 25 Feb 2003, 3:33 p.m.,*
in response to message #7 by Ex-PPC member

So I finally figured out who ExPPC is, I have wondered..

Tony. Thank you for you 'morbituary' I'm a 71B user and collector and had to print your posting. It will go into my 71B binder.

Thanks as well for the link to the 'flame', that goes into the same chapter

I saw that you responded to the other 71B question. Do you have a means of others looking into the LEX files you have saved. I'm looking for the RPN on/off LEX that was mentioned here and I remember from my time in university that there were a LEX file that could extend the depth of the COMMAND stack. I would love to have that one (anyone..?)

Best regards

Kim

Nope, don't think Ex-PPC is Tony
*Message #10 Posted by **Gene** on 25 Feb 2003, 5:12 p.m.,*
in response to message #9 by kim holm

I know who he is, but have never been quite sure why he hides behind the appellation of Ex-PPC'er, but that is his wish. Regardless, I appreciate his contributions. :-)

Re: hp 71b
*Message #11 Posted by **Ex-PPC member** on 26 Feb 2003, 4:49 a.m.,*
in response to message #9 by kim holm

I'm glad, too, that you also liked my 71B's posting. I think it's pretty obvious that I like that HP model very much, and I've certainly created some interesting software for it, most of it unpublished yet.

As for the LEX file that could extend the depth of the COMMAND stack, it's actually quite easy to do in assembler. It is included in the LEX file I created, named EXTENLEX, among some other 39 commands which extend the built-in BASIC language with some very powerful and convenient capabilities, among them:

- Structured programming: REPEAT, UNTIL, WHILE, END WHILE, LEAVE, EXIT
- LCD display control and graphics: SDOT, CDOT, TDOT, LCD, BLINK, INVERT, CONTRAST
- New LCD font styles: BOLD, SMALL, NORMAL
- Powerful string functions: RPT$, REV$, REPLACE$, TRIM$, MEMBER, LWC $, LWRC$, SPAN, SBIT, SBIT$, ROT$, LTRIM$, RTRIM$
- LEX file control: ENABLE, DISABLE
- Editing aids: FIND, SETCMD
- Programming non-programable commands: EXECUTE
- concurrent, background-task clock on the display: CLOCK [ON/OFF]
- executing commands at turn-off: ENDUP, ENDUP$, STARTUP$

- peeking memory, even from PRIVATE files: NPEEK
- enhanced, power-saving keypress readout: KEYWAIT$

That's 40 BASIC commands and functions (22 statements, 18 functions, all programmable except FIND), all of them contained within a single LEX file exactly 4,047 bytes in length, which means you can store it in some IRAM (Independent RAM) area, safe from most MEMORY LOST conditions, even if the main RAM becomes corrupted (actually, it *did* survive a long battery removal which caused the rest of the main RAM to be lost). In the bare bones machine, it would still leave 12,687 bytes free for user programs, and would occupy a full 4K IRAM (leaving just 25 bytes free ! How's that for efficient space use ?)

I intend to publish it soon, in a web site of mine due within a couple of months, so that everyone interested will be able to key it in directly on a bare-bones 71B, no assembler, plug-ins or LEX files required. Then you'll have the SETCMD command available to extend the depth of the command stack (though you do *not* need a LEX file to do so, it can be done using a subprogram which doesn't require anything beyond the built-in functions).

And don't forget the JPCrom Lex file will be available soon
*Message #12 Posted by **Gene** on 26 Feb 2003, 7:45 a.m.,*
in response to message #11 by Ex-PPC member

This was one of the crowning achievements of 71B programming.

Manual and rom image will be online soon.

Gene

Re: hp 71b
*Message #13 Posted by **HrastProgrammer** on 26 Feb 2003, 9:52 a.m.,*
in response to message #11 by Ex-PPC member

As far as I know, almost all of these keywords are available in JPC ROM or can be download either as source code or LEX files from ftp://ftp.hpmuseum.org/lif/swap/ so I don't think they are unpublished.

Don't download the JPC ROM from that location
*Message #14 Posted by **Gene** on 26 Feb 2003, 10:28 a.m.,*
in response to message #13 by HrastProgrammer

The version that will be available soon is a very debugged version. The original JPC rom went through versions A, B, C, and even D, but still had some bugs.

The version soon to be available is a previously unpublished version "X" and will be up with the PDF of the manual.

Wait a short time and get the good version. :-)

Gene

> **Re: Don't download the JPC ROM from that location**
> *Message #15 Posted by **HrastProgrammer** on 27 Feb 2003, 2:19 a.m.,*
> *in response to message #14 by Gene*
>
> I have version D and I haven't experienced any troubles.
>
> What has been fixed in version X? Is source available?

Re: hp 71b
*Message #16 Posted by **Ex-PPC member** on 26 Feb 2003, 10:36 a.m.,*
in response to message #13 by HrastProgrammer

HP wrote:

"almost all of these keywords are available in JPC ROM or can be download either as source code or LEX files from ftp://ftp.hpmuseum.org/lif/swap/ so I don't think they are unpublished"

EXTENLEX is the one, unpublished LEX file, not the individual keywords taken separately. You might say then: "But we can use those published LEX files instead, right ?"

Yes, but if you add up the lengths of the individual LEX files necessary to implement all those same 40 keywords (12 of them), you'll discover that the resulting length is significantly *larger* than EXTENLEX's meager 4,047 bytes !

This isn't important just to save valuable RAM, but also because you can only "free-port" IRAMs in multiples of 4K, and thus any file over 4,072 bytes in length won't fit in a 4K IRAM and will force you to freeport an 8K one. That's precisely why I created EXTENLEX in the first place, optimizing it in such a way that it would fit in 4K as tightly as possible, and indeed it does, leaving just 25 bytes unused from the 4,072 bytes reserved.

On the other hand, using the individual LEX files means cluttering your CATalog with 12 separate LEX files, using significantly more precious RAM, taking an 8K IRAM, and forcing the operating system to waste time dealing with them (polling, etc) individually instead of a single, optimized LEX file.

It's also much easier to distribute and install this single LEX file with your programs which use it, instead of a bunch of separate, perhaps even conflicting files.

Re: hp 71b
*Message #17 Posted by **HrastProgrammer** on 26 Feb 2003, 3:52 p.m.,*
in response to message #16 by Ex-PPC member

> EXTENLEX is the one, unpublished LEX file, not the individual keywords taken separately.

Sorry, I haven't read carefully :-(

Excellent work to squeeze all of them into 4K. I am always excited when I see good and efficient programming.

Regards.

Re: hp 71b
*Message #18 Posted by **Chris(FLA)** on 26 Feb 2003, 8:04 a.m.,*
in response to message #9 by kim holm

You can find a command stack increase LEX file here:

ftp://ftp.hpmuseum.org/lif/swap/chhu05/

cmd16lex.l71

You will have to strip the headers and trailing bytes of the file. I used a hex editor to do

this. I have downloaded and stripped quite a few of the LEX files available at this site.

BYTEFCNS: INDIR, PEEKB$, POKEB, REV$
CHRONOLX: CHRONO$, CHRONO
CLOCKLEX: CLOCK
COMLEX: CLOCK, CMDSTKQ, CMDSTK, CNTRSTQ, CRATEQ, DSP$, LOCK$, LRATEQ, PWIDTHQ, WIDTHQ
DATALEX: DDELETE, DINSERT, DRECORDS, EXPAND, RECLEN, SWAP
DATALEX: LTRIM$, RPT$, RTRIM$, STD$, TRIM$, KEYWAIT$
DATELEX: DATEADD, DATESTR$, DDAYS, DMY, DOW$, DOW, MDY
DSPLEX: BLD, BLINK, CLR, DOT, INVERT, LCD, MIRROR, NRMAL, SET, SMALL
FINDLEX: FIND
KEYWAIT: KEYWAIT$
HMSLEXP: HMS+, HMS-, HMS, HR
LISTLEX: LISTLEX

I have a few more that I have but won't list them here. Some are just different LEX files but do much of the same things.

CLOCKLEX is a nice hack that displays a small clock all the time in the upper right hand corner of the display.

Chris

Extending the Command Stack
*Message #19 Posted by **Ex-PPC member** on 27 Feb 2003, 4:32 a.m.,*
in response to message #9 by kim holm

Besides using the SETCMD keyword available in several LEX files, you can also do it right on a bare-bones HP-71B using the following subprogram. I've seen many versions of it, with different degrees of sophistication, but this is the shortest one which doesn't require any extra LEX keywords (such as RPT$ and REV$):

```
1000 SUB SETCMD(N) @ DIM S$[6*N]
1010 DEF FNR$(S$)=S$[5]&S$[4,4]&S$[3,3]&S$[2,2]&S$[1,1]
1020 A=HTD(FNR$(PEEK$("2F576",5)))
1030 FOR I=1 TO N @ S$=S$&"000300" @ NEXT I
1040 E$=FNR$(DTH$(A+6*N)) @ POKE "2F580",E$&E$&E$
1050 POKE DTH$(A),S$ @ POKE "2F976",DTH$(N-1)[5]
1060 END SUB
```

Notes:

- The line numbers are arbitrary, you can change them to whatever suits you
- The parameter **must** be an integer from 1 to 15, to set a command stack depth of from 1 to 15 entries. The subprogram does no range checking at all on this parameter, so you must ensure that you pass a correct value, else you risk corrupting memory and/or system addresses and pointers.
- This subprogram uses POKE to alter system addresses and pointers, which is inherently dangerous, so make extra-sure that you key in the subprogram exactly as shown, do not confuse the letter "S" with the number "5", do not enter the wrong hex addresses, etc. Else, you risk corrupting memory. Also, although execution is very fast, do not interrupt or abort the subprogram midway, lest the system becomes unstable.
- I would suggest that you back up important data in your machine before running this subprogram, just in case there's some typo or Murphy does his thing. Needless to say, you use it at your own risk, I can't take any responsibilities.
- Call it like this: CALL SETCMD(10), to configure a 10-level command stack. Upon execution, the newly configured command stack will be empty.
- Though theoretically you could specify a 16-level stack, the 71B operating system has a bug which makes using that depth unreliable. Stick to values from 1 to 15, 10 seems optimal to me.

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hp49g repair
*Message #1 Posted by **Philippe** on 24 Feb 2003, 3:38 p.m.*

Hi everybody ! I buy recently an new Hp49G on Ebay with "not power on" default. (ebay#802536491) HP France (yes i'm French, sorry for my poor english) does not repair unit not covered by warranty, so i have only one choice: calculator into the trash or try to repair myself (fortunatly i'm serviceman in mesuring equipment). So after opening my hp49g (drill the 6 burned plastic spot in battery compartiment, the two half body are just clicked) it's appair that the capacitor 1000µf 6v3 was dead (yes it's new !!)- i measure 1nF in my RLC Bridge. After remplacement by 470µF 6v3 Calculator works as new. This capacitor is located a the right bottom of the electronic board (the only one non CMS capacitor) My calculator Serial number is CN11200858. If you have trouble with your HP49g, try this repair solution and let me know the result... Thanks to Hp museum for your fantastic works Regards Philippe from France

Re: hp49g repair - Good info!
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 25 Feb 2003, 6:24 a.m.,*
in response to message #1 by Philippe

Hi, Philippe;

I read your post and I found it alot usefull.

Thank you for sharing this valuable info. I have an HP49G and I'll try your procedure, if needed.

Best regards.

Luiz C. Vieira - Brèzil

Re: hp49g repair - Good info!

*Message #3 Posted by **Philippe** on 25 Feb 2003, 4:15 p.m.,*

in response to message #2 by Vieira, Luiz C. (Brazil)

Thanks Luiz C. The voltage across this capacitor is the battery voltage. If when you push the on key, the voltage drop below 3volts the capacitor is "tired" or dead. With oscilloscope, no noise between +/- of this capacitor. Regards from France Philippe.

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powering the 9114B Disk drive by AC only ... thoughts?
*Message #1 Posted by **gene** on 24 Feb 2003, 1:29 p.m.*

Andy: I power my cassette drive using a variable DC power supply set to ~5V. I connect it to the cassette by clipping aligator clips to the battery contacts. It powers the tape drive perfectly. I'm certain you could do the same thing with the 9114 (if you still have it). Just figure out the voltage that the battery was.

Gene: I'm thinking of trying to run my HP-IL 9114B disk drive using a scheme similar to the one above. Does anyone here have the power information to know what I should buy to do this? I have an HP-IL drive, but no battery.

Ideas? Help!

Re: powering the 9114B Disk drive by AC only ... thoughts?
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 24 Feb 2003, 2:53 p.m.,*
in response to message #1 by gene

Hi;

for a better, stable operation AND to maintain the unit working with a power loss, I'd suggest you to build a mini UPS, say, a power supply with rechargeable batteries inside and a convenient power charger and power monitor. You could use it connected to the AC line or not, depending on both indicators: the 9114B itself (the three-LED's indicator) and, if you decide so, the one built in the UPS.

I believe four 1,600mAH NiMH batteries would do fine, as the original 9114B battery pack uses acid-type (gel) batteries. That's why the User's Manual suggests operating the unit with the charger constantly connected to the AC line, as it haoppens with car batteries.

Think that you may be writing data to the disk at a power loss. No harm for the equipment, and as mentioned before, no harm to the midia itself. You'll have to repeat the procedure, no matter. As the HP41 is portable and operates free of AC line, I think the 9114B should also be as portable.

My US$ 0.05

Luiz C. Vieira - Brazil

Re: powering the 9114B Disk drive by AC only ... thoughts?
*Message #3 Posted by **Christof** on 25 Feb 2003, 6:34 p.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

I think in the end I'd prefer the 6V SLA over nicads .. partly because it will operate so well with trickle charging.

In fact, i've though about how hard it would be to switch the printer over to a similar system....

Re: powering the 9114B Disk drive by AC only ... thoughts?
*Message #4 Posted by **Vassilis Prevelakis** on 26 Feb 2003, 2:53 p.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

```
Vieira, Luiz C. (Brazil) wrote:
> I believe four 1,600mAH NiMH batteries would do fine, as the original 9114B
battery
> pack uses acid-type (gel) batteries.
```

Here we go again.

If a machine uses lead-acid batteries then the charging ciruit is incompatible with NiMH batteries.

We have been through this before. The only reason that the 9114 battery pack doesn't blow up in your face is that the wimpy HP charger cannot deliver enough current.

If you go to a decent battery shop, you will be able to buy lead-acid batteries in all kinds of sizes. Although Panasonic no longer sells that particular size, there are equivalent batteries from other vendors (e.g. Powersonic), or you can use a slightly smaller battery that will fit in the battery pack.

Now, assuming you do not have an original battery pack (which means that you lack the charging cicruit as well).

In this case, I'd recommend either a bench power supply, or a battery pack (which you can charge separately, i.e. not connected to the 9114).

I wouldn't use a 12V power supply (as sold in e.g. Radio Shack) because some of them are not meant to drive electronics directly. Such power supplies are used to power 12V devices like car radios that have circuitry that stabilizes the power input.

**vp

Re: powering the 9114B Disk drive by AC only ... thoughts?
*Message #5 Posted by **Vieira, Luiz C. (Brazil)** on 26 Feb 2003, 4:27 p.m.,*
in response to message #4 by Vassilis Prevelakis

Hi, Vassilis;

I based my sugestion on using the NiMH cells only with the complete external charger, as you may read in my post's paragraph right before the one you mentioned. I'd never suggest using the NiMH in place of the lead-acid; charging characterеistics are different, I know. My suggestion for the 1,600 mAH was for the current delivery (I'm even not sure if spin motor start current will be held by the NiMH cells; have an idea?), and I did not express this worriness completely, as you mentioned.

I agree with the fact that this particular issue should be clearly expressed, as you have surely done.

Thank you and best regards.

Luiz C. Vieira - Brazil

Re: powering the 9114B Disk drive by AC only ... thoughts?
*Message #6 Posted by **Christof** on 25 Feb 2003, 6:31 p.m.,*
in response to message #1 by gene

no battery... does that mean no battery holder?

if you have a battery holder, you could do what I just now finished doing - hook up a larger 6V SLA battery external to the case.

even without, the same thing can be done.

I suppose it's no problem to use the power supply straght in to the machine, though.

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HP 41-CX no power up
*Message #1 Posted by **Bruce G.** on 24 Feb 2003, 12:59 p.m.*

My HP 41-CX will not power up. Any time I press the power button it just beeps. I have checked the contacts and put new N cells in, checked the cell polarities twice. Did a PWR/ENTER reset, tried removing cells overnight, tried removing the Advantage module, tried shorting the battery contacts in the calc, still nuttin.

Is it just a display issue, that is, the unit is powering up but the display is dead?

Anyone have any suggestions on other things to try? I am not really familiar with these units, I still use a 21 myself.

Thanks in advance for any ideas or suggestions.

Regards,

Bruce G.

PS if emailing, don't forget to take out the TRASH.

Re: HP 41-CX no power up
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 24 Feb 2003, 1:16 p.m.,*
in response to message #1 by Bruce G.

Hi;

maybe it's just a typo, but the HP41's reset is not

```
[ON][ENTER]
```

Instead it is

```
[ON][<-]  (left-arrow)
```

If you did it right, just forget it.

Anyway, if it is beeping at the [ON] key, try the following:

1- keep e fast finger over the [R/S] key
2- press and hold [ON] key
3- release [ON] key and, as fast as you can, press [R/S] key (do not use physical force, just a fast tap)

If it is a bad running program, you may stop it. A program like this would do that:

```
LBL 00
SF 11
OFF
GTO 00
```

This pogram sets the auto-RUN flag (SF 11), switches the calculator OFF, and when it is switched to ON, it will jump to LBL 00 and start all over again.

Success.

Re: HP 41-CX no power up
*Message #3 Posted by **David Smith** on 24 Feb 2003, 6:25 p.m.,*
in response to message #1 by Bruce G.

To see if it is a display problem, try the keyboard BEEP command. If it plays a jaunty little tune, your problem is in the display.

Re: HP 41-CX no power up
*Message #4 Posted by **Bruce G** on 24 Feb 2003, 8:38 p.m.,*
in response to message #3 by David Smith

Gentlemen,

Thanks for your tips, Unfortunately neither one changed the situation. The keyboard BEEP command netted nothing so the problem must be deeper. Hitting the R/S key immediately following the on key release was unsuccessful also. I guess this is now a parts calc.

Thanks again.

Regards,

Bruce G.

Re: HP 41-CX no power up
*Message #5 Posted by **Vieira, Luiz C. (Brazil)** on 24 Feb 2003, 11:33 p.m.,*
in response to message #4 by Bruce G

Hi;

is your HP41CX a fullnut or a halfnut?

If you do not know the difference, look at the picture below.

(picture unavailable)

If you really believe it's a parts calcualtor, I'm interested on it mostly if it is a fullnut. Anyway, if you do not give up, I'll help you putting it back to business.

Let me know what you want to do.

Best regards and success.

Luiz CV. Vieira - Brazil

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15c "clicking and popping" keys
*Message #1 Posted by **Joe Edwards** on 24 Feb 2003, 12:12 p.m.*

I need some advice. I have a 15c that is in pretty good shape, BUT some of the keys when pressed produce a noticeable clicking or popping noise. Is this indicative of keyboard failure? Can it be repaired? Or is it just a mild annoyance. The cals serial number shows a 1983 construction date, so it is 20 years old. Any advice? Thanks.

Joe

Re: 15c "clicking and popping" keys
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 24 Feb 2003, 1:07 p.m.,*
in response to message #1 by Joe Edwards

Hi;

I have observed this sort of behavior with another associated fact: are the so mentioned keys with a soft-touch feeling as well? If so, chances are you have the probel described below.

I have an old HP15C that has the "clicking and popping" sound plus a soft-touch feeling in about four keys. I also observed the same behavior in a recent Indonesian HP12C. Just an information: all Voyagers, like the HP41, have a rubber sheet (a bit thick) between the keys and the key contacts. Previous models (Classics, Woodstocks, Spices) have a plastic sheet, and some new ones (HP48) have nothing but the keyboard assy itself.

I disassembled the HP12C's keyboard and noticed a few holes under the affected keys, right below the centered pin that actually presses the upper part of the contacts. Well, the keys "stuck" in this hole, causing the "soft-touch" feeling and delaying the contact itself. Noise effects are granted.

Well, that's what happened with my Voyager. I covered the holes with silicon rubber and applied a small, thin plastic sheet over it and rebuilt the keyboard. Not the best solution" (it's not quite good), but I'm gonna cut a new rubber sheet and place it there. I just want to find the

best material. I'm collecting suggestions.

I did not open the HP15C's keyboard so far, but I'm getting used to the sound and "soft-touch" feeling.

Best regards and success.

Re: 15c "clicking and popping" keys
*Message #3 Posted by **Ron Ross** on 24 Feb 2003, 1:40 p.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

Luiz,

How well would a modern 12c work to repair a valuable 15c?

I would hate to see a 15c tossed into the boneyard as long as a 12c could be an organ donar to keep such a valuable calculator alive.

Re: 15c "clicking and popping" keys
*Message #4 Posted by **Vieira, Luiz C. (Brazil)** on 24 Feb 2003, 2:40 p.m.,*
in response to message #3 by Ron Ross

Hi;

depends much on the HP12C's internals.

If it is a Chinese with one button-type battery, I think there are no parts to be "donated", sorry. Even the LCD was mentioned to be not compatible because of the operating voltage. In fact, newer HP12C, Chinese type as decribed above, have a different "font type" in the annunciators, instead they keep GRAD and USER, that are only active when testing the calculator ([ON][+] or [ON][×]; this was one of the pilars that made me believe old voyagers would come back). Anyway, for the Indonesian models with three 1.5V button cells and one single IC inside, at least the LCD is compatible, if you donot care for the golden reflexive backplane.

Older models have an equivalent and compatible keyboard scanner together with the LCD module, but it applies only to earlier (first type) models, with two IC's. The keyboard scanner is common to the HP11C, 12C, 15C and 16C (I do not have an HP10C to check for it) and it proven to be fully compatible. I have soem scans I'll upload to a fellow's page and I'll post the address so anyone can download them.

About serial #: I have no information over this subject, but I know many Voyagers' back covers are tradable (I confused myself with three of them and I think I trded them up...) and information may not apply to some "refurbished" calcualtors.

Hope this helps a bit. If you need information about IC's IDs, e-mail me and I'll collect data about it. And post it, if applicable.

Best regards.

...and also...
*Message #5 Posted by **Vieira, Luiz C. (Brazil)** on 24 Feb 2003, 3:02 p.m.,*
in response to message #4 by Vieira, Luiz C. (Brazil)

.... if you do not consider only electronics, the rubber sheet is the same in all Voyagers. I cannot figure any key incription that would allow keys to be traded, except for these:

```
[ON]    [f]    [g]
[0]     [.]    [SIGMA+]
[SST]   [ENTER]
```

Also, the LCD protective "glass" and battery door (older HP12C)

I think nothing else is tradable.

Cheers.

Thanks for the information
*Message #6 Posted by **Ron Ross** on 24 Feb 2003, 3:19 p.m.,*
in response to message #5 by Vieira, Luiz C. (Brazil)

Thanks so much for the speedy reply.

If you allow me to...

*Message #7 Posted by **Vieira, Luiz C. (Brazil)** on 24 Feb 2003, 11:51 p.m., in response to message #6 by Ron Ross*

Hi;

I recently brought an HP15C back to life by using an HP11C's guts. I used the 11C's keyboard scanner IC, main/keyboard PCB and case (I had to remove and exchange the keyboard faceplates). The resulting HP15C is a fully working frankencalc!

I have an original HP15C and I keep the newest at home while I take the franken version with me. As the display bezel was a bit bent (a bit "ugly" bent), I took the chance of having it removed and I painted it in metallic gray... Hey, guys, please! It's easily removed with a thinner... I did that just to "mark" it, as I do not intend to sell it, O.K.? This is an HP15C with personality... and still has an ugly, bent, metallic gray, a bit scraped bezel. I'll put my innitials on it soon.

Anyway, Voyagers are not easy to destroy, that's the point. I removed the PQPF IC's and resoldered them with as much care as I had available, and the calculator responded "pronto" to the first battery insertion. I had problems with dirt in the conductive polymers, but after cleanning them carefully, the HP15C was ready to get the road.

Wanna give "your" babe a try?

Let me know.

Best regards.

Luiz C. Vieira - Brazil

Re: 15c "clicking and popping" keys

*Message #8 Posted by **karl schneider** on 25 Feb 2003, 12:25 a.m.,*

in response to message #1 by Joe Edwards

Joe --

Can you flex the calculator by pulling in opposite directions at opposite corners? If so, does the noise go away?

If this is the case, you might need to tighten the screws that fasten the case halves. I recently fixed my 1983 unit which had only one "clicking" key by tightening the four screws underneath the rubber feet.

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HP-67/97 to HP-41 translator Update

*Message #1 Posted by **Bill Hemphill** on 24 Feb 2003, 10:52 a.m.*

Update on the HP-67/97 to HP-41 instruction translator:

I have a first Beta version working. It will take a text input file of HP-67/97 instructions and create a new text file with HP-41 instructions. This file can then be fed into the HP41UC program to create RAW format files that can be executred on the emulator.

Currently, the translation is using the XROM instructions for the card reader. Therefore, to run on the emulator, you must have the card reader rom image installed in the emulator.

At this point I need a volunteer. I'm not sure if I am translating all variations of multiple digit numbers correctly. I need someone that owns a working HP-97. I need printouts of as many variations of numeric input as possible. I could then enter them into the translator and make sure it's catching all variations.

Is there someone in the Philadelphia, PA, USA area that has a working HP-97 and who could spare some time to let me enter as many variations as possible. I would really appreciate it.

I also need some more files of test programs with input data and results. I have entered a couple of programs from the HP-67 Standard Pac. I would like to test on as many programs as I can to make sure it is working correctly. Please contact me if you'd like to help out on creating some sample test files.

I want to especially thank Luiz Vieira. Luiz was kind enough to send me some scans of the HP-67 Standard Pac along with better scans of the Card Reader Manual. Thank you, Luiz, for your help and support.

Please contact me at bjh@vpes.com if you can provide some test files or would like a copy of the program for yourself. One warning - it is definetely Beta quality. Thanks for everyone's help.

Bill Hemphill

Re: HP-67/97 to HP-41 translator Update

*Message #2 Posted by **David** on 24 Feb 2003, 11:49 a.m.,*

in response to message #1 by Bill Hemphill

good work, I cannot wait to try it!

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Packaging of HP 49G
*Message #1 Posted by **Nick Nicholas** on 23 Feb 2003, 7:12 p.m.*

The HP 49G that I recently obtained included the user's guide, advanced user's guide, pocket guide, the 10 pin to 10 pin link cable, a 10 pin to 4 pin adapter, a PC adapter, a registration card and three AAA batteries. No name plate was included. I know earlier HP 49G's did not come with the advanced user's guide. Was that the only difference from the later packaging or were other items missing?

Re: Packaging of HP 49G
*Message #2 Posted by **Raymond Del Tondo (Germany)** on 23 Feb 2003, 9:14 p.m.,*
in response to message #1 by Nick Nicholas

Hi,

just to note another variation. The European Version of the 49G came in a box, and (at least) the U.S. version was packed in blister.

Raymond

Re: Packaging of HP 49G
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 23 Feb 2003, 9:25 p.m.,*
in response to message #1 by Nick Nicholas

Hi;

mine came from USA and the missing items are:

- AdvancedUser's Guide (the owner's manual mentions it can be downloaded and printed)
- PC adaptor (only 10-to-10 cable and 10-to-4 adaptor)

The name plate was aldo absent, and my brother told me he bought it in a blister, no box.

Cheers.

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Expensive Dual X-Memory
*Message #1 Posted by **Dave Mabry** on 23 Feb 2003, 5:28 p.m.*

Maybe this is just my imagination, but isn't this an extremely high price for this module?

Dual X-Memory module sold for $380

I haven't seen too many of these being sold, but this seems awfully high. What do you think?

...and it's another wrong information
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 23 Feb 2003, 5:44 p.m.,*
in response to message #1 by Dave Mabry

Hi;

the double X-Memory pack does not add 600 X-registers. EMROOM, an X-function available only in the HP41CX (the closest X-Function that returns free room in X-Memory is EMDIR), will show 600 X-registers ONLY, not an additonal amount. There are 124 already built in the X-Functions-memory module. Each X-Memory adds 238 registers, the double adds 476, and final count reaches 600.

Maybe the seller was not aware of what he wrote. Or it's a classical "I'm not sure about how to use it" case.

Oops! I feel flames and blames around...

Re: ...and it's another wrong information
*Message #3 Posted by **Dave Mabry** on 23 Feb 2003, 6:15 p.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

Hi Luiz,

You are correct that his description is not precise, but what he is selling is an X-Memory module that has been modified by someone (don't know if HP ever sold it that way) to include the equivalent of two "normal" X-Memory modules. So, when you plug it into a 41CX (or a C or CV with X-Functions module) the total will be 600 registers. So it is unique in the fact that it is two modules in one.

Still, $380? I'm just amazed.

Re: ...and it's another wrong information
*Message #4 Posted by **Vieira, Luiz C. (Brazil)** on 23 Feb 2003, 8:58 p.m.,*
in response to message #3 by Dave Mabry

Hi, Dave.

What you mention is 100% correct. And I remember reading that EduCalc had this sort of double X-Mem for sale (one of our recent contributors has one of this, and he recently repaired his HP41CX and now he can use it... Lucky friend, isn't he?).

What I actually mean is that the double X-Memory will effectively add 476 registers, and the seller claims it will show an **addition** of 600, what's wrong. Well, he has already sold the module, what else to say?

I have two X-Memory and I use each of them separately, one in an HP41CX and the other in a CV with X-Functions. Plugging them both in any of them allows me to read [600.0000] in the display after a EMDIR (or EMROOM in the CX). And they both together are the same as one double X-mem.

I'd like also to mention that the Double X-mem buyer spent a significant amount of money... I paid about US$ 80,00 for both X-Memory, thanks to a friend that was surely interested on seeing me with them, no profits at all.

Best regards.

Luiz C. Vieira

Re: ...and it's another wrong information
*Message #5 Posted by **Richard W. Smith** on 24 Feb 2003, 12:15 a.m.,*
in response to message #4 by Vieira, Luiz C. (Brazil)

Colleagues - Years ago I sent my HP-41C Quad Memory Module to EduCalc to have it combined with an X-Functions and X-Memory module (a tripple!), and then later, I bought one of EduCalc's offerings of a 2X X-Memory module (a double). As I recall, they cost around $225 for the triple and $200 for the double.

Regards

Richard W. Smith

Anyone today care to do some module doubling or tripling?
*Message #6 Posted by **Gene** on 24 Feb 2003, 7:26 a.m.,*
in response to message #5 by Richard W. Smith

How about it? I'm sure you'd have some fellow collectors who'd be VERY happy with you.

:-)

Gene

Re: ...and it's another wrong information
*Message #7 Posted by **Michel Beaulieu** on 24 Feb 2003, 9:39 p.m.,*
in response to message #4 by Vieira, Luiz C. (Brazil)

Yes i'm lucky :-) I had this module and didn't know the use for it since Luiz told me how to get it! the Double x-memory from educalc is also written "module service" but i don'tknow what it this use. Luiz is right : this module add to the existent x-memory up to 600 Reg.

So the price is very high for 2 x-memory in one module... Perhaps i should sell my module and buy 2 normal x-memory modules AND another HP-41CX, advantage module, math/stat with the extra money... :-)))

Good deal!!!
*Message #8 Posted by **Vieira, Luiz C. (Brazil)** on 24 Feb 2003, 11:36 p.m.,*
in response to message #7 by Michel Beaulieu

I support you, my friend.

(I'm preparing some stuff about your e-mail question and I'm sending it as soon as I have id ready, O.K.?)

Best regards.

Re: Expensive Dual X-Memory
*Message #9 Posted by **Joe Edwards** on 23 Feb 2003, 7:09 p.m.,*
in response to message #1 by Dave Mabry

Saw it. I was willing to go basically double what a single xmem rom went for, but $380.00 was incredible. WOW!!

If my calculation is right...
*Message #10 Posted by **Steve** on 23 Feb 2003, 7:37 p.m.,*
in response to message #1 by Dave Mabry

that's about $119,000/MB!

Steve

Re: Expensive Dual X-Memory
*Message #11 Posted by **David Smith** on 23 Feb 2003, 8:34 p.m.,*
in response to message #1 by Dave Mabry

Lets see, with a little luck you can snag an XMEM for $25 bucks or so. Double that and spend about 30 minutes with pry bar and a soldering iron... voila... about $300 profit.

Re: Expensive Dual X-Memory
*Message #12 Posted by **Johnny Billquist** on 24 Feb 2003, 7:31 a.m.,*
in response to message #11 by David Smith

And if someone is creative enough to bring out the soldering iron, he might as well go the whole way and build them into the calculator, and thus free up two ports, instead of just one.

Who knows...
*Message #13 Posted by **massimo** on 24 Feb 2003, 7:51 a.m.,*
in response to message #12 by Johnny Billquist

Does anyone know how to connect internally two x-memory modules?

Is it a good idea?
*Message #14 Posted by **Vieira, Luiz C. (Brazil)** on 24 Feb 2003, 11:05 a.m.,*
in response to message #13 by massimo

Hi;

I'm asking about this because I believe taht soldering an external module inside an HP41 will give us a "pack" of things (stuffs?) that became unstable. Yes, you know that soldering X-MOS (X = N, C, V...) is something to be avoided at all costs, even with the safest soldering equipment... mostly if the equipment being soldered has no replacement parts.

I prefer haveing my external modules and, the least as possible, trading them with stable, unchanged HP41's. I use two X-Memory and they are normally in two different calculators. The one mosule I'd like to have a pair (or spare) is the HPIL, because with it I can transfer files and there will be seldon situations where I'd need to trade modules for running programs. At least not so specialized programs.

What I believe is fair is the multiple ROM modules. As some of us have access to ROM images that are only usefull in the HP41 or in an HP41 EMU, these ROM images could be built inside one single module. One of our regular contributors was working on this subject a sometime ago (about a year) and the last new was that hes HP41 was able to communicate with the custom module.

I'm not sure I would wire-up some modules inside one of my HP41's, but I have two HP82106A (regular memory module) and I would open one of them to trade its "guts" for a quad ROM with, say, a CCD, a PANAME, a PPC and an Advantage

image at once... What? Can't I dare dreaming?

Cheers.

Luiz C. Vieira (Brazil)

Re: Is it a good idea?
*Message #15 Posted by **Johnny Billquist** on 24 Feb 2003, 11:49 a.m.,*
in response to message #14 by Vieira, Luiz C. (Brazil)

Good idea? Well, if you are soldiering two X-MEM together anyway, you are already "breaking" them up. Personally I don't consider X-MEMs that moveable. Unless you take great care, or move them together with an X-FUNC, things will not work out nice anyhow.

I did build in two X-MEM in my CX, along with the ZENROM, but this was about 15 years ago now.

Yes, it works, have been working fine all the time, and no, there are no big dangers in doing so.

The ZENROM was explicitly designed for building in to your HP-41, by the way. Preferrably at the same slot as the magnetic card reader.

Memory Doubling/tripling
*Message #16 Posted by **Meindert Kuipers** on 24 Feb 2003, 2:01 p.m.,*
in response to message #15 by Johnny Billquist

Back in the good old days I used to double (and on one or two occasions even triple) modules, or build them inside an HP41 for friends (for a nominal charge), typically in combination with a speed-up. This is not really a very big deal, you need a steady hand. Dangerous part is actually in cutting the modules. I still have some stock of empty module housings with connectors (no, I will NOT give them away!)

A few pictures are in my museum at www.kuipers.to/hp41 where you can see inside my HP41C with Quad MEM and TIME built in. Getting in more will be difficult. Just use thin wires and pick the right traces. I anyone is interested, I can make better pictures. Just mail me!

The biggest trick was always to build a tantalum cap in an XFUN/XMEM

combination. That would hold the contents for several minutes, enough at least to hand the module to a friend and have him copy the contents. This obviously only works when XFUN is not built-in. The first picture in my gallery actually shows a XFUN/XMEM combination with the tantalum cap!

Meindert

Re: Memory Doubling/tripling
*Message #17 Posted by **Johnny Billquist** on 25 Feb 2003, 9:03 a.m.,*
in response to message #16 by Meindert Kuipers

It might also be wise here to point out that most "normal" modules cannot be built together. "Normal" modules occupy memory in the processors memory space. The processor can address 64K. Each port has a designated 8K range allocated to it. If you put several modules together, they will occupy the same memory range, and won't work. Memory modules work in a different way, and therefore can be built together in other ways.

The ZENROM is a special case because it's only 4K. Normally, 4K modules use the lower 4K of a ports memory space. However, the ZENROM occupies the high 4K. And therefore, you can combine it with any other module, which only uses the low 4K. The magnetic card reader is such a module, and therefore it's perfect to build in on the same port as where the card reader is.

Re: Expensive Dual X-Memory
*Message #18 Posted by **Massimo G (Italy)** on 24 Feb 2003, 1:37 p.m.,*
in response to message #1 by Dave Mabry

Until now I thought that my $71.81 for a dual X-memory and math/stat module (3 in 1) were not so cheap...

I made a deal, after all!

Greetings,
Massimo

Re: Expensive Dual X-Memory
*Message #19 Posted by **Chris Catotti (Florida)** on 24 Feb 2003, 3:55 p.m.,*
in response to message #18 by Massimo G (Italy)

I have a dual X-Memory that was modified by EduCALC. If I thought I could sell it for that price, I would have to, just to suprise my wife wityh some extra cash.

In college I doubled a couple of modules for myself. I admit it would be harder to solder now, my 20-20 vision is more like 25-20 or 30-20, but it could still be done.

If there is much interest, I could locate the "Butcher lock" columns out of the PPC Journals and post them as an Adobe PDF.

Re: Expensive Dual X-Memory
*Message #20 Posted by **massimo** on 24 Feb 2003, 5:32 p.m.,*
in response to message #19 by Chris Catotti (Florida)

"Butcher lock" columns ??? I'm really interested to hw modifications... Let me know...

Building Double X-Memory
*Message #21 Posted by **Christoph Klug** on 25 Feb 2003, 5:38 a.m.,*
in response to message #20 by massimo

Hi X-Memory enthusiasts,

I build a double X-Memory module and described the complete procedere in Chapter XII of the nice I/O-Board manual (300 interesting pages about HP41 hardware interfacing and measurement applications).

If possible I will place Chapter XII to the HP-Museum articles forum.

Best wishes from Germany - Christoph Klug

Re: Expensive Dual X-Memory

*Message #22 Posted by **Diego Diaz** on 25 Feb 2003, 5:46 a.m.,*

in response to message #19 by Chris Catotti (Florida)

Hi all of you 41'ers

Yeah! HW makes my life go round!

Gimme something I can use an soldering iron on (or, even better, "in") and you'll make me happy.

Ok, I'll stop kidding...

When I first get a Quad for my 41C (back in the 80's) it goes almost directly inside the calc. I didn't solder it, (the internall appearence of my old fullnut seems so impressive to me that the mere idea of a solder stain in such a beautifully engineered "golden lines pattern" makes me feel sick) instead of that I built a "thin wire conector" and placed it between the I/O connector block and the keyboard PCB, thus the contact was made when the two halves were tighten back together.

It was running this way for years... up to the day CuSO4 started to "eat" the contacts (forgotten batteries: my fault) and I had to turn the Quad back to its plastic box... But this is another story.

You can place modules inside your 41 using this concept, I think it's much safer than messing with solder.

If there are any other(s) HW nuts over there (I guess they are) interested in the process I'm glad to offer my little support and knowledges.

Bye from the Canaries.

Diego.

P.D. Please excuse my English "crimes" :-)

Re: Expensive Dual X-Memory

*Message #23 Posted by **Johnny Billquist** on 25 Feb 2003, 9:07 a.m.,*

in response to message #22 by Diego Diaz

When I build in my ZENROM and two X-MEM, I removed them from their modules. The "chips" are small squares. I placed them in the small space along the sides inside the calculator, and used wire wrap gauge to attach them to the normal I/O connectors, just as if they had been inserted into the calc. I soldered those wires, but solering on the I/O connectors wasn't that bad or dangerous. And normal modules can still be inserted. The inner edge of the connectors are slightly "fatter", but that have not been any problem with any modules.

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Woodstock (HP-25) battery packs
*Message #1 Posted by **Robert Burnham** on 23 Feb 2003, 5:05 p.m.*

Got the battery pack apart and the leaky pair of NiCds removed. I notice that one end of the batteries has been soldered together with a strip to connect + to - .

When I reload the pack with new batteries, is it necessary to have the new batteries similarly connected? In other words, will the tensioning spring at the foot (non-contact end) of the pack work as an electrical bridge between the two batteries by itself -- or must the strip also be attached to guarantee good electrical connectivity?

Second, if the connecting strip is needed, what's a good material to use? And is there a non-soldering way to attach it? I'm afraid of cooking the battery, since my soldering skills are about zip (last experience: a botched Heathkit roughly 40 years ago).

Third, what's a good solvent or cleaner for the contacts on the calculator itself? And also for the tensioning spring, which has picked up a bit of goober from the battery?

(Sorry for the newbie questions. At least I got the polarity business straight...)

Thanks!

Re: Woodstock (HP-25) battery packs
*Message #2 Posted by **Dave** on 23 Feb 2003, 5:46 p.m.,*
in response to message #1 by Robert Burnham

You do not need the soldered connector. Just get the polarity right.

Re: Woodstock (HP-25) battery packs
*Message #3 Posted by **Gordon Dyer** on 23 Feb 2003, 6:20 p.m.,*
in response to message #1 by Robert Burnham

I use a rebuilt HP-25 battery pack with just the spring fitted and NiMH batteries.

Re: Woodstock (HP-25) battery packs
*Message #4 Posted by **David Smith** on 23 Feb 2003, 8:38 p.m.,*
in response to message #1 by Robert Burnham

You really are better off with the strap... if the spring alone does not make good contact, the pack open circuits, the internal machine voltage rises to potentially destructive levels when connected to the charger.

Some early HP packs just use the spring. Later ones added a tight fitting strap. Finally they went to a strap with some play in it. The cells need to be able to move independently to assure good contact with the potentially uneven battery contacts in the machine.

One should NEVER solder to the batteries... it can damage them and a damaged battery can lead to a dead machine. Best to get them spot welded together at a battery store.

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HP 85 Questions
*Message #1 Posted by **RHahm** on 23 Feb 2003, 3:43 p.m.*

I just refurbished an older HP-85 but am missing the clear paper tear part on top.

1. Does anyone know of a source for the thermal paper rolls and the data cartridges?

2. Does anyone have an extra clear plastic paper tear piece that sits on the printer that they could part with or sell me?

3. Any sources of archived software programs on the Net?

Thank you,

RH

Re: HP 85 Questions
*Message #2 Posted by **Christof (US)** on 23 Feb 2003, 11:12 p.m.,*
in response to message #1 by RHahm

As far as I know, any thermal paper should work

www.series80.org and this site are good places for information.

For BASIC programs, anything written in minimal or ansi BASIC should be easy to convert.

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series 80 manuals (Vassilis, any help?)
*Message #1 Posted by **Christof (US)** on 23 Feb 2003, 2:32 p.m.*

well, having found a NOS magnavox composite monitor, a paintjet printer, and disk drives, I think I am just about ready to do some more serious exploration of the 86B- except I'm missing a few things.

like manuals of any sort. I know the B has i/o and mass storage built in and more ram, anything else? If no one anywhere has the 86(regular or B) manuals handy (or for sale, I'll scan them in happly) then how useful is the 85 manual in this context? (this applies to the mass storage, advanced programming, etc.)

The next and final question is: is it possible to make a ROM drawer? I can't find one on ebay or anywhere else I've tried to hunt one down.....

specifically for vassilis: I've got some 85 software on tape that I can't really use, with manuals. it appears to be not avilable on series80.org.....

Re: series 80 manuals (Vassilis, any help?)
*Message #2 Posted by **Vassilis Prevelakis** on 23 Feb 2003, 5:22 p.m.,*
in response to message #1 by Christof (US)

The 86B is closest to the HP87XM. The MoHPC CDs include the 85B manual which should be OK for your initial exploration (apart from the screen size, the two machines are quite similar).

The www.series80.org site contains a few additional manuals (e.g. the I/O Prog Guide) covering topics that are missing from the Owner's Manual. But you need the appropriate ROMs as well.

```
> The next and final question is: is it possible to make a ROM drawer? I can't find
one on ebay
> or anywhere else I've tried to hunt one down.....
```

I am working on two projects at this time: (a) reverse engineer the EPROM cartridge and make a new one that uses Flash Memory. Then people will be able to download ROMs into Flash memory and not worry about hard-to-find ROM modules, and (b) an HP-IB disk emulator which will be a single board computer with Flash memory, that will look like a Mass Storage HP-IB device. Don't hold your breath though, these projects are on a spare time basis and I don't have a lot :-(.

In the mean time, go on looking on eBay, ROM Drawers appear there regularly.

**vp

Re: series 80 manuals (Vassilis, any help?)
*Message #3 Posted by **Christof** on 23 Feb 2003, 7:36 p.m.,*
in response to message #2 by Vassilis Prevelakis

yeah, the 86B seems to have the I/O and mass storage included. I am not sure what else is included in that revision.....

Interstingly, it doesn't seem ver far off formt he 75, either

Re: series 80 manuals (Vassilis, any help?)
*Message #4 Posted by **andy** on 24 Feb 2003, 10:03 a.m.,*
in response to message #1 by Christof (US)

I own an 86/87 manual. I plan to scan it in sometime. In the meantime, feel free to email me any questions.

Andy

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Where can you buy N cell battery packs for the 41c?
*Message #1 Posted by **Steve** on 23 Feb 2003, 1:39 p.m.*

I'm guessing eBay is the only source, but I just thought I'd ask. I have a couple old 41s with rechargeable packs that I'd like to update. Thanks,

Steve

Re: Where can you buy N cell battery packs for the 41c?
*Message #2 Posted by **Steve (KY USA)** on 23 Feb 2003, 5:26 p.m.,*
in response to message #1 by Steve

I have seen them at several office supply stores in Kentucky.

Hope this helps

Re: Where can you buy N cell battery packs for the 41c?
*Message #3 Posted by **Sambonator** on 23 Feb 2003, 5:30 p.m.,*
in response to message #2 by Steve (KY USA)

I think he means the N cell battery holders for the 41C, and not the N cells themselves. Sam

Clarification: Where can you buy the N cell battery "holder" for the 41c?
*Message #4 Posted by **Steve** on 23 Feb 2003, 6:51 p.m.,*
in response to message #3 by Sambonator

That's correct, I'm looking for the molded plastic N cell battery holder for the 41c. I though someone might still make them for the 41c after-market. Thanks!

Steve

Re: Where can you buy N cell battery packs for the 41c?
*Message #5 Posted by **David Smith** on 23 Feb 2003, 8:40 p.m.,*
in response to message #1 by Steve

Nobody makes the holders. They are VERY hard to find. Best bet is Ebay... they sell for around $30 when found. You can be better off buying a dead machine with a holder in it...

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How does HP allow things like this on ebay?
*Message #1 Posted by **Gene** on 23 Feb 2003, 1:05 p.m.*

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3009583223&category=11712

The 12C manual sold on a CD. If we all did this, would HP notice?

Gene

Re: How does HP allow things like this on ebay?
*Message #2 Posted by **Joe Edwards** on 23 Feb 2003, 3:20 p.m.,*
in response to message #1 by Gene

Whether it is legal or not completely depends on HP's stance regarding their old calculators. They have allowed the calcs ROMS to be used in emulators, if I am not mistake, so they may no longer care. You would have to contact HP regarding the issue. It is no longer a copyright issue if HP give the go ahead.

Joe

Don't think they've released manuals of current calculators to public domain, however
*Message #3 Posted by **Gene** on 23 Feb 2003, 3:45 p.m.,*
in response to message #2 by Joe Edwards

They tend to be more "possessive" of their current offerings.

Re: Don't think they've released manuals of current calculators to public domain, however
*Message #4 Posted by **Dave Mabry** on 23 Feb 2003, 4:55 p.m.,*
in response to message #3 by Gene

Isn't the 12C still "current"? I just bought one off the shelf a couple of months ago.

Re: Don't think they've released manuals of current calculators to public domain, however
*Message #5 Posted by **Gene** on 23 Feb 2003, 9:37 p.m.,*
in response to message #4 by Dave Mabry

That was my point. This guy is selling a PDF version of the HP-12C manual while the 12c is still a currently sold product.

Gene

Re: Don't think they've released manuals of current calculators to public domain, however
*Message #6 Posted by **Frank** on 25 Feb 2003, 11:12 a.m.,*
in response to message #5 by Gene

HP 12C still at Office Depot for $79. Was not but 10 or so months ago they were begging at Walmart on markdowns for 30$!

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Ebay prices seem fair to me.
*Message #1 Posted by **Mike Rivera** on 23 Feb 2003, 10:45 a.m.*

Hi all:

I'm new to your site and have found it very interesting and helpful. While going through the forum (and archives), I see a lot of shock at some of the prices items sell for on ebay. For a lot of you that paid under $50 for near-mint HP's, it must seem hilarious, however, take a look at it from my perspective.

I'm 45 years old and received my first HP (25-C) as a Christmas gift (after months of pleeding) in 1976. It served me through my last year of high school, college, and my first few years in business. My parents paid $200 for it.

I later replaced it with a 15-C in the mid-eighties. The "15" cost me about $200. I used it until about 1998 when it became my briefcase carry-about and my desktop received a new 48G. The "48" just stopped working - the display just went dead. I never really liked the "48" - certainly not as much as the "15", and the "15" didn't hold a candle to my "25".

I pulled out my old "25" and began using it again - it worked perfectly! The only thing I was afraid of is the LED display. I could see the batteries going dead when I needed it most - sitting with a client. What I really wanted was a 25-C with an LCD. My friend (an engineer) recommended a 41-CV or CX.

I found your web-site and fell in love with the "41". I then went to ebay and found one "new-in-box" with all accessories, etc., for about $300. Basically I was able to buy a brand new 41-CX, ten years after it was discountinued, for about the same price is sold for in a store!

Not only does that seem like a deal to me (and others apparently), my parents paid more for my 25-C in 1976 as $200 in 1976 dollars is worth more than $300 today. In fact, the $200 I paid for the "15" in 1985 is probably more than $300 today.

For the cost of a pair of dress shoes or a "very nice" dinner out with my wife, I have a brand-new HP

41-CX. I may buy some accessories and paying what they sold for new (or a little bit more) is okay with me. I'm not a collector, so $300 for a tool that will (hopefully) last at least a decade is okay. I've paid thousands for computers that were basically useless (for my business) five years later.

I'm not a collector (although I'm starting to feel the itch), but I think these little machines are worth $200-$300 in 2003 dollars for near-mint examples. They apparently were worth this when they were new.

Thanks for everybodys help - it's a very friendly site.

- Mike Rivera

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HP41C faulty
*Message #1 Posted by **Graeme** on 23 Feb 2003, 12:38 a.m.*

My HP41C has a "display" problem in that the display goes blank, when the machine goes into standby mode (ie between key presses). If a key is pressed and held the display shows the key and then the NULL. Also the flying goose is visible when a program is running. I suspect that the power supply IC is at fault but I don't know where to get a spare should one be available or even if the unit is repairable.

Any guidance would be welcome.

Re: HP41C faulty
*Message #2 Posted by **Ed Martin** on 23 Feb 2003, 9:14 a.m.,*
in response to message #1 by Graeme

Graeme,

Does the display blank after about 15 seconds??? Try XEQ <Alpha> ON <Alpha>, which disables the automatic shutoff feature. Does that fix the problem? If so, then I believe you have a problem which appears to be common to many 41's.

To fix this, open up your 41 and check the connections between the main board and the LCD driver board (at the top of the machine, beneath the LCD). There are several tabs which are soldered to both boards, and these have a tendency to break and develop intermittent contact.

Being VERY careful, use a fine-tipped instrument to gently pry up on each tab where it joins each board. If it comes up, it needs to be resoldered. Use a fine tipped soldering iron and the proper solder, and good luck.

- Ed

Re: HP41C faulty
*Message #3 Posted by **Sambonator** on 23 Feb 2003, 4:57 p.m.,*
in response to message #1 by Graeme

>My HP41C has a "display" problem in that the display goes >blank, when the machine goes into standby mode (ie between >key presses).

Try the solution suggested to you by Ed Martin.

>If a key is pressed and held the display shows the key and >then the NULL.

This is normal.

>Also the flying goose is visible when a program is >running.

This is also normal.

Sam

Re: HP41C faulty
*Message #4 Posted by **Vieira, Luiz C. (Brazil)** on 23 Feb 2003, 5:12 p.m.,*
in response to message #1 by Graeme

Hi;

I'd like to help, but I must confess I did not understand the problem.

When you switch the calculator ON for the first time, what do you see? The HP41 normally shows the X-Register contents and any active annunciators, except for ALPHA, PRGM and SHIFT, of course. The only way you have a blank display when you turn the calculator ON is by storing a blank ALPHA in the X-register (at least this is the only way I know), considering the calcualtor is working fine.

Now about yours: you mention a standby mode between key presses. Standby mode is exactly this: after an operation is performed and before the next key is pressed. In this case the calculator should show something: X-Register contents, a message, ALPHA contents, program steps or the flying goose. Yours go blank-display between key presses?

What about these:

- ALPHA mode
- PRGM mode
-after an AVIEW or VIEW nn

What happens in these cases?

If the LCD shows the flying goose and function name + NULL when key is held down, there is something more than bad contact in the LCD's module.

At least it seems to me that is. I'd liek to know a few more about it.

Success Adn best regards.

Re: HP41C faulty
*Message #5 Posted by **Graeme** on 23 Feb 2003, 6:18 p.m.,*
in response to message #4 by Vieira, Luiz C. (Brazil)

To Vieira, Luiz C. (Brazil), et al.

I am sorry if I was unclear.

When the calculator is in standby mode ie(turned on, but not running a program) the display shows nothing (just like it is turned off). None of the annuicators are displayed. If a key is pressed or a program is run the display "lights up" and behaves normally, or at least until it drops back to standby mode.

I hope this helps clarify the situation.

I will try re-soldering the display tabs as suggested.

Many thanks. I will advise as to how I get on.

Graeme

ACK!
*Message #6 Posted by **Vieira, Luiz C. (Brazil)** on 23 Feb 2003, 9:06 p.m.,*
in response to message #5 by Graeme

Hi, Graeme;

that's really new for me. That's the first time I read about this particular behavior.

Thank you for clearing the symptoms. I'm very interested on knowing about the solution, say, if simply resoldering the LCD connections is enough.

Thank you very much. And success!

Re: HP41C faulty
*Message #7 Posted by **David Smith** on 23 Feb 2003, 8:46 p.m.,*
in response to message #1 by Graeme

I have seen this problem NUMEROUS times. A lot of times it is caused by a bad conenction to the LCD module (gently pry on each of the 16 or so contacts and see of any pop off).

Another very common cause is contamination (often invisible) on the keyboard circuit board or back of the LCD circuit board. Clean well with 91% isopropyl alcohol... don't let it get on the display window... it will leave white stains behind.

Can also be caused by a bad LCD module or CPU card... only replaceable from another machine.

Re: HP41C faulty
*Message #8 Posted by **Renato** on 23 Feb 2003, 10:16 p.m.,*
in response to message #1 by Graeme

Maybe you could try a full reset, before doing surgery. At least a backspace-ON, or leave batteries out overninght. This might not work, but I would try that before touching a soldering iron to a 41 of mine.

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9114 substitute question
*Message #1 Posted by **andy** on 22 Feb 2003, 10:35 p.m.*

I have an hp9121 and an hp9122 (both hpib 3.5" fdd).

I also have an hp82169a (hpil-hpib).

I have been attempting to communicate with the 9121 using my 71b but haven't had any luck.

Any suggestions?

Thanks,

Andy

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HP10BII or 17BII

*Message #1 Posted by **Bo K. Engelbrecht** on 22 Feb 2003, 7:15 p.m.*

Hi everyone.

I am an old 41 guy, still using my 41CX that I bough to replace the 41C when it arrived years back.

My girlfriend (that is in the economic sphere) needs a new calculator. I have been looking around and it all boils down to old faithful HP.

I found two suitable machines for her (I am a RPN guy and she is a algebraic girl) the 10BII and the 17BII.

As I see it (in the store) the 10BII has a GREAT display (judging from my 42S the 17B is not?) but the 17B has the IR port that could be useful.

The cost is not a main factor.

Any recommendations?

Thanks for any advice!

Re: HP10BII or 17BII

*Message #2 Posted by **Gordon Dyer** on 22 Feb 2003, 7:26 p.m.,*
in response to message #1 by Bo K. Engelbrecht

I have both... DEFINITELY buy the 17BII, it is a great calculator for finance. It has the traditional HP quality, it is easy to use with a wide range of functions.
The 10BII was a new attempt to give HP quality but it failed. The keys are unreliable and the ergonomics not as good as the 17BII.
The only disadvantage of the 17BII is a lower contrast display, but it has 2 lines with a soft menu system which is excellent. If you can't live with it then go for a 14B.

Re: HP10BII or 17BII
*Message #3 Posted by **Scuba Diver** on 22 Feb 2003, 9:03 p.m.,*
in response to message #2 by Gordon Dyer

I agree with Gordon. I'd go for the 17BII.

I really don't like the 10BII, and the 17BII menu system keeps the keys from looking too cluttered.

B.

Re: HP10BII or 17BII
*Message #4 Posted by **Spice_Man** on 22 Feb 2003, 10:57 p.m.,*
in response to message #3 by Scuba Diver

I'm particular to the 37E and 38E/C, but given the choice between the 10BII and 17BII, the 17BII will get my vote. 10BII is a toy.

12C is always a great choice... are you sure she doesn't want to RPN with you?

Spicey

Re: HP10BII or 17BII
*Message #5 Posted by **Gene** on 22 Feb 2003, 11:05 p.m.,*
in response to message #3 by Scuba Diver

Although, I too dislike intensely the 10BII, I do not like the menu system of the 17BII type calculators.

I like the functions where I can get to them easily, not buried in a menu where I have to think..."Where is NPV?"

The 12C is still the star. I'm holding out for a hopeful 12c+ someday.

Gene

Re: HP10BII or 17BII
*Message #6 Posted by **Spice_Man** on 22 Feb 2003, 11:21 p.m.,*
in response to message #3 by Scuba Diver

Yet another option is the 10B. IMHO the 10B is better than the 10BII.

Spicey

Re: HP10BII or 17BII
*Message #7 Posted by **Bo K. Engelbrecht** on 23 Feb 2003, 6:05 a.m.,*
in response to message #6 by Spice_Man

Thank you for all input.

Going back to my first post; screen versus printer, it seems like Spice_Man did find the solution. The 10B. It really looks (found several on Ebay) like a pleasant screen. But, I could not find any information about it like on the hpmuseum. When did HP halted production of this?

I was unaware of the 10B, but it looked like a _real_ HP to me.

The 14B (I only found one in Ebay) has this dot matrix screen I try to avoid (burned by the 42S)

OT: >are you sure she doesn't want to RPN with you? Yea as much as _I_ want to do Algebraic with her! LOL

(I do love the form factor of 12C. Once a time I had a 16C and a 15C)

Re: HP10BII or 17BII
*Message #8 Posted by **Mike Sebastian (Texas)** on 23 Feb 2003, 9:46 a.m.,*
in response to message #7 by Bo K. Engelbrecht

Here is some information on the HP10B: http://www.finseth.com/~fin/hpdata/hp10b.html

I believe the HP10B was discontinued a couple of years ago.

Re: HP10BII or 17BII

*Message #9 Posted by **Bo K. Engelbrecht** on 23 Feb 2003, 12:30 p.m.,*
in response to message #8 by Mike Sebastian (Texas)

Thanks for the link Mike.

Two issues reading the data for 10B;

The list says 'I/O none', looking on Ebay I spoted ads for the IR printer in the box and assuemd that it had IR, right?

The list also says 'A giant step backwards: to old, -12C style cash flows, a constant (K) and "M" register.'

A don't deal with economic figures (NPV on a button makes me shiver) so is this something really bad that would make the 17BII a better choise despite all?

Re: HP10BII or 17BII

*Message #10 Posted by **Gene** on 23 Feb 2003, 12:41 p.m.,*
in response to message #9 by Bo K. Engelbrecht

The HP-10B has the same "red" I/O cover at the top of the calculator, just as all pioneer calculators did. However, there is no I/O printer mechanism inside. No I/O.

The other items:

M register is just a quick way to store into a memory M, to add to a memory M+ and to recall a memory RM. There ARE other numbered memory registers, but so what? It is often nice to have a single store, sum, and recall memory available with one keystroke.

The K (constant) key is a reasonable thing for a business algebraic calculator to have. Don't know why this would be a big deal.

The cash flow difference is because the HP-10B does not use list-based cash flows, but stores them in series just like the HP-12c does. No big deal, unless you are having to deal with multiple streams of cash flows, in which case, being able to name a series of cash flows and have more than one in the machine at a time is a good thing.

That doesn't seem to have slowed sales of the HP-12c, however.

So, HP-10B (original not the 10BII) is around $25-35 if you can find it, and the HP-17BII is around $60-80 where you can find it. Choice is yours.

Sadly, the low-end HP financial calculator does not compare with the Texas Instruments BAII Plus calculator at all. The $29 TI is a great calculator. Wish HP made one to compare with it.

Gene

Re: HP10BII or 17BII

*Message #11 Posted by **Christof** on 23 Feb 2003, 2:20 p.m.,*
in response to message #10 by Gene

I don't have a 10B, so I'm not sure about this part, but I *think* the 17BII has a lot more solver formula space/ability and appointments (you may use the appoinments only once every couple months, but when you need them it seems you need them)

As odd as it sounds, I use a 17Bii for the kitchen and the formula space is a really nice thing for timing dishes, calculating ingredients, and adjusting quantities for meal population.

I've also programmed in a library of conversions that I commonly use (including a sort of fake out for handling the way materials are measured in workshops down to 1/32") If you want to get into the really gritty bits, you can even use conditionals in your solver formulae.

It's not terribly complex to learn how to use- 2 hours solid and you'll have everything you need to know learnd and a small library of solver "programs" input. (note also that the solve rhere has all the capabilities of the 19Bii, even though they aren't all in the 17Bii manual)

Formula progam space in the solver (expecially 7KB of it) is what makes the 17Bii the best choice for me, but I don't know if the 10B had a reasonable amount of that. I seem to recall it not having conditionals, at least.

I understand the display cna be a bit bothersome to some people, but I've managed to solve that for desk use by making a mini "calculator wedge" that gives me a ~ 15 degree sloped non skid surface. I use this with my 42S, too.

The 10B just.... lacks power. I'd almost go with a TI ba35 at that point, too. *shrug*

Re: HP10BII or 17BII
*Message #12 Posted by **Bo K. Engelbrecht** on 27 Feb 2003, 4:39 a.m.,*
in response to message #11 by Christof

Thanks everyone!

I found a nice 10B for $26.99 at Ebay and will also try to get a 17BII to find out which one to keep, by hands on.

Bo

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HP41CX Number format - comma to decimal
*Message #1 Posted by **WT Guthrie** on 22 Feb 2003, 6:29 p.m.*

I had to replace the batteries recently in my 41CX. In powering it back up I must have hit some keys by mistake. Now the decimal shows up as a comma. Any clues on how to get it back to a decimal? Thanks in advance, WT

Re: HP41CX Number format - comma to decimal
*Message #2 Posted by **monte dalrymple** on 22 Feb 2003, 6:59 p.m.,*
in response to message #1 by WT Guthrie

Set flag 28 to select a period. Flag 29 controls the separator mark. normally set to enable the separator mark.

Monte

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34C's going at a premium
*Message #1 Posted by **Sambonator** on 22 Feb 2003, 6:09 p.m.*

34C's appear to be going at a premium. Maybe its time to dust off a couple of 34C's and put them up on EBay.

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&category=11713&item=3008335071

Sam

Re: 34C's going at a premium
*Message #2 Posted by **Bill Hemphill** on 23 Feb 2003, 7:48 a.m.,*
in response to message #1 by Sambonator

I think the 34C was my third HP Calculator I ever owned. I still have the box it came in, but nothing else. Which is strange since I have kept other manuals even after the calculator died. I also cannot remember very much about it except for the fact that it had three function key- F, G & H. It must not have made much of an impression on me at the time I had it. Funny, because the HP-25 and HP-29C I remember everything about them.

On high prices on e-bay - how about 177.50 for Card reader, not even new in box. See:

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3008266515&category=11713

HP-34C the best of any of them

*Message #3 Posted by **Norm Hill** on 24 Feb 2003, 12:31 a.m.,*

in response to message #1 by Sambonator

HP-34C was the best of any of them. It had just the right amount of features & functions. I was there, back in '79, I remember the "HP-41" type guys, yeah they were real proud of those behemoths, except they could never figure out how to use them. I actually knew every button on my HP-34C because it was a cool, cool rig. And the manual was just the cat's meow also. There's few of the HP-34C around presently. They should make them brand new just the same.

Re: HP-34C the best of any of them

*Message #4 Posted by **karl schneider** on 24 Feb 2003, 1:10 a.m.,*

in response to message #3 by Norm Hill

When I was a young undergrad in 1981, I noticed an older student using a HP-34C (or similar) in the cafeteria, and peppered him with questions about it. He politely answered them, even though he was keying in programs for an exam. (He must not have been too time-pressed.) The machine looked intriguing, and when I finally had the funds to buy my own HP in Nov 1983, I had to choose between the 34C and the new 15C. I waffled, because I liked the classic look of the 34C, but was (thankfully) convinced by the clerk to buy the 15C, which was clearly the better product.

Within the past year, I have bought both earlier-style and later 34C's, with the intent of keeping the later one and selling my older one on eBay after I perform some repairs.

The 34C was a fine machine for its time, but suffered from some poor construction techniques. (The high inflation of the era may have prompted HP to try to cut costs.) The functionality was great, but almost every non-programming function was shifted (3 shift keys!). You didn't know which angular mode it was in, and you had to deal with $12 NiCd's that needed charging and died eventually.

No, the 34C couldn't be sold as a new product today...

I bet the HP15C as a fair replacement (was: HP-34C the best of any of them)
*Message #5 Posted by **Vieira, Luiz C. (Brazil)** on 24 Feb 2003, 1:32 a.m.,*
in response to message #4 by karl schneider

Hi; (Karl... where have you been? What destiny took your HP41?)

I secnod Karls in his post.

Despite of having an horizontal alignment (I think it's better), LCD for LED's (I never used a calculator under low-light conditions) and long-lasting discard-type batteries, everything the HP34C has will be fairly found in the HP15C. I mean everything+: memory, labels, math features, even conditional tests.

I would never discuss the fact that the HP34C was the best available at its time, and the HP41 did not add significant improvements, if we consider no add-ons, just the plane HP41C.

When I bought my HP41C in 1982 (in a savings promotion because of the HP41CV) the HP34C cost about 30% less. I had no doubts about: I wanted an alphanumeric display. And at that time I had many Casio and Sharp pocket computers to fight against my HP41. And we both won many challenges.

BTW, I remember I saw a pocket Casio (or Sharp?) in the late 80's that came with resident C language. Does anybody remember its ID? Just a curiosity.

Cheers.

Re: I bet the HP15C as a fair replacement (was: HP-34C the best of any of them)
*Message #6 Posted by **R Lion** on 24 Feb 2003, 2:17 a.m.,*
in response to message #5 by Vieira, Luiz C. (Brazil)

```
"I remember I saw a pocket Casio (or Sharp?) in the late
80's that came with resident C language. Does anybody
remember its ID?"


http://www.rskey.org/z1.htm
http://www.rskey.org/pb2000c.htm
```

```
Regards
Raul
```

Re: HP-34C the best of any of them
*Message #7 Posted by **Ernie Malaga** on 24 Feb 2003, 5:17 a.m.,*
in response to message #4 by karl schneider

>The functionality was great, but almost every non-programming function was shifted (3 shift keys!). You didn't know which angular mode it was in, and you had to deal with $12 NiCd's that needed charging and died eventually.

These problems existed in the HP-67 too. Worse, since the batteries needed 14 hours to fully recharge, just so you could use the machine for a meager 3 hours. The rechargeable batteries of the Classic series were at the pinnacle of inefficiency, IMHO.

Two years of daily 14-hour recharges soured me on rechargeable battery models, so I was as happy as a pig when the 41C came out, and bought one on the spot.

But history is repeating itself. Just think of today's cell phones. The batteries always choose the worst times to die! 8^)

-Ernie

Re: HP-34C the best of any of them
*Message #8 Posted by **Ernie Malaga** on 24 Feb 2003, 5:09 a.m.,*
in response to message #3 by Norm Hill

Norm:

>I remember the "HP-41" type guys, yeah they were real proud of those behemoths, except they could never figure out how to use them.

I guess, then, that I must be one of those "proud of my behemoth" machine, because I'll take a 41C/CV/CX over a 34C any day, no hesitation. As far as I can see, the 34C's only advantage is in the functions L.R., integration, and SOLVE.

The 41C/CV/CX are expandable, however; just add an Advantage module and you have a machine that doesn't need 3 shift keys for basic functions... like [h] [SST]. Sorry, but I can't imagine the tedium of single-stepping in the 34C's PRGM mode a 100-step program!

> Just my $.02. -Ernie

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HP-25 problem

*Message #1 Posted by **Robert Burnham** on 22 Feb 2003, 5:06 p.m.*

I have an HP-25 whose display runs unstoppably when the calc is switched on. (I'm running it from the charger because the battery pack is shot, and I have no other.) Pressing any of the buttons makes no difference, nor does switching the w/prgm switch.

As far as I can tell, the display is cycling through all the digits wildly, much as it might while a program is running. (Except for no blank-outs.)

It acts like it's channelling the universe of numbers in a kind of psychotic fugue...

I'm fond of the little guy, and I wonder if there's anything that can be done. This is not an urgent crisis, since I have other HPs (35, 67, 32sII) to keep me in crunched digits. However, it would be nice if the whole famn damily were in running order.

Any suggestions?

Thanks in advance --

Robert Burnham

Re: HP-25 problem

*Message #2 Posted by **Spice_Man** on 22 Feb 2003, 5:21 p.m.,*
in response to message #1 by Robert Burnham

Funny you should mention that. I have a similar issue with my 25, but only when its on the charger. When I turn it on with just the battery, it works fine. I wonder if the infamous "ACT" chip is just "ACT"ing up...

Spicey

Re: HP-25 problem
*Message #3 Posted by **David Smith** on 22 Feb 2003, 6:24 p.m.,*
in response to message #1 by Robert Burnham

First off, you need a GOOD battery installed in the machine... without one you get the display that you talk about and often times a burned out machine.

Second, you may have corrosion or contamination on the circuit board... usually green on and/ or under the bottom chips.

Finally a blown ACT chip... the 22 pin big one near the bottom of the circuit board.

Re: HP-25 problem
*Message #4 Posted by **Gordon Dyer** on 22 Feb 2003, 7:17 p.m.,*
in response to message #1 by Robert Burnham

My HP-25 does the same as yours if the battery is not connected properly, or if there is an old bad battery fitted. The power adapter relies on the battery to smooth the voltage. BEWARE... it may cause damage if there is not a good battery fitted.

Re: HP-25 problem
*Message #5 Posted by **Robert Burnham** on 23 Feb 2003, 10:41 a.m.,*
in response to message #4 by Gordon Dyer

Thanks for the advice. It does have slightly corroded contacts on the two prongs that touch the batteries, so I'll clean them as best I can. (I'm thinking Q-tips moistened with Windex.)

Then I'll take the battery pack apart and install new ones, perhaps going the route of a custom rebuild at Batteries Plus.

If all this fails, the little guy will be a goner because I'm not up to trying brain surgery on any chips or trying to swap old ones out. It'll become a display item.

So -- thanks again for your help! Much appreciated.

Robert Burnha

Re: HP-25 problem
*Message #6 Posted by **Sambonator** on 23 Feb 2003, 5:19 p.m.,*
in response to message #5 by Robert Burnham

Try the NiCad Lady http://www.nicdlady.com/ or TNR Technical http://www.tnrtechnical.com/. They both have extensive experience rebuilding HP battery packs.

Sam

Re: HP-25 problem
*Message #7 Posted by **Gordon Dyer** on 23 Feb 2003, 6:34 p.m.,*
in response to message #5 by Robert Burnham

It is easy to rebuild the battery pack yourself.
Just neatly cut through the plastic bar near the contact end of the batteries and lift them out after making a note of the polarity (I made a red dot on the plastic holder at the + side with a permanent marker). Clean the spring and fit new NiCad or NiMH battries, carefully sliding them in under the plastic bar, dont bend it up more than is necessary. Then refit to the calc.
Good luck!

Re: HP-25 problem
*Message #8 Posted by **David Smith** on 23 Feb 2003, 8:49 p.m.,*
in response to message #5 by Robert Burnham

Also gently sand the contacts with fine grit sandpaper. Another useful trick is to put a small wad of aluminum foil on top of each battery contact.

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HMS "bug" again, HP11C
*Message #1 Posted by **Scott Coburn** on 22 Feb 2003, 5:04 p.m.*

I noticed an odd behaviour in my HP11C in the HMS functions. Looking through the archives I see that this behaviour was found in the 28S and 42S. When I do 2.12 g->H 1.37 g->H (subtract) f->H. MS I get an answer of 0.3460 instead of 0.3500. As noted in the other posts the answer is "correct" but not what I was expecting. I just wanted to add this bit of information to the archives here. (I have just checked with an HP32SII, it does this also.) Cheers.

Re: HMS "bug" again, HP11C
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 22 Feb 2003, 5:55 p.m.,*
in response to message #1 by Scott Coburn

Hi;

hit the [f][PREFIX] key and you'll see:

```
[3459999999]
```

As exprected, internally we have the rounding error. The problem is that 3.459999999 is a number that you can key in anytime. Tha HP11C does not "know" it's an H.MMSSssss representation. I agree with the fact the rouning error should not occur, but the rounding-up from 3.459999999 to 3.4600 is acceptable for an ordinary number.

Is that what you read about?

Cheers.

Re: HMS "bug" again, HP11C
*Message #3 Posted by **Spice_Man** on 22 Feb 2003, 6:05 p.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

Hey you beat me to it Vieira!

Spicey

> **Re: HMS "bug" again, HP11C**
> *Message #4 Posted by **Vieira, Luiz C. (Brazil)** on 22 Feb 2003, 9:15 p.m.,*
> *in response to message #3 by Spice_Man*
>
> Hey, Spice!
>
> Good to know we are all in the same team... I'd rather never having you, guys, in an opposite side! And when I write you , I mean you all...
>
> Good to know that we use our knowledge this way. I'm honored.
>
> The best regards, Spice!
>
> Luiz C. Vieira

Re: HMS "bug" again, HP11C
*Message #5 Posted by **Spice_Man** on 22 Feb 2003, 6:04 p.m.,*
in response to message #1 by Scott Coburn

I think its just a rounding error. I think its just trying to display 0.3459999999999... but its getting rounded up to 0.3460000. In fact, you can see this is a rounding error by changing the display of the result to scientific notation by hitting f->SCI 9. You get 3.459999-01.

Spicey

Re: HMS "bug" again, HP11C
*Message #6 Posted by **Scott Coburn** on 24 Feb 2003, 10:33 a.m.,*
in response to message #5 by Spice_Man

Well, if I don't have my HP11C here at work, but on my 32SII if I do FIX 9 I get 0.346000000, not 0.34599999... And, if I do SCI 9 I get 3.46000000E-1 etc. I guess I am not trying to argue that it is a fully qualified bug, that is why I put "bug" in quotes in the Subject line. I was just adding to the thread in the HP Forum Archive 6 (go to that page and do a browser search for "HMS").

Re: HMS "bug" again, HP11C
*Message #7 Posted by **R Lion** on 23 Feb 2003, 2:22 a.m.,*
in response to message #1 by Scott Coburn

Try RND ->H ->H.MS for avoiding the error.

Raul

Re: HMS "bug" again, HP11C
*Message #8 Posted by **R Lion** on 23 Feb 2003, 2:35 a.m.,*
in response to message #1 by Scott Coburn

...and using HMS- (in the 42S/48GX) you'll get the desired 0.35

Raul

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HP 48GX version
*Message #1 Posted by **Silvio** on 22 Feb 2003, 1:58 p.m.*

Hi all,

I know the 48GX is not a target machine on this forum, but I also know a lot of you guys are very knowledgeable on those machines. My question is what is the most recent version of 48GX? I tried the "VERSION" command on 3 different machines, build on 97, 99 and 2002 and the result was always the same "HP48-R Copyright 1993". Does that mean the operating system on the 48GX never evolved over the years? I'm having a hard time believing this. Also, if there is no change in software, was any change in the hardware (other than the kbd and display)?

Thanks, Silvio

Re: HP 48GX version
*Message #2 Posted by **Chan Tran** on 22 Feb 2003, 2:17 p.m.,*
in response to message #1 by Silvio

That means that the latest ROM is version R. The 1993 is the first year the 48GX was introduced. I think version R was introduced in 95 or 96 (someone might know this). My own 48GX is version P.

Re: HP 48GX version
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 22 Feb 2003, 2:43 p.m.,*
in response to message #2 by Chan Tran

Hi;

just to add some new info. I once read that the HP48G/G+ and the hP48GX O.S. are probably different from each other because of the expansion slots handling. My HP48G+ (two of them, serial # ID02000xxx and ID13900xxx) are both version R O.S. Should I think Version R is for the three of them OR there is a version R for the G/G+ and another for the GX?

Just to clear the facts out.

Cheers.

Re: HP 48GX version
*Message #4 Posted by **Ron Ross** on 22 Feb 2003, 8:55 p.m.,*
in response to message #3 by Vieira, Luiz C. (Brazil)

There is no mistake. Version R is the latest. A 48G+ can easily handle more RAM, if you were to physically add missing IC compenents (instructions are same as expanding a 48G). The properties and bugs of the 48 are well documented also on hpcalc.org.

The R version is the last and since the OS was much simpler in comparision and much better tested than the 49, all ROM versions are good, the R version was just the last and best. Hp's abandonment or lack of reason to improve since 95 was due to relocation of its calculator division.

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RPN Calculator Simulator in BASIC
*Message #1 Posted by **Gordon Dyer** on 22 Feb 2003, 12:07 p.m.*

I have found an RPN calculator simulator in BASIC, in an old copy of PCW March 1986.
I have high res and low res scans of the 4 page article and can send in a zip file (1.2MB low res or 10.4MB high res) to anyone interested.
It was written for a Research Machines 480Z Basic version 6.3B.
For retro-masochists only!

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Loud Clicking on a 48G+
*Message #1 Posted by **Gray Wilson** on 22 Feb 2003, 10:07 a.m.*

Anyone have any advice on what to do with a key which clicks loudly when released? Only happens with the "4" key on my 48G+, the rest of the keys are fine.

Thanks

Re: Loud Clicking on a 48G+
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 22 Feb 2003, 12:40 p.m.,*
in response to message #1 by Gray Wilson

Hi;

I have a guess but I'm not sure I'm gonna be able to explain it correctly (maybe I'll not find the correct words).

There is a plastic sheet under the keyborad and this sheet has molded bubbles under each key. In the inner of each bubble, right in the middle, there's a conductive "circle" (like a black, carbon spot) and when a key is pressed, this conductive spot touches two conductive paths, array-type arrangement, right below it. The conductive paths are printed in a separated plastic sheet, connected to the calculator's circuitry.

I guess that the bubble under the [4] key in your calculator has some sort of irregularity or it has fissures. Each key has a small pin that slight glides over the respective bubble's surface when the key is pressed, and it glides back over the same path when the key is released. If the supposed irregularity is right over this gliding path, when the key is released the pin is forced over it and loudly clicks.

If you want to try a brief test, please slowly press the key and try to sense any irregularity or hear a soft sound. If it happens, stop pressing it and them release it slowly. You'll probably hear the loud click if it happens this way.

I cannot figure a solution out of this other than opening the keyboard, what needs opening the calculator first.

Hope this helps identifying the aggressor.

Best regards.

(Please, if someone understood, agrees with it and wants to improve the explanation with better terminology, be my guest)

Re: Loud Clicking on a 48G+
*Message #3 Posted by **Gray Wilson** on 22 Feb 2003, 1:32 p.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

Thanks Luiz for the clear explanation. I tried your suggestion of a slow press and release, and the loud click was still quite audible when I did this. But if I press on the extreme left-hand side of the key, the click goes away.

I'm not sure that I want to dismantle the calculator to fix the problem as it is still under warranty. I can live with this, but it is rather irritating. Should I return it to HP and ask for a replacement before the warranty expires?

Thanks again

Re: Loud Clicking on a 48G+ - new fact
*Message #4 Posted by **Vieira, Luiz C. (Brazil)** on 22 Feb 2003, 2:28 p.m.,*
in response to message #3 by Gray Wilson

Hi;

About returning it to HP before warranty expires: yes! I would!

Now you add another fact: if you "shift" the key by pressing it on the extreme left hand (a small rotation because of the torque) then the pin that acts over the bubble will glide over another path, confirming our expectations. BUT the click may also come from the molded plastic.

If you have not seen an HP48 keyboard without the aluminum faceplate, imagine that each key is molded with two plastic sticks (lower face) that bond it to the case. These sticks are slightly bent each time a key is pressed. If there is loose, surplus plastic (plastic barbs) on any of them OR in the key itself, chances are this spare plastic is also

causing the clicks, what is a lot harmless.

Well, I think it's a good reason to claim for a new replacement. The new 48 series (I have a new 48G+) has the same black-dots LCD found in the HP49G. A lot better reading...

Success! And let us know about this.

Luiz C. Vieira - Brazil

Re: Loud Clicking on a 48G+ - new fact
*Message #5 Posted by **Iqbal** on 22 Feb 2003, 7:21 p.m.,*
in response to message #4 by Vieira, Luiz C. (Brazil)

Chances are, you might get a replacement GX with the clicking sound under another key. See this posting: http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/forum.cgi?read=28197

Re: Loud Clicking on a 48G+ - calc. replaced
*Message #6 Posted by **Gray Wilson** on 25 Feb 2003, 8:30 a.m.,*
in response to message #4 by Vieira, Luiz C. (Brazil)

Hi Luiz

I contacted HP, who phoned my local store and got the calculator replaced out of the store's sock this afternoon.

So I have a new 48G+. But there are differences between the calcs.

Firstly, I didn't realise it (and this was pointed out to me by HP) that even though I bought the calc. in May last year, it was actually made in 1998. The calc. I swopped it for was made in 2002. Although both were made in Indonesia, the screens and keyboards are different. The old one's screen was a blue-green colour, while the new is the "black" you refer to, and is as you say more legible.

The keyboard on the 2002 model has duller keys that are not as shiny as the 1998 model. And the lettering is not as crisp or smart. I am not sure if the lettering on the 1998 keys was moulded into the keys; the lettering on the 2002 keys is certainly printed on.

But that aside, the 2002 version's keyboard is not as noisy as the 1998. Certainly

there are no "snapping" keys. That, with the improved screen more than makes up for the poorer quality of the key faces.

Thanks again for your advice. And thanks to HP for such quick service - all within the space of 2 hours.

Re: Loud Clicking on a 48G+ - calc. replaced
*Message #7 Posted by **Vieira, Luiz C. (Brazil)** on 25 Feb 2003, 8:44 a.m.,*
in response to message #6 by Gray Wilson

Hi, Gray;

thank you for sharing the good news with us.

I'm sincerely glad it is fine for you, now. Also, I'm glad it is the new black-dots LCD version.

Enjoy the new one!

Best regards.

Luiz C. Vieira - Brazil

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Which one should I go for: HP 32sII or HP 42s
*Message #1 Posted by **Bent Rosnes** on 22 Feb 2003, 8:22 a.m.*

Could anyone please give me some advice about which one I should buy? I can choose between these two: HP 32sII and HP 42s. The price is the same, app. $ 78. Why should I choose one instead of the other? What are the pros and cons for each model?

I have run the "Calculator comparison". But I could not compare HP 42s with HP 32sII, only HP 32s. So how fair is the comparison?

Bent Rosnes (Norway)

Re: Which one should I go for: HP 32sII or HP 42s
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 22 Feb 2003, 8:44 a.m.,*
in response to message #1 by Bent Rosnes

Hi;

undoubtedly the HP42S has many more resources when compared to the HP32S. Some HP42S advantages are:

- it is full alphanumeric
- has more memory
- has IR output (no input), allowing you to send data to an IR-receiving device (an 82240 printer or an HP48)
- has complex and matrix arithmetic
- emulates everything an HP41CV (plane) can do
- two lines display - X and Y at the same time OR X and menu labes
- graphical display that allows you to plot graphics (half the resolution available in an HP28S)
- custom menu, allowing you to select (even by program) a particular set of prefered functions and have them ready to use at a key press

Many things they have in common: RPN system, numerical SOLVE and Integrate, keyboard-ready and menu-driven resources, amongst others.

I'd go for the HP42S, but the extra price you pay is the biggest quantity of resources to learn about (unless you'll learn only what you want) the few extra keysteps you'll need to press to achieve some tasks (like programming and using ALPHA resources).

As you asked for, many other different thoughts will be posted. As a matter of fact, they are both very good Pionners, and the other aspect is quality: newer HP32SII did not keep HP's qualitly standards.

Success! (My US$ 0.05)

Luiz C. Vieira - Brazil

Re: Which one should I go for: HP 32sII or HP 42s
*Message #3 Posted by **Bent Rosnes** on 22 Feb 2003, 12:53 p.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

Thanks a lot for making my decision much easier. You have convinced me that I should choose the HP-42S. (Hopefully the bookstore has not sold it when I show up on monday morning :))

Bent Rosnes (Norway)

Off topic...
*Message #4 Posted by **Vieira, Luiz C. (Brazil)** on 22 Feb 2003, 2:52 p.m.,*
in response to message #3 by Bent Rosnes

Hi, Bent;

I own a TCD-300 Tandberg Tape Deck and it is fully working (dated 1974). I'm a fan of this particular Norwegian brand. Are they still in good shape? The other European brand I dare dreaming of finding a 70's piece for buying is B&O (Bang & Olufsen).

Amazing time... and HP was also there with the Woodstocks, Topcats and Stings.

Cheers.

Re: Off topic...
*Message #5 Posted by **Dave Mabry** on 22 Feb 2003, 3:48 p.m.,*
in response to message #4 by Vieira, Luiz C. (Brazil)

Luiz,

What were the chances??? That two HP calculator enthusiasts who are active on this list would BOTH have Tandberg TCD-300 cassette decks that work? How strange! Mine still works but could use an alignment.

Re: Off topic...
*Message #6 Posted by **Vieira, Luiz C. (Brazil)** on 22 Feb 2003, 5:38 p.m.,*
in response to message #5 by Dave Mabry

Hi, Dave;

what to say? We're both lucky guys!

Mine was bought with several problems, I listed 9 of them and the worst one was that one of the PLAY/REC coil had a broken wire. I had to open it, repair and close it again. Others were mainly transistors and two capacitors.

A discrete DOLBY board for each chanel... with the Dolby Labs incription on them! Amazing piece of pure Electronic Engineering, ahn? And it's not exactly a cosmetically view...

Oh, Gosh! We're at the MoHPC... Sorry, guys!

Thanks for sharing the news, Dave.

Best regards.

Re: Off topic...
*Message #7 Posted by **Gordon Dyer** on 22 Feb 2003, 7:22 p.m.,*
in response to message #6 by Vieira, Luiz C. (Brazil)

I remember looking longingly at the Tandberg tape recorder adverts, but I coun't afford to buy one.....sob!

Re: Off topic... coincidence!
*Message #8 Posted by **Edwin Russell** on 25 Feb 2003, 8:02 a.m.,*
in response to message #5 by Dave Mabry

Amazing coincidence!

I have a TCD-310 which I bought new when they first came out.

I had it serviced a few years ago and it worked fine last time I used it about a couple of years ago.

What a small world. Edwin Russell. UK

Re: Off topic... coincidence!
*Message #9 Posted by **Vieira, Luiz C. (Brazil)** on 25 Feb 2003, 8:40 a.m.,*
in response to message #8 by Edwin Russell

Hi;

the TCD-310 is a "new-look" version of the TCD-300 and it has some enhancements in audio curves (better, expanded range). It has more white areas in the external view.

The TCD-330 is a must-see... Oh, Gosh! I did it again...

Sorry, guys; it's off-topic, I know, I pulled the branch, but a Tandberg TDR is something to be seen.

As fascinating as vintage HP's...

BTW, I have the Service Manual for the TCD-300. Anyone interested on? I'll scan it for this weekend and allow it for download, if there are people interested on it. I'll post my e-mail, so I invite you, Tandberg maniacs, to e-mail me so I'll find a way to scan it. Complete schematics with measured values included.

Best regards.

Re: Off topic... coincidence!
*Message #10 Posted by **Renato** on 26 Feb 2003, 11:55 p.m.,*
in response to message #9 by Vieira, Luiz C. (Brazil)

Have you guys seen this photo of a TCD300 ? http://www.nrhf.no/TB-TCD300.html

A catalog is here: http://home.online.no/~jandors/tandberg_kassett.html

This guy has a service manual: http://www.agtannenbaum.com/t_cat.html

Re: Off topic...
*Message #11 Posted by **Bent Rosnes** on 24 Feb 2003, 4:49 a.m.,*
in response to message #4 by Vieira, Luiz C. (Brazil)

It's about 30 years and still running, well I'm really impressed! I found a picture of TCD-300 Tandberg Tape Deck at this site: http://www.nrhf.no/nrhf-eng.html. They have lots of pictures of old Tandberg equipment and accessories. The tape deck looks really cool, and I would very much like to have one myself, but they must be terrible expensive these days. By the way, Tandberg Audio Production went bankrupped in 1999 as far as I know.

Bent Rosnes

Re: Which one should I go for: HP 32sII or HP 42s
*Message #12 Posted by **Glen Kilpatrick** on 22 Feb 2003, 9:57 a.m.,*
in response to message #1 by Bent Rosnes

You can get a 42S for "app. $ 78"??? Most of us MoHPCers would love to learn more about this (and the stock will be cleaned out of whereever it is you can make this purchase within minutes), that's a very good price for either model, but especially the 42S.

Re: Which one should I go for: HP 32sII or HP 42s
*Message #13 Posted by **Massimo (Italy)** on 22 Feb 2003, 10:07 a.m.,*
in response to message #12 by Glen Kilpatrick

You can get a 42S for "app. $ 78"??? Most of us MoHPCers would love to learn more about this (and the stock will be cleaned out of whereever it is you can make this purchase within minutes), that's a very good price for either model, but especially the 42S.

Hi Glen!
I think everybody here would borrow your words... since I have enough of them for more than a lifetime I'll gladly pass my chance to somebody else who still misses it.
I only hope they won't go straight in a reseller's hands!

Best Regards,
Massimo

Re: Which one should I go for: HP 32sII or HP 42s
*Message #14 Posted by **Christof** on 22 Feb 2003, 4:33 p.m.,*
in response to message #13 by Massimo (Italy)

even with global priority shipping it would be half the price of a 42S in the states.....

boggle

Re: Which one should I go for: HP 32sII or HP 42s
*Message #15 Posted by **Scuba Diver** on 22 Feb 2003, 6:12 p.m.,*
in response to message #14 by Christof

Bent, when you go into the bookstore on Monday, check to see how many they have; for $78 US plus shipping, I'd buy one for sure! :)

I figured I'd have to wait for the hooplah to die down on eBay before the prices came back down to earth...

B.

Re: Which one should I go for: HP 32sII or HP 42s
*Message #16 Posted by **Bent Rosnes** on 24 Feb 2003, 5:06 a.m.,*
in response to message #15 by Scuba Diver

Well, I'm sorry to tell you that this morning I bought the last HP-42S the bookstore had (I paid 500 NOK or 71 US$). When the seller said it had been collecting dust for some years, I got a little worried. But when the self-test showed "OK-42S-E", I bought it right away.

Bent Rosnes (Norway)

Congrats! Welcome to the club!
*Message #17 Posted by **Vieira, Luiz C. (Brazil)** on 24 Feb 2003, 12:53 p.m.,*
in response to message #16 by Bent Rosnes

HI;

I'm glad "you made it"! Mostly because you did it with US$71.00.

Have you found the time to delve into the User's Manual (it worst the time spent on it, believe me) and still wanna go any further, there are many good and in-deep information at the Archieves, most of them from J.F. Garnier, who browse through the HP42S' memory somewhat far.

Enjoy your new tool!

Best regards.

Luiz C. Vieira - Brazil

my congrats too...
*Message #18 Posted by **R Lion** on 24 Feb 2003, 3:39 p.m.,*
in response to message #16 by Bent Rosnes

Enjoy this GREAT calc...and its price!

Raul

Re: Which one should I go for: HP 32sII or HP 42s
*Message #19 Posted by **Erik Ehrling (Sweden)** on 25 Feb 2003, 3:43 p.m.,*
in response to message #16 by Bent Rosnes

Congratulations! Best calculator ever made...

At least until HP re-engineeres it; basing it on a strong-arm cpu, adding some memory, using the four level lcd from the hp28c/s, adding local variable scope to the rpn programming, adding a rs232 port... Well, I guess we won't see that happen... :-(

/Erik

Re: New (Old!) HP-42s -- You will probably want to change the batteries . . .
*Message #20 Posted by **Paul Brogger** on 26 Feb 2003, 9:19 a.m.,*
in response to message #16 by Bent Rosnes

Deciphering the serial # should tell you where it was made, and how long ago.

Whatever it says, I'd assume it was too long for the factory-installed batteries, even if they seem to work fine. You may want to consider replacing them soon, with brand new Silver Oxide cells.

FWIW

-- Paul B.

Re: Which one should I go for: HP 32sII or HP 42s
*Message #21 Posted by **Frank Wales** on 22 Feb 2003, 7:10 p.m.,*
in response to message #1 by Bent Rosnes

I'd suggest that you buy them both, and put the one you don't want on eBay. I bet what it sells for will cover the cost of both calculators, and so you effectively have a free new HP calculator, and maybe even enough over to buy a drink to celebrate. :-)

For US$78 : buy both, or as many as they have
*Message #22 Posted by **Renato** on 23 Feb 2003, 9:59 p.m.,*
in response to message #1 by Bent Rosnes

I´m sure you´ll find a buyer.

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42's bug?
*Message #1 Posted by **R Lion** on 22 Feb 2003, 6:58 a.m.*

```
Could you, please, try this?:
Give wrong arguments for function COMB(ie: 1.2 enter 3 COMB)
so you get "Invalid data".
Now, give good arguments (like 9 enter 7) What's happen?


Thanks
Raul
```

Re: 42's bug?
*Message #2 Posted by **Massimo (Italy)** on 22 Feb 2003, 8:50 a.m.,*
in response to message #1 by R Lion

This is a well documented bug; please have a look here http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/articles.cgi?read=266
and here http://www.finseth.com/~fin/hpdata/hp42s.html

Hope this helps,
Massimo

Oops...
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 22 Feb 2003, 8:56 a.m.,*
in response to message #2 by Massimo (Italy)

Hi, Massimo;

as I was typewriting my post, you were a faster trigger!

Best regards...

Re: Oops...
*Message #4 Posted by **Massimo (Italy)** on 22 Feb 2003, 8:59 a.m.,*
in response to message #3 by Vieira, Luiz C. (Brazil)

You're welcome Luiz!
BTW: you beated me on the 32Sii vs 42S question ;) 1-1

Greetings,
Massimo

There is a 42's bug...
*Message #5 Posted by **Vieira, Luiz C. (Brazil)** on 22 Feb 2003, 8:53 a.m.,*
in response to message #1 by R Lion

... and J. F. Garnier (if I am not wrong) have already mentioned some experiences with it. Also, Graig Finset's HP42S database mentions something about it. I extracted part of the file: (may I, Craig?)

```
BUGS/ROM-Versions::


Bug/2 (as in 1/2 a bug):  Clear REGS (do CLV "REGS") and execute \GS
+.
RCL now recalls the contents of registers 00 through 120,930 (indirect
above 99).  You convert a hexadecimal address to a register number by
dividing by 16 and adding a constant (183 on the reporter's system,
but may vary).  Exit this mode by setting SIZE to any non-zero
amount.
Interesting addresses:


        1FFC2 to 1FFFF  copyright notice
        40300 to 40309  speed nybble, contrast nybble, clock


Do COMB or PERM with X > Y.  You correctly get "INVALID DATA".  Now do
X<>Y.  Do COMB or PERM again.  It should work.  Instead, you get
INVALID message again.  EXIT + \v/x does not clear this condition.
However, any arithmetic operation it! [reported by Rich Homard,
b645zjo@utarlg.uta.edu; posted to Comp.sys.handhelds on 29 Oct 1991]


John W. Loux adds: Some of the earlier HP42S calculators had this
problem.  This problem was fixed at one point.  However, in a later
HP42S update, the problem reappeared.  It seems that a combination of
```

```
hardware and software caused the problem.  When the hardware problem
was fixed, the software problem reappeared!  As far as I know, there
are no plans to fix the "bug" on the basis of the simple workaround.
The problem resurfaced in late REV B calcs and all REV C --- somewhere
between #3011 and #3055 is my understanding.
```

Hope this helps.

Best regards.

Luiz C. Vieira - Brazil

Re: There is a 42's bug...
*Message #6 Posted by **R Lion** on 22 Feb 2003, 9:38 a.m.,*
in response to message #5 by Vieira, Luiz C. (Brazil)

```
Well, thanks to both of you: I'm newby with the 42...
Is the next behaviour documented too?
(CAUTION: possibly you lose the memory!)
a) ClearSigma
b) Choose the linSigma mode in the Stat menu.
c) Write a Nx2 matrix with stat data and press Sigma+
What is happenning now? Pess MEM in Catalog menu...
Raul
```

Re: There is a 42's bug...
*Message #7 Posted by **Massimo (Italy)** on 22 Feb 2003, 10:00 a.m.,*
in response to message #6 by R Lion

Looks like it is related to **Bug/2** (see Craig Finseth's site at previous post)...

My compliments! You are a true *bug smasher* :-)

Greetings,
Massimo

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HP34C Repair
*Message #1 Posted by **Ulrich Viebahn** on 22 Feb 2003, 2:45 a.m.*

I bought a HP34C whose display stays dark when I am applying 3 Volts to the battery contacts. Disassembling the calculator I found on the small analog board two cut wires.

Could a missing component be the reason?

Who could provide me with a electronic schematic, please? Does anyone have servicing instructions?

Thank You in advance

Re: HP34C Repair
*Message #2 Posted by **Vassilis Prevelakis** on 22 Feb 2003, 7:12 a.m.,*
in response to message #1 by Ulrich Viebahn

```
> I bought a HP34C whose display stays dark when I am applying 3 Volts to the
battery contacts.
> Disassembling the calculator I found on the small analog board two cut wires.
```

Without additional information on the location of the "cut wires" I can only speculate. If by "cut wires" you mean wires hanging from the PCB but going nowhere, they could be test leads added by the previous person who tried to fix the calculator. In this case your chances of fixing it are slim.

If by "cut wires" you mean a jumper that was removed by cutting the endpoints close to the PCB, then you may be looking at the US/EU decimal point jumper. I think that if the jumper is in place, the Series 30 calculators display a dot (.) as the decimal point and a comma (,) as a thousand separator. If the jumper is removed then the two symbols are reversed. Note that I could have this the other way round as I am away from my notebook.

```
----------------
```

Since you have disassembled tha calculator you should note that the analog PCB is connected to the main keyboard assembly via a pressure pad. Since the LED display is connected to the main keyboard assembly via a another pressure pad, if either pads are not making contact, the display will be blank. Verify that good contact is made on the analog PCB - keyboard assembly interface. If this is OK, then take out the LED display assembly and reseat it. This may fix the problem.

Good luck.

**vp

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Whither HP-10C?
*Message #1 Posted by **Patrick** on 21 Feb 2003, 9:37 p.m.*

There are no end of HP-11C's, HP-15C's and, of course, HP-12C's available for purchase on eBay. There are also a good number of HP-16C's.

Although I've only been looking for a couple of weeks, I've yet to see an HP-10C.

Were these things just not very popular in their time? If HP didn't sell very many of them it would account for the paucity of auctions.

10C Auction just ended 2/17
*Message #2 Posted by **Spice_Man** on 21 Feb 2003, 9:43 p.m.,*
in response to message #1 by Patrick

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3007493869&category=11713

They are the rarest of the Voyager series...

Spicey

Re: 10C Auction just ended 2/17
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 21 Feb 2003, 10:51 p.m.,*
in response to message #2 by Spice_Man

Hi;

based on what I have seen at e-bay, US$330,00 for a complete in box (not mint) HP10C is a sign that prices for this particular item are getting a bit low...

Comments?

Re: 10C Auction just ended 2/17
*Message #4 Posted by **Spice_Man** on 21 Feb 2003, 11:13 p.m.,*
in response to message #3 by Vieira, Luiz C. (Brazil)

Yes I agree. 11Cs have taken off for some reason... 17BIIs and 32SII's are going up as well, understandably due to HP's ending their production. But the high-end has been going down in price.

Sign of the times perhaps...

Spicey

Re: 10C Auction just ended 2/17
*Message #5 Posted by **Patrick** on 22 Feb 2003, 12:00 a.m.,*
in response to message #3 by Vieira, Luiz C. (Brazil)

Are you kidding me? The least powerful of the Voyager series going for $330 and you say that is low? Yikes.

Why would the low end model be so valuable??

I guess I won't be buying my 10C anytime soon.

Re: 10C Auction just ended 2/17

*Message #6 Posted by **Vieira, Luiz C. (Brazil)** on 22 Feb 2003, 2:00 a.m.,*
in response to message #5 by Patrick

Hi;

please, do not take it as simply the least powerfull. From some time ago (take more than a year) we've been discussing the "collectible X actual value" battle. Many long threads were issued to this subject.

The low end models like the HP21, HP31, HP10C (big target) are rare for many reasons, being thrown-away one of them. They were produced in low numbers and for a short period of time when compared to the top-level ones. You may simply compare it to the other Voyagers, HP12C not counted, and see that the other three are relatively easy to find at e-bay. No mention to theyr prices...

The HP10C without the box (a separate issue, indeed) have already reached and being over US$400.00. A complete, mint unit may be sold for about US$600.00 or more, depending on the buyer. That's what collectors ONLY are for (many contributors in here are collctors and users, I'm not talking about them): raising collectible items' prices.

Being a powerfull calculator will not change the fact it is a rare calculator or not for collectors.

I use and work with all of my calculators. Well, some are used a few times, like the HP25 and the HP31. One that is teasing me is the HP55. The only one that actually perform x<=y and x=y by the keyboard. Yes, it jumps to the specified program step if test is true or keeps program in current step if test is false even if you perform the test by the keyboard. AFAIK, no other model allows it.

Hope this helps understanding why is the HP10C so expensive. It's a fictitious price, not an actual price.

Cheers.

Re: 10C Auction just ended 2/17

*Message #7 Posted by **Bert Keuken** on 22 Feb 2003, 11:04 a.m.,*

in response to message #2 by Spice_Man

...and I bought one for US$ 35 two years ago. Still works like a charm. A bit slow, my 32SII is a bit faster, but nice to use.

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HP-71b lex: CUSTUTIL “Customization Utilities lexfile"
*Message #1 Posted by **Alain (Canada)** on 21 Feb 2003, 7:01 p.m.*

Hello all,

I'm looking for LEX CUSTUTIL “Customization Utilities lexfile”. This lexfile is a must for those who plan to market their programs to the “real world”. SIZE: 1007 bytes." (description from Joe Horn's HP-71 LexFile List).

Any help is welcome ..

Regards

Alain Robillard

Re: HP-71b lex: CUSTUTIL “Customization Utilities lexfile"
*Message #2 Posted by **Alain (Canada)** on 24 Feb 2003, 6:38 a.m.,*
in response to message #1 by Alain (Canada)

Hello,

I got what I was looking for ... Many thanks to Tony Duell for his help and for his set of Linux tools "lif_utils -- LIF Utilities for linux v1.4" ...

Alain

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HP-67 Diagnostic Prg SD-15C
*Message #1 Posted by **Daniel Conde** on 21 Feb 2003, 6:56 p.m.*

Hi, I'm looking for the Diagnostic Program SD-15 C (or later) program listing, belonging at the HP-67 Standard Pack. Thanks :)

Re: HP-67 Diagnostic Prg SD-15C
*Message #2 Posted by **Jürgen (CH)** on 23 Feb 2003, 4:04 p.m.,*
in response to message #1 by Daniel Conde

I have both, the SD-15A and SD-15C magnetic cards and program listings (but with german comments). I think the A is for the HP-67, and the C is for the HP-97. Is this correct?

I you like I can scan the listings and send it to you. Let me know.

Regards, Jürgen

Re: HP-67 Diagnostic Prg SD-15C
*Message #3 Posted by **Nenad Vulic (Croatia)** on 24 Feb 2003, 4:08 a.m.,*
in response to message #2 by Jürgen (CH)

As far as I remember SD-15C is the new release of the SD-15A, extended and improved. The listing of the SD-15A was given in the manual of the Standard Pac. SD-15C was added by a small notice as addendum to the manual, without the listing, but recorded on the magnetic card.

Both releases were intended for both machines, ie. HP67 and HP97.

Re: HP-67 Diagnostic Prg SD-15C

*Message #4 Posted by **Daniel Conde** on 24 Feb 2003, 3:38 p.m.,*

in response to message #2 by Jürgen (CH)

Hi Jurgen,

Fortunately, I've got already the SD-15C program listing, but perhaps you can help me a little bit. Could you send me the SD-15C error codes listing? A scanned jpg file will be very useful (for instance: 45 means a Flag 0 malfunction). Thanks in advance.

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HP-41 Advantage
*Message #1 Posted by **Monte Dalrymple** on 21 Feb 2003, 5:41 p.m.*

Can anyone explain (or point to an explanation) how the bank switching in the Advantage module is done? Presumably there is a mechanism in the module that recognizes which bank it should be returning and does the selection. I would like to be able to emulate the module in a FLASH/RAM box that I am designing. I know how to do regular modules and X memory but can't find a reference to this functionality. Thanks in advance.

Monte Dalrymple

Re: HP-41 Advantage
*Message #2 Posted by **Tony Duell (UK)** on 21 Feb 2003, 6:26 p.m.,*
in response to message #1 by Monte Dalrymple

There's some information on bank switching in the ZenROM and/or ZEPROM manuals. Basically, there are 2 instructions that are NOPs to the Nut processor, but which the bank-switched ROM chip recognises and acts upon. They select the primary or secondary bank of the 4K ROM they're executed from. There's also a conventiuon that there are short routines at the top end of each bank-switched 4K chip to select the primary or secondary bank of that chip and then return. I can look up more details if you're interested.

Re: HP-41 Advantage
*Message #3 Posted by **Monte Dalrymple** on 21 Feb 2003, 7:38 p.m.,*
in response to message #2 by Tony Duell (UK)

Ahh, that was the clue I needed. No mention of this in the Emery book, which is what threw me. Found it in the source code of Warren Furlow's emulator. For anyone interested, ENBANK1 is 100 hex, ENBANK2 is 180, ENBANK3 is 140 and ENBANK4 is 1C0. Now I'm off to the ROM images to see exactly how it's done. Thank you Tony.

Monte Dalrymple

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Museum CD/DVD
*Message #1 Posted by **Joe Edwards** on 21 Feb 2003, 1:59 p.m.*

Hey, I am looking at purchasing the DVD and wanted some advice. Be warned I am a newbie and have many questions:

1. What are the quality of the scans?

From my understanding, I can input data into the 41cx with a bar code reader, correct? Which of these books have the bar codes in them?

2. I would think that I could just print a page and then scan the barcode. Is this possible?

thanks.

Joe

Re: Museum CD/DVD
*Message #2 Posted by **Tony Duell (UK)** on 21 Feb 2003, 6:21 p.m.,*
in response to message #1 by Joe Edwards

Remmeber that the manuals on these CDs were scanned by many people. They're not all the same quality -- the quality depends somewhat on the quality of the scanner used, and rather more on the quality of the original. I've just bought a set of these CDs (_GREAT VALUE_ by the way...). I found that most manuals were very clear, but one or two were not so good. The HP85 service manual is one of the worst I've seen, but I am _sure_ that's because the original wasn't very good. And it's certainly a lot better than nothing. I've learnt a lot from these CDs, and feel that I've got my money back many times over. As regards the HP41 data, yes, you should be able to print out the barcodes and then scan them back in with the wand. However, I am not sure how reliable this will be (I've not tried it, but I've had a lot of problems with photocopied barcodes in the past). I am also not sure how many of the solution books have had the barcodes included. I would guess that he barcode pages from the 3rd party books (Wlodek's book, etc) are included. However, I have read in the barcodes from many HP41 books and

solution books and saved them on 9114 disk. I can provide copies of these programs as text-file listins, as .raw files to copy back to lif disks or use with emulators, as postscript files of the barcodes, or as barcode data files. The last is my own format (but I'll tell you what it is) that you can easily turn into printed barcode, or whatever. If there's a book you particularaly want the programs from, feel free to ask if I have it.

Re: Museum CD/DVD
*Message #3 Posted by **Jeffrey Davis** on 21 Feb 2003, 6:30 p.m.,*
in response to message #2 by Tony Duell (UK)

I would be interested in the barcodes from the Extended Functions Made easy. Or even the program listings. Can anyone help with this?

Re: Museum CD/DVD
*Message #4 Posted by **Kris Collins** on 22 Feb 2003, 8:42 a.m.,*
in response to message #3 by Jeffrey Davis

This book is listed as being on the CD/DVD.

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A good sign for new HP Calculators

*Message #1 Posted by **JaSon** on 21 Feb 2003, 4:31 a.m.*

HP has bothered to get at least one good distributor for HP calcs. Walmart now sells the HP 9g (online only right now), and they aren't undercutting their distributors this time by selling the calcs cheaper on hpshopping. It's only 34.94 thru walmart vs 39.99 on the hpshopping page

http://www.walmart.com/catalog/product.gsp?product_id=2129288&cat=4488&type=19&dept=3944&path=0%3A3944%3A3951%3A4488

Re: A good sign for new HP Calculators

*Message #2 Posted by **Glen Kilpatrick** on 21 Feb 2003, 5:02 p.m.,*
in response to message #1 by JaSon

And the 9S is at http://www.walmart.com/catalog/product.gsp?product_id=2129289&cat=4488&type=19&dept=3944&path=0%3A3944%3A3951%3A4488 ....

Not really a good thing

*Message #3 Posted by **Joe Edwards** on 21 Feb 2003, 5:43 p.m.,*
in response to message #1 by JaSon

These calcs seem to be pretty much fluff that are outsourced from other companies which just stick a HP logo on them. Where is the RPN? Where is the SOLID construction of the previous HP calcs? Where is HP's support of todays professionals? Why do we have to put up with "ergonomic" shapes and silly colors? I don't even see why HP is trying at this point. They themselves ended any change of a triumphant return in the calculator market. TI pretty much has it wrapped up now, especially in the education field. What I want to know is who is to fill the gap that HP used to fill in regards to engineers, mathematicians, computer scientists, etc?

Joe

Re: Not really a good thing
*Message #4 Posted by **Larry Corrado** on 21 Feb 2003, 8:54 p.m.,*
in response to message #3 by Joe Edwards

I agree with you on your assessment of the present generation of HPs. but...

Is there really a "gap?" If I have an "immediate" calculation to do, I do it on my HP-15C at home or my TI-xx at work. If it's a bit more complex, or maybe one eith a lot of input data or where I want to save the data, I'll use a spreadsheet. If it's more complicated, I'll write a routine in a high-level programming language, Java or Visual Basic... I'm not going to reach for a calculator.

Don't get me wrong.. I like calculators. I have dozens of them. I love looking at them, testing their features, rejuvenating them, researching their history. But they're not what I reach for first if I have a serious calculating need.

IMHO, Larry

Re: Not really a good thing
*Message #5 Posted by **Joe Edwards** on 21 Feb 2003, 10:09 p.m.,*
in response to message #4 by Larry Corrado

True, very true. Nowadays, I guess a computer takes care of many situations, relegating calculators to situations where quick calculations are needed. Nonetheless, it would be nice if the quality of their calculators was greater. Flash and appearance don't impress me at all. The idea of a piece of equipment going strong after 2 decades does. Too many things these days are simply disposable. These companies no longer look at the long term...it definately isn't just calculators. :(

Joe

Re: Not really a good thing

*Message #6 Posted by **Christof** on 22 Feb 2003, 4:17 p.m.,*

in response to message #4 by Larry Corrado

I disagree. There are a lot of times where I dont' want to use- or don't want to carry- a computer.

oh, it's fine if you live at a desk! But even in a lab, it's easier to cart around a 41CX and have data entry, alarm fuctions, and the ability to solve complex interactions than to cart around a laptop, power cord, deal with no breaking hinged screens.....

Tell d.b. that a computer is easier in the field surveying. or a geologist.

In the same amount of time it takes a comanion to retreive a machine, boot, get into forte for java, and start working out code, I can complete a basic test algo on a 28, 48, 41, or even 42 (you have to sort of build some libraries for these examples) for an natural language or "experintial learning" problem and have the problem and solution definitions on the white board.

Yeah- most people don't need all the functions that were found in a 42S, or a 41CX, or a 67 for that matter. But they were there for a reason and got used. I don't think the utility is gone, I think people just have been programmed to need chrome by the ton.

After all, I could just as easily have put down the calculator and used my Commodore PET in the early 80s- nothing has really changed in that regard.

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Hp-28S insights book
*Message #1 Posted by **Scuba Diver** on 21 Feb 2003, 12:52 a.m.*

Hi everyone!

Over the past while, I've seen the above-captioned book mentioned a few times in various threads; is this available in .pdf (with the author's permission, of course!) or is it still available for sale?

Is this a valuable companion to my trusted 28S or is it simply a watered-down version of the manual?

B.

Re: Hp-28S insights book
*Message #2 Posted by **Juergen Rodenkirchen (GER)** on 21 Feb 2003, 2:45 a.m.,*
in response to message #1 by Scuba Diver

Well, it's written by Dr. Bill Wickes who was - as you might know - the design team leader of the HP28 (I think) and HP48 (I'm sure) machines. So you can imagine that the book will provide an excellent source of information ... I've to admit that I've read the "HP48 Insights" books only so far. But those are great, providing a wealth of information you may not find or understand ;-) in the owner's manuals. However, I do think that you can not compare the manual and Bill's books as they do have different foci/intentions; they are worth reading both!

Juergen

Re: Hp-28S insights book
*Message #3 Posted by **Christof** on 22 Feb 2003, 4:36 a.m.,*
in response to message #2 by Juergen Rodenkirchen (GER)

but neither of them seem to be very easy to order..... where do you find them?

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48G and 38G Manuals in PDF ?
*Message #1 Posted by **Roberto Flores** on 20 Feb 2003, 10:25 p.m.*

Does anyone knows where to download the manuals for the 48GX and 38G in PDF format ?

Thanks.

Re: 48G and 38G Manuals in PDF ?
*Message #2 Posted by **Diego Diaz** on 21 Feb 2003, 7:21 a.m.,*
in response to message #1 by Roberto Flores

Hi Roberto,

Try this:

http://www.hpcalc.org/hp.php

They have a scanned HP48G Series User's Guide, along with a huge amount of other HP's caculators stuff, a real good place to take a look at.

The file is a 16MB .zip (612pages) so relax while downloading ;-)

Can't confirm about 38G, sorry.

Cheers from the sunny Canary Islands!

Diego.

Re: 48G and 38G Manuals in PDF ?

*Message #3 Posted by **Ron Ross** on 21 Feb 2003, 8:17 a.m.,*

in response to message #2 by Diego Diaz

The Hp39G manual is also available at hpcalc.org also. This manual is 95% comparable to the 38G from a users perspective. Should do fine for most purposes.

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Getting into the 39G
*Message #1 Posted by **M@ G** on 20 Feb 2003, 9:19 p.m.*

Does anyone know how to open up the 39G? The case seems to devoid of any screw holes or similar, does the case just "clip" off or is it more complicated?

M@

Re: Getting into the 39G
*Message #2 Posted by **Ron Ross** on 21 Feb 2003, 8:24 a.m.,*
in response to message #1 by M@ G

In the battery compartment are two heat stakes (just like the 48G, in fact look in Hpcalc.org for descriptions on how to open a 48 or 49, both will apply).

These calcs were never meant to be serviced, just what are you plannning to do? I opened a 39g to look at, and while it is somewhat different than a 49G, a 49G is available to view at Hpcalc.org (same CPU, and upper chip locations).

Memory cannot be expanded and CAS cannot be implemented via removal of IR or pulling the CPU address pins to said IR circuit (I cannot confirm other pins for other chips as I just gave up and put back together to use).

My 39G snapped back together and seems to be as new (but I know better).

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Variants of HP-32SII
*Message #1 Posted by **Patrick** on 20 Feb 2003, 7:30 p.m.*

I've noticed that the "brown" version of the HP-32SII fetches a higher price on eBay than it's "silver" variant. Is this simply a function of availability or is there a quality difference?

Also, am I right to assume that the silver variant is the more recently built?

Re: Variants of HP-32SII
*Message #2 Posted by **Gordon Dyer** on 20 Feb 2003, 7:53 p.m.,*
in response to message #1 by Patrick

I have recently acquired a 32SII which is 2001, Indonesia. It is Silver/black and has nice keyboard feel with a good contrast, clear display. The only downside is that the shifted key colours and legends are white and turquose/green. I prefer the traditional orange and blue colours, but the contrast is ok so it is down to personal preference.

Re: Variants of HP-32SII
*Message #3 Posted by **Randy Sloyer** on 20 Feb 2003, 8:58 p.m.,*
in response to message #2 by Gordon Dyer

FWIW, the early Singapore brown models had double-shot keytops instead of printed legends. Result is they never scratch off. Second thing, the Singapore models had better keyboards, that is they lack the clicking and popping that some of the Indonesian models exhibit.

Re: Variants of HP-32SII
*Message #4 Posted by **Ed Martin** on 20 Feb 2003, 10:25 p.m.,*
in response to message #3 by Randy Sloyer

I have owned three variants of the 32SII, which have the following attributes:

1) Early Singapore production - double shot keys, good key feel (no "sticky snap" sound), brown bezel with good quality orange/blue printing. I'm not sure when production transitioned from Singapore to Indonesia, but I think it was mid to late 1990's

2) Early Indonesia production - printed keys, some keys have "sticky snap" sound, brown bezel with still OK orange/blue printing. Note that printed keys are dull (the double shot ones are shiny).

3) Late Indonesia production - printed keys, some keys have "sticky snap" sound, silver bezel with green/lilac printing.

Quality really seems to have gone downhill on this last batch. If you look carefully, the bezel stamping itself is different (especially noticeable in the detail around the LCD - does not have the clean "double step" around the LCD) and in fact, there seems to be a dimensioning problem, since the bezel is bent upward from the middle of the top row of keys. Also, the print registration on later models is poor. It is not unusual to have the green row printed above or below the lilac on at least part of the keyboard.

Unfortunately, my 32SII that died was an early Singapore model. The ENTER key died, probably from overuse.

- Ed

Re: Variants of HP-32SII
*Message #5 Posted by **Gordon Dyer** on 21 Feb 2003, 2:24 p.m.,*
in response to message #4 by Ed Martin

I seem to have been lucky (so far) as my Indonesian silver bezel 32SII, ID13800466 has not got the sticky click on the keys and the print registration is ok. Perhaps with more use the keys will begin to stick, but not yet!
I knkow what the problem is like because I have a 10B which I can't use.

Re: Variants of HP-32SII

*Message #6 Posted by **Vincent FONTAINE** on 27 Feb 2003, 3:34 p.m.,*
in response to message #5 by Gordon Dyer

I have bought an Indonesian model and not an Singapore model because I have preferred the colours of keys (green and lilas) and the silver color of the bezel. I think colours of the last models is better to show functions on keyboard.

My model works without problem and I have no sticky clicks

Vincent.

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41 cx LCD question
*Message #1 Posted by **Joe Edwards** on 20 Feb 2003, 7:29 p.m.*

I am looking at a 41cx that might have a problem and I need ya'lls' advice.

If I put in a command like XEQ CLOCK as I press the keys I get LCD "garbage" on the right side of the screen (sometimes).

BUT, if I press ALPHA and just randomly put in letters it happens much less often.

Any ideas what could be causing this. Is this a loose connection?

Joe

Re: 41 cx LCD question
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 21 Feb 2003, 12:16 a.m.,*
in response to message #1 by Joe Edwards

Hi;

can you identify what type of 41 is yours? Say, is it a fullnut or a halfnut?

Externally you'll have differences in the LCD module and in the key-pressing feeling. Look at the picture below.

(picture unavailable)

If it is a fullnut, chances are you have just a bad contact between the conductive polymer and the LCD, or even a faulty, cold soldering in the LCD assy.

Please, let us know.

Best regards and success.

Luiz C. Vieira - Brazil

Re: 41 cx LCD question
*Message #3 Posted by **Joe Edwards** on 21 Feb 2003, 12:42 a.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

Ah, I forgot to mention it is a full nut. From my understanding the fullnut has a more complicated electronics vs. the halfnut. Correct?

What are my options if it is a bad contact or solder. I can eaisly build a PC from scratch, BUT the idea of taking one of these apart is rather unnerving.

Joe

Re: 41 cx LCD question
*Message #4 Posted by **Vieira, Luiz C. (Brazil)** on 21 Feb 2003, 1:18 a.m.,*
in response to message #3 by Joe Edwards

Hi, Joe;

actually, the fullnuts are the ones that allow repairement, against the simple yet hard-to-repair SMT-fashion halfnuts technology. The fullnut's LCD assy allows you to remove and, in some circumstances, successfully repair it.

In your case, I would first try to resolder the small metal contacts (bridges) connecting the LCD assy to the keyboard PCB. I built a PDF with some pictures that show a step-by-step procedure to open a fullnut and remove th LCD assy. Of course, you'll see how to get there and resolder the bridges, right?

I sent you an e-mail with the e-address you can download the LCD_remove.pdf.

Success.

Re: 41 cx LCD question
*Message #5 Posted by **Johnny Bjoern Rasmussen** on 21 Feb 2003, 2:40 a.m.,*
in response to message #4 by Vieira, Luiz C. (Brazil)

Hi Luiz

Can I have the LCD_remove.pdf too?

Thanks! Johnny

Re: 41 cx LCD question
*Message #6 Posted by **Raymond Del Tondo** on 21 Feb 2003, 8:49 a.m.,*
in response to message #5 by Johnny Bjoern Rasmussen

Hi,

I'd like to have a copy, too. Thanks in advance.

Raymond

Re: 41 cx LCD question
*Message #7 Posted by **David Smith** on 21 Feb 2003, 6:00 p.m.,*
in response to message #1 by Joe Edwards

You need to open up the machine and clean all the pressure contacts with alcohol. Also clean the back of the LCD and the LCD connections with alcohol (I use 90%+ isopropyl). Do not let it drip onto the LCD window as it will leave a white stain that would need to be polished out... if on the inside of the screen you would have to remove the LCD module. I have found a LOT of flakey display problems due to invisible contamination on the LCD or contacts. Also go down the row of LCD connections and gently pry upwards on them... bad connections will pop loose and need to be resoldered.

As a last resort the HP41 service manual on the HPMUSEUM CDROM set has instructions on disassembling and cleaning the LCD module itself... a definite last resort.

LCD Fix - 41cx breakdown

*Message #8 Posted by **Joe Edwards** on 21 Feb 2003, 7:02 p.m.,*

in response to message #7 by David Smith

David, I guess you have had this problem yourself. I spoke to someone else who has a 41cv and a 41cx. He has the problem with both of them. Contacts,huh? Are you talking about the key contacts, or what? I can probably do the work with if you can give me some framework on how to do this.I have no desire to damage my baby. Thanks.

Joe Edwards

Re: LCD Fix - 41cx breakdown

*Message #9 Posted by **David Smith** on 22 Feb 2003, 3:30 p.m.,*

in response to message #8 by Joe Edwards

No, the contacts are those 16 or so little straps that bridge the LCD module to the keyboard. The other display contacts to worry about are the rubber zebra strips that connect the LCD glass to the LCD circuit board... that is talked about in the HP41 service manaual.

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HP 17BII
*Message #1 Posted by **Henry Kolesnik** on 20 Feb 2003, 6:33 p.m.*

This was my daughters calculator and I didn't realize that now its working it is not RPN. Can it be set to RPN? I'm guessing that I'll not find the manual unless I'm really lucky and wonder where if they're available. tnx hank wd5jfr

Re: HP 17BII
*Message #2 Posted by **Raymond Del Tondo (Germany)** on 20 Feb 2003, 7:10 p.m.,*
in response to message #1 by Henry Kolesnik

Go into the modes menu to switch to RPN.

Raymond

Re: HP 17BII
*Message #3 Posted by **Glen Kilpatrick** on 20 Feb 2003, 7:48 p.m.,*
in response to message #1 by Henry Kolesnik

Henry, if you'll look at my http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/forum.cgi?read=27657 posting, you'll see that in some ways this isn't a "real" RPN (and in some it is). Others found this in the manual, I just happened across it in testing (uhhh, playing).

Re: HP 17BII
*Message #4 Posted by **Scuba Diver** on 20 Feb 2003, 10:20 p.m.,*
in response to message #3 by Glen Kilpatrick

I tried it on my 19BII and guess what...same result!

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HP97 thermal rolls
*Message #1 Posted by **Malcolm** on 20 Feb 2003, 6:30 p.m.*

I have a hp97 and am running low on the blue paper.

I remember that you can't use the black 82175A paper since Hp claimed it would wear out the head.

I have some of this 82175A paper and would like to know of any opinions of using this or other papers. If other papers are ok then could you state part no's and suppliers.

Thanks Malcolm

Re: HP97 thermal rolls
*Message #2 Posted by **Michael Meyer** on 20 Feb 2003, 9:38 p.m.,*
in response to message #1 by Malcolm

Hi Malcolm.

I've been running standard (black) thermal paper through my HP's without any difficulty. I suspect that, "paper is paper", and I don't see how a print head could tell whether it is heating up black paper or blue paper. This is just my opinion. Maybe the paper was smoother, but I can't imagine that black paper is more abrasive than blue paper.... and I don't see how the thermal properties could be that different.

I did hear that every division of HP lost money last year except for its ink, paper, and toner division, which made billions of dollars and made up for all of the other divisions' losses. I've also heard that HP loses money on their printers, but makes it up many times over with ink sales. (Thus, giving away the razor and selling the blades...) I'm sure that's why they caution so strongly against using anything other than their brand, though I've been refilling ink since the Thinkjet days with no problems, other than not having the ability to fill in a vaccuum and then have the ink expand into the channels of the cartridge in a nitrogen atmosphere.... a guy who sells ink refills for a living tells me the best way is to fill cartridges and let them sit a few weeks, rather than using them immediately... but that's another topic. HP has begun using

"smart chips" to deter refilling, but I've kept my HP 2000C's running for years by refilling.

So, my guess is that they were trying to scare people into just using their paper.

Anyone had any trouble with "standard" thermal paper?

Michael

Re: HP97 thermal rolls
*Message #3 Posted by **Katie** on 20 Feb 2003, 10:00 p.m.,*
in response to message #2 by Michael Meyer

I've been using NCR thermal paper rolls that I buy at Staples in my HP printing calculators with no trouble at all. They sell 2 1/4" x 85' rolls (perfect for the 97, 82240A/B, etc.) and 2 1/4" x 165' rolls for the 9815, 9825, etc.. They also sell 1 1/2" x 14' (shorter than the HP rolls, but they work fine) thermal paper rolls for use in the HP 19C and 10A calculators. Search for part number PMF5228 on their web site, they don’t sell this stuff in the stores.

Re: HP97 thermal rolls
*Message #4 Posted by **Malcolm** on 20 Feb 2003, 11:44 p.m.,*
in response to message #3 by Katie

Hmmm, just looked up PMF5228 and they came up as 1 1/2" x 14' - not 2 1/2"

Re: HP97 thermal rolls
*Message #5 Posted by **Spice_Man** on 21 Feb 2003, 12:08 a.m.,*
in response to message #4 by Malcolm

That't what she said, that the 1 1/2 x 14' were PMF5228, and it fits the HP 19C and the 10A.

Spicey

Re: HP97 thermal rolls

*Message #6 Posted by **David Smith** on 21 Feb 2003, 6:04 p.m.,*

in response to message #1 by Malcolm

Any office supply store sells the NCR thermal paper. A pack of nine rolls sells for $9 or less. It is used as thermal paper for gas pump receipt printers, etc. The NCR paper is VERY nice and smooth. Gives really nice printouts. I know a guy who has run well over 50 rolls through his HP97 without problem.

It is best to avoid the HP black paper ('175)... it might actually be hard on the printheads. The proper HP blue paper is all well past its prime and generally prints very poorly if you can find it.

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hp 20s RNG
*Message #1 Posted by **John** on 20 Feb 2003, 4:05 p.m.*

Hello All: I'm using a HP 20S, I know, please forgive, without RPL. I have tried very hard with a limited math backgound to add lines to the Random Number Generator Sample Program (pgs 75-76 owners manual) to constuct a Scaled Random Number Generator with no sucess. I have been using 101 and 0 for the upper and lower limits and adding that command to either the eighth and ninth command lines with no success. Yes, I know I am a biologist and shouldn't wonder far that science but I want to because this calcualtor is cool and more mobile than a computer.

Re: hp 20s RNG
*Message #2 Posted by **eg** on 20 Feb 2003, 6:55 p.m.,*
in response to message #1 by John

```
John,


If you store the lower limit in register 1 and the upper limit in register 2, then
the following code should work for you.  Note that the first nine lines are the same
as in the manual.  The extra lines are added to the end.


For the example you gave, store 0 in register 1 and store 101 in register 2 before
calling the program with XEQ A.  Each time you hit XEQ A, you will get another
random number in the range defined by the numbers in register 1 and register 2.


Also, if this is the only program in memory, you can make sure that it is entered
correctly by looking at the checksum, which should be 0xd229.  Press SHOW when in
program mode to display the checksum.


-eg.


< Original Code in the manual >
01 LBL A
02 RCL 0
03 x
04 9
05 9
06 7
07 =
08 FP
09 STO 0
```

```
< New code that returns a random number in the range
  defined by register 1 and register 2 >
10 RCL 2
11 -
12 RCL 1
13 =
14 x
15 RCL 0
16 +
17 RCL 1
18 =
19 RTN
```

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HP 17B II
*Message #1 Posted by **Henry Kolesnik** on 20 Feb 2003, 12:19 p.m.*

After laying idle for some time I finally installed new batteries and nothing happens. I can find the manual and I recall that there's a key sequence to reset it. Any tips appreciated. tnx hank wd5jfr

Re: HP 17B II
*Message #2 Posted by **W. Bruce Maguire II** on 20 Feb 2003, 12:47 p.m.,*
in response to message #1 by Henry Kolesnik

Henry:

Do a machine reset (does *not* erase memory):

Hold down CLR and press the third menu key (from the left). The manual says "repeat if necessary". That should do it.

If you ever want/need to do a *complete* machine reset *and clear* (which *erases* the continuous memory), then this is done by pressing three keys simultaneously: CLR and the first and last menu keys.

Hope that does it!

Bruce.

Re: HP 17B II
*Message #3 Posted by **Henry Kolesnik** on 20 Feb 2003, 1:32 p.m.,*
in response to message #2 by W. Bruce Maguire II

Nope, it didn't work. Are there any other sequences or tests to do to find out if it's trash or not? I'll even open it, what have I to lose? tnx hank wd5jfr

Re: HP 17B II
*Message #4 Posted by **Christoph Giesselink** on 20 Feb 2003, 5:48 p.m.,*
in response to message #1 by Henry Kolesnik

Hello I had newly a similar problem with a HP32SII. I removed the batteries and pressed the ON key to be sure that the calculator is complete powerless to examine the reset state at power up.

After I reinserted the batteries nothing happened any more. I wasn't able to power up the calculator. After some tries, finally I removed one battery and reinserted it, _while_ I held down the <ON> key. And how wonderful, after releasing the <ON> key, the calculator worked again.

Christoph

Re: HP 17B II
*Message #5 Posted by **Henry Kolesnik** on 20 Feb 2003, 5:55 p.m.,*
in response to message #4 by Christoph Giesselink

I tried inserting the batteries while holding down the ON but no luck. More ideas? tnx hank wd5jfr

Re: HP 17B II
*Message #6 Posted by **Spice_Man** on 20 Feb 2003, 5:59 p.m.,*
in response to message #5 by Henry Kolesnik

Try shorting the battery terminals for a few seconds with the batteries out. Reinsert batteries and turn on.

If that fails, try shorting the battery terminals again with the batteries out, insert batteries, then short the terminals again with the batteries in (you'll need a piece of wire for that), then turn on.

If that fails, it may be dead...

in which case, you might try torqueing the case length-wise slightly, to see if you can get the keyboard contacts to hook up (if that is the problem...). Do this only as a last resort.

Spicey

Re: HP 17B II

*Message #7 Posted by **Henry Kolesnik** on 20 Feb 2003, 6:18 p.m.,*
in response to message #6 by Spice_Man

No luck shoring the terminals with batteries out and I was hesitant to short the terminals with batteries in because it didn't make sense so I got my voltmeter out and checked the batteries, and they were nearly dead. Luckily I had another set, tried them and it works. Once again I'm too trusting, I'm positive they were new but now I'm not so sure but I'm happy its working. Moral of the story, if new batteries don't solve the problem check and see if they're new by checking with a meter. I've had about 10 different HP calculaotrs, and many got abused over and over and I've never had one die on me yet. HP makes good calculators! tnx hank wd5jfr

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41CX Finance Module?
*Message #1 Posted by **Mike Rivera** on 20 Feb 2003, 10:24 a.m.*

Hi:

I'm awaiting the arrival of my first 41CX (upgrading from a 48) and would like to have the financial funtions of a 12C available.

Do I need the Financial Decisions module or Securities module or something else?

What about the Advantage module?

Is there an on-line listing of what each module specifically includes?

Sorry if this has been asked before (I searched the archives, but just got more confused).

Thanks in advance.

- Mike

Re: 41CX Finance Module?
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 20 Feb 2003, 10:31 a.m.,*
in response to message #1 by Mike Rivera

Hi, Mike;

Two options for you:

1 - adding a ROM module, and the Financial Decisions is the closest you have to the HP12C
2 - programming the calcualtor so it will do what you want

Almost everything in the HP12C may be emulated in an HP41CX, having the Finance module

or not. With the module is easier.

I have the three of them: the HP12C, the HP41CX and the Financial Decisions Module. And they all work well.

Luiz C. Vieira - Brazil

Re: 41CX Finance Module?
*Message #3 Posted by **Gene** on 20 Feb 2003, 11:54 a.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

The PPC ROM module program "FI" is a good finance program. It does the time value of money very well.

If you're needing NPV and IRR, etc., then you'll need more than this, and the HP-41 finance ROM is good.

Perhaps someone should type up the FI listing of the PPC rom and put it online somewhere. It's not that long.

Gene

Re: 41CX Finance Module?
*Message #4 Posted by **Bill Smith** on 20 Feb 2003, 12:33 p.m.,*
in response to message #3 by Gene

There is a decent TVM program for the 41 in the HP-41CV Operation in Detail manual... about 200 steps. i used it quite a bit for a few years. It solves for PV, i, n, PMT, FV much like the 12C, the palmtops, or MONEY on the FDPac.

The FDPac also provides: IRR, modified IRR, net present value, loan amortization, depreciation, periodic interest (bonds), and day/date conversions.

i have a 12C, and the FDPac in a 41 seems to contain pretty much the same abilities. i don't have a securities or real estate module, but they may also have the functionalty you want.

good luck

Re: 41CX Finance Module?
*Message #5 Posted by **Ex-PPC member** on 20 Feb 2003, 12:38 p.m.,*
in response to message #1 by Mike Rivera

The Advantage ROM also includes basic Time Value of Money routines, implemented as RPN programs.

This allows you to COPY them from ROM to RAM in order to alter them to suit your exact needs.

I don't remember if IRR computations are also included directly in the Advantage ROM, but if not, it's really very easy to write a very short program to compute IRR and NPV using the matrix and solver machine-language keywords (not RPN programs) already included.

41's Finance Module X Advantage Module
*Message #6 Posted by **Vieira, Luiz C. (Brazil)** on 20 Feb 2003, 12:56 p.m.,*
in response to message #1 by Mike Rivera

Hi;

I'd like just to point out a few facts:

- the Advantage Module is somewhat difficult to be found, mostly because its funcionality goes far beyond general programs. It has a lot of extra functions that really add advantage functionality for the HP41
- I'm almost sure the Financial Decisions, for being easier to find, is also cheaper than the Advantage Module
- the Standard Applications book that comes with the HP41 (it does not come with the HP41CX) also adds a Calendar programs that will add [DELTA]DYS and DATE functionality, but you have an HP41CX that also comes with calendar functions: [DDAYS] and [DOW].

My US$0.05

Re: 41CX Finance Module?
*Message #7 Posted by **Randy Smith** on 20 Feb 2003, 5:43 p.m.,*
in response to message #1 by Mike Rivera

The Home Management Pac also includes a TVM program. It also has check book balancing and stock analysis programs.

Re: 41CX Finance Module?
*Message #8 Posted by **Raymond Del Tondo (Germany)** on 20 Feb 2003, 7:17 p.m.,*
in response to message #1 by Mike Rivera

>I'm awaiting the arrival of my first 41CX (upgrading from a 48) > :-)

Thirteen years ago HP wanted people to upgrade *from* the HP-41 *to* the HP-48...

But somehow I can understand you.

Raymond

BTW: At least the 48GX has a TVM application built-in.

Re: 41CX Finance Module?
*Message #9 Posted by **Mike Rivera** on 20 Feb 2003, 8:28 p.m.,*
in response to message #8 by Raymond Del Tondo (Germany)

Raymond:

As you knew, I was speaking in jest. However, I was never very comfortable with the HP-48. I always prefered my HP-15, and even more so, my HP-25.

There's something about the classic look and feel of an HP-25. I got mine new in 1976 as a Chrsitmas gift for high school (and used it for about 10 years). The "15" was also fun, but it just didn't feel right and after another 10 years, I moved to the "48". I never felt I made this machine "mine". I would sometimes, inadvertantly, put it into various modes that would take minutes to get out of!

I would stay with my (still working perfectly) "25" except I need an LCD display for fear of losing battery power at an inopportune moment.

I very excited to "go back to the future" with an HP-41!

- Mike

Re: 41CX Finance Module?

*Message #10 Posted by **Vieira, Luiz C. (Brazil)** on 21 Feb 2003, 1:33 a.m.,*
in response to message #9 by Mike Rivera

Hi;

I would change:

> *"go back to the future" with an HP-41!*

for

> *"go straight (and happily) to the past" **for** an HP-41!*

What else is new...

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HP-49 speed
*Message #1 Posted by **Tony Thimet** on 20 Feb 2003, 8:07 a.m.*

Hi all! To my surprise I found that the HP-48GX is almost 8 times as fast as the much newer HP-49G. Can anyone confirm this? Also, I've heard about a "speed module" for the HP-49G. Does this really exist and how much performance can be gained? Thanks, Tony

I doubt it !
*Message #2 Posted by **Ron Ross** on 20 Feb 2003, 8:50 a.m.,*
in response to message #1 by Tony Thimet

I do not believe the 48 is even in the same league as the 49G, and for most applications the speed issue is reversed. The 49G is much faster for 90% of most tasks.

That said however, I do believe there are certain areas where the 48 is faster (numerical results where flags on the 49 will conflict and cause longer solve times). This is very common.

If you configure the 49 properly (and that is a science in itself) you will get better results.

Still I will agree that I do like my 48 better than my 49, due to the keyboard feel and the Enter key location.

Re: HP-49 speed
*Message #3 Posted by **Juergen Rodenkirchen (GER)** on 20 Feb 2003, 9:55 a.m.,*
in response to message #1 by Tony Thimet

Tony,

you can get HP48G- as well as HP49G machines with internal speed modules at German company Dynatech (www.dynatech.com, I think). You may also consider to send in your "ordinary" (can an HP48/49G be called ordinary at all?) machine and get the module built into it (that, of course, would save you a lot of money compared with purchasing an overclocked machine). But be warned: With accelerated machines, the clock and thus the time and date functions are disabled!

Juergen

Re: HP-49 speed
*Message #4 Posted by **Massimo (Italy)** on 20 Feb 2003, 10:21 a.m.,*
in response to message #1 by Tony Thimet

I bet you tried with a loop indexed by an integer number: 49G defaults to long integers. Much more precision but slower and more memory hungry.

If so, try adding a dot (or comma based on your settings) after the index range (i.e. 1 10 FOR ... -> 1. 10. FOR ...)
Massimo

Re: HP-49 speed
*Message #5 Posted by **Tony Thimet** on 20 Feb 2003, 1:24 p.m.,*
in response to message #4 by Massimo (Italy)

Hi Massimo! Many thanks a lot for pointing this out! Indeed, after adding decimal points to my integer numbers execution sped up by a factor of 10! Couldn't believe that the HP-49G would be so slow all along... Tony

Re: HP-49 speed
*Message #6 Posted by **Massimo (Italy)** on 20 Feb 2003, 1:51 p.m.,*
in response to message #5 by Tony Thimet

Hello Tony!

Glad this helped pointing out one of the differences between the two calcs.
Indeed I too was amazed at first when trying the "empty loop test" on both...
At least this is one of the FAQs about 49G and the solution is quite simple :)

Massimo

Re: HP-49 speed
*Message #7 Posted by **Raymond Del Tondo (Germany)** on 20 Feb 2003, 7:19 p.m.,*
in response to message #5 by Tony Thimet

More infos and comparisons between the HP-48 and the 49G are available on www.hpcalc.org

Raymond

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HP41 Card Reader

*Message #1 Posted by **Howard** on 19 Feb 2003, 8:59 p.m.*

I have a card reader which doesn't work. Of course it could be the motor or the circuitry. (Although when I do the Cat 2 test it tells me that the programmes for the card reader are all there. Can anybody give me a clue as to how I can test the motor separately. For example can I put the motor wires onto the battery pack. If so which connection is which. Black +ve or -ve. Thank you in advance.

Re: HP41 Card Reader

*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 19 Feb 2003, 10:07 p.m.,*
in response to message #1 by Howard

Hi;

the best and safest test you can perform with the reader's motor is to connect it to a 1.5V cell. If yoou can remove the card-pulling gear, it's even better. You can briefly connect the 1.5V cell (any battery, but the smaller it is, the easiest will be to touch the motor wires) at any pollarity. The motor should revolve smoothly, noiseless. If it has no mechanical charge (no gear connected to it), you'll have a good idea of its working condition. If you decide to keep the gear in place, you'll be able to test the complete set, and I suggest checking for motor conditions prior to the complete set test. Just be sure the wires are not connected to the PCB when doing this.

Hope this helps.

Re: HP41 Card Reader

*Message #3 Posted by **David Smith** on 20 Feb 2003, 10:54 a.m.,*
in response to message #1 by Howard

Red is +, black is -. Connect 1.5 - 3.0V to the motor and see if it spins... I have never seen a bad motor... HP radically overspecified the specs on this item.

Re: HP41 Card Reader

*Message #4 Posted by **Howard** on 21 Feb 2003, 2:49 p.m.,*

in response to message #3 by David Smith

Thank you. I'll try that.

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CMT 128k ram module for 71b
*Message #1 Posted by **andy** on 19 Feb 2003, 8:46 p.m.*

I have a CMT 128k ram module for my 71b (it fits in the card reader). I remember reading that these can be used as both RAM and as an electronic disk. Are there specific commands for this module? Does anyone have a manual for this module (or was there one)?

I opened it up and there appears to be a small battery encased in heat-shrink. Does anyone have information on this?

Are there any other interesting features in this module?

Thanks,

Andy

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41cx advantage module DEAD?
*Message #1 Posted by **Joe Edwards** on 19 Feb 2003, 5:11 p.m.*

"It's dead, Jim"

How can one tell if an Advantage module is dead?

It plugs into a slot of a 41cx (any of four), with and without the math module and the calc wont even turn on. I remove the module and the calc is fine.

Is it possible to breath life into a module, or am I going to have to return the thing?

Joe

Re: 41cx advantage module DEAD?
*Message #2 Posted by **Spice_Man** on 19 Feb 2003, 5:44 p.m.,*
in response to message #1 by Joe Edwards

Do you have any other 41C series you can test it on? You may have a bad contact on the 41C itself (where the battery/module contacts connects to the PCB). I had a similar problem with a Math module with one of the calculators. It would work on the others, but not this particular one. I opened up the calc, cleaned the contacts, and reassembled, and it all worked fine after that. Spicey

Re: 41cx advantage module DEAD?
*Message #3 Posted by **David Smith** on 19 Feb 2003, 6:01 p.m.,*
in response to message #1 by Joe Edwards

It may be a bad contact in the module itself. I have fixed some funky modules by folding a piece of very fine grit (1000 grit) sandpaper, wetting it with alcohol or contact cleaner, and gently cleaning the module contacts... try not to overdo it and remove the gold plating. I also take a probe and gently bend the contacts inwards so that they will make good contact with the calculator.

Re: 41cx advantage module DEAD?
*Message #4 Posted by **Joe Edwards** on 19 Feb 2003, 6:45 p.m.,*
in response to message #3 by David Smith

Hey guys.

1. tried cleaning the contacts. Nothing. 2. bent the pins, gently, inward. Nope.

When I put it in and try to turn on the calc, whether the math module is in or not, nothing happens. When I take the advantage module out, the calc wont turn back on. I have to remove the batteries, then reseat them before the calc will turn back on.

Any other advice?

Joe

Re: 41cx advantage module DEAD?
*Message #5 Posted by **Joe Edwards** on 19 Feb 2003, 6:28 p.m.,*
in response to message #1 by Joe Edwards

Ah, I thought that was a possiblity. Similar to dirty contacts on old video game cartridges! I admit I am a bit more worried about cleaning the module than an old game cart! I will try alcohol and bending the connectors tonight. I will give a heads up later. It isn't the calcs connectors. I tried the math module in all the ports and it worked fine. Must be the module.

Joe

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searching info on computer museums and forums
*Message #1 Posted by **sabrina** on 19 Feb 2003, 7:24 a.m.*

I'm researching on computer museums and especially on their visitors. So I'd like to know more about you and the reasons why you use this kind of forum, if and in what way is useful and how you discovered it. Thank you very much! sabrina

Re: searching info on computer museums and forums
*Message #2 Posted by **Spice_Man** on 19 Feb 2003, 1:49 p.m.,*
in response to message #1 by sabrina

I think I discovered MoHPC about 3 years ago, when I did a seach on one of the search engines (I don't recall which) for HP Calculators.

Its useful for obtaining technical information, exchanging ideas with other HP Calc Nuts, getting help and helping others.

Spicey

Re: searching info on computer museums and forums
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 19 Feb 2003, 3:16 p.m.,*
in response to message #1 by sabrina

Hi;

if you allow me to, I'd suggest a brief look at the bios pages. You'll have a good user's profile form there.

Spice_man's finding of the MoHPC was the same as mine: a www searching engine for HP Calculators. And dhis reasons are mainly mine, too.

Will you allow us to know about the reasons for your research? We're in an open-place site,

indeed, and there are no secrets around us here.

The sharing principles are often taken from visitors, too. Maybe others will feel confident about sharing their reasons if knowing what for, do you agree?

Success on your research, Sabrina.

Vieira, Luiz C. (Brazil)

Re: searching info on computer museums and forums
*Message #4 Posted by **sabrina** on 19 Feb 2003, 4:23 p.m.,*
in response to message #3 by Vieira, Luiz C. (Brazil)

I'm studing at the University of Turin (Italy) and my "tesi" is about computer museums. "tesi" means a kind of final exam on a particular subject. that's the reason why I'm so interested in you!! Thanks

Other links...
*Message #5 Posted by **Vieira, Luiz C. (Brazil)** on 19 Feb 2003, 10:00 p.m.,*
in response to message #4 by sabrina

Hi;

maybe you have already "walked around" this museum's pages, but you will also find some other interesting "museums" at the Other links page, mostly the old computers section. There are some other museum's pages listed there.

I'm also working on a Master's Degree activity, and I am aware of how important is the information you can add to your research.

Success.

Re: searching info on computer museums and forums
*Message #6 Posted by **Renato** on 19 Feb 2003, 10:25 p.m.,*
in response to message #4 by sabrina

Let me add that this is a good place to hang around, and to know nice people. In my dealings with people that own HP calculators, I have met very nice and generous persons.

May I suggest you look at the forum posts, both recent and archived. There are some real nice discussions that will give you a glimpse of the sociology of this community. I am sure you will skip the technical ones.

Renato

Re: searching info on computer museums and forums
*Message #7 Posted by **Massimo Gnerucci (Italy)** on 20 Feb 2003, 2:08 a.m.,*
in response to message #4 by sabrina

Hi Sabrina,
I found Dave's site on late '97.
Since then I routinely (several times a day) hang around to read all of these messages posted by people I do not personally know but that - during the years - I began to think of as mates.
When I think that I may be of help I do post something too but am usually *beaten* by quicker people with a more deep knowledge about these wonderful machines ;)

I am in Italy too; netiquette suggests me to reply in english but I am also privately e-mailing you so we can further discuss if you wish to...

Ciao,
Massimo

Re: searching info on computer museums and forums
*Message #8 Posted by **Thibaut.be** on 20 Feb 2003, 3:56 a.m.,*
in response to message #7 by Massimo Gnerucci (Italy)

That's a good try Massimo... ;-)

Re: searching info on computer museums and forums
*Message #9 Posted by **Massimo** on 20 Feb 2003, 5:59 a.m.,*
in response to message #8 by Thibaut.be

Hi Thibaut!
I knew that somebody would have pointed this out... better you than another :)
Now I will email you too to your work address so this kind of rumors will stop, I hope!?!? :*)

All the best (bonne chance),
Massimo

One other thing to be pointed out...
*Message #10 Posted by **Vieira, Luiz C. (Brazil)** on 20 Feb 2003, 10:09 a.m.,*
in response to message #8 by Thibaut.be

Hi, Sabrina.

One thing we forgot to mention: as far as we can notice, all of the messages in here are posted by human being; no A.I. system, no auto-answered data bank, just plain, old (sometimes actually old) fashioned human beings...

If you are going to focus any social or psycological aspect, you're in the right place. And that's one of the most important things to be pointed out: everyone in here has deep knowledge about some particular subject, directly or not directly related to the main theme. And mutual respect is always present, even when healthy jokes (like this one) happen. Each of us see each other with much respect.

That's a very good behavior. And I like it a lot.

You may see that many (almost all) of us use actual names, in a few cases we may identify an anonymous as being one of us in a particular expression, but it is rare. And that is the spirit.

I'm a teacher, and I always mention in my classes that science states the human being is the only animal that laughs, so we have the right to. And I accept as a serious person the one that knows when to stop laughing. A tedious, bad-tempered guy is not necessarily a serious person.

And I sometimes write too much...

Re: One other thing to be pointed out...

*Message #11 Posted by **Chan Tran** on 20 Feb 2003, 11:57 a.m.,*

in response to message #10 by Vieira, Luiz C. (Brazil)

If found this forum is one of the very few that the people who post here are very nice.

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HP 49G Screen Cover
*Message #1 Posted by **Nick Nicholas** on 19 Feb 2003, 3:50 a.m.*

I understand HP changed the screen cover to a more scratch resistant version on later models of the HP 49G. Is there any physical characteristics that would distinguish the updated version?

Re: HP 49G Screen Cover
*Message #2 Posted by **Ron Ross** on 19 Feb 2003, 8:32 a.m.,*
in response to message #1 by Nick Nicholas

Not from any quick look, but the older lens had a very noticable rainbow effect and would be an ID93### or older. The newer lens cover is definitely available on the ID94###. Different Faceplate texture and a slight dimple above the Hp logo also indicate a newer Hp49G also (but if you do not have both, you probably do not or cannot determine this).

Re: HP 49G Screen Cover
*Message #3 Posted by **Nick Nicholas** on 19 Feb 2003, 11:54 p.m.,*
in response to message #2 by Ron Ross

Thanks for the information on the screen cover. I have a HP 49G with serial number CN148***** and I don't see the rainbow effect so I assume that the screen cover is the newer type.

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HP 28S screens
*Message #1 Posted by **Scuba Diver** on 19 Feb 2003, 1:22 a.m.*

Hello everyone!

I have gone a bit 28S crazy lately, I know own three of them; two are US-built units from 1989 and early 1990, and the third is a Singapore unit from late-1990 (those were the good ol' days when we didn't look at asian-built units with such disdain...I doubt anyone would call a Chinese 12C a marvel of modern manufacturing!)

I have noticed an interesting difference in the screens between the units; where the US-built units have perfectly clear (almost reflective) screens, the newer, Singapore calc has a slightly opaque one. This was a huge improvement IMHO because you can use the calc at your desk without the screen reflecting (oh let's be honest...burning!) an image of your desk lamp's bulb on to your retina!!!

This observation caused a flurry of questions to run through my head. Was this difference simply because of the country of manufacture, or was it an actual production improvement made globally at a given point in time? Are the screens different, or is this simply some sort of cover? Are there any other differences of note?

Any insights would be greatly appreciated! I know that I'm in the minority when I say this, but I love clamshells! Yes, I know...when you're out in the field they're about as easy to use as an 18-foot slide rule, but I'm never in the field...I'm a project manager!

Now I'd like to switch gears a bit and walk down memory lane...I remember when the 28S was first introduced...I was spellbound and in many ways I still am. Unfortunately, those days of running to the campus bookstore when a new HP is launched are long gone...I'm afraid that irreparable harm has been done to the calculator division. The fatal mistake? Letting marketers decide product lines. It's like letting interior decorators author building blueprints and dictate building codes!!

My comment wasn't meant to slight interior decorators; it's meant to prove a point. Everyone plays a role in product design and launch, but if you give a marketer an inch, they'll take 50 miles. They think they know the business better than anyone, and in this case, HP decided to lie down and play

dead.

Instead of being full of features that we'd all like to see, HP's new "line" of calculators will probably have pleasant colour schemes, ergonomic designs, and will be targetted at that ever-so-important teen and "tween" demographic. Don't be surprised if you see HP calculator commercials during American Idol and the Simpsons!

What about quality you ask? Well, I'm sure the spin doctors at HP have held focus groups on that. Who knows...maybe it's cool to have a calculator where the "OFF" button doesn't work, or you need to really press hard on the "4" key to get it to register...

The times, they are a changin' (and yes, I'm done my rant!) B.

Re: HP 28S screens

*Message #2 Posted by **Nick Nicholas** on 19 Feb 2003, 11:47 p.m.,*

in response to message #1 by Scuba Diver

Thanks for your comments on the difference between the HP 28s screens made in US versus Singapore. I found that information useful.

I just want to clarify your comments about the lower quality of HP calculators made in asia in general and China specifically. I understand that HP contracted out their calculator business to Chinese contractors for cost control reasons which have resulted in lower quality products. I would think that HP was completely aware of the quality of the products that were being produced and that they were satisfied with the quality given the costs that they were willing to pay. I would say that if HP kept their manufacturing in Indonesia and pursued the same cost objectives, the higher overhead costs in Indonesia would probably have resulted in even lower quality calculators. The blame for the recent lower quality of HP calculators should rest completely on HP management, not with the country that the products were manufactured. HP's brand no longer conveys quality and value in my mind.

Re: HP 28S screens

*Message #3 Posted by **Scuba Diver** on 20 Feb 2003, 12:13 a.m.,*

in response to message #2 by Nick Nicholas

Nick, I agree completely.

Manufacturers in China produce products with various quality levels; some items are very well made and others are not; the decision is made by the customer (in this case, HP). They were willing to cut corners and now we're seeing the result.

I didn't mean to infer that items made in asia are of lower quality than items made in, say, North America. My point, simply, is this; if the engineers at HP were still in the position of deciding what went into the next HP model, they wouldn't accept the current quality levels. The fact that HP doesn't care speaks volumes, and I would be willing to argue that this mindset will be evident when we see the next new calculator!

B.

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Reproduction of HPmuseum information
*Message #1 Posted by **Anonymous** on 19 Feb 2003, 12:46 a.m.*

This 32s description was extracted from the museum ?

http://www.educalc.net/default.asp?tid=141384

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ebay ti price scam?
*Message #1 Posted by **db(martinez,california)** on 18 Feb 2003, 11:02 p.m.*

i put an auction on my favorites bar to see how it turned out. it was for a ti 58c with the ubiquitous master library module and case. no manual and no charger. not even an ebay "guarantee" that it was working. there were three main bidders and all (including the seller) have very few "merit badges". the dam thing sold for $71, which is about 7 times what it is worth.

i know some of you keep track of scams. if you will - can someone look at http://cgi6.ebay.com/aw-cgi/eBayISAPI.dll?ViewBids&item=3007569832 and tell me if this looks as fishy as i think it does.

btw: i did not bid. i did not want to. i have a working one, with extras. i am just curious and thought that maybe someone might have a broader view of this than i do.

Re: ebay ti price scam?
*Message #2 Posted by **Spice_Man** on 18 Feb 2003, 11:25 p.m.,*
in response to message #1 by db(martinez,california)

Looks all legit to me. Spicey

Re: ebay ti price scam?
*Message #3 Posted by **Spice_Man** on 18 Feb 2003, 11:26 p.m.,*
in response to message #1 by db(martinez,california)

P.S. What would be the scam in this case?

Re: ebay ti price scam?
*Message #4 Posted by **db(martinez,california)** on 19 Feb 2003, 12:07 a.m.,*
in response to message #3 by Spice_Man

thats what i was wondering. maybe running up the preceved worth of that unit because he has a dozen of them? ok: that would be pretty petty. hell. i don't know. it's just that i have never seen a working one with manuals and a printer get near that much, that and the shotgun approach the bidders had.

but thanks for the answer. i'll believe it.

Re: ebay ti price scam?
*Message #5 Posted by **Joe Edwards** on 19 Feb 2003, 8:35 a.m.,*
in response to message #4 by db(martinez,california)

The shotgun approach is normal on ebay. You have to expect it. I, myself, got nailed last night by a last minute bidder. You know who you are Steve! :)

Correct to be suspicious.
*Message #6 Posted by **Kris Collins** on 19 Feb 2003, 10:33 a.m.,*
in response to message #5 by Joe Edwards

I think you are correct to be suspicious. Look at item http://cgi6.ebay.com/aw-cgi/eBayISAPI.dll?ViewBids&item=3005608543 that sold for a lot less. Different set of bidders too. Only exceptionally clean and complete items should demand prices out of range. If you just want a clean, working example for daily use then don't pay these prices. Other units come around eventually. Patience my friend.

Re: Correct to be suspicious.
*Message #7 Posted by **Michel Beaulieu** on 19 Feb 2003, 4:05 p.m.,*
in response to message #6 by Kris Collins

It's normal, the buyer have only won another time on eBay and lack experience. He probably didn't know that this model is often there on eBay... eBay wars between "newbies" bidders are very goo for sellers...

Re: Correct to be suspicious.
*Message #8 Posted by **Kris Collins** on 19 Feb 2003, 4:54 p.m.,*
in response to message #7 by Michel Beaulieu

Here's another one that looks suspicious. The winning bidder put in a bid that was twice the previous bid. Looks like the seller didn't want the item to go for such alow price and so he had someone put in a high bid to end the bidding. You never know who you are bidding against. You have to have a good idea what something is worth generally and what it's worth to you before you start.

http://cgi6.ebay.com/aw-cgi/eBayISAPI.dll?ViewBids&item=3007308970

Re: Correct to be suspicious.
*Message #9 Posted by **Frank Glitz** on 19 Feb 2003, 5:08 p.m.,*
in response to message #8 by Kris Collins

The auction (3007308970) was ended by 'Buy it now'. Does not seem to be suspicious IMHO. And $199 for an almost complete 15C seems to be 'normal' these days...

Frank

NOT A COMPLAINT
*Message #10 Posted by **Joe Edwards** on 19 Feb 2003, 10:15 p.m.,*
in response to message #5 by Joe Edwards

So everyone here will know. My last comment was made in JEST and is not a negative comment again Steven. Thanks.

Joe

Re: ebay ti price scam?
*Message #11 Posted by **Richard Freeman (Australia)** on 20 Feb 2003, 2:08 a.m.,*
in response to message #5 by Joe Edwards

One advantage of the last minute bid is that if you bid at the absolute last second and are out bid you have missed out and the temptation to go beyond what you think the thing is worth is not there ... :-)

Re: ebay ti price scam?
*Message #12 Posted by **David Smith** on 19 Feb 2003, 11:25 a.m.,*
in response to message #1 by db(martinez,california)

Ahh, the subtle wonders of Ebay prices... if you have two people who decide they really want an item (and don't know what it's worth or really need it soon) all things are possible... like a $300 really ugly and engraved HP25...

Re: ebay ti price scam?
*Message #13 Posted by **Chan Tran** on 19 Feb 2003, 2:14 p.m.,*
in response to message #12 by David Smith

May be I should sell my 58C and printer?

Why??
*Message #14 Posted by **Rick** on 19 Feb 2003, 8:42 p.m.,*
in response to message #13 by Chan Tran

Why does he pay more for a new 17bII than what he sells them for?

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&category=11712&item=3008796733

perhaps he's a market maker.

Re: Why??
*Message #15 Posted by **Nick Nicholas** on 20 Feb 2003, 12:00 a.m.,*
in response to message #14 by Rick

I think he would sell this one as completely new and therefore at a much higher price than what he paid for it.

What do you mean "market maker".

Re: Why??
*Message #16 Posted by **Rick** on 20 Feb 2003, 2:38 p.m.,*
in response to message #15 by Nick Nicholas

Someone who buy and sells the same item for his own account to make a market. Typically on the NYSE and NSADAQ.

Re: ebay ti price scam?

*Message #17 Posted by **db(martinez,california)** on 19 Feb 2003, 8:49 p.m.,*
in response to message #13 by Chan Tran

ct; a working 58c with a printer, 12 rolls of paper, case and two roms only gets $34. think small and double your money. -db

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Slowing up of 48GX
*Message #1 Posted by **HP48 user** on 18 Feb 2003, 9:01 p.m.*

My 48GX works great. But there is one problem. Sometimes during a long program, it would just take forever to quit. I normally have to press "On" and "C" to reset it to get out of this. Any reasons why?

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Somebody using this prg?
*Message #1 Posted by **R Lion** on 18 Feb 2003, 5:33 p.m.*

```
I need to "talk" with somebody that uses the "Prime?" program listed in the Software
Library for the 42S
Thanks in advance
Raul
```

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HP 18C Battery cells
*Message #1 Posted by **Guido Muriel** on 18 Feb 2003, 1:09 p.m.*

I still have a calculator HP-18C Business Consultant. It need 3 N cells but I need to know the voltage of each one of them.... 1.5 volts? 9 volts? Please, help me.

Re: HP 18C Battery cells
*Message #2 Posted by **David Smith** on 18 Feb 2003, 2:53 p.m.,*
in response to message #1 by Guido Muriel

The "N" cells are 1.5V. They are VERY close in size to a 12V battery which will turn your machine into toast.

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HP 12C Manual
*Message #1 Posted by **Scott** on 18 Feb 2003, 11:00 a.m.*

Where can I get a GOOD 12C manual?

---------- Scott cableghost@hotmail.com

If you could, please reply by email due to my inconsistent checking of this forum ... THANK YOU!

Re: HP 12C Manual
*Message #2 Posted by **Patrick** on 18 Feb 2003, 4:38 p.m.,*
in response to message #1 by Scott

You can download a PDF version of the manual from the HP site. I don't have the exact URL but I think you should be able to find it somewhere near http://www.hp.com/calculators

Cheers, Patrick

Re: HP 12C Manual
*Message #3 Posted by **Renato** on 18 Feb 2003, 11:38 p.m.,*
in response to message #1 by Scott

Scott, Patrick,

The pdf available for download at HP (bpia5184.pdf)is not the 12c manual - it is a solutions handbook. Portuguese and Spanish versions of the *manual* are available at HP, but not English.

Maybe you could try used bookstores - I usually find it easily. By the way, if you happen to find a 29c manual - please get it, if you don´t want it, I do.

Also, there is a 12c windows emulator that has a pretty decent help file. If you want it, let me know.

Renato

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HP-41C and Columbia
*Message #1 Posted by **Sauro Mauro** on 18 Feb 2003, 8:48 a.m.*

Sorry for the bad quality but here is a framed poster with the Space Shuttle Columbia pictured with the HP-41C:

The HP-41 with Shuttle Columbia

It was a gift donated by the calculators store clerk when I bougth my first HP-41C in 1982. The use of that calculator can be read here:

HP 41 in Orbit

Re: HP-41C and Columbia
*Message #2 Posted by **Sauro Mauro** on 18 Feb 2003, 8:52 a.m.,*
in response to message #1 by Sauro Mauro

Sorry, this is the correct URL: HP-41C and Columbia

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Ebay photo, link but no credit
*Message #1 Posted by **A Friend** on 18 Feb 2003, 8:02 a.m.*

See :

http://cgi.ebay.co.uk/ws/eBayISAPI.dll?ViewItem&item=3008329772&category=294

Seller has put up 2 links to this site but does not say photo is not of his calc or credit photo to MoHPC.

Where does this register on the Richter scale, 2?. See:

http://neic.usgs.gov/neis/general/handouts/richter.html

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HP-11C / HP-15C docs
*Message #1 Posted by **Patrick** on 18 Feb 2003, 2:22 a.m.*

Apart from the CD available here (which I have ordered) is there a source of documentation for the HP-11C or HP-15C? I have purchased one of each of these without manuals and I have never owned them before. Something in PDF format would be quite lovely.

Re: HP-11C / HP-15C docs
*Message #2 Posted by **David Smith** on 18 Feb 2003, 2:54 p.m.,*
in response to message #1 by Patrick

The actual manuals appear quite often on Ebay... usually in the $25 price range.

Re: HP-11C / HP-15C docs
*Message #3 Posted by **Patrick** on 18 Feb 2003, 4:36 p.m.,*
in response to message #2 by David Smith

Thanks David, of course I am looking on eBay. I guess I should have been more explicit, I'm looking for softcopy manuals. Since I was able to download an HP-12C manual in PDF format yesterday I assume that some people might have done the same for the HP-11C and HP-15C sometime in the past. Those manuals are not available anymore (if they ever were) through the HP site.

I've also done a google search but found nothing. Any pointers would be appreciated.

Thanks Patrick

Re: HP-11C / HP-15C docs

*Message #4 Posted by **Jim L** on 18 Feb 2003, 4:46 p.m.,*

in response to message #3 by Patrick

I don't think those manuals were ever available from HP in PDF. I don't think the Internet (let alone the WWW) were seen as good distribution mechanisms back then. I'm not even sure PDF existed back then. I think Dave may have started distributing old manuals in PDF before HP did the same with new manuals.

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HP 48 Insights Part II
*Message #1 Posted by **Daniel Diggelmann** on 18 Feb 2003, 1:25 a.m.*

I have her a book HP 48 Insights Part I by W. C. Wickes. Does anyone know whether Part II was ever issued?

Re: HP 48 Insights Part II
*Message #2 Posted by **Nick Nicholas** on 18 Feb 2003, 2:45 a.m.,*
in response to message #1 by Daniel Diggelmann

I know Educalc had sold the HP 48 Insights Part II at one time but I think that version referred to the 48SX. I am not sure if Part II was ever updated to the GX version. I'm looking at Educalc's Catalog #72 (Summer 96 Edition) and the Part II was no longer listed. I regret not purchasing it when I had the opportunity.

Does anyone know if the publisher, Larken Publications, is still around. If so, I would like their contact information.

Re: HP 48 Insights Part II
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 18 Feb 2003, 5:35 a.m.,*
in response to message #2 by Nick Nicholas

Hi;

there is an specific Insights Part I for the G/GX series, announced in a 1995 EduCalc, #66 issue, p. 57 (this is the one I have, maybe others announced it, too). It's a 435 p. softbound book (both others are spiralbound). Part II seems to be the same for both S and G series.

I do not have the ISBN for this.

Re: HP 48 Insights Part II
*Message #4 Posted by **Christoph Giesselink** on 18 Feb 2003, 2:49 a.m.,*
in response to message #1 by Daniel Diggelmann

Yes of course, but only in a SX version.

HP48 Insights, Part II: Problem-Solving Resources

ISBN 0-9625258-4-7

Re: HP 48 Insights Part II
*Message #5 Posted by **Daniel Diggelmann** on 18 Feb 2003, 3:04 a.m.,*
in response to message #4 by Christoph Giesselink

Many thanks for your valuable information. I'll see whether I can get Part II.

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How much is an HP-15C worth?
*Message #1 Posted by **N. Stevens** on 17 Feb 2003, 8:04 p.m.*

I have a HP-15C along with its owners manual in the original box. Can someone tell me how much it is worth?

Re: How much is an HP-15C worth?
*Message #2 Posted by **Spice_Man** on 17 Feb 2003, 9:15 p.m.,*
in response to message #1 by N. Stevens

It all depends on its condition. Brand new condition box with brand new condition manuals and calculator could be worth...$500 on ebay?

Crumpled up dirty stained box and manual, with scratched up calculator could fetch maybe $80. Median may be around $180.

Spicey

Re: How much is an HP-15C worth?
*Message #3 Posted by **HrastProgrammer** on 18 Feb 2003, 1:48 a.m.,*
in response to message #2 by Spice_Man

500$ for HP-15C ??????????!!!!!!!!!!???????

Is it made of ... gold?

Re: How much is an HP-15C worth?
*Message #4 Posted by **Spice_Man** on 18 Feb 2003, 2:10 a.m.,*
in response to message #3 by HrastProgrammer

Only the 12C is Gold <G>

I've seen a sealed new in the box 16C go for something like $700 on EBay last year...there was some discussion about it here if I remember correctly...

Spicey

Re: How much is an HP-15C worth?
*Message #5 Posted by **Johnny Billquist** on 18 Feb 2003, 7:24 a.m.,*
in response to message #4 by Spice_Man

The HP-16C is a totally different beast, and is a very special case that really makes people want to fork out big dollars for it.

There is no whay you can use the -16 as a measurement stick for any other model in the -1x series.

Re: How much is an HP-15C worth?
*Message #6 Posted by **Spice_Man** on 18 Feb 2003, 3:02 p.m.,*
in response to message #5 by Johnny Billquist

Just ask texaspyro how much he'd fork out for a brand new 15C in new sealed box. I also remember seeing mint in box 15C's go for close to $400 last year. The box itself had some wear on it. If the box was also new-looking, I would bet it would fetch $500.

Spicey

Re: How much is an HP-15C worth?
*Message #7 Posted by **Johnny Billquist** on 19 Feb 2003, 8:02 a.m.,*
in response to message #6 by Spice_Man

I'm not really getting into an argument about the worth of a HP-15C. I'm just pointing out that the HP-16C is a different machine, which is worth much more, so don't use one to prove the value of the other.

And personally, I fart in the general direction of e-bay. :-)

Re: How much is an HP-15C worth?
*Message #8 Posted by **Spice_Man** on 19 Feb 2003, 1:43 p.m.,*
in response to message #7 by Johnny Billquist

Okay, just don't let anyone light a match behind you then... <VBG>

Spicey

Re: How much is an HP-15C worth?
*Message #9 Posted by **Math Geek** on 22 Feb 2003, 11:52 p.m.,*
in response to message #7 by Johnny Billquist

E-bay's mother was a hamster and it's father smelled of elderberries.

I agree
*Message #10 Posted by **Mike** on 18 Feb 2003, 9:51 a.m.,*
in response to message #3 by HrastProgrammer

I believe a mint condition one with an excellent box, might well go for $500.

An excellent 15C (with no marks at all) with no manuals can go for $250.

With both manuals in excellent condition, $300.

With box and manuals all in mint condition $400 - $500, depending on how busy eBay is. Right now it's slow and prices are lower than usual.

eBay is always slow after Christmas and right up till tax time.

Current eBay _completed items_
*Message #11 Posted by **Glen Kilpatrick** on 18 Feb 2003, 11:04 a.m.,*
in response to message #10 by Mike

http://search-completed.ebay.com/search/search.dll?MfcISAPICommand=GetResult&query=hp+%2DPowerOn+%2DCD+15C&from=R10&region=45&siteid=0&ht=1&currdisp=2&category2=11711&combine=y&st=2&SortProperty=MetaEndSort&allebay=1

has 26 items, looks like 18 are actual 15C's (I'm discounting vinyl cases and handbooks-only). The most expensive went for $229.50, the cheapest for 101.01 (I didn't do any more stats than min & max).

Re: Current eBay _completed items_
*Message #12 Posted by **Spice_Man** on 18 Feb 2003, 2:56 p.m.,*
in response to message #11 by Glen Kilpatrick

I wouldn't even consider the one that sold for $229 to be in excellent condition. I'd only rate it good. In fact, the one that sold at $120 (Buy It Now) appears to be in better condition. The seller didn't get the market price for it due to the fact that he allowed a buyer to buy it at a fixed, non-auction price.

Spicey

Re: How much is an HP-15C worth?
*Message #13 Posted by **Frank** on 19 Feb 2003, 12:25 p.m.,*
in response to message #1 by N. Stevens

Prices vary widely. Have sold same for 225-325 on ebay during last couple of years. Way back sold my original in Mint cond 15c w/both books and box in 1994 on hp.handhelds for around $100 along with a as-new in box 16c for same. Does not mean it will not bring more, and probably not less than the first priced above. 15C's and 42s are more common than 16c as someone pointed out.

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Half nut HP-41C ?
*Message #1 Posted by **Dave Mabry** on 17 Feb 2003, 8:04 p.m.*

I know of the early HP-41C, with the "high top" keys, as some people call it. The slope on the front of the keys was sharper and, if I remember correctly, a bit harder to read than the "improved" version that came later. That later version had a more sloped key shape. You could read the blue legends on the front of those keys easier. At least that was the claim when HP released it. That version omitted the contacts in the port on the side that you would access the battery compartment from. Both those versions were "full nut" as evidenced by the squared off display.

Now, I see on e-bay a version of the HP-41C (not CV or CX) that has the rounded display bezel. How common is the "half nut" version of the HP-41C ?

Re: Half nut HP-41C ?
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 17 Feb 2003, 10:06 p.m.,*
in response to message #1 by Dave Mabry

Hi;

I posted about this same subject a few months (weeks?) ago and I was answered that when the halfnuts became available, the fullnuts production ceased (what else is new...), but remaining fullnuts HP41C would soon be used as replacements for serviceable units, as the HP41C was not being produced, too. The conclusion is that these rare units were never sold as new, only found as replacements.

That's what I read about this subject here, and being a concise explanation, I took it as truth.

It's, at least, tricky, don't you think?

Cheers.

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HP 15c
*Message #1 Posted by **Joe Edwards** on 17 Feb 2003, 5:10 p.m.*

Okay, I need someone to pontificate on the usefulness of the HP 15c. How might it compare to the 42s? Is the 10-series designed well (solidly)? Do they have equivilant features? I checked the museum records, but I wanted you folks' opinions as well. Thanks.

Joe

Re: HP 15c
*Message #2 Posted by **Glen Kilpatrick** on 18 Feb 2003, 10:59 a.m.,*
in response to message #1 by Joe Edwards

I've owned them both, although not for a (depressingly) long, long time. Voyager series calcs are "built like a brick", ruggedized indeed, no Pioneer can match that.

And the 15C also has 7-segment LCDs, yielding a better contrast than a dot-matrixed 42S.

But the 42S is *much* more powerful, so I'd go for the latter myself (all other things being equal), and protect it like fine china :).

Re: HP 15c
*Message #3 Posted by **Patrick** on 18 Feb 2003, 4:44 p.m.,*
in response to message #2 by Glen Kilpatrick

Wouldn't the HP32SII be a good candidate as well? I have one of them and it has performed flawlessly.

I still own an HP-41C that I bought circa 1980. I like both it and the HP32SII. The only trouble with the 32 is there's no way to get information into the machine other than by keying it.

I've heard HP is going to release new RPN calculators "sometime this year". I sure hope

they are of the traditional quality and not the quality of their newer offerings. Ich. Since I also own a Palm Tungsten|T I'm thinking it would be great if the calculator supported Bluetooth! Cables are so 20th Century, you know?

It would probably kill the batteries quickly, though.

In any event, Bluetooth, infrared, or cables, there ought to be a way to get info into the machine without using its keyboard. IMNSHO.

Re: HP 15c
*Message #4 Posted by **hugh** on 22 Feb 2003, 2:18 p.m.,*
in response to message #3 by Patrick

the 32sii is indeed a fine machine, but i would prefer the 15c. the integrated support for complex numbers and matrices is really something special.

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HP calculator emulators for HP Jornada 720
*Message #1 Posted by **Nenad Vulic (Croatia)** on 17 Feb 2003, 1:33 p.m.*

Anybody knows where to find any usable, proven in practice, that really works on Jornada 720?

Warm regards to all of you from (sunny but cold) Split, Croatia

Re: HP calculator emulators for HP Jornada 720
*Message #2 Posted by **HrastProgrammer** on 18 Feb 2003, 1:58 a.m.,*
in response to message #1 by Nenad Vulic (Croatia)

Hi Nenad,

If you need an HP-48/49 emulator for Jornada I think Emu48 for Windows CE or Pocket PC will do the job. I don't know for emulators of other calculator on Windows CE. Sorry.

Best regards.

Re: HP calculator emulators for HP Jornada 720
*Message #3 Posted by **HrastProgrammer** on 18 Feb 2003, 2:03 a.m.,*
in response to message #2 by HrastProgrammer

I just forgot to mention: there is an HP-41 emulator for Pocket PC called eV41.

Re: HP calculator emulators for HP Jornada 720
*Message #4 Posted by **Christof** on 19 Feb 2003, 12:40 a.m.,*
in response to message #3 by HrastProgrammer

which I haven't managed to get working on a 720.

680/720 == HPC

others == PPC

the java based emulators should work on the 720 if you can get the display handling to accept the 640x240 display.

Re: HP calculator emulators for HP Jornada 720
*Message #5 Posted by **Laurence Carr** on 19 Feb 2003, 2:59 a.m.,*
in response to message #1 by Nenad Vulic (Croatia)

HI

You can download emulators for the HP 48GX, HP 49G HP 12C (plus other calculators) from:

http://perso.wanadoo.fr/mettavant/pdaaccessoires.htm

I have tried the three listed above on my 720 and they all worked well

Laurence

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How much is an HP25 worth?
*Message #1 Posted by **Chan Tran** on 17 Feb 2003, 8:44 a.m.*

How much do you think a fully functional HP25 with bad battery, good charger, case and manual is worth. The unit is in fair cosmetic condition. A friend wants to sell it to me and ask me to make an offer. I did tell him that he can get a good price selling on ebay and I can not pay ebay price. What price do you think is fair?

Re: How much is an HP25 worth?
*Message #2 Posted by **Spice_Man** on 17 Feb 2003, 12:28 p.m.,*
in response to message #1 by Chan Tran

I think $50 is fair.

Re: How much is an HP25 worth?
*Message #3 Posted by **Glen Kilpatrick** on 17 Feb 2003, 12:50 p.m.,*
in response to message #2 by Spice_Man

There's an attitude that says "fair" is what the marketplace agrees on (I've been reading Dummy's Guide to Real Estate), and in that sense eBay.Com is the biggest single meetingplace marketplace there is. IMHO, it's speculation (just like gold, or IPOs, or land) that's driven up the price of HP calcs there, and affected all the rest of us, so a price there certainly won't seem "fair" to a buyer, but there you are.

I'd recommend check "Completed Items", "All Regions", discard the obvious suspicious points, and average what's left:

http://search-completed.ebay.com/search/search.dll?GetResult&query=hp+25+%2DPowerOn+%2DCD&srchdesc=y&from=R10&siteid=0&ht=1&currdisp=2&itemtimedisp=1&category2=11711&combine=y&st=2&SortProperty=MetaEndSort

suggests (103.53+167.50+137.50+77)/4->121.3825 or somewhere around $120 would be a fair price.

Re: How much is an HP25 worth?
*Message #4 Posted by **David Smith** on 17 Feb 2003, 5:58 p.m.,*
in response to message #1 by Chan Tran

$120 is way too much for an HP25 in fair condition. $50 seems about right the way you described it... $75 tops if the machine is in extra nice condition. The $100+ machines should be pretty much like new with the original box and app book, quick reference guide, zipper case, etc.

Hopefully you can test it first. These machines are well known for having bad ACT chips and bad RAM chips. NEVER connect one to a charger unless a GOOD battery is installed. You can test it with alkaline AA cells.

Re: How much is an HP25 worth?
*Message #5 Posted by **Chan Tran** on 18 Feb 2003, 11:54 a.m.,*
in response to message #4 by David Smith

Thanks for the inputs. I do have the luxury of examining the unit before making an offer. I did tell the owner that if he wants good money for it then he should list it on Ebay. I told him that I can not pay as high a price as he likely to get from selling it on Ebay. I have to wait until the calc is here.

Re: How much is an HP25 worth?
*Message #6 Posted by **Frank** on 18 Feb 2003, 3:50 p.m.,*
in response to message #5 by Chan Tran

I suggest $80-100 including case, charger and battery pack in good condition. $150 including all original acc/manuals in mint condition in box

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???41cx = 42s????
*Message #1 Posted by **Joe Edwards** on 16 Feb 2003, 3:18 p.m.*

Howdy from Fort Worth.

I have a 41cx which I just recently picked up and I would like to give it as much functionality as a 42s. Is this possible?

I have a Math 1 module, a Adavantage module (on the way), and a PPC module (on the way).

What else do I need for this machine? Will the X-Functions module provide extra memory? I realize the CX already has the x-functions built in, but can it still use the extra memory.

Does the Advantage module have all the same math funtions as the Math Module? If so, I guess I wouldn't need it? Correct?

The 42 has more memory (I can never match it). It also has the Solver. Do any of the modules contain the equivilant of the Solver.

Any info would be appreciated.

Joe

Re: ???41cx = 42s????
*Message #2 Posted by **Chan Tran** on 16 Feb 2003, 4:37 p.m.,*
in response to message #1 by Joe Edwards

I wouldn't try to make the 41cx equals the 42s. To me the 41 is already greater than the 42

Re: ???41cx = 42s????
*Message #3 Posted by **Joe Edwards** on 16 Feb 2003, 4:57 p.m.,*
in response to message #2 by Chan Tran

That is great and all for those you have used these machines at lenght, but for us newbies who wish to learn about them, could you be more specific?

Re: ???41cx = 42s????
*Message #4 Posted by **Fred Lusk** on 16 Feb 2003, 5:00 p.m.,*
in response to message #1 by Joe Edwards

Joe…

The Advantage is arguably the most important module HP produced for the 41 series. It includes solver and integration FUNCTIONS (rather than PROGRAMS like the old Math Module). The Advantage also has a lot of matrix functions and a bunch of other useful stuff.

I don't have a Math Module handy so I can't do the comparison you asked for, but I think you will find it little used if you have the Advantage.

Depending on how you use the 41, you may want to add the extended memory. It doesn't work like main memory - it's more like a disk drive, though there are ways to get around that. I used (my 41CX is currently NOP) extended memory for storing little used programs that I could download, use, then purge, without having to rely on having my card reader handy.

Have fun with your new toys.

Fred

Re: ???41cx = 42s????
*Message #5 Posted by **Joe Edwards** on 16 Feb 2003, 9:11 p.m.,*
in response to message #4 by Fred Lusk

Okay, I can use extended memory for storage...what about a quad memory ROM...can it be used for even more storage?

Thanks.

Re: ???41cx = 42s????
*Message #6 Posted by **Fred Lusk** on 16 Feb 2003, 10:26 p.m.,*
in response to message #5 by Joe Edwards

Joe…

The quad memory ROM is only good for a 41C. The 41CV and 41CX have that memory built-in.

With two X-Mem + Advantage + PPC, you will have a very well outfitted rig. FYI, my 41CX has two X-Mem + Advantage. The last port I used for swapping printer, card reader, Surveying, and Structural Engineering. I never bought a PPC ROM, but I borrowed a friend's for about a month.

Fred

Re: ???41cx = 42s????
*Message #7 Posted by **Joe Edwards** on 17 Feb 2003, 1:04 p.m.,*
in response to message #6 by Fred Lusk

You used a PPC module? What are some of its capabilities?

Joe

Re: ???41cx = 42s????
*Message #8 Posted by **Fred Lusk** on 17 Feb 2003, 4:09 p.m.,*
in response to message #7 by Joe Edwards

Joe…

Even though it's been perhaps 20 years since I used the PPC ROM, I can actually answer your questions--I happen to have a copy of portions of the manual, including the table of contents. Even if you don't use the PPC ROM much, the manual is worth the price of admission. It's an incredible piece of work.

The PPC ROM contains 122 global labels. The manual includes a table with the routines grouped by function (see below; I have also included a few examples for each category).

* Alpha Register (e.g. Alpha to Memory; Substitute Character) * Block

Operations (blocks of storage registers--e.g. Block Move; Insert Record) * Curtain (memory curtain--e.g. Curtain Finder; Curtain Up) * Display (display settings--e.g. Recall Display Mode) * Key Assignments (e.g. Clear Key Assignments; make Multiple Key Assignments) * Load Bytes (six routines for synthetic programming--e.g. Load Bytes; Flag Inputs for Load Bytes) * Mathematics (e.g. Curve Fit; Complex Arithmetic; Fractions<###>; Next Prime; Solve; Integrate) * Matrix (e.g. Interchange Rows; Multiply Row by Constant… but no complete matrix solvers) * Memory (some more synthetic-useful routines--e.g. .END. Finder; Open Memory) * Miscellaneous (e.g. Calendar Date to Julian Date and vice versa; Tone N) * Non-Normalized Numbers (e.g. Character to Decimal and vice versa; HEX to NNN and vice versa; HEX to Decimal) * Peripherals (e.g. Barcode Analyzer; Column Print Formatting; High Resolution Histogram; PPC Logo) * Program Pointer (some more synthetic-useful routines--e.g. Alpha Store b; Count Bytes) * Return Stack (RTN stacks are limited, these routines work around that--e.g. Lengthen Return Stack; Shorten Return Stack) * Sorts (e.g. Stack Sort; Large Array Sort)

I used the fraction routing as the core the Feet-Inches-Fractions program I posted on this site a while back. Search under the 41 programs it you're interested.

Some of the PPC ROM was superseded by XFUN (or 41CX), Advantage, CCD, and perhaps others, but--as I mentioned above--the manual is worth it even if you don't use the module.

I hope this helps, Fred

Re: ???41cx = 42s????
*Message #9 Posted by **Fred Lusk** on 17 Feb 2003, 4:19 p.m.,*
in response to message #8 by Fred Lusk

Joe…

Sorry about the formatting of the previous message. It looked like bullet points on screen, but I forgot that some formatting is lost when posting.

Fred

Single formating tip...

Message #10 Posted by ***Vieira, Luiz C. (Brazil)*** *on 18 Feb 2003, 12:55 a. m.,*

in response to message #9 by Fred Lusk

Hi; if you allow me to...

I like to use the [pre] in the begining of a text block I want to keep the line spacing and line feed. Then, a [/pre] at the end closes it. See:

if I simply type

```
one
two
three
```

and post it, it will read

one two three.

Instead, I use:

```
[pre]
one
two
three[/pre]
```

and it looks like this:

```
one
two
three
```

I posted it because I think this is somewhat easy to remember (pre, from preformated text).

Hope this helps

Re: Single formating tip...
*Message #11 Posted by **Fred Lusk** on 18 Feb 2003, 10:14 p.m.,*
in response to message #10 by Vieira, Luiz C. (Brazil)

Thanks Luiz…I keep forgetting how to format things here. That's what happens when you're over 40!

Re: Single formating tip...
*Message #12 Posted by **Vieira, Luiz C. (Brazil)** on 19 Feb 2003, 10:42 a.m.,*
in response to message #11 by Fred Lusk

I know what you mean.... I'm 41!

Wanna know a little secret? I got most of my memories back when I took my studies back and I found out that I should have my Master's Degree (Brazillian post-graduation first tittle) to be accepted as a University teacher. Boy, what a hell-of-a job! And today's students force you to keep your brain cells up-to-date...

And life goes on...

Re: ???41cx = 42s????
*Message #13 Posted by **David Smith** on 16 Feb 2003, 5:34 p.m.,*
in response to message #1 by Joe Edwards

No need to add XFUNCTIONS they are already built in, just add XMEMORY modules. The PPC rom is more of a systems/hacker oriented device. Lots of fun.

The 42S has a larger program space becuase it has no removeable memory. Get the 82104A card reader and you can load and save programs. Also get an 82143A printer.

Re: ???41cx = 42s????

*Message #14 Posted by **Raymond Del Tondo (Germany)** on 16 Feb 2003, 7:39 p.m.,*
in response to message #1 by Joe Edwards

Hi,

as other people in this thread already stated, get one or two X-Memory modules, which will add several hundred registers to your already built-in 124 X-Memory registers (sums up to 600 XM-regs) .

Furthermore, the most advanced *HP* module is the Advantage Pac, which includes powerful matrix functions, and has a numerical solver. AFAIR is has a numerical integral function, too, but I'm not sure at the moment.

However, one of the most advanced modules in general is the CCD module, which extends the HP-41 user interface by many new features, and the CCD module lets you do synthetic programming like it were normal programming!

BTW:The matrix functions in the Advantage Pac were taken from the CCD module.

The PPC module was a milestone in functionality when it came out, and it's history showed how many people could work together on such a project.

Nevertheless, I'd sell or swap away the PPC module for a CCD module, since it's functionality cannot be compared with the power of the CCD module (OMHO), unless you want to keep the PPC for sentimental reasons, like I do;-)

Back to the main theme:

A 42S has many more features than a 41, especially regarding the user interface (menus, graphics,...). But it has it's disadvantages, like no I/O, only output.

Apart from that, the 42S could be compared to the HP-41CV w/o X-Memory features. I write this because main memory and X-Memory in the HP-41 are to different pairs of shoes, at least from the user's point of view.

In the 42S, you 'only' have main memory, but some more than in the HP-41.

So if you have HP-41 programs which use XM, you'll have to rewrite them for use in the 42S.

Regards,

Raymond

Re: ???41cx = 42s???? --- and an idea for HP
*Message #15 Posted by **Fred Lusk** on 16 Feb 2003, 10:40 p.m.,*
in response to message #14 by Raymond Del Tondo (Germany)

Raymond…

One other point Joe may be interested in--the 42S is much faster than the 41. Four times I think.

I use a 42S as my primary calculator. However, it never completely replaced my 41 until the 41 stopped working. I also have a 48G+ that I use for certain things, but the 42S is just easier.

I finally figured out what HP should be working on for us: a PDA/Scientific/Graphics calculator. I envision something about the size of two 42S hinged together like a Sony Clie. The bottom half would be a scientific calculator keyboard and the top half would be a 320x480 color screen. Keys should be like the 41 series (alpha on sloped face). Actually, how about swappable keyboards (scientific, business, qwerty) offering different capabilities, and the ability to handle either the Palm OS or Pocket PC? Stuff it with a high-speed PDA processor, 64MB+ RAM, backward compatiblity with ALL programmable HP calcs (e.g. HP-55 mode, HP-34C mode, etc.), RPN keystroke programming combining 41/42S/32SII, RPL, etc and you've got something I would pay $500-$1000 for.

Re: ???41cx = 42s???? --- and an idea for HP
*Message #16 Posted by **J-F Garnier** on 17 Feb 2003, 6:36 a.m.,*
in response to message #15 by Fred Lusk

What would be great is a freeware and fast HP-42S emulator for PDAs ;-)

J-F

(emulators already exist, but the HP-42S ROM is not free)

Re: ???41cx = 42s???? --- and an idea for HP

*Message #17 Posted by **HrastProgrammer** on 17 Feb 2003, 2:25 p.m.,*
in response to message #16 by J-F Garnier

Somewhere in the '98 I was thinking about what can be done with the existing HP-48 hardware. Emulation of some of the greatest HP calcs like HP-41C, HP-42S and HP-71B seems very interesting to me and I decided to investigate if it will be possible to develop and implement a true emulation of these machines.

I started with HP-41 emulator and after a few months of hard work I had a working version of HP-41E.

Then I decided to test what are the limits of HP-41 emulation and after a year I had an HP-41 emulated monster (HP-41X) on HP-48GX with 4096 registers, 16-characters display, plenty of ports and modules (CCD, XF/XM, HEPAX, Advantage, PPC ROM, ZENROM, Math, Stat, ...), >3x speed, printer and card reader support and many other advanced features.

The next step was to develop an HP-42S emulator (HP-42X) with 96K RAM, two "ports" with almost 32K each, printer support and the ability to load/save programs.

After this, it was a matter of time to write HP-71 emulator (HP-71X). Now it is finished and the specifications are: 129.5K RAM (ports 0..3), MATH ROM, Forth/Assembler ROM, HP-41 Translator Pac and great part of JPC ROM included, card reader support, printer support, etc, etc.

All of them can be installed at once on HP-48GX with two RAM cards.

Basically what I have proved is that a stock HP-48GX with RAM cards can emulate the HP-41, HP-42 and HP-71 (all expanded to their maximum physical and logical limits) without problem and that an HP-48GX calculator can be turned into a monster which can execute thousands of HP-41/42/71/48 programs. And if I can do this, HP can do this, only if they want. I don't see a problem for them to make a new HP-41C, HP-42S or HP-71B, based on the same old HP-48GX hardware. Saturn has still enough power to make all of them work very fast and reliable ...

Best regards.

No!
*Message #18 Posted by **Nenad Vulic (Croatia)** on 17 Feb 2003, 3:57 p.m.,*
in response to message #17 by HrastProgrammer

HrastProgrammer wrote: >>>And if I can do this, HP can do this, only if they want. I don't see a problem for them to make a new HP-41C, HP-42S or HP-71B, based on the same old HP-48GX hardware.<<<

No, Hrast, you are wrong! If you can do it, this does not mean that (the new) HP can do it! No doubt that the old HP could do it!

May this be a challenge to (the new) HP, if anyone of them is following the moHP posts. Do the HP calculators nowadays mean to them anything at all (as HP's still mean to us and as HP's meant to them during the years that have passed)?

Re: No!
*Message #19 Posted by **HrastProgrammer** on 18 Feb 2003, 1:53 a.m.,*
in response to message #18 by Nenad Vulic (Croatia)

Thank you for your kind words, Nenad :-)

We really should discuss a little about HP, calculators, past and future ... but I have lost your phone number you sent me last year :-(

Best regards to all ...

Re: ???41cx = 42s???? --- and an idea for HP
*Message #20 Posted by **Joe Edwards** on 17 Feb 2003, 5:17 p.m.,*
in response to message #15 by Fred Lusk

I drive an old pickup, use a fountain pen and wear a mechanical watch...and use a 20 year old calculator. As you can see speed isn't an issue with me! :)

Re: ???41cx = 42s????

*Message #21 Posted by **Karl Schneider** on 17 Feb 2003, 12:17 a.m.,*
in response to message #1 by Joe Edwards

Joe --

I provided a more-detailed answer to most of these questions several days ago in this Forum, but here's a synopsis:

1. The Math module has RPN programs for hyperbolic functions, triangle solutions, and Fourier analysis that the Advantage module does not have. The same set RPN programs for complex-valued operations is implemented on the Advantage module. Everything else on the Math module (e.g., matrix operations, solve, integrate) is implemented in a much more sophisticated fashion on the Advantage module.

2. The 41CX will not recognize an X-Functions module. So, the module would not provide 124 extra registers of X-memory to a 41CX. However, each X-Memory module (limit of 2) would add 238 registers of X-memory.

3. X-memory is like a RAM disk on a PC, not like extra RAM. Some programs/ROM functions can access X-memory directly, but generally, X-memory is like built-in external storage that requires battery (or capacitor backup) power.

4. Memory modules is useless on the 41CX; it already has the maximum 320 registers. DOn't get one.

Re: ???41cx = 42s????

*Message #22 Posted by **Ex-PPC member** on 17 Feb 2003, 4:38 a.m.,*
in response to message #1 by Joe Edwards

Brief summary:

- You can't plug an X-Functions/X-Memory ROM to an HP-41CX, it won't be recognized and actually it does conflict with the already built-in X-Functions set.

- You can add up to two X-Memory RAM modules to your 41CX. Doing it will carry your 41CX to its maximum RAM configuration, unless you plan to add external RAM using EPROMs, etc.

- Unless you need (slow) Fourier transforms, the Math ROM is absolutely useless next to an Advantage ROM, which has a lot more functionality, and most of it in the form of

ultra-fast, memory-saving *machine-code keywords*, instead of slow, inefficient *user-code programs*.

- Contrary to general belief, the PPC ROM isn't just a bunch of dated software to do synthetics, which has been superseded and made obsolete by later ROMs, such as the CCD ROM. Far from it, the PPC ROM was conceived as a toolkit ROM, where you would find hundreds of very useful routines, highly optimized for speed and convenience, in all cathegories from finance, to matrix handling, to calendar-printing, to multi-function plotting. All of them documented in incredible detail, with plenty of useful, no-nonsense examples, and lots of hints and tricks to maximize efficiency.

  That you can't find in any other ROM, be it the CCD ROM, the Advantage ROM, or any other you care to mention. The point is, synthetics are but a minor aspect of the PPC ROM. Just have a look at its manual when you get it and you'll see it for yourself at once.

  Myself, I have my 41CX fitted with the Advantage ROM, the PPC ROM, and an X-Memory RAM, with the free port used mostly for the Card Reader. And trust me, that's a combination that even a 42S would find very hard to surpass.

three and a half other things
*Message #23 Posted by **db(martinez,california)** on 17 Feb 2003, 1:45 p.m.,*
in response to message #22 by Ex-PPC member

1) the ppc rom gives you a way to pop into a rom at any line you want to - not just at global labels.

2) it can also let you turn your 41 into a small piano tuned in (roughly) thirds. kind of chinese.

3) many surveyors look(ed) at extended memory as data storage for 299 coordinate pairs. the only bad thing is that:

3 and a half) hp never wrote an extended function to transfer data files directly from extended to mass storage. you can do that with ascii files though. it's like hp thought someone would be writing the great american novel on his 41 and storing it in 4k chunks on his data casette but he wouldn't be doing math or anything. go figure.

Re: three and a half other things
*Message #24 Posted by **Fred Lusk** on 17 Feb 2003, 4:18 p.m.,*
in response to message #23 by db(martinez,california)

db…

Many years ago I actually wrote some XMEM->Card and Card->XMEM routines for two programs I was working on--COGO-Coordinate Geometry (for surveying calculations) & HC-Hardy Cross Water System Network Analysis). I never finished COGO, but the routines I did complete work. I finally figured out that to do what I wanted, it would take hundreds of manhours and more memory than you can put in the machine (I don't like uploading/downloading subroutines with the card reader). Plus, I have a nice computer program to that work. The Hardy Cross program is simply an improved version of the program in the Civil Engineering Solution book.

Fred

Re: three and a half other things
*Message #25 Posted by **db(martinez,california)** on 18 Feb 2003, 9:38 p.m.,*
in response to message #24 by Fred Lusk

fred-

yep. thats the downside of programming: if you don't use it 20 times a day then a really tight and elegant program will probably take more time to write than it will save. sometimes it's fun though.

fortunatly; a lot of the things i do are either simple or one of a kind so i haven't been bitten by the write-a-program bug in about 4 years.

Re: three and a half other things
*Message #26 Posted by **Fred Lusk** on 18 Feb 2003, 10:17 p.m.,*
in response to message #25 by db(martinez,california)

db…

With me, the urge to program comes and goes…kind of like how I get a cold once a year or something!

Fred

Re: ???41cx = 42s????

*Message #27 Posted by **Guillermo Castares** on 17 Feb 2003, 1:55 p.m.,*
in response to message #1 by Joe Edwards

I'm fan of the HP-41CX.

Recently I got a HP-42S, a great machine, but it have the following disadvantages:

- Typping texts needs to press 2 keys per caracter.

- No I/O (bar code reader, card reader, Modules, etc.)

- You cannot reconfigure the keyboard. With the HP-41 you are "the owner of the keyboard" and it is one of the best features you can ask for!

I should say that the HP-42S is the better calculator I know to operate with matrix and complex numbers. Very friendly, better than HP-15C, HP-28C/S, HP-48.

Regards.

Guillermo

Re: ???41cx = 42s????

*Message #28 Posted by **Ex-PPC member** on 18 Feb 2003, 4:50 a.m.,*
in response to message #27 by Guillermo Castares

You wrote:

" I should say that the HP-42S is the better calculator I know to operate with matrix and complex numbers. Very friendly, better than HP-15C, HP-28C/S, HP-48."

I think you should try an HP-71B + Math ROM. I own all the models you mention, and for fast, friendly, easy manipulation of complex numbers and even very large matrices, nothing beats an HP-71B+Math.

You can have more than 400 Kb for your largest matrices (versus 7 K or 32 K for an HP-42S), and you can operate with them at blinding speed and with the upmost ease that BASIC language provides. Just for instance, this is all you need to do to solve a linear system of N equations with complex coefficients, including prompted input and formatted output:

```
COMPLEX A(N,N),B(N),X(N)
MAT INPUT A,B
MAT X=SYS(A,B)
MAT PRINT X
```

you don't need a program for it, you could key in those instructions right from the command line and would be able to recall them an edit them at will. That you can't do with an HP-42S, unless you write a program.

What's more, if your coefficients are physical measurements and 12-digit precision isn't justified, you can define all matrices as COMPLEX SHORT and save a lot of memory, allowing for much larger matrices. That you can't do with an HP-42S either.

Finally, you can store both data and result matrices in DATA files within the machine, in binary or plain ASCII format, for further processing, sharing with other programs or I/O. The HP-42S has no provision for data files of any kind.

As for complex variables, you can deal with them as if they were normal, real variables. Defined functions can take complex parameters, and you can define complex variables and matrices in two precisions, thus saving memory. For instance:

```
COMPLEX SHORT A(10), B(10)
COMPLEX C(10)
MAT INPUT A,B
MAT A=SIN((2,3)+(4,5)/(6,7))*A
MAT C=A+B
MAT PRINT C
```

would declare three complex vectors, two full-precision and one memory-saving short-precision, would prompt for A & B elements, then would multiply all elements in A by the constant Sin((2+3i)+(4+5i)/(6+7i)), and it would finally add all complex elements of A and B, store the result in C, and print it. All at full speed, and from the keyboard.

Re: ???41cx = 42s????
*Message #29 Posted by **Guillermo Castarés** on 18 Feb 2003, 8:49 a.m.,*
in response to message #28 by Ex-PPC member

Thanks you for your complete description of the HP-71B features.

During my years of studying Electrical Engineering I dreamed with the HP-71B. But I never could see one except the superb brochure I own until today.

Re: ???41cx = 42s????
*Message #30 Posted by **Ex-PPC member** on 18 Feb 2003, 9:58 a.m.,*
in response to message #29 by Guillermo Castarés

Guillermo wrote:

"During my years of studying Electrical Engineering I dreamed with the HP-71B. But I never could see one except the superb brochure I own until today."

Actually, they were incredibly inexpensive a few years ago, when a large British government organization cleared some 25,000 of them. They were so overabundant and inexpensive that you could get one with an HP-IL ROM for just $30 or so, even some unused ones were available. People attending one of the Annual Meetings organized by HPCC at the time were given one for free !

Now that all those 25,000 are already sold out, it's not so easy, but if you are into Electrical Engineering, I would confidently advise you to get one, there's no better machine for that purpose in the whole world, it has all the features needed for Electrical Engineers, namely:

- up to 512 Kb addressable space, i.e: up to 448 Kb of internal RAM

- with a Math ROM: full set of matrix operations, working for both real and complex one- and two-dimensional arrays and matrices (INTEGER, SHORT, REAL, COMPLEX, COMPLEX SHORT)

- with a Math ROM: full set of complex variables and functions (arithmetic, trigs, logs, exponentials, etc), all useable in calc-mode, from the command line, and in programs, including using them as parameters or results from user-defined functions and subprograms

- with a Math ROM: Solve and Integrate keywords, which can accept user-defined multi-line functions, and can call themselves recursively, so allowing solving systems of non-linear equations, multidimensional integration, and integration/ solving of implicit functions.

- Fourier transforms and inverses, using the extremely speedy Fast Fourier Transform (FFT) algorithm.

- subprogram capability, passing parameters by reference and value, and recursively. Same for multi-line, user- defined functions. Whole matrices can be passed as parameters, if needed.

- Full I/O, using the HP-IL ROM, which can control up to 3 different HP-IL loops at a time, with many devices on each, including printers, tape drives, disk drives, HP-41Cs, other HP-71Bs, etc, at speeds up to 5,000 bytes per second.

- file system in RAM, allowing multiple programs and binary/ASCII data files, as well as binary suprograms and LEX (Language EXtension files) which add new keywords to the resident BASIC, or even new languages altogether, such as Forth/ Assembler

- Incredibly powerful ROMs available, such as the Math ROM, the Forth/Assembler ROM, or the Circuit Analysis ROM, as well as the HP-41C Translator/Forth ROM.

... and many other advanced features, all in an extremely portable, solid, rough, quality handset. Get one, you won't regret it !

Re: ???41cx = 42s????

*Message #31 Posted by **Joe Edwards** on 18 Feb 2003, 10:05 p.m.,*
in response to message #30 by Ex-PPC member

Does the 71b have an actual 41c/v/x emulator on a ROM?

Joe

Re: 41C->71B [was: ???41cx = 42s????]

*Message #32 Posted by **Ex-PPC member** on 19 Feb 2003, 5:48 a.m.,*
in response to message #31 by Joe Edwards

It does have an HP-41C Translator ROM, which allows you to key in HP-41C/CV/CX programs right from the keyboard, or load them from some HP-IL device.

The translator implements most functions and functionality in the mainframe HP-41, plus most functions from the X-Functions ROM and one or two basic ones from the Timer ROM. Being a translator and not an emulator, there are some things that can't be translated or don't translate well, but generally speaking, most 'normal' programs can be translated, or created anew. No synthetics at all, of course !

The translator has some extra advantages. For once, it does include a complete Forth-language system, so with the ROM installed you can write programs in either BASIC, HP-41C user code (RPN), or Forth. The Forth system also allows you to define 'new' HP-41C functions for use in your HP-41 translated programs. It also gives a much larger set of registers (up to SIZE 999 at least, I think) and translated programs run much faster than in the real 41C, average 7 times faster, and with greater precision (12 digits vs. 10).

Finally, you can use it right from the keyboard to perform RPN calculations, with the classical 4-level plus LastX stack.

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HP-11C test
*Message #1 Posted by **Michel Beaulieu** on 16 Feb 2003, 2:11 p.m.*

Can someone tell me the procedure to make a "self" test on a HP-11C calculator.

Thanks Michel

Re: HP-11C test
*Message #2 Posted by **Spice_Man** on 16 Feb 2003, 2:18 p.m.,*
in response to message #1 by Michel Beaulieu

Turn calculator off.

Hold down "X" (multiply) key while turning it on (press and release the ON button). Then release the "X" key.

Spicey

Re: HP-11C test
*Message #3 Posted by **Michel Beaulieu** on 16 Feb 2003, 2:43 p.m.,*
in response to message #2 by Spice_Man

Thanks! I did it and i get "running" and after that all the display possibilities lit. Is it ok?

Re: HP-11C test
*Message #4 Posted by **Spice_Man** on 16 Feb 2003, 3:27 p.m.,*
in response to message #3 by Michel Beaulieu

Yes, that's a successful test!

Another test, the keyboard test, can be done by holding down the "divide" key while turning it on.

Then, press all the keys in sequence starting from the upper left, and go across to the right, then down one row start from left, and across to the right, etc. (you have to press ENTER key twice for each of the two rows on which it exist)

After the last key is pressed, you'll get the series number displayed (11 in the case of the 11C). Spicey

Re: HP-11C test
*Message #5 Posted by **Michel Beaulieu** on 16 Feb 2003, 4:51 p.m.,*
in response to message #4 by Spice_Man

Ok, for keyboard test. I tried the 2 tests on my old 12C but nothing, is it normal?

Thanks again!

Re: HP-11C test
*Message #6 Posted by **Thibaut.be** on 17 Feb 2003, 6:16 a.m.,*
in response to message #5 by Michel Beaulieu

no, it's not. all voyager series use the same self-test procedure.

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HP-9895A manual
*Message #1 Posted by **Achim** on 16 Feb 2003, 12:08 p.m.*

I'm trying to simulate a HP-9895A disk drive on a PC equipped with a GPIB-board. Therefore I need the HP-IB adresses used by the 9895A. Has anybody a manual of this equipment?

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15C User Mode
*Message #1 Posted by **Charlie S** on 16 Feb 2003, 9:06 a.m.*

Hello all,

I have a 15C which will do simple add, multiply, divide, etc but shows "Error 4" whenever I try a square root or any scientific function.

The annunciator "user" shows all the time and I don't recall that in the past. Do you think I'm stuck in some mode I have forgotten about? I can't find my manual to look this up.

Thanks

Re: 15C User Mode
*Message #2 Posted by **George** on 16 Feb 2003, 10:21 a.m.,*
in response to message #1 by Charlie S

I just recently purchased a 15c so my knowledge is limited. But it seems to me that you are in fact in the user mode (which allows you to redefine some keys) as indicated by "user" in the display area. You should be able to turn this mode off by pressing the yellow shift and the [RCL] key, which has "user" (in yellow) written above it. This should restore normal calculator function.

Re: 15C User Mode

*Message #3 Posted by **R Lion** on 16 Feb 2003, 11:57 a.m.,*
in response to message #2 by George

"...the user mode (which allows you to redefine some keys)..."

Not exactly: when in user mode, the yellow functions (A, B...) are the principal functions in those keys and white functions (sqrt, exp...) are now got pressing yellow f key before.

This let you run quickly (with only a keystroke) the programs labeled A, B...

Hope this helps (if it can be understood)

Raul

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Did HP use SP (synthetic prog.) in any of its 41 apps???
*Message #1 Posted by **Bill Wiese** on 15 Feb 2003, 11:04 p.m.*

Just curious, does anyone know if HP ever use any synthetic programming ("SP") in its user code apps (modules, app packs on cards, etc.)? Were any SP functions a normal part of an HP programmer's day, and just were not presented to users so as to assure overall machine integrity??

This question is not meant to include code that manipulates normally non-user-accessible registers by machine code, since the whole machine's "open" at that level.]

Just curious, thanks...

Bill Wiese San Jose, CA

Re: Did HP use SP (synthetic prog.) in any of its 41 apps???
*Message #2 Posted by **Ernie Malaga** on 16 Feb 2003, 11:26 a.m.,*
in response to message #1 by Bill Wiese

Bill:

As far as I know, HP never used SP in any of its own products. SP was routinely banned from the User's Library, so your chances of having your program rejected from the UL climbed to 100% if it included a mere STO M. This policy was revised some time later, and the UL started to accept programs where SP was used and well-documented.

The application pacs, however, had always plain-vanilla, SP-free code. If anyone knows different, I'd love to hear that.

-Ernie

Re: Did HP use SP (synthetic prog.) in any of its 41 apps???
*Message #3 Posted by **Bill Wiese** on 16 Feb 2003, 2:08 p.m.,*
in response to message #2 by Ernie Malaga

Ernie,

Thanks for the input. Yes, I'd guess the User's Library would ban SP since it's, well, for "users". Similarly, App Packs on cards or printed media would prob shy away from SP as well.

But what about App. *Modules*?? Looks like my math module, etc. employ straight HP user code. Other modules may use machine code for certain functions as well.

Bill Wiese San Jose, CA

As far as I know, HP never used SP in any of its own products. SP was routinely banned from the User's Library, so your chances of having your program rejected from the UL climbed to 100% if it included a mere STO M. This policy was revised some time later, and the UL started to accept programs where SP was used and well-documented.

The application pacs, however, had always plain-vanilla, SP-free code. If anyone knows different, I'd love to hear that.

Re: Did HP use SP (synthetic prog.) in any of its 41 apps???
*Message #4 Posted by **J-F Garnier (France)** on 17 Feb 2003, 6:28 a.m.,*
in response to message #3 by Bill Wiese

There are some synthetic lines in the PLPLOT user program in the PLOTTER module: a shortened 'E2' or 'E3' instead of '1E2 or '1E3'. Also synthetic alpha lines with characters like '{' or '(' (I don't remember exactly) not available by keystrokes.

J-F

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HP45 charger (82002A)
*Message #1 Posted by **John Cadick** on 15 Feb 2003, 7:38 p.m.*

Does anybody have one of these for sale? If not, could you please tell me the voltage outputs and send a photo of the connector. I have the HP45, but no charger.

John

Re: HP45 charger (82002A)
*Message #2 Posted by **Howard** on 16 Feb 2003, 6:39 a.m.,*
in response to message #1 by John Cadick

Check out the "Batteries and Chargers" page on MoHPC main page. It gives the compatable chargers for your calculator. From memory HP 25, 35, 45, 55, 65 and 67 are OK. I think your 82002A is a dua imput voltage charger.

Re: HP45 charger (82002A)
*Message #3 Posted by **John Cadick** on 16 Feb 2003, 1:58 p.m.,*
in response to message #2 by Howard

Yes. It is. After I posted I did some more research and found the answer. Thanks for the reply.

Re: HP45 charger (82002A)
*Message #4 Posted by **David Smith** on 16 Feb 2003, 5:37 p.m.,*
in response to message #1 by John Cadick

The chargers routinely show up on Ebay. They usually bring a pretty penny (say $35-$45). A lot of time you are better off finding one with an HP35 or HP45 for not much more.

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hp85 secured files
*Message #1 Posted by **andy** on 15 Feb 2003, 3:58 p.m.*

when attempting to unsecure an hp85 file, one needs to know the 2 digit security code.

I have a copy of the hp85 games pac, but all the files on it are secure. Does anyone know the secure code...or a way around it?

Re: hp85 secured files
*Message #2 Posted by **David Smith** on 15 Feb 2003, 5:22 p.m.,*
in response to message #1 by andy

With two digits, there are not that many combinations to try... sit down with some good beer and start poking...

Re: hp85 secured files
*Message #3 Posted by **Ex-PPC member** on 15 Feb 2003, 9:51 p.m.,*
in response to message #2 by David Smith

David Smith wrote: "With two digits, there are not that many combinations to try... sit down with some good beer and start poking..."

With two digits, on the HP-85, you have as many as 256*256 = 65,536 possibilities to try per program, assuming all have different combinations. That's a lot.

Besides, if the programs are stored on tape, each attempt will mean reading the tape and possibly rewinding. The tape will wear out and become damaged much sooner, so trying all combinations is definitely out of the question, unless you're extremely lucky. The same would apply for programs stored on a floppy disk, it would also get ruined.

The best way would be if someone knows the combination and will tell. That failing, I think the proper way to do it is to get an 'UNSECURE' binary program, load it using LOADBIN,

then using it to remove the protection. Such a binary can probably be found in libraries or repositories of obsolete HP software and hardware. Else, you can write it yourself if you get the Assembler ROM or its tape version (which included a BASIC program to do the editing & compiling, and the binary program STOREBIN to convert your assembler source code to a binary program and store it on tape), plus the relevant documentation.

Perhaps some visitor has some of these materials available, knows where they can be found, or can shed some light on the subject. I used to have all of them, but that was many, many years ago ...

Re: hp85 secured files
*Message #4 Posted by **Bruce Cohen** on 15 Feb 2003, 11:54 p.m.,*
in response to message #3 by Ex-PPC member

I remember reading somewhere that the code was "HP" or "hp". This is from way back so I hope my memory is correct.

Re: hp85 secured files
*Message #5 Posted by **andy** on 17 Feb 2003, 11:40 p.m.,*
in response to message #4 by Bruce Cohen

"hp" and "HP" don't work...thanks though

Re: hp85 secured files
*Message #6 Posted by **jr(italy)** on 18 Feb 2003, 7:10 a.m.,*
in response to message #5 by andy

Andy

Try using the following

UNSECURE "filename", "security code", security type"

security code used was "HP" security type used was "2"

I found this information on the introduction page of the Series 80 Graphics Presentation manual and on pages 294 and 295 of the Series 80 programing guide.

Hope this helps

Best regards

jr

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HP 11C won't display
*Message #1 Posted by **Steve marsh** on 15 Feb 2003, 2:57 p.m.*

Old faithful 11C won't display. I replaced the batteries with new but it was acting kinda sick. It would only display after the on button was pressed several times. I opened the back cover and found 1 plastic post broken off. this was krazy glued back in place. The lcd would go on if I moved the flat ribbon that connects it to the rest of the calculator. I noticed the ribbon and a cork backed rubber bar was out of place. I put it together with the bar pressing on the ribbon but LCD still not working. How is the ribbon for LCD supposed to connect to rest of calculator?

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Another Uncredited MoHPC Photo on EBay
*Message #1 Posted by **Spice_Man** on 15 Feb 2003, 1:48 p.m.*

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3008252154&category=11713

Re: Another Uncredited MoHPC Photo on EBay
*Message #2 Posted by **Dave Hicks** on 17 Feb 2003, 8:47 p.m.,*
in response to message #1 by Spice_Man

Thanks. He has updated his description after my request.

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HP PPC ROM
*Message #1 Posted by **Steve** on 15 Feb 2003, 9:23 a.m.*

Since these modules are so difficult to find (and expensive if you do find one), I'm wondering if there's anything that the module can do that you can't do with the Byte Grabber and Byte Loader from this site? I'm guessing that once you have these two tools (one to bootstrap the other) there's nothing you can't do with the right knowledge.

Steve

Re: HP PPC ROM
*Message #2 Posted by **Richard Garner** on 15 Feb 2003, 1:33 p.m.,*
in response to message #1 by Steve

I found that after the extended functions module and the 41CX in particular came out, most synthetic programing was redundent. I found I could do the same things everyone else was doing with synthetics with standard functions on the 41CX and it ran faster and it was less prone to lockups and memory loss.

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41c series PACs
*Message #1 Posted by **Joe Edwards** on 14 Feb 2003, 11:19 p.m.*

I have read about the various PACs for the 41c series. Now are these just ROMs with programs stored on them? I noticed several of the programs in the 41c programs. Are these the same programs that were on the PACS?

Thanks. Joe

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41cx to 41cx over HP/IL?
*Message #1 Posted by **Steve** on 14 Feb 2003, 10:20 p.m.*

Is it possible for 2 HP41's to communicate over HP/IL? My goal is to transfer data between them using 2 HP/ILs connected together. The HP/IL manual does not mention 2 HP41s in a loop. I'm guessing that even if this works electrically, one of the 41s will have to look like a talker/listener, with the other the controller (default).

Has anyone ever tried this? Thanks,

Steve

Re: 41cx to 41cx over HP/IL?
*Message #2 Posted by **Vieira, Luiz C. (Brasil)** on 15 Feb 2003, 8:44 a.m.,*
in response to message #1 by Steve

H´;

in an HPIL system, the HP41 can only play as a talker controller, or simply talker. Other controlers, like the HP71 or the HP75, can be set as listener.

I have never heard about two HP41 connected in the same physical HPIL loop.

Cheers.

Re: 41cx to 41cx over HP/IL?
*Message #3 Posted by **Steve** on 15 Feb 2003, 9:16 a.m.,*
in response to message #2 by Vieira, Luiz C. (Brasil)

I'm surprised the HP41/HPIL designers never envisioned two 41's exchanging data. Ugly as it is, I'm sure the following would work:

HP41<->HP/IL<->RS/232<-Null Modem->RS/232<->HP/IL<->HP41

Steve

Re: 41cx to 41cx over HP/IL?
*Message #4 Posted by **Vieira, Luiz C. (Brazil)** on 15 Feb 2003, 9:46 a.m.,*
in response to message #3 by Steve

Hi;

your arragment puts each 41 in a separate physical loop; it should work at the "electronic" level, but you still have a logical loop. It means that control messages sent from one talker will find the other talker. Would two talkers "live" with that?

I'm interested on this.

BTW, do you have the specs for the IL pulse transformer?

Thank you and success.

Luiz C. Vieira - Brazil

Re: 41cx to 41cx over HP/IL?
*Message #5 Posted by **Steve** on 15 Feb 2003, 11:12 a.m.,*
in response to message #4 by Vieira, Luiz C. (Brazil)

I'm assuming it will work since this configuration works for both input (INP) and output (OUTP) with a PC on the other end. I would execute INP on one 41 and OUTP on the other. Assuming the proper null modem cable, to each 41 the other end of the wire would look just like a PC (or any device). I can't test this since I only have one 82164 (RS-232C Interface).

What is an IL pulse transformer?

Steve

Re: 41cx to 41cx over HP/IL?
*Message #6 Posted by **J-F Garnier** on 15 Feb 2003, 12:06 p.m.,*
in response to message #5 by Steve

HI,

I answered to similar subject at: http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/archv009.cgi?read=25366

Regards.

J-F

Re: 41cx to 41cx over HP/IL?
*Message #7 Posted by **Steve** on 15 Feb 2003, 7:30 p.m.,*
in response to message #6 by J-F Garnier

I guess as long as you don't need interactive communication, then either rs-232 to the PC or mag cards look like the way to go. Thanks!

Steve

Re: 41cx to 41cx over HP/IL?
*Message #8 Posted by **Johnny Billquist** on 17 Feb 2003, 7:58 a.m.,*
in response to message #4 by Vieira, Luiz C. (Brazil)

No. The depicted configuration would mean that each HP-41 is a talker, but they are both talking to an RS-232 interface, which is the listener. They are not talking to each other at the HP-IL level. The fact that the RS-232 interfaces are talking to each other don't affect HP-IL. And "talking" is perhaps a small overstatement. RS-232 is more or less just a case of exchanging data. There is not much of a protocol at that level.

Re: 41cx to 41cx over HP/IL?

*Message #9 Posted by **Christoph Klug** on 17 Feb 2003, 8:55 a.m.,*

in response to message #8 by Johnny Billquist

For adapting two HP41 together use two HP-IL/RS232 interfaces, or alternatively two HP82166A IL-Converter units. The belonging HP82166A manual describes this special application including needed wiring and software.

But much more interesting for the HP82166A IL-Converter are advanced hardware interfacing and measurement and control applications using the HP41 : „Control the world with HP-IL“ Two nice interface systems are absolutely powerfully hardware platforms for doing this : The battery powered, modular I/O-Board and the IL2000 system.....

The best today solution for interfacing two HP41 handheld computer systems together is using the new full version of EMU41 from Jean-Francois Garnier , plus PC with HP-IL/PC Interface Card :

First connect the first HP41 to this system and upload data, programs, any type of file or non normalised numbers = NNN´s. to virtual EMU41. Than connect the second handheld and download data, ,programs and so on to the second machine.

Emu41 gives you much more features : virtual display, printer (including barcode plot), mass storage, gateway to the DOS world, and an powerfully emulator including advanced plug in modules and ram-box features. More details about EMU41 you find in the HP-Museum article forum item 311 “HP41-PC gateway &emulator”.

Best wishes from Germany – Christoph Klug

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Classic series display problems
*Message #1 Posted by **Spice_Man** on 14 Feb 2003, 2:40 p.m.*

Does anyone have any detail on how to fix problems with the display on classic series? (flashing LED, intermittent LED, or low brightness, or no LED lightup)

Does anyone have any links where I can dig up more information regarding LED problems with the Classic series?

Thank you! Spicey

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HP calc emulation
*Message #1 Posted by **Joe Edwards** on 14 Feb 2003, 1:20 p.m.*

Okay guys. This HP calc bug that bit me is getting potentially expensive! I need another option. I could care less for collectibility, I need usability! (Well, except for the super solid construction of the 41cx WOW!...but I stray). EMULATION for the PC and Pocket PC. I have found a 41cx emulator, a 12c and 15c emulator for the Pocket PC. Are there any others out there? Such as a 42s? 32s? I realize I am probably speaking hearsy :) for asking these questions, but a guy has to eat! Seriously, does anyone know anything regarding emulation on the Pocket PC? ESPECIALLY, 41c PAC emulation!

Thanks for the help!!!

Joe

Re: HP calc emulation
*Message #2 Posted by **Raymond Del Tondo (Germany)** on 14 Feb 2003, 6:09 p.m.,*
in response to message #1 by Joe Edwards

Hi,

simply look here to see what's available: http://www.finseth.com/~fin/rpnrpl.html

Raymond

Re: HP-10BII calc emulation
*Message #3 Posted by **Gordon Dyer** on 15 Feb 2003, 7:05 p.m.,*
in response to message #1 by Joe Edwards

For all you people with HP-10BII keyboard problems, try this emulator. It looks good and works with keys as lively as my mouse!
http://www.hpcc.org/links.html

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HP48gx programming
*Message #1 Posted by **Pierre Brial** on 14 Feb 2003, 12:26 p.m.*

Hello, I possess a very small collection of HP calculators. All in all four models : HP 35, 97, 41cx and 32sII. All of these was bought second hand or given by friends without the manuals I can program easily the hp 97 without the manual. It was a bit more difficult with the 41 and 32sII, but I succeeded to do simple program before I could find copies of the manuals for these two models. A friend just borrow me an hp48gx. He lost his manual, and never use more than the four operations in this calculator (what a shame). For this one, it is impossible for me to guess how to enter the simplest code. Could someone tell me how to enter a simple program ? For example something like this one in basic : input X input Y print X*Y END

Thanks for your help

Pierre

Re: HP48gx programming
*Message #2 Posted by **Christof** on 14 Feb 2003, 1:29 p.m.,*
in response to message #1 by Pierre Brial

http://www.hpcalc.org/

also, I think Luiz has a site, but I can't find the bookmark now. I'm sure he will post it- it's a really well set up resource for the 48

Re: HP48gx programming
*Message #3 Posted by **Bill Hemphill** on 14 Feb 2003, 2:09 p.m.,*
in response to message #1 by Pierre Brial

There's a wealth of information at the following:

Calculus Concepts: http://college.hmco.com/mathematics/latorre/guides.htm

Programming Documentation: http://www.hpcalc.org/hp48/docs/programming/

Misc documents including User Manual: http://www.hpcalc.org/hp48/docs/misc/

Re: HP48gx programming
*Message #4 Posted by **James M. Prange** on 14 Feb 2003, 9:56 p.m.,*
in response to message #3 by Bill Hemphill

Also note that almost everything from the 48S series also applies to the 48G series, and in my opinion the S series came with a better manual. The 48SX Owner's Manual (And hey! I just noticed, also the Programmer's Reference Manual) is included in the Museum CD-ROM/DVD-ROM set; see http://www.hpmuseum.org/cd/cddesc.htm if you don't have it.

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A little HP-71B challenge

*Message #1 Posted by **Ex-PPC member** on 14 Feb 2003, 8:31 a.m.*

As most of you already know, the HP-71B features an extremely powerful version of BASIC, which among other things, allows recursion, i.e.: a function or subprogram may call itself.

This makes it pretty easy to write a recursive, multiline user-defined function to compute, say, the factorial function:

```
n! = 1 x 2 x 3 x ... x (n-1) x n
```

like this one, for instance, valid for integer N greater than 0:

```
10 DEF FNF(N)
20 IF N=1 THEN FNF=1 ELSE FNF=N*FNF(N-1)
30 END DEF
```

As you can see, thanks to recursion it's really easy (if inefficient) to do it using a multiline user-defined function.

The challenge is: try and define a factorial function as above, but using a **single-line, single-statement** user defined function.

By single-line, single-statement I mean your function must be defined like this:

10 DEF FNF(N)= ...

and it must be recursive, i.e: it must call itself. No "END DEF" nor "@" (statement concatenators) are allowed, nor can you invoke another user-defined function.

Give it yourself a try before looking elsewhere. Once you succeed, this will be a pretty confirmation that single-line user-defined functions can be recursive as well on 71B's BASIC !

Re: A little HP-71B challenge
*Message #2 Posted by **J-F Garnier (France)** on 15 Feb 2003, 12:48 p.m.,*
in response to message #1 by Ex-PPC member

OK, here is my very inefficient solution:

10 DEF FNF(X)=VAL("1*fnf(x-1)*x"[1,1+12*(X#0)])

My first idea was to use the ITE function, it doesn't exist on the HP-71B ...

J-F

Re: A little HP-71B challenge
*Message #3 Posted by **Katie** on 15 Feb 2003, 5:05 p.m.,*
in response to message #2 by J-F Garnier (France)

I independently found a similar solution after trying various TRAP solutions that don't work. Here's what I have:

DEF FNF(N)=N*VAL("FNF(N-1)*1"[(N<2)*9+1])

I'd be surprised if there are any non-string type ways of doing this. OR and AND always evaluate both arguments and there are no condition evaluation functions that I can find on the 71b.

Re: A little HP-71B challenge
*Message #4 Posted by **Gordon Dyer** on 15 Feb 2003, 7:00 p.m.,*
in response to message #1 by Ex-PPC member

I have been causing memory overflows and scanning through my manuals trying to solve this one, no solution yet but I have enjoyed it!
Well done Katie...

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batteries again
*Message #1 Posted by **batteries again** on 14 Feb 2003, 4:01 a.m.*

Well, first off, my NiMH experiment on the 75C is working. I'm using a rat shack 23-270 3.6V 1200mAh batteyr pack, which fits fine in the 75 once you add a bit of padding for length.

the charger does charge, though slowly, and discharge takes forever.

I've got an HPIL printer (thinkjet) and one of the cellls in the battery pac has gone kaput (it was a rebuilt pac, 6 subC cells and I imagine one of the cells just lost it in shipping)

So now, a couple questions:

is it safe to run this off of wall current through the adaptor (with batteries disconnected.)?

and- is it worth rebuilding with NiCd? I can pop down and grab a pair of 3.6V 1200-1600mAh packs and easily fit them in the case of printer.

How bad is it to run NiMH cells in the circuit if you never really unplug the machine? (i.e., if I need batteries in there to run, can I just leave them in there?)

(and yeah, I've thought about taking a few of the small 3.6 volt cell phone batteries (lithium film) in the 2Ah range and using those, but do I need the battery life?)

Re: batteries again
*Message #2 Posted by **Christof** on 14 Feb 2003, 4:02 a.m.,*
in response to message #1 by batteries again

and next time, I promise to be awake enoguh to not use a subject heading for my name.

Re: batteries again
*Message #3 Posted by **Dave** on 14 Feb 2003, 3:21 p.m.,*
in response to message #2 by Christof

Nah,

We'll just refer to you as Batteries...again in the future

Now Pb! Re: batteries again
*Message #4 Posted by **Christof** on 15 Feb 2003, 5:09 a.m.,*
in response to message #3 by Dave

Now I need to fix a Lead acid Battery pack. I haven't found any direct references for doing it and haven't decided to just tear in there and spill electrolyte all over just yet.

Anyone rebuild one of these in the past?

Re: Now Pb! Re: batteries again
*Message #5 Posted by **David Smith** on 15 Feb 2003, 5:29 p.m.,*
in response to message #4 by Christof

The lead acid packs are not rebuildable... you must replace the whole battery. They are usually fairly inexpensive... the cell used in the 9114 battery holder is around $12.

Recently I picked up an early '70's Panasonic TV/AM/FM set that had two lead acid batteries in it. They looked like big 9V batteries, with the same type of snaps. These cells CAN be bought... for $150 each! The exact same cell with spade lug terminals were $13 each. Guess what... my TV now has spade lug terminals in the battery holder.

Re: Now Pb! Re: batteries again
*Message #6 Posted by **Christof** on 15 Feb 2003, 7:51 p.m.,*
in response to message #5 by David Smith

So, what's the voltage, and where do you order the replacement batteries from?

thnaks!

Re: Now Pb! Re: batteries again
*Message #7 Posted by **Andreas Mueller** on 17 Feb 2003, 4:14 a.m.,*
in response to message #6 by Christof

Christof, where do you live? If you live in Germany I can give you some hints for buying the parts. Regards, Andreas

Re: Now Pb! Re: batteries again
*Message #8 Posted by **David Smith** on 17 Feb 2003, 6:06 p.m.,*
in response to message #6 by Christof

In the US there are several nationwide chains of stores specializing in batteries. They have names like Batteries Plus and Batteries, Etc. You can take them just about any battery pack and they will open it, change the cells, and glue it back together for a reasonable price. They also sell many types of batteries including the lead-acid ones. Also just about every large city has a few industrial battery supply stores that will do the same thing and have access to even very exotic batteries.

Re: Now Pb! Re: batteries again
*Message #9 Posted by **Christof** on 18 Feb 2003, 12:07 a.m.,*
in response to message #8 by David Smith

I was looking online to order a similarly sized replacement and haven't found one yet that matches the size well enough. I may end up looking for a place that will pop the cells individually.

I'm pretty sure I recall some lead-acid battery reconditioning circuits, but only for 12 and 24 volt deep cycle batteries.....

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HP-49G display scratches ... sorry, I know it's a new calc :-|
*Message #1 Posted by **Juergen Rodenkirchen (GER)** on 14 Feb 2003, 2:04 a.m.*

Hi everybody!

First of all, please accept my apologies for asking questions about this rather new calc in the museums-forum. However, I guess anybody owning one of these amazing machines knows about the "sensitive" display that is scratched very easily. So, my is question is, if there's any means of "repairing" this (like polishing or the like). Thanks for your time!

Best wishes, Juergen

Re: HP-49G display scratches ... sorry, I know it's a new calc :-|
*Message #2 Posted by **Tom (UK)** on 14 Feb 2003, 3:49 a.m.,*
in response to message #1 by Juergen Rodenkirchen (GER)

Early ones were meant to be quite bad, later ones (from 2000? - see the serial number for the make date) were supposed to have a more scratch resistant display cover.

As the cover is quite soft I don't think it will polish out, if you find a solution please post it here.

Some people have popped out the cover and cut a hole in the middle of it (I think I saw this done at www.hpcalc.org). However the clear cover does seem to be needed to give the case some strength and you may find the blue plastic surround cracks if the clear cover is removed.

Re: HP-49G display scratches ... sorry, I know it's a new calc :-|
*Message #3 Posted by **Glen Kilpatrick** on 14 Feb 2003, 11:55 a.m.,*
in response to message #2 by Tom (UK)

I no longer have the 49G that prompted my purchase, and never tried this myself. But I read somewhere on the web about the use of "Future Premium Floor Finish", a clear acrylic floor shine, and bought a bottle (27 fl. oz. or 798_ml cost around $5, will undoubtedly last longer than you'll need it to).

I can testify that it's quite clear, and suspect you wouldn't have to dewax your 49G before applying :). I think the (web) directions suggested sparing application to scratches with a Q-tip, and said scratches would then seem to disappear (but YMMV).

Re: HP-49G display scratches ... sorry, I know it's a new calc :-|
*Message #4 Posted by **James M. Prange** on 14 Feb 2003, 9:41 p.m.,*
in response to message #2 by Tom (UK)

See http://holyjoe.net/hp/HP49.htm#nowindow for an example of the 49G without the chunk of plastic over the display.

Joe used pliers to remove the plastic, but I was able to use a popsicle stick through the serial port to push it off from the bottom side. Others have reported using a small screwdriver the same way. Maybe the strength of the glue holding it on varies.

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HP-41 rechargeable pack
*Message #1 Posted by **Michel Beaulieu** on 13 Feb 2003, 8:25 a.m.*

Hi. Is there an article somewhere showing how to recell a HP-41 rechargeable pack that have dead Ni-Cd batteries.

I intend to install Ni-MH batteries in there, is there a problem with the wall charging system for the 41 and these Ni-MH batteries insted of Ni-Cd batteries.

I have new batteries WITHOUT tab, is it ok (i didn't open the pack yet to see inside)?

Thanks for tips!

Re: HP-41 rechargeable pack
*Message #2 Posted by **Denny Migl** on 13 Feb 2003, 11:05 a.m.,*
in response to message #1 by Michel Beaulieu

I was going to post the same exact question this morning, but you beat me to it. I am looking for a step-by-step procedure; How to get into an HP-41 battery pack (Part #82120A) and replace the batteries. Please check the web page for some info on replacement batteries. http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/articles.cgi?read=254

Does anyone have any recommendations for the type, make, model of replacement batteries??

Re: HP-41 rechargeable pack
*Message #3 Posted by **lowracer** on 13 Feb 2003, 9:24 p.m.,*
in response to message #2 by Denny Migl

To get into the pack, I used an x-acto saw. Not a knife, it's a very fine serrated blade. Gets you in very neatly without breaking the plastic. Saw around the perimeter where the plastic halves are joined. Works on other HP battery packs too. Be careful not to cut into the cells. To reassemble, just use some plastic cement.

Re: HP-41 rechargeable pack
*Message #4 Posted by **Randy Sloyer** on 14 Feb 2003, 1:27 p.m.,*
in response to message #1 by Michel Beaulieu

The charger is okay, but you'll need batteries with tabs so you can solder to them.

I rebuilt a pack using 1/3AAA ni-mh from Gold Peak. I bought them from the Battery Station listed in the Museum repairs section:

http://www.hpmuseum.org/repair.htm

IIRC cells were 2.50 ea. You must ask for TABS on the batteries, they are free. The capacity is about double that of the original ni-cads. My 41C with a card reader has been working for a month or more on the original charge, the pack voltage hasn't dropped more than 50 mv.

Re: HP-41 rechargeable pack
*Message #5 Posted by **David Smith** on 14 Feb 2003, 5:59 p.m.,*
in response to message #4 by Randy Sloyer

If you are buying your cells from a Batteries Plusm Batteries Etc, etc just have them weld the string up for you... no need to risk damaging these very delicate cells with soldering iron heat. The smaller the cell, to more likely it will be damaged by heat.

I cut my packs open with a razor blade (or two or three depending upon how many I break). The 82120A packs are very well sealed, but do give in to a little razor work (and sometimes a tap or two with a hammer... wear eye protection).

Then I bring the half of the case with the little cut out windows and the charger circuit (with the old cells still connected) to the battery store so they can get the cells spaced properly.

Normally I just have the battery store cut open and rebuild packs, but not for the 82120A. I want to test the charger circuit before I seal it up, and I don't trust them to get the contact springs installed properly.

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19BII Screen Update
*Message #1 Posted by **Nick Nicholas** on 13 Feb 2003, 2:46 a.m.*

A few weeks ago, I posted that my 19BII screen had poor contrast and I was wondering if this was a defect. I just compared the 19BII screen with a 28s screen, which is of the same type. The 28s had much better contrast than the 19BII under the exact same lighting conditions. My 19BII has a black plastic case and was manufactured in Indonesia in 2000. Could it be that the quality of the display had been downgraded to reduce manufacturing costs? I would appreciate comments from other users especially those with both an older model 19BII and a newer model 19BII to confirm if there is a quality drop in the screen contrast.

Re: 19BII Screen Update
*Message #2 Posted by **William** on 13 Feb 2003, 11:29 a.m.,*
in response to message #1 by Nick Nicholas

yes i want to see wer can i get the a manual for the HP19BII calculator.

Re: 19BII Screen Update
*Message #3 Posted by **Rick** on 13 Feb 2003, 7:00 p.m.,*
in response to message #1 by Nick Nicholas

The older "made in the USA" models had much better contrast and a wider adjustment range too. It's hard to believe that HP accepted such inferior specifications.

Re: 19BII Screen Update
*Message #4 Posted by **Nick Nicholas** on 13 Feb 2003, 8:40 p.m.,*
in response to message #3 by Rick

I received a reply from my inquiry with HP that confirmed what I had suspected. The screens on the newer 19BIIs are not the same as the "older" ones, although I don't know when the switch was made.

For the 17BIIs, were the newer models changed to look similar to the HP 32sii, with the silver surface around the display in a black plastic case or do they look similar to the older models? Were there any visible differences in the quality of the display for the newer HP 17BIIs?

Re: 17BII Cosmetic Changes
*Message #5 Posted by **Randy Sloyer** on 15 Feb 2003, 8:47 a.m.,*
in response to message #4 by Nick Nicholas

The latest production 17Bii's from Indonesia changed the colors on this model as well.

The originals were gold trim on brown with orange shifted key functions.

The newest are gold trim on black with yellow shifted functions.

The LCD remains the same, contrast is not a problem when properly adjusted for your viewing angle.

Re: 19BII Screen Update
*Message #6 Posted by **Markus** on 14 Feb 2003, 4:10 p.m.,*
in response to message #1 by Nick Nicholas

Nick, I can second your observation: I once had a Singapore-made HP19BII which had to be replaced due to a badly broken battery compartment. The replacement was manufactured in Indonesia and I, too, was under the impression that display was noticibly inferior to the one of its predecessor.

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SSS: "Small, Skinny Scientific" (calculator)
*Message #1 Posted by **Paul Brogger** on 12 Feb 2003, 6:59 p.m.*

FYI, I picked up a Casio "fx-260Solar" the other day.

Yeah, it has rubber keys with silk-screened legends, one memory, and no RPN or programmability . . . Not even base conversions, so why bother?

Well, it is a tidy little unit -- about 2.6" x 4.9" x 0.35" (without the cover). Further, if one takes out the six screws, the thick back comes off, and all that's left is a thin, 0.2" (!) front with keyboard & display.

The back does little more than protect the electronics and push the LCD & solar cell against the front, so, with a little double-stick foam, one could attach this thing just about anywhere (inside a binder, on a checkbook, to a cell phone . . .)

Its size just might make it the right unit for any application calling for a small, thin, inexpensive, attached scientific calculator.

Again, fyi . . .

Re: SSS: "Small, Skinny Scientific" (calculator)
*Message #2 Posted by **Frank** on 13 Feb 2003, 8:55 a.m.,*
in response to message #1 by Paul Brogger

The back of the 260 may well serve to stiffen the case providing structural integrity from flexing/twisting etc. If solidly mounted and esd as well as insulation precautions are observed, should not be a problem to mount wherever. Actually, the HP 6/6s is pretty thin itself, too thin to be an HP!

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email address for www.80series.org
*Message #1 Posted by **andy** on 12 Feb 2003, 5:31 p.m.*

I would like to email the owner of www.80series.org but I can't find an email address anywhere on the website.

Re: email address for www.80series.org
*Message #2 Posted by **Christof** on 13 Feb 2003, 2:52 a.m.,*
in response to message #1 by andy

neither can I, alas

Re: email address for www.80series.org
*Message #3 Posted by **Vassilis Prevelakis** on 13 Feb 2003, 1:07 p.m.,*
in response to message #2 by Christof

its me -- I try to keep a low profile to keep spam away from my mailbox.

In any case, I would have thought that checking the whois database for the series80.org domain would have led you to me.

**vp

Re: email address for www.80series.org

*Message #4 Posted by **Michael Tjebben** on 13 Feb 2003, 2:06 p.m.,*

in response to message #3 by Vassilis Prevelakis

Hi Vassilis! We've exchanged a few emails in the past over HP85's. I actually had tried the whois database to see if I could help Andy, and I didn't have much luck!

-Mike

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is there a self-test procedure for the 10B?
*Message #1 Posted by **barry** on 12 Feb 2003, 5:22 p.m.*

tnx!

Re: is there a self-test procedure for the 10B?
*Message #2 Posted by **Ed Martin** on 12 Feb 2003, 6:32 p.m.,*
in response to message #1 by barry

Barry,

Yes, the 10B does have a self-test routine!

First, hold down the C key, then press PMT at the same time.

Press any key four times, and watch the display as various patterns are displayed. After pressing the key four times, the calculator displays the copyright message COPr. HP 1987 momentarily, and then the message 01. This indicates the calculator is ready for the key test.

Starting at the upper left corner (N) and moving from left to right, press each key in the top row. Then, moving, left to right, press each key in the top row. Then, moving left to right, press each key in the second row, third row, etc., until you've pressed each key.

If you press the keys in the proper order, and they are functioning properly, the calculator displays two-digit numbers. (The calculator is counting the keys using hexadecimal base.)

If you press a key out of order, or if a key isn't functioning properly, the next keystroke displays 10 - FAIL, followed by a one-digit number. If you received the message because you pressed a key out of order, you should reset the calculator (hold down C and press PV) and start the self-test over. If you pressed the keys in order, but got this message, the calculator requires service.

When the keyboard test has been completed, the calculator displays a message:

The calculator displays 10 - Good if it passed the self-test.

The calculator displays 10 - FAIL, followed by a one-digit hexadecimal number 1 through F, if it failed the self-test. If the calculator filed the self-test, it requires service.

If the calculator failed the self-test, rerun the test to verify the results.

To exit the self-test, reset the calculator (hold down C and press PV).

- Ed

tnx! are 10B's parts units desirable?
*Message #3 Posted by **barry** on 12 Feb 2003, 11:20 p.m.,*
in response to message #2 by Ed Martin

or is nothing able to be replaced? i pick up a lot of calcs for a $1.00 at the swap/flea markets and garage sales, they are starting to fill up a box (hold your horses, the HPs are in another box awaiting sale when i can get to them).

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Out of warranty exchange of HP 32sii
*Message #1 Posted by **Nick Nicholas** on 12 Feb 2003, 4:28 p.m.*

I contacted HP Calculator Support in Canada last week to inquire about out of warranty replacement of HP 42s and HP 32sii. I wasn't surprised about no replacements available for the 42s but I was told due to the limited stocks available of the HP 32sii that no out of warranty exchange would be possible.

Does anyone know the situation in the United States with regard to out of warranty exchange? I thought that HP supports their products up to five years past the date that the product has been discontinued.

Re: Out of warranty exchange of HP 32sii
*Message #2 Posted by **Randy Sloyer** on 12 Feb 2003, 9:55 p.m.,*
in response to message #1 by Nick Nicholas

AFAIK, HP USA stopped shipping out of warranty replacement 32Sii's sometime in December 2002 or January 2003. I don't know if they have any in-warranty replacements remaining, since the 32Sii was officially discontinued in December of 2001. That would make everything out there now out of warranty.

I never saw the five year support promise in print anywhere, but many calculators (42S in particular) did continue with support for that period. But, that was while the Pioneers were still in production with the 17Bii and 20S. The replacement 42S's were built on the same line. Production of all Pioneer models in Indonesia ceased in 2001, hence the lack of replacements. One can hope they didn't destroy the tooling and fixtures.

Re: Out of warranty exchange of HP 32sii
*Message #3 Posted by **Frank** on 13 Feb 2003, 9:00 a.m.,*
in response to message #2 by Randy Sloyer

There are still plenty of HP32sII's still in warranty many dealers had through spring, 2003, and I guess that's why the limited stock of replacements is being held by HP so these can be addressed. Only warranty terms legally apply so far as I know, though 5 year support seems customary. Seems like I have heard about sector specific requirements for support for major capital outlays for parts/service, etc.(automotive, e.g.) but don't have the details. Maybe one of our Lawer friends on here care to comment. Regards, Frank

Re: Out of warranty exchange of HP 32sii
*Message #4 Posted by **Ron Ross** on 13 Feb 2003, 9:55 a.m.,*
in response to message #3 by Frank

I believe an Hp calculator (the Hp32sii, etc) comes with a one year warrenty and Hp generally provides 5 years support. ie. for one year you will get a free replacement, after that you will have to pay for an exchange out to the 5 year support period. Hp keeps a limited number of calcs for this period.

That was how it worked with the Hp42s. What they charge for replacement determines how fast the stock is depleted. Most people will not pay retail list to exchange their calculator (until they find out that list is 1/2 the going rate), and just switch over to a twenty dollar calculator. That is unless they are a calculator nut or conisior. Then you will pay (I suspect that is most of us here).

Re: Out of warranty exchange of HP 32sii
*Message #5 Posted by **Tom (UK)** on 13 Feb 2003, 12:20 p.m.,*
in response to message #4 by Ron Ross

The problem is that the pioneer line(s) are now dead. The HP42 was made on the HP17B line.

So, for out of warranty exchanges HP would have to hold back 5 years worth of replacements at the end of the HP32Sii run.

As HP seem very share-holder focussed I'd be suprised if they do this, it's easier for them to please the share holders today rather than their 'loyal' customers tommorrow. (Yes I know that doesn't make sense - but I don't make the rules).

Tom.

Re: Out of warranty exchange of HP 32sii
*Message #6 Posted by **Frank** on 13 Feb 2003, 8:20 p.m.,*
in response to message #5 by Tom (UK)

Or perhaps if *would* have been easier to please those stockholders had good things with the stock actually happened.....;+}

Re: Out of warranty exchange of HP 32sii
*Message #7 Posted by **Eddie Mabillard** on 15 Feb 2003, 5:28 a.m.,*
in response to message #5 by Tom (UK)

you are absolutely right Tom, that is what I think too, Eddie

Re: Out of warranty exchange of HP 32sii
*Message #8 Posted by **Frank** on 13 Feb 2003, 8:22 p.m.,*
in response to message #3 by Frank

Correction, I meant dealers had through spring, 2002 meaning warranty till spring 2003!
Frank

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Off Topic. Dark Side wonderfull calculator
*Message #1 Posted by **Daniel Sancho** on 12 Feb 2003, 3:57 p.m.*

Yes, I know, its not an HP. I also know that people who loves HP models calls "Dark Side" to Texas Instruments.

Well, I readed about a wonderfull TI model in the 65-Notes Vol-3-Nº-2 page 2.

Its a very very very unusual model. I think is so rare that you can not find this model in www.datamath.org

Perhaps is more difficult to find than the TI-88 or HP XPander

... but...

here you are:

http://cgi.ebay.de/ws/eBayISAPI.dll?ViewItem&item=3114951416&category=9167

Wow! An early "digital"!
*Message #2 Posted by **Michael Meyer** on 12 Feb 2003, 4:29 p.m.,*
in response to message #1 by Daniel Sancho

Wow! Nice calc! Based on the same principles I use daily to compute mathematical totals, like my IQ, etc.!

Getting harder to start up, though,... especially in the mornings. It also keeps increasing it's weight.

I wonder if this one was obtained by a "five-fingered discount."

I plan to bid early and often....well, no more than I can count on one hand, anyway.

Michael

Re: Wow! An early "digital"!
*Message #3 Posted by **Joerg Woerner** on 13 Feb 2003, 7:37 a.m.,*
in response to message #2 by Michael Meyer

Checked my Datamath Site - you are right: Not mentioned there.

BUT: No "=" key, seems to be an ealy HP ;-))

Greetings from the Dark Side, Joerg

Re: Wow! An early "digital"!
*Message #4 Posted by **Daniel Sancho** on 13 Feb 2003, 9:53 a.m.,*
in response to message #3 by Joerg Woerner

JAJAJA :-)) :-))

No =, but also not "ENTER" key... mmmm :-))

Perhaps not an TI nor an HP I said it was a TI because I saw the machine at "65 Notes"... perhaps was wrong in the revue. Maybe an National Semiconductor? Maybe an TI prototype?

Greetings

Daniel

Re: Wow! An early "digital"!
*Message #5 Posted by **Dave Shaffer** on 13 Feb 2003, 3:36 p.m.,*
in response to message #4 by Daniel Sancho

Not binary, not octal, not decimal, not hexadecimal, but ....

a "funf-imal" base machine (?).

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Help with 82240B Printer repair
*Message #1 Posted by **william Beitzel** on 12 Feb 2003, 12:39 p.m.*

I sold an hp 82240B IR printer which self-tested fine. After having it for a week the buyer told me that when he received it, he put in batteries and it worked fine for a few minutes and then "the paper stopped and the stylus burnt up". He wants to know where to get replacement parts or if anyone can repair it. So, my questions are -- Can can this be repaired and by who?...Are there replacement parts?...Why did the paper stop and the stylus burn up? Any help will be appreciated. Thanks Bill

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HP-67 Variation not mentioned before

*Message #1 Posted by **Michael Meyer** on 12 Feb 2003, 3:59 a.m.*

Hi all.

I don't think I've seen this HP-67 variation mentioned before. On my USA models, the duplicate funtions (1/x, SQRT, etc.) are marked above the A, B, C, etc. keys, and of course, disappear when a program is loaded and the legends are covered by storing the card. The keys, "f" and "g" and "h" do not perform the functions.

On my Singapore version, the duplicate functions are listed above the keys, but also as black imprints on the lower face of the keys. And, when a program is loaded, the "f" and "g" no longer access these functions, but the "h" key still does!!

I'd just not seen this variation mentioned on the site or in books.

Michael

Re: HP-67 Variation not mentioned before

*Message #2 Posted by **Tom (UK)** on 12 Feb 2003, 7:54 a.m.,*
in response to message #1 by Michael Meyer

Very interesting! Do you have any photo's or the serial number of the calc? What you say implies that the 'operating system' was re-written as the 'normal' version of the HP67 stores these 'quick access' functions in program memory when there is no program loaded (my way of looking at this is that the default program(s) are these printed functions). I assume that the buttons now 'point' to a different part of the memory.

The fact that these functions were lost when a program is loaded (by card or by hand) was discussed on this site about a year ago.

Ooops!
*Message #3 Posted by **Michael Meyer** on 12 Feb 2003, 2:14 p.m.,*
in response to message #2 by Tom (UK)

Big Ooops. (That'll teach me to stay up until 3 a.m. playing with calcs...)

The functions ARE lost, just the same, when a program is loaded.

The keys still have the labels on the lower surface. Probably isn't that rare, but I don't know.

Michael

Triple Oops. I was fooled all this time!!!!
*Message #4 Posted by **Michael Meyer** on 13 Feb 2003, 1:05 a.m.,*
in response to message #3 by Michael Meyer

WOW. NO WONDER I HAVE A ONE-OF-A-KIND HP-67.

All this time I thought the Singapore model had the repeat functions on the bottom of the user function keys. And why not? The keys are blank... wasted space, and all, on all the others. And on this one, they're molded into the plastic with the same, black characters.

Or are they? AMAZING! The (or a) previous owner of my unique HP-67 used RUB-ON letters or lines to make PERFECT lettering on these keys. I even confused the slightly raised texture for molded plastic!!! What a perfect job!! How did they stick so well and so permanently?? While I don't see a coating of any kind, I haven't tried to scrape them off, and they LOOK original.... identical to the other keys. Same font. Same thickness. Same size! (I'd post a photo, but I don't know how, and I don't have a web site.)

Suffice it to say: I've looked at this calculator for years: and it was the one that the Forum community helped me rescue from a dead ACT chip and from insomniac dylexic agnostic card-reading. And not until I studied them tonight did I realize that it's not a "stock" job.

No wonder I have such an unusual model. It's a fake! But it made sense, and it seemed like such a believable variation. I can see why a previous owner put the symbols there.

But I was fooled. I will have to admit: This one calculator has definitely turned out to be full of surprises!!!! But alas, while it's a "one of a kind", and definitely rare, it was not

by HP's hand.

Michael

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hp85 Tape Gummy Wheel
*Message #1 Posted by **andy** on 11 Feb 2003, 10:28 p.m.*

My hp85's cassette tape has a bad gummy wheel.

Any suggestions on what to use for a replacement?

Thanks,

Andy

Re: hp85 Tape Gummy Wheel
*Message #2 Posted by **Michael O. Tjebben** on 12 Feb 2003, 9:43 a.m.,*
in response to message #1 by andy

I used some shrink tubing with success. I'm not certain that's the best solution, but it worked for me.

Re: hp85 Tape Gummy Wheel
*Message #3 Posted by **Ellis Easley** on 12 Feb 2003, 1:52 p.m.,*
in response to message #2 by Michael O. Tjebben

I also used heat shrink tubing on a 9825 tape drive - same cartridge but maybe not the same mechanism. Made the tape move OK but have other problems on that machine. On the 9825 there is a delicate-looking optical tachometer wheel close to the rubber wheel, on the same shaft. I shielded the rest of the mechanism with aluminum foil while I heated the tubing.

Re: hp85 Tape Gummy Wheel
*Message #4 Posted by **Michael Tjebben** on 12 Feb 2003, 4:14 p.m.,*
in response to message #3 by Ellis Easley

Actually, Ellis brings up two good points:

* Do shield the mechanism from the heat! Mine started to melt slightly, because my shield was not so good at first and I had to be VERY careful!

* The HP85 has an optical sensor also, and it appears to have some special calibration that has to be performed with an oscilloscope to look for a particular waveform. I don't have that calibration manual, but I think I recall someone else mentioned it earlier, and I may have a copy of a part of those instructions that I can look for, if you get to a point where you've replaced the wheel and still have problems...

Re: hp85 Tape Gummy Wheel
*Message #5 Posted by **andy** on 12 Feb 2003, 5:30 p.m.,*
in response to message #4 by Michael Tjebben

Thanks...

I actually have the original HP85 Assembly Level Service Manual and it has complete instructions for performing that calibration with a scope. So if you need it, let me know.

Andy

Re: hp85 Tape Gummy Wheel
*Message #6 Posted by **Michael O. Tjebben** on 13 Feb 2003, 2:10 p.m.,*
in response to message #5 by andy

I do have some interest in that particular section, Andy. It doesn't have to be the entire chapter, but just that section.

What info I have is:

Mike, According to the 85B, service manual (June 1983) the problem may be with the tape speed circuit alignment. LED DS1 on the capstan motor assembly and phototransistor CR1 on the tape transport assembly. This would have been

disturbed when you remove the capstan motor. ?Without a cartridge inserted, run the Tape Speed Test from the Service ROM. If the message {TAPE STALLED} appears proceed with step k to reposition the phototransistor? If you have an o? scope measure at tp-4 (upper tp lower left corner of tape pca) you will need to active the drive if you do not have the service ROM (I do not have a copy) set the scope as followed: 10usec/div, 2 v/div, ac coupling --you should see 3 cycles of a sine wave the negative portion is limited. The positive peak should be at least 2.5 v and the negative peak should be a least 2v. Reposition phototransistor CR1 until the desired waveform is obtained. If you don?t have a scope then I guess you can try it ?hit or miss? Another interesting note ?if the customers computer can read tape cartridges that were reordered on the same computer but cannot read cartridges recorded on another computer the tape head maybe out of alignment. Align or replace tape drive assembly. Be sure to inform customer that the computer may no longer be able to read tapes previously recorded on that computer? Hope this helps Regards, JR

My problem is that I haven't attempted this, because I don't have Service ROM. Hence I'm VERY curious if your information gives me some clues as to how I might "fudge" or "klude" this step.

Thank you, Andy.

-Mike

9825 problems

*Message #7 Posted by **Richard Freeman (Australia)** on 13 Feb 2003, 12:43 a.m.,*
in response to message #3 by Ellis Easley

Ellis I noticed you said you have other problems with your 9825 - Tape drive ? if I could be curious what problems are you having ? I have been trying to fix my 9825 Tape drive and despite finding and fixing a couple of problems still seem to have more somewhere. Perhaps we could compare notes ?

Regards Richard Freeman

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HP97 gummy wheel repair update
*Message #1 Posted by **Malcolm** on 11 Feb 2003, 8:20 p.m.*

Have just done the gummy wheel repair on my 97 and received the 7CD set from David - I think I'm in HP heaven.

Three things I'd like to share:-

1) Follow the instructions to the letter and don't jump ahead - I was lucky that only the tip of one of the main pcb gold connectors broke off - both prongs are otherwise ok and still go in the hole ok - phew.

2) An additional note on removing the slotted shaft might help - took me some time to realize I had to wedge it out - rather I thought I had stripped it trying to unscrew it!

3) Check your silicone tubing is concentric. I was unlucky and got some with a wall thickness on one side of 1.4mm and 1.8mm on the other side - needless to say the sound was not good, and no it didn't work, until I found some good concentric tube.

Thanks heaps to David for a great site.

Malcolm

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HP41plot barcode

*Message #1 Posted by **Peter** on 11 Feb 2003, 3:38 p.m.*

Hello all! I need a software on the HP41CX to plot a barcode for the optical wand 82153A on the HPIL-Printer 82162A or the standard printer 82143A. If you have this software, could you please send it to me. Best regards Peter

Link to 4 different bar code programs

*Message #2 Posted by **Gene** on 11 Feb 2003, 3:53 p.m.,*
in response to message #1 by Peter

http://www.rskey.org/gene/calcmuseum/41bc.htm

They require varying levels of add on equipment, but it does work. There is no way to do this with just a 41cx. You must have an add on module or two.

Gene

This program may work for you

*Message #3 Posted by **gene** on 11 Feb 2003, 4:19 p.m.,*
in response to message #2 by Gene

http://www.rskey.org/gene/calcmuseum/162bc2.htm

Requires the 41CX, HP-IL module, and an 82162 HP-IL strip printer.

You will need to get 4 or 5 lines of synthetic programming into the program, but there are bar codes you can print and scan in on that page.

Sorry for the formatting problems at the bottom of the listing. One of those from typing in steps as X<Y? stuff causing the HTML to think it's a like of some sort.

Cheers!

Barcodeprint with EMU41
*Message #4 Posted by **Christoph Klug** on 12 Feb 2003, 3:30 a.m.,*
in response to message #3 by gene

Creating barcodes with HP82162 IL thermal printer have absolute poor quality and needs longe calculation time.

CCD module user manual includes a program for faster barcode plot.

Best quality and fast plotts you get by using EMU41 and virtual SKWID INK barcode plot module and your PC printer.

Best wishes from Germany - Christoph Klug

Re: Barcodeprint with EMU41
*Message #5 Posted by **Chan Tran** on 12 Feb 2003, 7:37 a.m.,*
in response to message #4 by Christoph Klug

Where do you get EMU41 and SK WID INK?

Re: Barcodeprint with EMU41
*Message #6 Posted by **Christoph Klug** on 12 Feb 2003, 9:22 a.m.,*
in response to message #5 by Chan Tran

More details about EMU41 you find in The HP-Museum article forum item 311 "HP41-PC gateway & emulator"

Best wishes from Germany - Christoph Klug

Thanks
*Message #7 Posted by **Peter** on 12 Feb 2003, 8:34 a.m.,*
in response to message #1 by Peter

Many thanks to all for the informations. Best regards Peter PS: Hallo Christoph! Du hättest ruhig in deutsch schreiben können ;-).

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Polynomials solver for 42: WANTED
*Message #1 Posted by **R Lion** on 11 Feb 2003, 3:12 p.m.*

Something like the "Solve Poly..." application of 48/49: given the coefficients, get the solutions...

Raul

Re: Polynomials solver for 42: WANTED
*Message #2 Posted by **Ex-PPC member** on 12 Feb 2003, 4:19 a.m.,*
in response to message #1 by R Lion

The translated HP-67 program you're trying to load and run is far from optimal, or even efficient. Your best best would be to get one from the former "HP-41C User's Library", or even better, to look for one in the old issues of the PPC Journal, available in CD-ROM.

If you do have or can get an HP-71B with a Math ROM, this is the "program" that will do what you want, particularized for a 100th-degree polynomial:

10 DIM P(101) @ COMPLEX R(100) @ MAT INPUT P @ MAT R=PROOT(P) @ MAT DISP R

I quoted "program" because you could easily execute that from the command line, no need to enter a program. As written, it does the following:

```
DIM P(101)      dimensions a 101-element vector to hold
                the 101 coefficients


COMPLEX R(100)  dimensions a 100-element complex vector
                to hold the 100 complex roots
```

```
MAT INPUT P     prompts the user for each element. The
                user can enter elements one by one or
                several at a time, and can enter numbers
                or expressions, even using variables
                and functions


MAT R=PROOT(P)  computes all 100 complex roots


MAT DISP R      displays all roots
```

To make it general, just ask for the degree N, and then use DIM P(N+1) and COMPLEX R(N) instead.

That's it. Amazingly simple and powerful !

Re: Polynomials solver for 42: WANTED
*Message #3 Posted by **R Lion** on 12 Feb 2003, 10:02 a.m.,*
in response to message #2 by Ex-PPC member

Thanks... but I've not a 71B. It seems this calc has a PROOT. The 48 has it too, but not the 42, and that is what I'm looking for.

Raul

BTW: I didn't get the 67 prg works (or is veeery slow and I stop the prg before it finds the roots. But I am not sure even how to give it the coefficients)

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Re: Help with 41 program
*Message #1 Posted by **R Lion** on 11 Feb 2003, 2:35 p.m.*

Thanks!!

Raul

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HP 41CX shut down
*Message #1 Posted by **Brent** on 11 Feb 2003, 2:17 p.m.*

My HP 41 CX shuts down in less than 30 seconds. It used to shut down in 8 minutes or something but now it shuts down in between functions. All info is there when I turn it back on but it is a pain to turn it back on all the time. Even with fresh batteries. Any ideas?

Re: HP 41CX shut down
*Message #2 Posted by **Ed Martin** on 12 Feb 2003, 11:04 p.m.,*
in response to message #1 by Brent

Brent,

I had the same problem with my 41CX (it was a fullnut). It would shut off in just under 15 seconds after the last keypress.

I dug very deeply into this but was never able to really nail down the solution exactly. The problem is related to the "sleep" mode of the calculator, which is controlled by the LCD display driver (trust me). I have seen several other people post with the identical problem, so it must be an inherent weakness of the design.

One quick and dirty solution is to XEQ "ON" when you first turn on the calc. Of course, you need to remember to turn it off, or you could use up a bunch of N cell batteries.

The more complex solution, and one which unfortunately led to the demise of my CX (sob) is to try to repair the hardware problem creating the "quick off". If you are comfortable opening the calculator, I would recommend looking at the metal tabs which connect the LCD display driver to the main board. Use a sharp pointed object (like a dentist's pick) and a magnifying glass to see if any of the connections have come loose. If so, repair them with a fine tipped soldering iron. Just do a better job than I did .... I apparently damaged something in my effort to find the problem.

Good luck

- Ed

Re: HP 41CX shut down
*Message #3 Posted by **Brent** on 13 Feb 2003, 10:42 a.m.,*
in response to message #2 by Ed Martin

Ed, Thanks for the info. Is there any information on the procedures for opening a 41? I'm new to the site and hadn't seen it but figure somebody would have this. Just don't want to break anything unnecessarily. I'll keep looking. Thanks again.

Re: HP 41CX shut down
*Message #4 Posted by **Ed Martin** on 13 Feb 2003, 7:25 p.m.,*
in response to message #3 by Brent

Brent,

Yes, right here on your friendly MoHPC is the information you seek.

First, you should read:

http://www.hpmuseum.org/disasm.htm

Specific to the 41CX (really applies to any 41C fullnut):

http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/articles.cgi?read=2

One of the contributors to this forum (Randy Sloyer) also repairs calcs:

http://www.fixthatcalc.com/

- Ed

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Help with 41 program
*Message #1 Posted by **R Lion** on 11 Feb 2003, 10:29 a.m.*

I'm trying to key in this prg in my 42S:

http://www.hpmuseum.org/software/41td/plys67.htm

What is the keystroke in line 213?

Could someone tell me how to use this program?

Thanks in advance

Raul

Re: Help with 41 program
*Message #2 Posted by **R Lion** on 11 Feb 2003, 11:13 a.m.,*
in response to message #1 by R Lion

...and what's the meaning of ths last line, GTO 67, if there is not a LBL 67 in this prg?

Thanks again. Raul

Re: Help with 41 program
*Message #3 Posted by **Richard Garner** on 11 Feb 2003, 11:45 a.m.,*
in response to message #2 by R Lion

From what I can gather from the program information is that this was a program for the HP 67. It was portable to the HP 41C/CV/CX by using the 41 Card Reader. If you have a 41 card reader manual, you may be able to determine what these HP 67 functions are and use a 42S equivalent for lines 9, 118, 140, 146, 157, 213, & 223. Line 232, I think should have been GTO "PLYS67". Hope this helps.

Re: Help with 41 program
*Message #4 Posted by **Chan Tran** on 11 Feb 2003, 11:31 a.m.,*
in response to message #1 by R Lion

Sorry you can not run the program on a 42S. The program was written for a 67 and can be run on a 41 with a card reader. The card reader has a number of functions to make a 41 compatible with a 67.

Check the Key Notes on Museum CD
*Message #5 Posted by **Gene** on 11 Feb 2003, 3:58 p.m.,*
in response to message #1 by R Lion

From 1979-1980, HP ran a couple of articles about converting HP-67 programs to run on the HP-67.

In most cases, this wasn't too tough.

The 7DSZ instruction you point out is essentially "DSE 25" on the HP-41. PRTX is just a long pause on the HP-41. You could just replace it with PAUSE.

Register 25 was the I register from the HP-67. You can see this with the numerous RCL IND 25 like instructions in the HP-41 translated program.

Worth a shot. I can probably translate it for you to see if it works, if you have some test cases to run on the program afterwards.

Re: Check the Key Notes on Museum CD
*Message #6 Posted by **R Lion** on 11 Feb 2003, 5:27 p.m.,*
in response to message #5 by Gene

Thanks Gene: I can try the translation with your tips, but I'm not sure yet how give (and what) arguments to run the prg.

I'll let you know if I get it works

Thanks again

Raul

Re: Check the Key Notes on Museum CD
*Message #7 Posted by **R Lion** on 11 Feb 2003, 6:18 p.m.,*
in response to message #5 by Gene

The PSE's I've put instead 7PRTX's, seem not beeing executed...I only get an endless working prg :-(

But thanks again. Raul

Re: Help with 41 program - Brief Comments
*Message #8 Posted by **Vieira, Luiz C. (Brazil)** on 12 Feb 2003, 12:46 a.m.,*
in response to message #1 by R Lion

Hi;

every program originally written in a magnetic card from an HP67/97 will have a LBL 67 added as a first step in the program when it is read (translated) in an HP82143A. One can add a GTO 67 at the end of the program for easy "run-again" at [R/S] key pressing. If you execute [GTO][.][.], an END will be added after the GTO 67. Probably the first step was changed from LBL 67 for a LBL"PLYS67". As you may notice, step 232 is never executed unless you manually position the calculator in that step and run it. Also you noticed the equivalent LBL 67 is not there (but should be) and an erroe will occur.

7DSZ will be gladly replaced by DSE 25 if integer numbers are stored in R25, but 7ISZ must be carefully considered when replaced by ISG 25. As there is no 7ISZ in the program, that's fine.

Everything else has already been mentioned by our great contributors.

My US$ 0.05

Re: Help with 41 program - Brief Comments
*Message #9 Posted by **R Lion** on 12 Feb 2003, 1:52 a.m.,*
in response to message #8 by Vieira, Luiz C. (Brazil)

Hi Luiz: have you any idea about how to give the coefficients to the prg? Thanks

Raul

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Best 41CV reassembly pictures ?
*Message #1 Posted by **Bob** on 11 Feb 2003, 10:28 a.m.*

I am just now getting back to reassembling my last hp41cv after a long layoff due to a car accident. It took a cola bath and the battery contacts were shot. I have all of the parts I need, except one of the small white plastic washers that, IIRC, goes over the bottom set of posts. Aside from needing to identify a replacement washer, (here I come, Lowes)I need to find some pictures of proper reassembly.

I do not want to disassemble another 41cv to get the information, given the chance for a mishap and even more repair work. I have seen several sites with pix, but thought I would ask the question first.

What are the top website candidates for best pictures and information for the 41cv ?

Is this that tough a question ?
*Message #2 Posted by **Bob** on 12 Feb 2003, 11:28 a.m.,*
in response to message #1 by Bob

Since no one has responded, I assume that there are either too many to count or too basic a question for folks to bother with.

I got on the web before posting yesterday and found that most of the links I had used in the past were defunct. I just wanted some help to save time. I suppose that there are some with decent pix still around. In any event, I will figure it out without them.

On a postive note, I have found some R/C parts that will serve well as bosses for broken screw holes on the back of 41's and that the small white washers can almost be perfectly matched by some at Lowe's home improvement for about $0.36 for 4 of them.

I reassemble it tonight. We'll see what happens.

Re: Is this that tough a question ?
*Message #3 Posted by **Renato** on 13 Feb 2003, 12:11 a.m.,*
in response to message #2 by Bob

Have you seen this : http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/articles.cgi?read=2

Renato

Re: Is this that tough a question ?
*Message #4 Posted by **Bob** on 13 Feb 2003, 7:54 a.m.,*
in response to message #3 by Renato

Yes, I did read it. Thanks, though.

I read that first, before even looking on the web for additional pix.

Re: Is this that tough a question ?
*Message #5 Posted by **Renato** on 14 Feb 2003, 11:21 p.m.,*
in response to message #2 by Bob

If it is not too late ... http://www.mekanik.ikp.liu.se/staff/larjo/hp41.html

How is it going? My latest aquisition - a early 41c, gold ball (appropriate for a fullnut ;-)))), high keytops, is back from the dead.

Re: Is this that tough a question ?
*Message #6 Posted by **Sambonator** on 15 Feb 2003, 2:39 a.m.,*
in response to message #5 by Renato

Nice! What kind of "alcohol" did you use to drive off the water? Thank you! Sam

Re: Is this that tough a question ?
*Message #7 Posted by **lars** on 15 Feb 2003, 12:50 p.m.,*
in response to message #6 by Sambonator

i'm the guy with the pictures. the alcohol used was simply ethanol. i wasn't sure if this was a good idea, but then i wasn't sure if it was a good idea to clean it in an ultrasonic cleaner either. note, of course, that the motherboard was removed and the display was kept out of harms way.

--lars

Re: Best 41CV reassembly pictures ?
*Message #8 Posted by **Vieira, Luiz C. (Brazil)** on 13 Feb 2003, 12:51 a.m.,*
in response to message #1 by Bob

Hi;

I read your post right now (for this and the next week I'm in a severe time-consumming post-graduation activity, and I will probably be reading posts for no more than one time a day...) and I think I have some pictures that will help you. They are included in a PDF doc I prepared for a friend, and it shows an HP41 being disassembled in a step-by-step sequence. Please, e-mail me and I'll send you the e-address where this PDF may be downloaded from.

Anyone else who believes it's also usefull, please, e-mail me.

Best regards, Bob. Success!

Luiz C. Vieira

Re: Best 41CV reassembly pictures ?
*Message #9 Posted by **Bob** on 13 Feb 2003, 7:55 a.m.,*
in response to message #8 by Vieira, Luiz C. (Brazil)

Thanks. I will email you for the address. I appreciate your reply.

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41c/v/x halfnut vs. fullnut
*Message #1 Posted by **Joe Edwards** on 11 Feb 2003, 12:49 a.m.*

Okay guys, I have yet another question. what is the difference between a fullnut and halfnut 41c/v/x model? When did HP change the model?

Thanks.

Joe

Re: 41c/v/x halfnut vs. fullnut
*Message #2 Posted by **Ty Rogers** on 11 Feb 2003, 8:28 a.m.,*
in response to message #1 by Joe Edwards

http://www.hpmuseum.org/collect.htm#variations

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41c/v/x PPC and Advantage modules

*Message #1 Posted by **Joe Edwards** on 11 Feb 2003, 12:35 a.m.*

Hey guys, I am looking at picking up some modules for my new 41cx. I am a math major and want to pick up whatever will help me out (and max out this little baby as well) in the future. I tried getting detailed info on the PPC and Advantage module, as well as the math module. Also, does the CX need a extended memory module? Any info on these modules would be appreicated. Thanks in advance.

Joe

Re: 41c/v/x PPC and Advantage modules

*Message #2 Posted by **Karl Schneider** on 11 Feb 2003, 1:20 a.m.,*
in response to message #1 by Joe Edwards

Joe --

The Advantage Pac is probably the best one released by HP. It has the solver and numerical integration as functions, rather than RPN routines, so they run faster and are more robust. These functions are the sophisticted ones implemented originally in the HP-34C and 15C.

The Advantage module also has a large library of matrix functions, but is not as friendly as those in the 15C and 42S.

Also: integer base converion and logical operations, complex-number operations (from the Math module), roots, curve fitting, and the financial Time Value of Money (TVM) equation, among other features.

Every well-equipped 41 should have the Advantage module, but you'll need the manual or a scan (available at MoHPC). Expect to pay > $40 on eBay for a complete Pac.

If you get an Advantage module, you don't really need a Math Pac, which has the same complex-number operations, a lesser set of matrix operations, and crude RPN-based routines

for the solver and integration (Simpson's Rule). It does offer a Fourier-analysis routine, hyperbolics, and triangle solutions not present in the Advantage module.

The Math module contents are also available in a Math/Stat module, which combines both the Math and Stat packages in one.

The 41CX has extended functions built in, so you don't need an X-functions module. You *could* utilize X-Memory modules (NOT ordinary Memory modules) for extra extended memory.

If you are eager to add functionality right away, I could sell you a complete Math Pac for $15 shipped (US). This is about the going rate, and they are as common as dirt.

Re: 41c/v/x PPC and Advantage modules
*Message #3 Posted by **Math Geek** on 11 Feb 2003, 1:35 a.m.,*
in response to message #2 by Karl Schneider

The advantage pac is indeed quite powerful and no well-equipped 41 should be seen in public without it.

I forgot about memory in the x-functions module -- thanks for pointing out my stupidity ;)

Re: 41c/v/x PPC and Advantage modules
*Message #4 Posted by **Math Geek** on 11 Feb 2003, 1:30 a.m.,*
in response to message #1 by Joe Edwards

C is the basic unit. Minimum memory, NO time functions or other goodies, YES memory module works.

CV has more memory than a C, less than CX, YES memory modules work, NO time functions or other goodies.

CX has max registers already, YES time functions plus other goodies, memory module has no effect.

Advantage modules are available (I have one, no you can't have it, and please don't even ask or I'll be morally and ethically required to hurt you -- badly!) and I don't know its current availability or pricing. It does have many good features:

>> Matrix math (selectable matrix sizes pretty much limited only by how many registers are

free, matrix multiply, matrix divide, matrix +, matrix determinant) >>HEX/BIN/OCT/DEC conversion functions >>Binary math (XOR, AND, OR, NOT, etc.) >>SOLVE (Newtonian method used in 15C) >>INTEG (integration) >>Complex number operations (LNz, e^z, z^1/N, SINz, COSz) >>Differential equation processing >>Curve fitting (linear, power functions) >>Vector operations (cross product, dot product, vector math) >>TVM -- time value of money

PPC module is the best that the user-community-braintrust could come up with -- and I mean that as a compliment! Among its many toys is "synthetic programming" utilities. Synthetic programming is a way of "combining" two data bytes/numbers into a single non-standard (meaning you can't normally enter it by a single keystroke) command. Without the PPC, the only way to put prep the calculator for synthetic programming is an arcane set of keystrokes that bypass normal system boundaries, and the setup goes away if you dump the memory and you haven't created a magnetic card with all synthetic programs. Also, some synthetic programming functions are lengthy and take up memory, so the PPC module is nice to have (no I don't have one, dammit!). Some examples of the fun and games of synthetic programming:

>>Generate any one of about 100 tones, instead of just 10 (some are very cool -- ear-splitting sonic bursts that last only about .02 seconds!) >>Planting random values into the "C" register in the calculator. If ANYTHING other than the "expected" system constant is found in "C" when the calc does its "sanity check", it resets itself to factory original and may sit comatose until power is removed for sometimes up to several hours. >>Creating some very convenient register savings commands -- swapping data from the "flag conditions" register into a normal register (posiibly saving many different flag condition sets into many registers) and swapping back in to the flag conditions register to create a whole set of conditions with a single command

Hope that helped. Others in this oh-just-get-a-life community have more info, I'm sure.

Re: 41c/v/x PPC and Advantage modules

*Message #5 Posted by **Johnny Billquist** on 11 Feb 2003, 12:07 p.m.,*
in response to message #4 by Math Geek

No. The CV cannot use memory modules. The CX is not "maxed out".

Both the CV and CX have the maximum amount of "normal" memory, and cannot use the memory modules designed for the C model.

The difference between the CV and CX in memory is that the CX have the X-FUNCTIONS module built it, which adds some more memory which is used as a ram disk. However, X-FUNCTIONS can address a lot more memory than the module itself provides, which is why there also exists the X-MEMORY modules, which all three models can use, but they *require* X-FUNCTIONS first.

So a "maxed out" 41 (in memory terms) is: 1. A C model with quad mem, X-FNCS and 2 X-MEM 2. A CV model with X-FNCS and 2 X-MEM 3. A CX model with 2 X-MEM

These three configurations are all the same from the memory perspective. Note, however, that they will use a different number of ports to reach this maximum. The C needs all four ports, the CV needs three ports, while the CX only needs two ports.

In addition, the X-MEM modules can be built in into the calculator without penalty, so on a CX you can get it really maxed out in memory without using any port.

Oh, and the TIME module is also available. If you have a CV, and add X-FUNC and TIME, you have most of the CX. The CX also have CX-FUNC and CX-TIME, which have a few extras that are not available in external modules, but apart from that, the two machines will be functionally identical.

Re: 41c/v/x PPC and Advantage modules
*Message #6 Posted by **Math Geek** on 11 Feb 2003, 2:51 p.m.,*
in response to message #5 by Johnny Billquist

I stand corrected. My 41CV doesn't get used much lately because I don't want to burn it out. I could buy more, and even a CX or two, but I have found more use for the 28S with its infinite stack and implicit handling of matrices as stack elements. My work life rarely needs much computing power, and I am hesitant to provide any HP calc as a target for theft.

Re: 41c/v/x PPC and Advantage modules
*Message #7 Posted by **Christoph Klug** on 11 Feb 2003, 3:36 a.m.,*
in response to message #1 by Joe Edwards

Today the PPC module is only from historical interest - a nice part for collectors.

Much more features adds the powerfully CCD module to the HP41 handheld computer. This includes some synthetic programming tools and remember the matrix commands from the Advantage module are taken from the CCD module.

Add one or two X-Memory modules to your HP41CX for getting maximally capacity.

Insert a IL-Module for creating a gateway to PC world : For this you need the HP-IL/PC Interface Card and the new software version of EMU41 which gives you advanced gateway and emulator features....

Best wishes from Germany - Christoph Klug

Re: 41c/v/x PPC and Advantage modules

*Message #8 Posted by **Ex-PPC member** on 11 Feb 2003, 12:20 p.m.,*

in response to message #1 by Joe Edwards

The Advantage ROM is certainly one of the VERY BEST ROMs available for your HP-41CX.

Instead of being a 4K or 8K ROM like most, it packs a tremendous 12K, most of it ultra-fast machine code, not 'user code' (i.e: RPN programming). As such, it maximizes the speed while minimizing resource usage (memory registers needed, etc).

For instance, it does include 50+ powerful matrix-handling keywords, such as MSYS, which will solve a system of N linear equations in N unknowns in just *one* program step, at machine-code speed !

Further, all matrix operations can work with matrices stored directly in X-Memory, no need to copy them to normal RAM, and to that effect it creates a new type of X-files [pun intended, of course] to store matrices in X-mem.

Having the Advantage ROM available will do wonders when implementing complicated algorithms requiring matrices. For instance, you can fit a Nth degree polynominal to a set of (N +1) arbitrarily spaced datapoints (X,Y) using an extra-short, 60-step program, including label, end, full prompting, and full labeling of results ! The 'core' of the algorithm, solving the required NxN system of equations, consists of just *one* step: 47 MSYS !! Which is more, the program creates and stores all data points and ancillary matrices in X-Memory, so this 60-step program uses *no* numbered registers, and so it can run even at SIZE 000 !!

Obviously, without this ROM, such a program would take hundreds of steps, and would need many user registers (SIZE nnn). Using the Math ROM or PPC ROM instead would still result in a larger program, and would execute 10 times slower or more.

My advice: get one ! Fast !

Re: 41c/v/x PPC and Advantage modules

*Message #9 Posted by **David Smith** on 11 Feb 2003, 6:06 p.m.,*

in response to message #1 by Joe Edwards

For the budding math geek, the Advantage module is certainly the best thing out there. Unfortunately they are very hard to come by... people that have them want to keep them. Ebay is probably your best bet... expect to pay at least $50... and then it probably won't have the manual. I have seen boxed ones sell for over $150, the manuals alone for $50. Sometimes you can find a machine for sale with one in it that will go for less than a bare module!

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good old big enter keys
*Message #1 Posted by **Eric** on 10 Feb 2003, 11:34 p.m.*

Missed the posts for a few weeks, caught one about a possible 'small' rpn coming? I have a 32sii and daily access to a nice 42s and I concur: Large enter button up top with the E! Like many of you, I quickly become nostalgic when the old HP's come to mind. When I was in elementary school I was given a 42s by my father (he bought 2, one he still uses today) and being a little nose digger, I broke it eventually. What do you guys think will be the stuff our kids hold onto? Wonder if those HP pocketPC's will run some of our HP calc emus....well back to studying Eric

Re: good old big enter keys
*Message #2 Posted by **Bill Wiese** on 11 Feb 2003, 9:24 p.m.,*
in response to message #1 by Eric

Dude!

You betcha! Nice to hear another 'correct' opinion ;) Putting an [ENTER] key in place of a traditional [=] key, in its tradtional location, just won't cut it. I fear this might be the case in upcoming new HP calcs - the OEM won't change the keyboard cutout dies or wanna make a special larger key.

IIRC, I believe APF or Omron had a sci. calc (w/flourescent display) in the mid-70s that was 3-level RPN - and the [ENTER] key was not a 'special' key but just where the [=] used to be.

Personally, I'd like to see a 42S-type calc in a modified narrower body so its key layout is like that of the 41C. This would fit in shirt pocket NICELY. Alternately, I do enjoy the 11C/15C 'landscape' layout and would love to see a 42S-functionality calc in that format. [Plus, the 11C/12C/15C/16C calcs had GREAT keyboards and strong casings. Look how well many are holding up after 20 years!]

Bill Wiese San Jose, CA

Missed the posts for a few weeks, caught one about a possible 'small' rpn coming? I have a 32sii

and daily access to a nice 42s and I concur: Large enter button up top with the E! Like many of you, I quickly become nostalgic when the old HP's come to mind. When I was in elementary school I was given a 42s by my father (he bought 2, one he still uses today) and being a little nose digger, I broke it eventually. What do you guys think will be the stuff our kids hold onto? Wonder if those HP pocketPC's will run some of our HP calc emus....well back to studying Eric

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HP-25 weird behavior
*Message #1 Posted by **Dan F** on 10 Feb 2003, 5:38 p.m.*

When I power up my HP-25, there is a 0 (zero) in the middle of the display, and won't accept input. What is wrong? thanks in advance.

Re: HP-25 weird behavior
*Message #2 Posted by **David Smith** on 10 Feb 2003, 5:58 p.m.,*
in response to message #1 by Dan F

If it occurs only when the charger is connected it could be a bad battery or corroded contact. Unfortunately the most likely problem is a bad ACT chip - the big one down near the battery contacts. Only place to get a new one is from another machine... you can find them in the HP21/22/25/25C/29C/67/97 but not the 27.

Re: HP-25 weird behavior
*Message #3 Posted by **Dan F** on 10 Feb 2003, 6:15 p.m.,*
in response to message #2 by David Smith

I used a fresh battery pack and still no luck. now the zero is showing up in diff locations, ie middle, left, right etc.

Is there any way to fix this besides replacing that chip? I do not have any of those calculators, and do not have the money to even get dead ones!!!

Re: HP-25 weird behavior

*Message #4 Posted by **David Smith** on 11 Feb 2003, 5:58 p.m.,*

in response to message #3 by Dan F

Nope, the only source of a replacement chip is another machine... and in 90 percent of the cases the ACT chip would be the cause of another machine being dead... except mayby for the HP67 and HP97. They had a MUCH better power system that did not permit chip-deadly voltages to appear when the battery went bad or was missing.

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9121 discs
*Message #1 Posted by **Andy** on 10 Feb 2003, 3:51 p.m.*

How does one get a modern 3.5" fd to work in an old 9121 drive? Are there some holes that need to be taped up?

Re: 9121 discs
*Message #2 Posted by **Vassilis Prevelakis** on 10 Feb 2003, 6:32 p.m.,*
in response to message #1 by Andy

```
> How does one get a modern 3.5" fd to work in an old 9121
drive?
> Are there some holes that need to be taped up?
```

Yes and no. The quad density floppies (i.e. PC floppies) are not really suitable for double density drives (9121). However, for casual use (i.e. not backup) they, more or less, work.

You just tape the quad density hole (the square hole opposite the WRITE PROTECT slider).

**vp

Re: 9121 discs
*Message #3 Posted by **Christof** on 11 Feb 2003, 12:34 a.m.,*
in response to message #2 by Vassilis Prevelakis

so, what sources for double density disks?

Re: 9121 discs
*Message #4 Posted by **Vassilis Prevelakis** on 11 Feb 2003, 2:46 p.m.,*
in response to message #3 by Christof

> so, what sources for double density disks?

eBay

**vp

Re: 9121 discs
*Message #5 Posted by **Ellis Easley** on 12 Feb 2003, 2:50 p.m.,*
in response to message #3 by Christof

MEI Microcenter used to specialize in bulk diskettes, now they have a much bigger selection of other things but they still have a 10-pack of DSDD 3.5 diskettes for $3.99:

http://www.microcenter.com/single_product_results.phtml?product_id=0033406

You can also get there by going to www.mei-microcenter.com (printed on their paper catalog).

There is another factor that applies to the 9121, which was discovered by Mike a while back - and which I verified from the 9121 manuals and some old diskettes I have. The first units couldn't open the sliding cover on today's diskettes. HP's first single sided diskettes have a different cover which is not spring loaded and has to be opened by hand, there is a friction catch at either extreme that holds the cover open or closed. You have to open the cover before inserting the diskette and then close it after you remove the diskette. Then HP came out with "auto shutter" single sided diskettes that are spring loaded but have a hook catch that holds the cover open; you have to squeeze the corner to release the catch and close the cover. These work manually in the early drives and automatically in later drives. The 9122, which is like a 9121 with double sided drives, uses diskettes just like today's 720K PC (800K Mac) diskettes.

I have two manuals, a 9121 and a 9121/9122. The 9121 manual describes how to use the manual shutter diskettes, then describes the auto shutter diskettes and says: "Remember, either type of disc (manual or auto shutter) will work in either type of drive. If you do not have the auto shutter mechanism in the drive and the disc, you must follow the procedure described with using the manual shutter." The 9121/9122 manual has a media compatibility chart that has an asterisk next to the "OK" for using double sided media in a 9121, which says: "If you have to manually open the shutter on a disc before inserting

the disc into the HP 9121, you cannot use double-sided media." These are the only mentions in these manuals about two different versions of disk drive mechanism.

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HP-41 CT 4100 Port Extender
*Message #1 Posted by **Gordon Dyer** on 10 Feb 2003, 3:39 p.m.*

I now have a scanned copy of the HP-41 CT 4100 Port Extender manual, thanks to Frank Jungmann who photocopied it and posted it to me. It is in German and I will send it to anyone who is interested, the quality of the copy is not great.
Are there any German HP-41 entusiasts out there who would like a copy to translate into English?

Re: HP-41 CT 4100 Port Extender
*Message #2 Posted by **Daniel Diggelmann** on 12 Feb 2003, 7:10 a.m.,*
in response to message #1 by Gordon Dyer

Hi Gordon,

You can send the scans to me and I'll translate it into English.

Best Regards from Switzerland Daniel

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hp 41 c repair
*Message #1 Posted by **alan e grunewald** on 10 Feb 2003, 2:10 p.m.*

hp 41c # 2428S41113 abruptly stopppd computing. batteries ok. only a few characters show on the display; 10s on the left side of the display and exponents, 1, 2, etc on the far right of the display. no other numbers or computation. was repaired once some years ago. where can I send it for repair and the approximate cost? thanks.

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HP-41 / 42 style RPN challenge
*Message #1 Posted by **Gene** on 10 Feb 2003, 11:58 a.m.*

HP-41 / 42 style RPN challenge

Develop a short routine to reverse the order of a number in X.

1234 -> 4321 123456789 -> 987654321

Restrictions:

Begin the routine with LBL 01 Include an "END" in the byte count

Current "champion" routine is 24 bytes.

Timings: 123456789 -> 987654321 in just about 4 seconds.

Other programmable RPN calculators are welcome to do this too, in which case the total # of steps should be used. RPL calculator users are welcome to jump in if they like, but hey...let's not forget RPN!

Can anyone do it in less space and time? :-)

Gene

Not an answer, just a question...
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 10 Feb 2003, 3:11 p.m.,*
in response to message #1 by Gene

Hi, Gene;

will the number be always a positive integer? Will it have an expoent of ten greather than 9?

If the answer for these two questions are YES and NO repectively, we will have less "factor correcting" steps; agree?

Cheers.

Further specs
*Message #3 Posted by **Gene** on 10 Feb 2003, 3:18 p.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

Assume it's a positive integer

Assume no scientific notation.

Just a number between 1 and 9,999,999,999

I'm just curious to see what someone else comes up with. Gene

An answer
*Message #4 Posted by **Andrés C. Rodríguez (Argentina)** on 10 Feb 2003, 5:04 p.m.,*
in response to message #1 by Gene

This solution takes 21 bytes (as far as I can check), uses only the stack registers, and works OK provided that:

a) The routine is called with the initial integer number in X and a value of 0 in Y.

b) If the number ends with a 0, the leading zero will be suppressed in the answer (i.e.: 120 will be converted into 21, which is the same than 021).

LBL 01

RCL X

```
10

STO * T

STO / Z

MOD

STO + Z

ROLL DOWN

INT

X<>0?

GTO 01

RDN

END
```

If the restriction about calling the routine with Y=0 is not allowed, then the routine will be a little longer, adding three steps as follows:

```
LBL 01

0

X<>Y

LBL 02

RCL X

10

STO * T

STO / Z
```

MOD

STO + Z

ROLL DOWN

INT

X<>0?

GTO 02

RDN

END

Good job! and my baseline routine

*Message #5 Posted by **Gene** on 10 Feb 2003, 5:46 p.m.,*

in response to message #4 by Andrés C. Rodríguez (Argentina)

Well, not MY routine. Had fun with this from the Key Notes Vol 5 No 2 P11 middle column modified to assume a Y register equal to zero. Bytes are 24 with the routine making Y equal zero and 21 without and the user manually making it zero. Can anyone go below 21 bytes?

The point about 510 being reversed as 15 is valid. Good point.

If you don't want to assume Y is zero, insert before the LBL 01 a

LBL 00 0 ENTER

then continue with this.

LBL 01 10 ST * Z / ENTER FRC ST + Z - X NE 0? GTO 01 x<>Y 10 * END

Oops.
*Message #6 Posted by **Gene** on 10 Feb 2003, 5:48 p.m.,*
in response to message #5 by Gene

Oops. That initial couple of extra steps should have been LBL 00 0 X<>Y

not

LBL 00 0 ENTER

Won't work the second way.

Oops! and clarifications
*Message #7 Posted by **Andrés C. Rodríguez (Argentina)** on 10 Feb 2003, 8:23 p.m.,*
in response to message #6 by Gene

The variation with LBL 01, 0, x<>y, LBL 02, ...: That's just what I posted (read the second part of my original post).

BTW 1: I have no access to the KeyNotes issue you mentioned, which is the routine suggested in KeyNotes?

BTW 2: My routine does not work with negative numbers, allowing for them may provide for a tricker challenge...

Byte count in HP 41 vs. HP 42
*Message #8 Posted by **Andrés C. Rodríguez (Argentina)** on 11 Feb 2003, 7:13 a. m.,*
in response to message #7 by Andrés C. Rodríguez (Argentina)

My two programs (requiring Y=0 or not) take 24 and 21 bytes on the HP41, but only 23 and 19 respectively on the HP42...

Re: Byte count in HP 41 vs. HP 42
*Message #9 Posted by **Werner Huysegoms** on 11 Feb 2003, 7:29 a.m.,*
in response to message #8 by Andrés C. Rodríguez (Argentina)

That's because the 42S does not count the END. That would make your 42 programs 26 and 23 bytes long, two bytes more than their 41 equivalents. Makes sense, as you have two number entry lines that are one byte longer on the 42 than on the 41 (except when you have two in a row)

Re: Essentially the same . . .
*Message #10 Posted by **Paul Brogger** on 10 Feb 2003, 8:44 p.m.,*
in response to message #5 by Gene

Here's basically the same approach, using only "stock" stack operations:

```
LBL 00
0
X<>Y


LBL 01
10
/       (divide)
IP
X<>Y
LAST X
FP
-       (subract)
10
*       (multiply)
X<>Y
X>0?
GTO 01


X<>Y
STOP
```

This (I think) is 24 bytes also.

Another approach, which is of the style I call "delegation programming" can be done in 22 or fewer bytes (though it's less reliable):

```
LBL 00
"ENTER REVERSED#"
PROMPT
INPUT ST X
STOP
```

{;^)

(Actually, that's the first "alpha" program I've written on the HP-42s -- an experienced *calculateer* could probably do better . . .)

Re: Essentially the same . . .
Message #11 Posted by ***Werner Huysegoms*** *on 11 Feb 2003, 3:45 a.m.,*
in response to message #10 by Paul Brogger

22 with LBL 00 0 X<>Y, 19 without:

```
LBL 00
0
X<>Y
LBL 01
FP
STO+ ST Y
X<> ST L
IP
10
STO* ST Z
/
X>0?
GTO 01
RDN
END
```

Remember that on a 42S, number entry lines always include the invisible NULL

char - so the program here is two bytes longer on a 42 than on a 41

Re: HP-41 / 42 style RPN challenge

*Message #12 Posted by **Ex-PPC member** on 11 Feb 2003, 4:34 a.m.,*

in response to message #1 by Gene

This is a 16-step, 19-byte solution for the HP-15C:

```
01 LBL 0
02 STO 0
03 STO-0
04 LBL 1
05 FRAC
06 STO+0
07 LASTX
08 INT
09  1
10  0
11 STOx0
12  /
13 TEST 0
14 GTO 1
15 RCL 0
16 RTN
```

It will reverse 3141592654 in just 10 seconds. By the way, TEST 0 is the HP-15C's instruction for x<>0 ?, so using that instruction instead, this same routine will work on most any HP RPN machine, such as the HP-11C, HP-67, even on the venerable HP-25, provided you delete both labels and change the GTO 1 to GTO 03 and the RTN to GTO 00. That would be a 14-step, 14-byte routine !!

Re: HP-41 / 42 style RPN challenge

*Message #13 Posted by **Paul Brogger** on 11 Feb 2003, 10:47 a.m.,*

in response to message #12 by Ex-PPC member

My hat is off to Ex-PPC! I've wasted too much time on this, and haven't done nearly as well.

For what it's worth, his approach takes 21 bytes on an HP-42s. One might argue that the storage register takes several bytes as well. (On an HP-32S(II) this would be easily measured.) But then, ultimately, so do the stack registers, so that's a minor quibble.

Besides, here's his approach as a stack-only version, taking only 22 bytes:

```
LBL 00
0
X<>Y


LBL 01
FP
STO+ ST Y
ROLL DOWN
LAST x
IP
10
STO* ST Z
/
X>0?
GTO 01


ROLL DOWN
STOP
```

A very slick approach. The key, I think, is starting right out with FP, and performing the x>0? test against the just-shifted remnant. For some reason, I got hung up on testing the integer portion only, and that forces extra (obviously unnecessary) stack manipulation.

Also, with this algorithm, he gets away with entering "10" only once -- another benefit.

As Mr. Burns would say, "Excellent!"

Re: (Generalization of) HP-41 / 42 style RPN challenge
*Message #14 Posted by **Paul Brogger** on 13 Feb 2003, 10:12 a.m.,*
in response to message #1 by Gene

I couldn't resist adding to my "Useless generalizations of RPN challenges" series . . .

Given any 1-9 digit integer in *x*, return *any arbitrary selection and arrangement* of 1-9 of its digits, in a pattern specified by the user.

```
A01  LBL   A       "xeq A" to run
A02  STO   U       store User-supplied value
A03  0             initialize
A04  STO   R          Result
A05  INPUT P       obtain user's Pattern
A06  9             initialize loop counter


L01  LBL   L       processing Loop
L02  STO   C       save Counter value
L03  RCL   P       get Pattern (again)
L04  XEQ   D       execute "obtain Digit" subroutine
L05  RCL   U       recall User's original value
L06  XEQ   D       execute "obtain Digit" subroutine
L07  10            shift
L08  STO*  R          Result left
L09  ROLL DOWN           and
L10  STO+  R                "append" specified digit
L11  RCL   C       get Loop counter,
L12  1                decrement
L13  -                   and
L14  x>0?                     test for done
L15  GTO   L       not done


L16  RCL   R       bring Result into x
L17  STOP             and halt
```

```
D01  LBL   D       "return yth digit in x"
D02  x<>y          swap
D03  10**x         turn location into divisor
D04  /                shift y right x places and
D05  FP                  discard stuff on the left
D06  10            shift it left
D07  *                one place, and
D08  IP                  discard stuff on the right
D09  RTN           return specified digit
```

The pattern is encoded as follows:

```
"0" == insert a zero
"1" == one's digit
"2" == ten's digit
"3" == hundred's digit
    ...
"9" =  hundred million's digit
```

For the special case of reversing an *n*-digit value, simply XEQ A with some integer in *x*, and enter the first *n* digits of "123456789" when prompted for P.

I programmed this on an HP-32s, and it takes 48 bytes as written, and 32 more when run (for the four variables).

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My New Hp10Bii is CRAP!!!!
*Message #1 Posted by **Ron Ross** on 10 Feb 2003, 10:36 a.m.*

What a piece of crap!!!

I bought one to upgrade my business collection. Right out of the blister pack it has a poor FV key (no key click at all, feels flat). All the other keys do have a keyclick, but not nearly as nice as the older line. This is new, out of an undamaged blister pack. A $10 calculator can be excused for this type of behavior, but a $30 retail calculator (with the Hp emblem no less)???

If I hadn't bought it at discount and had to rely on this to get me through a class, I would take it back and probably exchange it for a Ti. If the new Hp 12c's are like this and retail for $70, that is a crime!

I could buy a $20 Ti and have a much better made calculator than the overpriced Hp GARBAGE. When I use an (older) Hp, I know I am using the BEST. New users, will think Hp is CRAP, if they try out Hp's new offerings. What a great marketing concept. Any Hp Calculator development people reading this???

Perhaps this is why Hp is having outside companies relable their lines with the Hp logo.

Any arguements???

I am open to any.

I agree - one of the reasons my university moved to TI BAII Plus
*Message #2 Posted by **Gene** on 10 Feb 2003, 11:10 a.m.,*
in response to message #1 by Ron Ross

My own personal HP-10BII had the FV key problem. That's interesting...seems like a sure fire design problem to show up on 2 new 10BII's.

The rear battery door ALSO does not stay clicked shut. I have to use scotch tape.

Needless to say, it's in a file drawer at home somewhere.

Compare the 10BII to the BAII Plus - same price range. BAII Plus wins hands down. There IS no comparison.

BAII Plus: 1) Uses worksheets to store statistical and cash flow data...each data point is accessible for correction. No such capability on the 10B or 10BII (or the 12c for that matter). 2) Has trig functions built-in. 3) Has HYPERBOLIC trig functions built in. 4) Has permutations and combinations built in. 5) Has the ability to make 1+2x3 = 7, like it should, without having to use parentheses! (When will manufacturers stop thinking business people are stupid?) 6) Has lots of other functions built-in too.

Same price? No decision needed. Buy the TI.

I hope that HP does better with a new high-end financial calculator.

Darn! I hope HP reissues the 12c in the form of a 12c+ with some of the changes I suggested last year.

Gene

Re: I agree - one of the reasons my university moved to TI BAII Plus
*Message #3 Posted by **Dave** on 10 Feb 2003, 12:17 p.m.,*
in response to message #2 by Gene

I went through several replacements.. All Hp-10Bii's have the same failure in the FV key. Several had displays go bad on me also.

Re: I agree..
*Message #4 Posted by **Raymond Del Tondo (Germany)** on 10 Feb 2003, 4:09 p.m.,*
in response to message #3 by Dave

Hi,

my 10BII (batch# CN03102032) doesn't have that failure. The FV key works like the other keys. Maybe another batch works better?

However, I must admit that this calc is crap. I posted something on this matter last year, keyword 'hamster shit' ;-)

Raymond

Dodgy HP-10BII 'FV' key theory
*Message #5 Posted by **Frank Wales** on 10 Feb 2003, 5:01 p.m.,*
in response to message #3 by Dave

I have a theory about the 'FV' key feeling consistently mushy on the 10BII, but to see what I mean, you might need to dismantle yours (which invalidates your warranty, etc., and might leave you with a non-functioning machine, for which I take no responsibility -- if you're not comfortable dismantling calculators, don't do this).

First, take the machine apart; it's just held together by three clips down each side, two at the top and one at the bottom -- insert a thin blade between the case halves and twist repeatedly, and you'll be able to pop the case open.

Note that there are four heat stakes around the battery contacts on the main board; these hold it in place against the front half of the unit. Note also that the keyboard frame is attached to the main board by two further smaller heat stakes, one at the top left of the main board, and one at the bottom right. If looking at the keyboard from the front (printed) side, the lower one is about at the intersection of the 'C', '1', 'ON' and '0' keys, and the other is right below the right-hand hinge of the 'FV' key.

You can get a better idea of all this by cutting the heads off the heat stakes, and really dismantling the calc; if you don't do this, you'll be able to reassemble the calculator as if it had never been opened, but cutting the heat stakes can't be undone, and will leave you with a slightly looser machine upon reassembly. Anyway...

My theory, alluded to earlier, is that the stake right below the 'FV' key is having a bad mechanical effect on the key, either distorting the plastic frame around it, or pushing

one side of it too close to the plastic dome underneath, or something similar which affects its ability to interact properly with the dome and the contacts underneath it. I don't think it helps that there are only two diagonally opposed heat stakes on the keyboard instead of the four that seem to have been planned for (there are four holes in the main board that look like keyboard stake holes).

If there's a mechanical engineer in the house who could comment on this one way or the other, I'd be interested in their opinion, especially as regards how predictable this problem would have been from the design, prior to manufacture.

Re: Dodgy HP-10BII 'FV' key theory
*Message #6 Posted by **Gordon Dyer** on 10 Feb 2003, 7:42 p.m.,*
in response to message #5 by Frank Wales

I too have a 10BII which I am not happy with.
Your analysis of the construction is interesting and it would be good to have some photos of the insides to show us. Any chance of publishing some?

Re: Dodgy HP-10BII 'FV' key theory
*Message #7 Posted by **Frank Wales** on 10 Feb 2003, 10:26 p.m.,*
in response to message #6 by Gordon Dyer

Do these help?

http://www.frankwales.com/10bii/

BTW, I was slightly mistaken/misleading in my earlier post with respect to opening the case. The four big heat stakes visible in the battery compartment hold the back on. However, I found that you could ignore them, and just pull the case halves apart anyway, with minimal (but noticeable) damage to the stakes themselves.

Re: Dodgy HP-10BII 'FV' key theory
*Message #8 Posted by **Gordon Dyer** on 11 Feb 2003, 4:32 a.m.,*
in response to message #7 by Frank Wales

Thanks, that is a very comprehensive and illuminating answer!
I am not a mechanical engineer, but it seems obvious to me that the construction and materials are paired down so far for cost reduction that it is sure to cause low quality feel and operation.

Another problem - Fails to recognize key press
*Message #9 Posted by **Sambonator** on 11 Feb 2003, 7:35 a.m.,*
in response to message #8 by Gordon Dyer

Yet another problem I've had with my 10BII is that if I press lightly on the number keys (just enough to cause it to click), it sometimes fails to recognize the key press. This is a major problem with number entry if you aren't vigilantly examining every key press.

I really do like the overall looks of the 10BII, and the clarity of the display. Its too bad HP is now producing such awful quality products...

Re: I agree - one of the reasons my university moved to TI BAII Plus
*Message #10 Posted by **Frank Knight** on 10 Feb 2003, 12:42 p.m.,*
in response to message #2 by Gene

Gene, You left out: Can get the TI at any Walmart and most office supply stores. Walmart seems to be dropping the standard TI-BA model, but keeping the BA-II. The only picky complaints I have with the TI is no EE key so one must use a work around upon exponent entry as it has the capability, just not direct entry. Course in that role it could be a scientific/financial, that one quirk and either base 10 or E logs/exponential missing also, one or the other can't remember which being another preventing it from same without conversion. I have not had problems with the 10BII in very limited use, have some new ones I got marked down in Walmart I now need to test through the plastic, however! I thought the keyforce was rather too high given the (lack of) case stiffness, though, which could explain some of the issues over time.

Re: I agree - one of the reasons my university moved to TI BAII Plus
*Message #11 Posted by **Gene** on 10 Feb 2003, 1:14 p.m.,*
in response to message #10 by Frank Knight

The BAII Plus is missing the BASE 10 logs.

And, the EE scientific notation is missing.

Still, for $30, this is a great business calculator with a lot of scientific stuff thrown in.

Sad to hear about the apparently normal 10BII FV key defects. I didn't bother trying to get a replacement. Just threw it in the drawer and gave up on the 10B.

Gene

Re: My New Hp10Bii is CRAP!!!!
*Message #12 Posted by **Pyerre** on 10 Feb 2003, 3:42 p.m.,*
in response to message #1 by Ron Ross

$40/unit is quite expensive for a such poor quality calc. I've got two HP-10B, more closed to HP standard quality built, and happy with those.

The HP-10BII is a very sorry piece of work. IMHO though !

Re: My New Hp10Bii is CRAP!!!! Read my tale of woe...
*Message #13 Posted by **Jim** on 10 Feb 2003, 3:51 p.m.,*
in response to message #1 by Ron Ross

I purchased my 15 year old son an HP30S. Scientific, with all sorts of "kewl" functions. (I wanted the kid to learn what the best was like, similar to the awe that I felt as a freshly scrubbed engineer learning how the "big boys" did it.)

Replaceable faceplates with different colours? Rubber keys? An equals sign? (But it was an HP. - Even if it did cost 80 bux Cdn)

At first he was thrilled, and his classmates even borrowed it. After five months, the equals sign (how apropos!) has quit working, the digit 8 no longer does it, and the calc lives the remainder of its non-working life in the bottom of the dreaded junk drawer. Now he is saving his money for a TI for high school - with my blessing.

I tried HP, but you let me down...

How unfortunate!!!
*Message #14 Posted by **Ron Ross** on 10 Feb 2003, 4:34 p.m.,*
in response to message #13 by Jim

How sad your story is.

The Hp30s listed for $20 US. It is not an Hp calculator of the same quality as an Hp20s (which lists for $40 US and is probably the calculator you paid for, but you got the Hp30s via the old switcharoo, either by plan or inept pricing).

That said, I suspect you will never again trust Hp calculators. GREAT MARKETING HP!!!

I would bet that you will badmouth Hp for a very long time ie years->forever.

To Hp: No need to invest in marketing across the border, your manufacturing has spoken LOUD & CLEAR to Jim.

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smoking hp85
*Message #1 Posted by **andy** on 10 Feb 2003, 10:05 a.m.*

When I powered up my hp85 this weekend, the following happened:

1. The tape light came on 2. A burning smell eminated from the back

So I took the cover off and tried again. There are a couple of transformers near the CRT. One of them was smoking.

Any advice?

Thanks,

Andy

Re: smoking hp85
*Message #2 Posted by **Mike Meyer** on 10 Feb 2003, 10:21 p.m.,*
in response to message #1 by andy

Have you tried laying an HP-10BII across it?

Sorry. Couldn't resist.

Re: smoking hp85
*Message #3 Posted by **andy** on 11 Feb 2003, 9:11 a.m.,*
in response to message #2 by Mike Meyer

:) I don't have a 10iib but if i did...

On a more serious note, I discovered that a capacitor downstream of the transformer had gone bad (it reads shorted).

Hopefully the transformer is still good (even though it was smoking, it still reads good) and replacing the capacitor will get it working.

Andy

Re: smoking hp85
*Message #4 Posted by **Michael Meyer** on 11 Feb 2003, 9:21 p.m.,*
in response to message #3 by andy

Nice find. There are many here who know more about electronics than I.... but I agree. If the voltages look right, the transformer should be OK. I wouldn't power it up and then go out to dinner, though...

Michael

Re: smoking hp85
*Message #5 Posted by **andy** on 11 Feb 2003, 9:57 p.m.,*
in response to message #4 by Michael Meyer

I replaced the bad capapcitor and re-installed the transformer. I accidentally put the transformer in backwards. Belive it or not, it only blew the main fuse.

After properly re-installing the (still good) transformer, my hp85 is up and running again!! :^)

Now onto replacing the little gummy wheel so I can get the cassette drive working too.

Andy

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calc precision
*Message #1 Posted by **mapet** on 10 Feb 2003, 9:51 a.m.*

Which of the HP calculators uses the highest precision?

Re: calc precision
*Message #2 Posted by **Exp-PPC member** on 10 Feb 2003, 10:03 a.m.,*
in response to message #1 by mapet

HP30S (24 digits), except for square root (12 digits)

Re: calc precision
*Message #3 Posted by **Bill Wiese** on 10 Feb 2003, 2:15 p.m.,*
in response to message #2 by Exp-PPC member

>>HP30S (24 digits), except for square >>root (12 digits)

Wow. Why is sqrt(x) lagging? Common square root algorithms work very similarly to division & reciprocal algorithms. Unless they totally ran out of ROM space and picked a reduction in sqrt(X) precision as the best compromise, this looks like an oversight.

I believe - it's been awhile - that there's a CORDIC-like shift/add algorithm for square root too - each iteration would deliver one digit (either binary bit, hex digit or BCD digit, according to base of numeration system and algorithm flavora) of result. Square root is fairly well-behaved too - unlike asymptotic tan(x) near 90deg and log(x), ln(x) near 0.

Bill Wiese San Jose, CA

HP 9G? (nt)
*Message #4 Posted by **mapet** on 11 Feb 2003, 7:58 a.m.,*
in response to message #2 by Exp-PPC member

nt

Re: calc precision
*Message #5 Posted by **hugh** on 13 Feb 2003, 7:50 p.m.,*
in response to message #2 by Exp-PPC member

i have also noticed square root is less accurate. if you root with logs you can get more accuracy that the built in square root. that said, its not necessarily a recommendation for the hp30s.

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HP-67 lateral PCB
*Message #1 Posted by **Daniel Conde** on 9 Feb 2003, 7:00 p.m.*

Hi,I'm an HP-67 owner. Unfortunately the lateral PCB or plate (from the CPU to the card reader engine) is completely oxidized / rotten. Could I obtain another one? Please, let me know other solutions. Thanks.

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Uncredited MoHPC picture
*Message #1 Posted by **Jürgen (CH)** on 9 Feb 2003, 5:40 p.m.*

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3007056645&category=3284

And another
*Message #2 Posted by **Chris Randle (UK)** on 10 Feb 2003, 3:20 p.m.,*
in response to message #1 by Jürgen (CH)

http://cgi.ebay.co.uk/ws/eBayISAPI.dll?ViewItem&item=2306764661&category=302

UK this time, for a change. Complete with watermark at bottom lh corner.

Thanks everyone
*Message #3 Posted by **Dave Hicks** on 10 Feb 2003, 9:12 p.m.,*
in response to message #2 by Chris Randle (UK)

The first auction has been updated with a credit and I've sent a request to the second auctioneer.

Re: Thanks everyone
*Message #4 Posted by **Sambonator** on 12 Feb 2003, 5:37 p.m.,*
in response to message #3 by Dave Hicks

Yet another...

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3007811996&category=11712

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HP-71B / HP-IL troubles
*Message #1 Posted by **Gene** on 9 Feb 2003, 4:02 p.m.*

Hi. Have an HP-71B with a HP-IL module. Hooked up my HP-IL cassette drive.

Put in a tape with who knows what on it.

Tried INITIALIZE :TAPE

spun the tape around for a couple of minutes (like initialize always does) and then returned control to me. Seems like no problems.

Then tried COPY FILE1 to :TAPE

It spins up the tape like it is about to copy and then errors out with the message "checksum err"

Have tried this with 2 tapes.

Ideas? I'm thinking the tape drive has a problem.

Gene

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Problem with 82143A (HP 41) printer
*Message #1 Posted by **Gunnar** on 9 Feb 2003, 12:49 p.m.*

Since yesterday the first row of the 7 dot matrix doesn´t appear. I can measure a signal at this row, but the electrical resistance is very high. I guess that this dot at the printer head is burned through. Is it possible to exchange or to repair the printer head? Were can i get a new or similar one?

Thanks! Gunnar

Re: Problem with 82143A (HP 41) printer
*Message #2 Posted by **db(martinez,california)** on 9 Feb 2003, 5:59 p.m.,*
in response to message #1 by Gunnar

they pop up on ebay regularly and for some reason go for relativly cheap prices; usually 15 to 45 dollars. unfortunatly; now that i've said this "texaspyro" is going to start buying up every one he sees no matter how much he has to bid.

maybe you can get lucky and find someone with one that has a blown motor or that got run over by a truck without smashing the print head. it could happen.

if you have to buy a working one; please be sure to offer the carcas in the classified ads. you may make someone elses day. btw: i'm not shilling. my 82143 works fine.....knock on wood.

good luck.

Re: Problem with 82143A (HP 41) printer

*Message #3 Posted by **David Smith** on 9 Feb 2003, 10:32 p.m.,*

in response to message #1 by Gunnar

Yes, your best bet is finding another printer on Ebay. Changing the printhead out is a rather delicate and involved process. Main things to worry about are flying tiny "C" clips (we don't call 'em Jesus clips for nothing), tearing the flex circuit where it plugs into the circuit board, and cracking the printhead when you tighten down the screws.

Things to watch out for when buying these printers are bad dots in the printhead, missing paper tear bars, stretched out drive belts (a workingable replacement is available from Projector-Recorder Belt Company - www.russellind.com - part SCX2.4), bad paper feed cams, or just a lot of dirt and paper dust gumming up the works. Figure 1 in 3 machines will be unusabale, 1 in three will require work, 1 in three will be fine.

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HP-65 card reader
*Message #1 Posted by **John Nelson** on 9 Feb 2003, 11:57 a.m.*

I have an HP-65 that, cosmetically is near mint, but the rightmost digit is always partially lit on a couple of segments and the card reader motor runs (but is loud & sqeaky) and does not read. It does not appear to be a gummy wheen problem. It's like it needs to be cleaned / lubricated. Anybody know how to effect repairs for such thing?

Re: HP-65 card reader
*Message #2 Posted by **David Smith** on 10 Feb 2003, 6:10 p.m.,*
in response to message #1 by John Nelson

The reader noise problems are most likely due to lack of lubrication. A reader that screams like a banshee is caused by the tip of the worm gear cam running against a steel ball thrust bearing. If the reader wheel has not been replaced it WILL need replacing. The head probably needs cleaning also. Finally a reader that writes but does not read is usually caused by a flakey small blue dipped tantalum usually located along the upper edge of the card reader board.

Ghost segments in the display are caused by sneak currents devloping in the display cathode driver chip... the one just below the right hand LEDs. The ghost-be-gone cure is to connect a 200 ohm resistor from the offending cathode line on the chip to the chip "ground"... the most righthand of the bottom row of pins. This chip actually runs on +8 and +4 volts... it does not connect to true gound. One has to be careful locating the resistor becuase of clearance problems with the molding of the case.

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hp 67 card reader repair
*Message #1 Posted by **Eduardo Molinet** on 7 Feb 2003, 11:37 p.m.*

It was suggested to me by reputable source that Mr. David Smith does expert hp67 repairs. Could Mr. Smith contact me at above email address? Thanks, Ed Molinet

Re: hp 67 card reader repair
*Message #2 Posted by **Daniel Conde** on 10 Feb 2003, 5:14 p.m.,*
in response to message #1 by Eduardo Molinet

Hi, I'm looking for a gummy wheel for my HP-67. Could you tell me how and where can I get this spare piece? Thanks in advance

???
*Message #3 Posted by **Mike** on 11 Feb 2003, 5:08 p.m.,*
in response to message #2 by Daniel Conde

You are looking for a "gummy" wheel? Or a good wheel :-)

Re: ???
*Message #4 Posted by **Daniel Conde** on 16 Feb 2003, 10:06 a.m.,*
in response to message #3 by Mike

Hello Mike,

OK, I'm looking for a "good" wheel for my HP-67 (the best one: gummy or whatever useful); the original one was completely destroyed. I read the article concerning the pink silicone fuel tubing but the problem is always the concentricity.

Regards.

Re: hp 67 card reader repair
*Message #5 Posted by **David Smith** on 11 Feb 2003, 6:09 p.m.,*
in response to message #2 by Daniel Conde

My local candy store sells Gummy Bears. Also some round things made out of the same stuff... you could call them Gummy Wheels.

Re: hp 67 card reader repair
*Message #6 Posted by **Michael Meyer** on 11 Feb 2003, 9:25 p.m.,*
in response to message #5 by David Smith

You guys are worse than I am.

I love it.

Eduardo,

Read in the "Articles" forum how to repair a gummy wheeled card reader. I like the fuel line tubing approach, available at a "lifetime" supply (a foot or two) at any hobby store.

Michael

Re: hp 67 card reader repair
*Message #7 Posted by **Renato** on 11 Feb 2003, 9:52 p.m.,*
in response to message #2 by Daniel Conde

Daniel, Where are you ? I am in Brazil, if you´re not too far,I can send you some tube. Renato

Re: hp 67 card reader repair
*Message #8 Posted by **Daniel Conde** on 16 Feb 2003, 10:10 a.m.,*
in response to message #7 by Renato

Hello Renato,

"Unfortunately", I'm living in Madrid, Spain. Anycase, if you want to send me a small spare tube piece -> THANKS A LOT!!! Daniel Conde c/Sector Oficios 35, 2D 28760, Tres Cantos - Madrid - Spain

Thanks again.

Re: hp 67 card reader repair
*Message #9 Posted by **Renato** on 16 Feb 2003, 12:01 p.m.,*
in response to message #8 by Daniel Conde

Hmm. You are fortunate for living in Madrid. There are reports of people finding good deals on old sotck of HP calculators at "El Corte Inglés". I guess Madrid airplane model stores have the fuel line tubing. I found it here at one small store in Brazil. I am not sure i can send it on a regular international letter, and it will take a some time to arrive there. Renato

Re: hp 67 card reader repair
*Message #10 Posted by **Daniel Conde** on 16 Feb 2003, 5:41 p.m.,*
in response to message #9 by Renato

OK Renato,

No problem, I'll try to find out something here. By the way, I know very well your country, from Angras (Ubatuba, Caraguatatuba, Parati) up to Fortaleza coast, also Sao Pablo, Velo Horizonte, Brazilia, Ouro Preto, etc. You are a lucky man because you are living in one of the most beautiful countries in the world. I lived almost one year at Porto Seguro and Arraial d'Ajuda, long time ago. I love the Salvador de Bahia - Olinda Carnival. Regards and enjoy the next carnival "tudo bem".

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PPC ROM
*Message #1 Posted by **Patrick** on 7 Feb 2003, 11:37 p.m.*

I've only been looking at eBay for a short while now, but I haven't seen one of the old HP-41 PPC ROMs for sale. I have one and am wondering what it is worth these days.

I read an oblique quote somewhere that they are still being sold through EduCalc, but I haven't been able to track this down.

Anybody seen a PPC ROM for sale? How much did it go for?

Re: PPC ROM
*Message #2 Posted by **David Smith** on 8 Feb 2003, 12:11 a.m.,*
in response to message #1 by Patrick

I have seen them go for anywhere from $40 to $200+. Average with manual, etc is probably $100 lately.

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Another uncredited MoHPC picture
*Message #1 Posted by **Ex-PPC member** on 7 Feb 2003, 10:01 p.m.*

This time it's an HP-15C:

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3005758748&category=11713

The seller acknowledges that his/her 15C is not mint, and even the logo is missing, yet it includes David's perfect HP-15C pic, uncredited.

Re: Another uncredited MoHPC picture
*Message #2 Posted by **Use F7, dummy** on 7 Feb 2003, 11:17 p.m.,*
in response to message #1 by Ex-PPC member

It makes sense that anyone foolish enough to steal Dave's pictures is too dumb to learn how to spell check the auction copy. Fitting that they capitalize the errors.

The word is ORIGINAL!

Re: Another uncredited MoHPC picture
*Message #3 Posted by **English Professor** on 10 Feb 2003, 8:47 a.m.,*
in response to message #2 by Use F7, dummy

People, please understand that the spelling (if you will check your UNABRIDGED Dictionary) for Original is ALSO ORIGIONAL! Be sure not to lob stones at those not deserving! Please.

Thanks
*Message #4 Posted by **Dave Hicks** on 9 Feb 2003, 11:19 p.m.,*
in response to message #1 by Ex-PPC member

I just saw this tonight (Sunday.) Once I asked, the auctioneer updated his listing quickly.

Re: Thanks
*Message #5 Posted by **English Professor** on 10 Feb 2003, 8:50 a.m.,*
in response to message #4 by Dave Hicks

The site claims to have found the pic at an alt.bin site, quite believable. Especially in this day and age of information over-availability. He creidted it OK, and even shot a quick recommendation to the site. Goodness!

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71b memory question
*Message #1 Posted by **andy** on 7 Feb 2003, 11:32 a.m.*

I've seen memory modules for the 71b which plug into the card-reader port.

Do these modules act as RAM or do they just act like electronic disks?

Re: 71b memory question
*Message #2 Posted by **Vassilis Prevelakis** on 7 Feb 2003, 11:44 a.m.,*
in response to message #1 by andy

```
> Do these modules act as RAM or do they just act like electronic disks?
```

yes :-)

They are part of the main address space of the 71B. However, they can be configured as non-volatile RAM disk depending on your requirements.

**vp

And they are battery backed up.
*Message #3 Posted by **Mike** on 7 Feb 2003, 1:58 p.m.,*
in response to message #1 by andy

Most of these card reader RAM modules come with a battery so you can remove them and reinstall them later and not lose any data.

Re: 71b memory question

*Message #4 Posted by **Ex-PPC member** on 7 Feb 2003, 7:41 p.m.,*

in response to message #1 by andy

The largest I've ever seen is a CMT (Corvallis Microtechnology, Inc) 128 Kb RAM.

I've got one, it looks terrific and works extremely well, you can dimension and work with a complex matrix up to 95x95, which is ideal for large circuit analysis, or a 135x135 real matrix, for curve fitting and forecasting.

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Kubla Khan and the 75d
*Message #1 Posted by **Andy** on 7 Feb 2003, 9:52 a.m.*

Last night I was attempting to determine the contents of a 32k CMT eprom for my 75 by utilizing the HELP LEX file. The HELP LEX file lists all of the keywords on the 75 or in a given LEX file (see DataFile: V7N5P28) and can be quite handy when trying to decipher undocumented LEX files.

Anyway, I was reviewing the keywords when I came across one called "KUBLA KHAN". When I typed "KUBLA KHAN" into my 75d (at the BASIC prompt) and pressed enter, it displayed (rapidly) the poem by Samuel Taylor Coleridge. By setting the display to the 82164a (display is ":I1") I was able to capture the output to a file as well.

Certainly others have already figured this out, however, I have never seen it documented anywhere so it was kind of like discovering it myself!

If you've seen this easter egg documented in any of the journals, please post the reference.

Andy

Re: Kubla Khan and the 75d
*Message #2 Posted by **John Smith** on 7 Feb 2003, 10:07 a.m.,*
in response to message #1 by Andy

You can find details about it in this excellent book:

"A Guide to HP Handheld Calculators and Computers" by W.A.C. Mier-Jedrzejowicz, Ph.D., 3rd edition, ISBN: 1-888840-30-7.

in the section dedicated to the HP-75D

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41c/cv/cx batteries
*Message #1 Posted by **Joe Edwards** on 7 Feb 2003, 8:51 a.m.*

Okay great oracles, I need the wisdom of the ages regarding the 41c N-batteries. Never heard of them before. What should I know regarding these little power cells? Are they toxic? Will they provide me with loads of free cash? How about good looks? OR, how about where can I find these guys?

Thanks

Joe

Re: 41c/cv/cx batteries
*Message #2 Posted by **Richard Garner** on 7 Feb 2003, 9:51 a.m.,*
in response to message #1 by Joe Edwards

N-Cells can be gotten at Radio Shack, Wal-Mart, Target and generally any department store that has an electronics section. They are no more toxic than any other standard type of battery. They usually cost about $3.00 for a pack of 2, you will need 4 (2 packs) for the 41. Depending on use and what accessories you have on the 41 the N-Cells will last 8 to 12 months. Hope this helps.

Re: 41c/cv/cx batteries
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 7 Feb 2003, 9:51 a.m.,*
in response to message #1 by Joe Edwards

Hi;

I'm no Oracle, but there are a few things about the N-Cells that are known by many of us.

They are available as Alkaline, NiCad and NiMH, having the same internal characteristics as the other Alkaline, NiCad and NiMH batteries, except for the capacity (mAH) that varies from one type and brand to another. You may also know about it, but it's never worth mentioning: Alkalines are not rechargeable, NiMH and NiCads are. I remember I saw and used some regular type N-cells a long time ago, but they did not keep my HP41C working for long times.

About toxicity, all known cares for disposability and handling must be taken into account because chemicals are strictly the same.

Among us in here, there is one contributor that seems to be the one who deals with batteries for more time, and he knows about brands and types. If I am not wrong it is Glyn, and maybe we are lucky having his comments and explanations about this subject (if I am not wrong, he is a representative or works with batteries, something like this). And he writes too well, easy explains every aspects and details as much as needed. As I am a foreigner, I believe he has one of the best English writing I've ever read before.

Not so much of help, but a few info. Hope it helps a bit.

Cheers.

Re: 41c/cv/cx batteries
*Message #4 Posted by **Bill Smith** on 7 Feb 2003, 11:44 a.m.,*
in response to message #1 by Joe Edwards

if it helps, i noticed on Feb 06 that Home Depot carries a pack of Dura cell alkalines 2 N-cells for $2.19

Re: 41c/cv/cx batteries
*Message #5 Posted by **Joe Edwards** on 7 Feb 2003, 2:16 p.m.,*
in response to message #1 by Joe Edwards

I am sorry. The toxic comment was a joke.

Joe

Re: 41c/cv/cx batteries
*Message #6 Posted by **Chris Catotti (Florida)** on 7 Feb 2003, 10:43 p.m.,*
in response to message #5 by Joe Edwards

Eveready and Duracell both guarantee the batteries not to leak in the device (HP-41) and will pay for repair or replacement. Radio Shack does not offer this guarantee.

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Decoding newer serial numbers
*Message #1 Posted by **Holger Weihe** on 7 Feb 2003, 8:21 a.m.*

Hello,

I have a HP-20S with the serial number ID83807111. This is not the numbering scheme of most other HP calculators. I think that "ID" stands for Indonesia. But in which year has this machine been produced? 83 would be to early, so maybe does the 8 mean 1988 or 1998?

Anyone knows how to interpret this number?

Holger

Re: Decoding newer serial numbers
*Message #2 Posted by **Raymond Del Tondo** on 7 Feb 2003, 8:54 a.m.,*
in response to message #1 by Holger Weihe

Hi Holger,

the decoding schemes are here:

http://www.hpmuseum.org/collect.htm#numbers

'Decoding Serial Numbers'

Regards,

Raymond

Re: Decoding newer serial numbers
*Message #3 Posted by **Holger Weihe** on 7 Feb 2003, 12:43 p.m.,*
in response to message #2 by Raymond Del Tondo

You are right. I read the text before but somehow missed the last paragraph. So my HP-20S was made in 1998.

Thanks!

Holger

Re: Decoding newer serial numbers
*Message #4 Posted by **Frank B. (Germany)** on 7 Feb 2003, 2:54 p.m.,*
in response to message #3 by Holger Weihe

So CN0031 (as on my HP-30S) means China, 2000, third week, Nr. 1?

Frank.

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new "oldest" HP86B?
*Message #1 Posted by **Christof** on 7 Feb 2003, 7:08 a.m.*

(I'm going to bed after this, I promise)

Okay, so I'm looking at my 86B and comparing to the serno list.... Mine is:

2412A27868

which should be a bit older than the previous recorded oldest. (yay, I get a record for a while)

I'm curious about the 27868. I somehow doubt that nearly 28,000 HP86Bs were made in one week in 1984. Maybe that number never really got recycled?

-Christof

Re: new "oldest" HP86B?
*Message #2 Posted by **David Smith** on 7 Feb 2003, 5:57 p.m.,*
in response to message #1 by Christof

The production "weeks" of HP machines are not usually calendar weeks. They seem to represent the starting week of a production cycle or revision which may span many months. It also looks like the serial numbers on Singapore production are not reset to 000001 or 001000 when the "week" changes. They seem to increment sequentially through "week" changes. They even seem to never be shared among different product lines. It looks like as each item rolled off the assembly line, it got the next sequential number like off a roll of "take-a-number-and-wait".

HP86
*Message #3 Posted by **Andrés C. Rodríguez (Argentina)** on 8 Feb 2003, 9:25 a.m.,*
in response to message #1 by Christof

I am glad you have been able to fix the video!

Re: HP86

*Message #4 Posted by **Christof** on 9 Feb 2003, 3:33 a.m.,*

in response to message #3 by Andrés C. Rodríguez (Argentina)

very nice machine :)

and some retired HP folks I know are trying to dig bits out of garages... one can hope something like a rom drawer will turn up :) sems that maybe having the oldest currently known to survive 86B is kinda cool....

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HP 41CX vs HP 42s
*Message #1 Posted by **Alan Claughan (South Africa)** on 7 Feb 2003, 3:32 a.m.*

Does anyone know if the HP-42S supports the synthetic programming that is available on the HP-41 Models?

Re: HP 41CX vs HP 42s
*Message #2 Posted by **Holger Veit** on 7 Feb 2003, 3:50 a.m.,*
in response to message #1 by Alan Claughan (South Africa)

>Does anyone know if the HP-42S supports the synthetic programming that is available on the HP-41 Models?

41 and 42 are different technologies. Synthetic programming effectively uses bugs (or rather missing parameter checks) in the 41 ROMs. There may or may not be similar bugs in the 42 code which might (or not) allow similar effects. But since synthetic programming is not an officially accepted feature (other than that it is tolerated in the way that it was not explicitly disabled by better parameter checking) there is no guarantee that anything of it will work in the 42 (and IIRC, it infact doesn't).

Re: HP 41CX vs HP 42s
*Message #3 Posted by **HrastProgrammer** on 7 Feb 2003, 4:00 a.m.,*
in response to message #1 by Alan Claughan (South Africa)

Sorry, synthetic programming is not possible on HP-42S.

Regards.

Well, some synthetic programming is possible
*Message #4 Posted by **Gene** on 7 Feb 2003, 7:16 a.m.,*
in response to message #3 by HrastProgrammer

Requires direct byte editing in the debugger.

You're limited to things such as making very long labels, i.e., "LBL 'Thisisalonglabel' "

You can make labels with lower case letters this way.

A few other things.

You cannot put instructions such as RCL d into the HP-42S. Sorry.

There is an issue of HPX from 1988 or so that covers the 42s in good detail. It's available on the CD ROM set that Jake Schwartz has scanned (and which every HP calculator nut ought to have!)

Re: Well, some synthetic programming is possible
*Message #5 Posted by **HrastProgrammer** on 7 Feb 2003, 2:18 p.m.,*
in response to message #4 by Gene

Well, some synthetic programming is possible

Yes, but it isn't synthetic programming in the 'traditional' HP-41 way. HP-41 programs which contains synthetic instructions cannot be keyed in and executed on HP-42S.

Re: Well, some synthetic programming is possible
*Message #6 Posted by **Gene** on 7 Feb 2003, 3:49 p.m.,*
in response to message #5 by HrastProgrammer

Which is why I said

"You cannot put instructions such as RCL d into the HP-42S. Sorry."

Re: Well, some synthetic programming is possible
*Message #7 Posted by **Christof** on 7 Feb 2003, 2:24 p.m.,*
in response to message #4 by Gene

okay, so my current development code for the 42 "memopad" program is using 6 character alpha strings stored as elements of an array.

Is there any way to use this method to make the memopad better?

(currently, you enter a text string and I consecutively store and recall matrix elements, having to do 0 checking and inster a space to keep empty cells form returning 0.0000 in my fix5 env., etc. It's kind of ugly, but so far works really well)

ASCII data and strings
*Message #8 Posted by **Vieira, Luiz C. (Brazil)** on 7 Feb 2003, 3:54 p.m.,*
in response to message #7 by Christof

Hi;

I remember the first time I get into contact with the HP41's X-Functions/memory module and the X-memory file concept. Program and data files were easy to relate with existing HP41 resources, but the ASCII files were beyond the HP41's hability to handle ASCII strings. The ALPHA register is able to hold 24 characters but any numbered register can hold only six characteres of an ALPHA string. Manipulating ALPHA strings with the basic HP41 functions' set is not easy: ARCL, ASTO and ASHF allow the handling of six characters at a time, and to handle one single character demands a bit of "juggling". The X-Functions set added not only some powerfull ALPHA manipulating functions - XTOA, ATOX, AROT, ALENG, ANUM, - but also some ASCII file handlers - CRFLAS, INSREC, GETREC, INSCHR, APPCHR, GETCHR and others (I'm writing by heart, if there are erros, please, correct me). And I thought: "What are these functions for?" Later, when I read about the HPIL and all HPIL-compatible devices and measurement instruments that could be connected and controlled by the HP41, I understood that ASCII strings were primarily dedicated to hold and handle ASCII data received from and send to external devices. One can handle ASCII data with a series of programs, but viewing ASCII strings in large texts by the 41's LCD is painfull. One specific HPIL device is the TV Link and allos ASCII files to be shown as complete text, but specific programs must br written to do so.

The HP42S has the lack for I/O activity, so ASCII files lost their space and only ALPHA strings prevail. Functions like ALENG, ANUM, XTOA and ATOX (plus

the very welcome AIP) were kept, but there are no specific places (variable types or files) to hold large, contiguous ASCII sequences, that must be broken into sets of six characters each, so they can be stored in numbered registers, variables or matrix elements. Complex matrices and complex variables will need double the space of their real-only counterparts, but will still hold only six characters for each valid position.

I believe Christof's is a very well elaborated program that allows this ASCII-data handling and holding abilities in the HP42. I hope we can see it soon, because this is a very good way to use large messages organized in sort of an data bank, easing ALPHA manipulation.

Cheers.

Re: ASCII data and strings
*Message #9 Posted by **Christof** on 7 Feb 2003, 7:46 p.m.,*
in response to message #8 by Vieira, Luiz C. (Brazil)

well, I'm cleaning up the "next line" handling and growing the matrix.

once that is done, the most basic complete code will be available (it lacks a seperat implementation for a "directory" of matrix varnames that are "text files", but I'm not sure that is worth doing yet. Copy, delete, and some mild encryption will definitely be coming after the final tweaking of the preliminary)

I'm sticking with the AON and r/s key method of inputting text for the moment- I may eventually make a getkey version that will use an alpha layout similar to the 32Sii.

Re: Well, some synthetic programming is possible
*Message #10 Posted by **christof** on 8 Feb 2003, 12:12 a.m.,*
in response to message #4 by Gene

blah, blah. okay, maybe it is "synthetic", maybe it is "entry points". whatever. It works.

now, this XFCN... does anyone know more about it? It supposedly will execute na external ML routine, but how does one manage this?

Re: Well, some synthetic programming is possible
*Message #11 Posted by **HrastProgrammer** on 8 Feb 2003, 12:46 a.m.,*
in response to message #10 by christof

Read the following article on this site:

HP-42S: New Facts

Many thanks to J-F Garnier ...

Re: Well, some synthetic programming is possible
*Message #12 Posted by **Christof** on 8 Feb 2003, 3:43 a.m.,*
in response to message #11 by HrastProgrammer

Ah, I'd forgotten about that one.

onward, I know we haven't discovered everything yet.

Re: HP 41CX vs HP 42s
*Message #13 Posted by **Vieira, Luiz C. (Brazil)** on 7 Feb 2003, 10:02 a.m.,*
in response to message #1 by Alan Claughan (South Africa)

Hi;

One of the most important difference that must be taken into account in this particular subject is related to memory structure and registers. In the HP42S the access to all memory is achieved by using a sort of mapping, and system access to memory positions is different than the one used in the HP41, that has fixed positions for each system resource. This is mostly because in the HP42 we may have a complex number, a matrix descriptor and a real number in each of three available stack registers, and their size differ from each other. Then there is no way to fix an specific number of bytes for each stack register, unless you use the maximum required for the largest object, what would be a waste of memory. As a test you may check for available memory and recall a matrix descriptor to the X-Register and check again to see the difference. Then you copy it in Y, Z and T with [ENTER^] and check again: no memory consumed for the copies. But if you fill the stack with different objects, remaining memory decreases for each entry.

This suggests that in this particular case, stack registers contents are related to pointers instead of the object contained there. This is a major difference. And when we think of ALPHA register and the registers tht compose it in the HP41 (M, N, O and P, if I am not wrong) there should be the equivalent RCL M, RCL N and so in the HP42S. Even if you build the equivalent bytes for

these instructions in the HP42 (what is a lot easier than in the HP41), I am almost sure you will not have a STO N or RCL e because these registers addresses are meaningless for the HP42S. The new structure does not demand their existence. That's why Gene mentioned you cannot put these instructions in the HP42S, but their equivalent byte codes may be placed in a program by using the built-in memory browser (do you know how to get it active?).

Gene's suggestion is a good starting point for those who already know Synth programming.

Hope you found what you needed. And if you delve into the HP42's resources and find something new, tell us about it... Cheers.

Re: HP 41CX vs HP 42s
*Message #14 Posted by **John Smith** on 7 Feb 2003, 10:12 a.m.,*
in response to message #13 by Vieira, Luiz C. (Brazil)

Have a look at this very interesting thread:

Thread on HP42S synthetics, map memory, etc

There are 18 messages in all. Remember to go to the very beginning of the thread.

A "must see" thread, indeed
*Message #15 Posted by **Vieira, Luiz C. (Brazil)** on 7 Feb 2003, 3:22 p.m.,*
in response to message #14 by John Smith

Hi, John;

this is a very interesting set of information about the 42S subject. Thank you for the valuable link.

Best regards.

Re: HP 41CX vs HP 42s

*Message #16 Posted by **Gray Wilson** on 8 Feb 2003, 9:03 a.m.,*

in response to message #1 by Alan Claughan (South Africa)

Educalc apparently offered a guide to synthetic programming on the 42S --

Stock #TN24, HP42S Synthetic Programming .....Free

See http://groups.google.com/groups?hl=en&lr=&ie=UTF-8&threadm=1990Dec10.175301.16716%40mlb.semi.harris.com&rnum=1&prev=/groups%3Fhl%3Den%26lr%3D%26ie%3DUTF-8%26selm%3D1990Dec10.175301.16716%2540mlb.semi.harris.com

Does anyone have a copy of this guide? Does it add anything that's not already known?

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hp keys
*Message #1 Posted by **Steve (KY USA)** on 6 Feb 2003, 9:58 p.m.*

I just received a hp 32sII the other day and it is mey first from Singapore with the double struck keys and the differrence is remarkable!

Re: hp keys
*Message #2 Posted by **Paul Brogger** on 7 Feb 2003, 12:33 p.m.,*
in response to message #1 by Steve (KY USA)

Right. The double-shot Pioneer keyboards are works of technical, user interface artistry unmatched in the field of handheld (electronic) devices.

If & when you get a chance, check out the "original" HP-32s keyboard -- much less cluttered and the key legends every bit as graceful and carefully rendered. And the HP-42s is the the best -- a marvelously clear, crisp and uncluttered instrument panel, if ever there was one!

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more docco needed
*Message #1 Posted by **Christof** on 6 Feb 2003, 7:04 p.m.*

So, I've finally got the composite video fixed on the 86B, and it works fine :)

this time, all applicable manuals for the 86B. If anyone knows where scans are for that- I've been through series80.org and haven't found them.

again, if someone has spares or photocopies, I'm willing to scan for Dave.

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A little classical RPN challenge
*Message #1 Posted by **Ex-PPC member** on 6 Feb 2003, 9:44 a.m.*

Hi everybody, here's another little challenge, this time having to do with classical RPN, so most of you will be able to give it a think.

The Challenge:

1) Starting from this initial stack arrangement (where A, B are some arbitrary values), to reach this final arrangement, in a **minimum** number of steps:

```
T    -              T    -
Z    -              Z    B
Y    B      ->      Y    B
X    A              X    A
```

2) Same for this other case:

```
T    -              T    B
Z    -              Z    A
Y    B      ->      Y    B
X    A              X    A
```

You can use any functions and operations whatsoever available in your RPN calc, as long as you do it in a **minimum** number of steps, the solution asked for is the one that delivers the goods in as few steps as possible, notwithstanding concerns of efficiency, usability, etc. Remember, this is intended to be challenging and fun, not necessarily practical.

For the HP-15C & HP-11C, there are several solutions in as few as **three** steps for case (1) and **four** steps for case (2) above, and I'm confident those sames solutions are likely to also work on an HP-34C, HP-67, HP-41C, HP-42S and many other models, though I can't confirm it right now.

Flex your RPN muscles and give it a try ! The best answer posted within 96 hours gets (by e-mail) a good-quality scan of a very old, very rare, frankly bizarre HP calc brochure.

Well, for the 41c...
*Message #2 Posted by **Gene** on 6 Feb 2003, 9:53 a.m.,*
in response to message #1 by Ex-PPC member

Try this for #1

RCL Y X<>Y

2 steps

But you said the 11c / 15c variety, which don't include the RCL stack command. Continuing to think... but only have a 12c handy.

Re: Well, for the 41c... still
*Message #3 Posted by **Vieira, Luiz C.** on 6 Feb 2003, 10:34 a.m.,*
in response to message #2 by Gene

For case two:

RCL Y RCL Y

And we have it in two STEPS (four bytes, instead)

Hope this helps

Re: Well, for the 41c... still
*Message #4 Posted by **Ex-PPC member** on 6 Feb 2003, 11:42 a.m.,*
in response to message #3 by Vieira, Luiz C.

Thanks for the answers for the HP-41C (also valid for the HP42S) but of course, the challenge is for machines having classical RPN stack but no STO/RCL/X<> functions addressing stack registers (STO Y, RCL T, X<>Z, etc).

Else, it wouldn't be much of a challenge, indeed ...

See if you can find a minimum solution for machines such as the HP-10C/11C/15C ..., HP-25/27/29C ..., HP-34C, HP-67, HP-91/92/97 ..., etc, or even for the 41C/42S but avoiding the use of stack addressing for STO/RCL/X<>

ACK
*Message #5 Posted by **Vieira, Luiz C. (Brazil)** on 6 Feb 2003, 11:52 a.m.,*
in response to message #4 by Ex-PPC member

The answers would be restricted to two models, indeed.

Possible solutions for 11C
*Message #6 Posted by **Michael F. Coyle** on 6 Feb 2003, 5:27 p.m.,*
in response to message #4 by Ex-PPC member

For the first case (A B B -) I can't get it below four steps: [ENTER] [ENTER] [+] [R Down] I have another solution in four steps as well.

For the second case (A B A B) I have: [f CLEAR REG] [Sum+] [RCL Sum+] [RCL Sum+]

Looking forward to seein a better solution to #1, - Michael

But that would leave...Re: Possible solutions for 11C
*Message #7 Posted by **Gene** on 6 Feb 2003, 5:48 p.m.,*
in response to message #6 by Michael F. Coyle

THe stack after your (1) solution would be

A+B B B A

Do the rules allow the T level of the stack to be A+B?

I took the original instructions to imply it should hold a zero or whatever it held originally.

Good solution anyway! Gene

Re: But that would leave...Re: Possible solutions for 11C
*Message #8 Posted by **Michael F. Coyle** on 6 Feb 2003, 8:35 p.m.,*
in response to message #7 by Gene

Hi Gene,

It wasn't specified in the rules. I took the dashes "-" as "don't-cares" whose values were unimportant. But that's just my interpretation.

- Michael

Re: Possible solutions for 11C
*Message #9 Posted by **Vieira, Luiz C. (Brazil)** on 6 Feb 2003, 6:45 p.m.,*
in response to message #6 by Michael F. Coyle

Hi;

this was post a few hours ago.

But there is one problem: [CLEAR] [E+] also clears the stack registers contents in the HP11C and in many other calculators, so one should input A and B after clearing statistics registers with [f] [CLEAR] [E+].

Maybe the post is not so easy to view because it is not exactly in this branch of the original thread.

Re: Possible solutions for 11C
*Message #10 Posted by **Michael F. Coyle** on 6 Feb 2003, 8:47 p.m.,*
in response to message #9 by Vieira, Luiz C. (Brazil)

Hi Vieira,

I didn't read any of the replies before because I wanted to try it on my own without peeking at the answers, so to speak.

You're right about [CLEAR] [E+] clearing the stack. The 11C's [f CLEAR REGS] clears memory but leaves the stack untouched, so it's safe to use after the numbers are put on the stack.

Thanks for your reply.

- Michael

I forgot to mention...
*Message #11 Posted by **Vieira, Luiz C. (Brazil)** on 6 Feb 2003, 9:38 p.m.,*
in response to message #10 by Michael F. Coyle

... that your solution is better than mine because of this: [f][CLEAR][REG] is not destructive in relation to stack contents. The fact is that your solution works everytime, mine doesn't.

Thank you.

Best regards.

Re: A little classical RPN challenge
*Message #12 Posted by **Vieira, Luiz C. (Brazil)** on 6 Feb 2003, 1:39 p.m.,*
in response to message #1 by Ex-PPC member

Provided the calculator has [RCL][E+] (both HP41 and 42 don't have), where [E+] is the summation key, and [CLE] (Clear Statistics) is executed prior to A and B input (too much rules, I know):

```
[E+]
[RLC][E+]   (case 1 stops here)
[RLC][E+]   (case 2 stops here)
```

With the HP55, [RCL][E+] overwrites both X- and Y-Register contents (maybe others do, I don't know) while others lift the stack one time, leaving previous Y-contents unchanged and moved up to Z-register. In the HP55, we have:

```
[E+]
[ENTER^]
[RLC][E+]   (case 1 stops here)
[ENTER^]
[ENTER^]
[RLC][E+]   (case 2 stops here)
```

To be honest, I didn't like these solutions: needs a lot of memory (all statistical registers must be present)

But it works...

Proof of the superiority of RPL
*Message #13 Posted by **Glen Kilpatrick** on 6 Feb 2003, 7:43 p.m.,*
in response to message #1 by Ex-PPC member

Hah! All you need for these is the right "O/S":

[1] OVER SWAP

[2] DUP2

And having poured gasoline on the fire, I'll just step back a few, uhhh, thousand, kilometers :).

Re: Proof of the superiority of RP...N!
*Message #14 Posted by **Andrés C. Rodríguez (Argentina)** on 6 Feb 2003, 7:58 p.m.,*
in response to message #13 by Glen Kilpatrick

If you relax the challenge constraints (which are part of the fun), RPN does better than RPL: someone already posted

RCL Y

X<>Y

(two steps)

Within the problem constraints, I am still looking for a better way than:

0) Starting with X Y Z T = a b p q

1) Roll Down produces X Y Z T = b p q a

2) Roll Down produces X Y Z T = p q a b

3) "+" produces X Y Z T = (p+q) a b b

4) Roll Down produces X Y Z T = a b b (p+q)

... q.e.d.

Since this "hole" is Par 3, I am still one over par (4 steps), so this is a Bogey; I asume the (p+q) term in the T register does not violate the constraints.

Note that RPL, among other curses, will not allow for the automatic T register replication used in

step 3, and probably will "nag" at you many times while you tinker about this challenge.

3 steps, but with one question....
*Message #15 Posted by **Andrés C. Rodríguez (Argentina)** on 6 Feb 2003, 8:30 p.m.,*
in response to message #14 by Andrés C. Rodríguez (Argentina)

I don't have any calculator which has the "RCL E" (RCL sigma) function, but if "RCL E" has the effect of pushing the stack two levels up; then my previous example could be converted in:

0) Start with X Y Z T = a b p q

1) RCL E produces X Y Z T = v w a b,

where v and w are the contents of the x-sum and y-sum registers, which value doesn't matter, the only issue is to push the stack two levels up.

2) "+" produces X Y Z T = (v+w) a b b,

due to T register replication feature of RPN

3) Roll Down produces X Y Z T = a b b (v+w)

... q. e. d. in 3 steps

This will not work in my late HP25, nor in my HP41 or HP42; but perhaps it does in the HP11, 15, etc...

Re: 3 steps, but with one question....
*Message #16 Posted by **Michael F. Coyle** on 6 Feb 2003, 8:40 p.m.,*
in response to message #15 by Andrés C. Rodríguez (Argentina)

Hi Andrés,

Good solution! It does work on the 11C.

- Michael

Re: 3 steps, another option
*Message #17 Posted by **Andrés C. Rodríguez (Argentina)** on 6 Feb 2003, 8:50 p.m.,*
in response to message #16 by Michael F. Coyle

1) CLR SIGMA (or CLR REGS)

2) E+,

Note that after the Sigma instruction, Y is preserved, X is replaced by a count, which in this case will be 1, and stack lift is NOT enabled...

3) RCL SIGMA

In an HP25, it would take two steps: RCL 4 and RCL 7...

Actually, if cleared registers could be assumed as a starting point, it could be one less step (Birdie)

Re: 3 steps, another option
*Message #18 Posted by **Vieira, Luiz C. (Brazil)** on 6 Feb 2003, 9:46 p.m.,*
in response to message #17 by Andrés C. Rodríguez (Argentina)

Hola, Andrés;

as posted by Michael, [f][CLEAR][REG] is better because [f][CLEAR][SIGMA] will clear stack registers' contents in almost all RPN calculators. And both HP41 and HP42 do not have a [RCL][SIGMA+], what is too bad!.

Best regards, my friend. Good reading your posts again.

Re: 3 steps, another option
*Message #19 Posted by **Andres Rodriguez** on 7 Feb 2003, 5:16 p.m.,*
in response to message #18 by Vieira, Luiz C. (Brazil)

Luiz: Thank you for your greetings, I have been very busy in the last weeks.

At least in my limited experience, CLEAR SIGMA should not affect the stack contents; in fact, in the very good HP41 emulator I have in my PDA it keeps the stack untouched; later today I will check in my "real" HP41C and HP42S, but I don't have them at hand right now. I cannot think there is a reason for CLEAR SIGMA to clear the stack...

CLEAR SIGMA and the stack
*Message #20 Posted by **Andrés C. Rodríguez (Argentina)** on 8 Feb 2003, 9:22 a.m.,*
in response to message #19 by Andres Rodriguez

I have tried a friend's HP27 (Woodstock), my HP41C, my HP42S, my daughter's HP32Sii, and also eV41 on my HP/Compaq WindowsCE-based PDA, and have not found an example of CLEAR SIGMA affecting the stack contents....

Re: CLEAR SIGMA and the stack
*Message #21 Posted by **Vieira, Luiz C. (Brazil)** on 8 Feb 2003, 10:22 a. m.,*
in response to message #20 by Andrés C. Rodríguez (Argentina)

Hola, Andrés;

you are correct: CLEAR [SIGMA] clears stack contents of all Voyagers (the worst case is the HP12C where CLEAR REG clears everything but programs) and I also tested in the HP55 (classical) and the stack is cleared with any of both: CLR and CL.R. Both HP67 and 97 do not have an specific CLEAR [SIGMA] and CLREG is used so far. In the HP41 and HP42 it does not happen because they have CLST, not available in any voyager. I do not know about the HP27 and the HP32SII.

What I still wonder about is the LASTx contents: the only one I tested that effectively has LASTx contents cleared after CLEAR REG is the HP12C. I did not test all of them, but all other Voyagers, any HP41, the HP42 and the HP55 keep LASTX contents after any clearing function.

Weird...

Cheers.

Re: CLEAR SIGMA and the stack
*Message #22 Posted by **Sambonator** on 8 Feb 2003, 6:05 p.m.,*
in response to message #21 by Vieira, Luiz C. (Brazil)

On the HP 27, clear sigma does not clear the stack. Neither does that function clear the stack on the 32S and 32SII. Sam

Re: CLEAR SIGMA and the stack
*Message #23 Posted by **Vieira, Luiz C. (Brazil)** on 8 Feb 2003, 9:22 p.m.,*
in response to message #22 by Sambonator

Hi;

I have a Woodstock HP27 in hands (does not belong to me) I just brought back to life and I looked at the keyboard and saw a [CLEAR][STK] ([f][CLx]), what explains the fact that [CLEAR][SIGMA] keeps stack contents unchanged. Also I remember the HP32S has the ST option at the CLEAR menu; maybe the HP32SII has this option, too.

I believe that, with a few exceptions, calculators that have a [CLEAR][STACK] command/function have the stack contents unchanged when [CLEAR][SIGMA], if available, is performed. As none of the Voyagers have a [CLEAR][STACK] command/function, [CLEAR][SIGMA] also performs a [CLEAR][STACK]. As for the classic models, I can only speak for the HP55, that has the stack contents cleared after CL.R or CLR. In the HP67 manual, p. 80, it's explained that the user should enter 0 and press [ENTER^] three times to clear the entire stack and that [f][CL REG] does not affect its contents.

Wow! That's what I call a thread to exhaust a particular theme.

Cheers.

Re: 3 steps, but with one question....
*Message #24 Posted by **Andrés C. Rodríguez (Argentina)** on 6 Feb 2003, 8:52 p.m.,*
in response to message #16 by Michael F. Coyle

Thank you, I liked your solution to #2

Re: RPN challenge -- Not quite 3 steps, but a solution to the general problem . . .
Message #25 Posted by ***Paul Brogger*** *on 7 Feb 2003, 3:23 p.m.,*
in response to message #1 by Ex-PPC member

Maybe someone can program a solution to the **general problem** in fewer steps?

Given any values in *x*, *y*, *z*, *t* & *last x*, return the four stack registers with any of those values present in ***any*** **arbitrary sequence** of selection and/or repetition, as specified by the user (or with slight adaptation, by another program).

```
A01  LBL A        "XEQ A" to start "The Scrambler"


A02  STO B        x will be referred to by "1"
A03  Roll Down      access y
A04  STO C        y will be referred to by "2"
A05  Roll Down      access z
A06  STO D        z will be referred to by "3"
A07  Roll Down      access t
A08  STO E        t will be referred to by "4"


A09  last x         access last x
A10  STO F        last x will be referred to by "5"
A11  STO G                  . . . or "6"
A12  STO H                    . . . or "7"
A13  STO I                      . . . or "8"
A14  STO J                        . . . or "9".


A15  0            access zero
A16  STO A          zero will be indexed as "0"


A17  INPUT V      input the desired sequence vector
A18  RCL V        first,
A19  ABS             insure not negative
A20  IP                 and no fractional part
A21  STO V                 in vector.


A22  XEQ V        obtain specified t value
A23  XEQ V        obtain specified z value
A24  XEQ V        obtain specified y value
A25  XEQ V        obtain specified x value
```

```
A26  RTN


V01  LBL  V       use low-order digit of V to obtain next register


V02  10           need ten to obtain a digit
V03  STO / V      shift V one digit right
V04  STO  i         and preset index register
V05  ROLL DOWN        keep stack from overflowing


V06  RCL  V       obtain shifted vector
V07  FP             reduce to newly-obtained digit
V08  STO - V           and remove that from V
V09  STO * i              while restoring it as an integer
V10  ROLL DOWN              prevent stack overflow


V11  1             need to increment index by 1
V12  STO + i         to keep from (unfortunate) error
V13  ROLL DOWN         prevent stack overflow


V14  RCL (i)       recover next value desired


V15  RTN
```

With any values in the stack & *last x*, XEQ A.
It'll prompt for a “V” value.
Enter four digits in *x*, *y*, *z*, *t* sequence, specifying any desired choice of register values using the following encoding:

```
   0 == zero (cleared)
   1 == original x value
   2 == original y value
   3 == original z value
   4 == original t value
 5-9 == original last x value
```

Whatever is entered (I hope!), the low-order four digits of the integer portion are interpreted as a specification of which values are wanted where, and the stack is returned in the condition so indicated.

This was programmed on an HP-32SII, and (if I've transcribed everything correctly) "MEM" shows LBL A = 39.0 bytes, LBL V = 22.5 .

With a few demands added regarding proper user behavior, some of the normalization and error prevention lines could be removed . Deleting lines A11-14 and A18-21 reduces the LBL A footprint to 27.0 bytes. (This, then, requires the user to enter a positive integer, and to use only codes "0"-"5".)

To make it work as a subroutine (who on *earth* would bother?), simply delete line A17 and XEQ A from elsewhere.

And . . .

with regard to the two special cases posed by **Ex-PPC member**, one would XEQ A and enter "122n" (where "n" is any decimal digit) to achieve the first, or "1212" to satisfy the second.

-- "It is thus", cried Alexander, "that I untie *all* Gordian knots!"

Roll-Stack Population Register _aka_ Stack-only Solution in Three Steps
*Message #26 Posted by **Glen Kilpatrick** on 8 Feb 2003, 11:04 a.m.,*
in response to message #1 by Ex-PPC member

I accidentally discovered this last night, present it for mutual amusement. I don't consider it a "real" solution to the presented problem, but instead more of a disclosure of an incompletely presented RPN (by HP, no less! :).

I recently got a 17Bii from Randy Sloyer (THANKS!), and it differs from a 17B primarily in having RPN (so they say, but read on). So carefully follow the bread crumbs below to See What Happens:

[A] Shift MODES RPN ---> see RPN MODE

[B] Shift CLEAR DATA ---> 0.00

[C] ((((---> 0.00 repeated, just like you'd expect; note that in RPN mode, "(" is the Stack Roll Down.

[D] 4 INPUT 3 INPUT 2 INPUT 1 ((((---> yept, Life Is Good, see 1.00, 2.00, 3.00, & 4.00

[E] v & ^ ---> Roll Down & Roll Up work just like we're familiar with; note these are the all-purpose roll keys between the Shift and the INPUT keys.

[F] Shift CLEAR DATA 1 v v v ---> hmmm, all we see are 1.00, this doesn't seem right.

[G] Shift CLEAR DATA 2 INPUT 1 v v v v v ---> alternating 2.00 & 1.00, _no_ zeros.

[H] Shift CLEAR DATA 3 INPUT 2 INPUT 1 v v v v v ---> 2.00, 3.00, 1.00, 2.00, 3.00 ..., and this is beginning to make sense (^ gives you the opposite sense, confirms the stack roll goes up too).

So [F] through [H] show you that the stack is not a constant four levels TZYX, but instead starts out at one level, and is "populated" as appropriate.

[I] Shift CLEAR DATA) 1 v v v v v ---> 0.00, 0.00, 1.00, 0.00, 0.00, 1.00 ...; ")" or X<>Y seems to be the exception, SWAP populates levels 1 & 2 (RPL terminology seems more appropriate now), and a numeric entry pushes them up to 2 & 3.

Having now presented the rationale (and examples for those not endowed with a 17Bii), I present a three-step, stack-only solution to the original problem [1] B A ---> B B A:

Shift CLEAR DATA "B" INPUT "A" ---> Setup of initial conditions; we now have a two-stack, B over A.

^ or v or (---> we now have a two-stack, A over B

INPUT ---> three-stack, A over B over B

^ ---> voila!, B over B over A (and indeed, we don't care about the "T" register, it's not yet been "invented".

[J] + + + + + + v v v v v ^ ^ ^ ^ ---> 8.00 repeated (remember, we're coming from the Z:3 Y:3 X:2 of above, and I use those "levels" loosely); those two additions appear to "consume" levels 3 & 2, so that we're left only with level 1 (not exactly RPL behavior, the third "+" would error with it).

This experiment appears to suggest an alternate and cleaner view, that we really are adding repeatedly "0.00" to X, and that we really have an empty T-register (and four stack levels, whew, we're back to RPN). However, there's a "Roll-Stack Population Register" somewhere that advises the roll keys how high to roll. On a true RPN this would always be "four", but on a 17Bii it apparently can be anything between one and four.

[K] 4 INPUT 3 INPUT 2 INPUT 1 + + + + + + + + ---> 3.00, 6.00, 10.00, 14.00, 18.00, 22.00 ...; now *this* is our familiar T-register (RPN) behavior.

Conclusion: Until you have all four levels populated (that is, your Roll-Stack Population Register is four), don't trust your 17Bii to Roll in true RPN fashion.

Perhaps somebody with a 19Bii can advise how faithful its RPN behavior is.

P.S. My hat's off to Paul Brogger for his "Re: RPN challenge -- Not quite 3 steps, but a solution to the general problem . . . ", most amazing. As I don't have a true RPN (and 17Bii's don't do procedural programming anyway), I can't test it, only admire it.

Re: Roll-Stack Population Register _aka_ Stack-only Solution in Three Steps
*Message #27 Posted by **Vieira, Luiz C. (Brazil)** on 8 Feb 2003, 1:41 p.m.,*
in response to message #26 by Glen Kilpatrick

Hi, Glen;

Yes, the HP17BII (and the HP19BII as well) have a 1-to-4 level stack. It may contain from one to four numbers stored on it,and when you clear it, it will contain only one register - the X-register - with a [0.00]. Try this:

```
[•][CLEAR DATA]          ([•] is the shift key)
0 [INPUT][INPUT][INPUT] 4 (any number)
[(][(][(][(]
```

What do you see? You now have the four stack-registers. If you simply clear data and enter 4 (any number), there will be only the X-register and the number 4.00 stored in there.

If you enter only three numbers, [(] (or roll-down) will roll only these three registers. And it happens the same in the HP19BII.

There is a small book that came with my HP19BII only to explain RPN and the differences between the HP19B and the HP19BII. I can scan it (it's just a few pages) but I must tell you it's written in Spanish.

Cheers.

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Hepax Mem2 / HP67CX
*Message #1 Posted by **Emergix** on 6 Feb 2003, 8:34 a.m.*

There is an ebay HEPAX MEM 2 :http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&category=11713&item=3005985492

Whwen I look at the performances : 3916 register ! it is even superior to the "new HP 67 CX" at http://209.197.117.170/item/product2.htm

I think we need to review up the specs of the HP 67 CX, because it is already put in the dust by a HP-41 with hepax mem 2 old of 15 years !

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Gold on HP Partsurfer? (Sorry - no!)
*Message #1 Posted by **Johnny Bjoern Rasmussen** on 6 Feb 2003, 1:58 a.m.*

Hi I surfed around on HP Partsurfer (http://partsurfer.hp.com/cgi-bin/spi/main go to "Other Products" and "Calculators"), and thought that I had struck gold once more (Yes I was the "Found out that there was some left over HP-42S in stock"-guy!). It seemed that several calculators still were in stock. It concerned the following partnumbers and calcs;

00010-60914 - HP-10C calculator

00028-60901 - HP-28C calculator

00028-60902 - HP-28S calculator

00031-69001 - HP-31E calculator

00031-69002 - HP-31E calculator

00032-60911 - HP-32S calculator - Used as replacement for 31E calculator - Also need to order 32S manuals

00032-60904 - Replacement for 00032-69002 (was partnr. 00032-69002 32E calculator)

00033-60907 - Replacement for 00033-69003 (was a replacement for 00032-69001, that again was a replacement for 00032-69001 32SII calculator) (<<< This replacement history is not quite understable for me???)

00033-69001 - HP-33E calculator

00033-69002 - HP-33E calculator

00034-60903 - HP-34C calculator

00037-60903 - HP-37E calculator

But sadly my HP Parts supplier cannot buy these partnumbers, appearently because she is a "printer only" parts supplier. So I hope that anyone else out there can buy the calcs and the piles of accessories that also figures on HP Partsurfer.

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Is this Dave's HP-35 pic on ebay?
*Message #1 Posted by **Gene** on 5 Feb 2003, 11:05 p.m.*

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3005106467&category=11713

Looks like his pic of the V4 HP-35.

No attribution given, if so.

Re: Is this Dave's HP-35 pic on ebay?
*Message #2 Posted by **Bert** on 6 Feb 2003, 3:37 a.m.,*
in response to message #1 by Gene

It is a MoHPC pic.

Thanks
*Message #3 Posted by **Dave Hicks** on 6 Feb 2003, 9:48 p.m.,*
in response to message #1 by Gene

I asked him to credit them and he did.

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41 display cleaning
*Message #1 Posted by **Randy Sloyer** on 5 Feb 2003, 10:33 p.m.*

I have a CV full-nut that I'm trying to clean up. It's down to a very annoying black dirt chunk stuck right in the middle of the display. It appears to be on the lens, not the LCD, and no matter how I blast the duster in there, it will not move. Any suggestions welcome.

If I get desperate, can the LCD assembly be removed with the desoldering of the 16 leads? Any dangers/cautions for doing this?

Re: 41 display cleaning
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 6 Feb 2003, 12:15 a.m.,*
in response to message #1 by Randy Sloyer

Hi, Randy;

a few weeks ago, I sent a large PDF file to David Hicks with scanned images Actual view) showing how to remove the fullnuts' LCD in a step-by-step procedure.

I'll upload it in a site but I personaly preffer sending an e-mail with the downaloading address to those who want the file. The site is not my own, so I must be care.

Gimme a couple of minutes and I'm sending you an e-mail, O.K.?

Anyonwe else? (I'll send e-mails with this address to regular MoHPC contributors and visitors only; sorry, folks)

Cheers.

Re: 41 display cleaning
*Message #3 Posted by **Christof** on 6 Feb 2003, 2:11 a.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

Luiz- I can put the pics and any notes up on my webserver.

the bandwidth isn't really great, but I don't figure more than a few dozen people really care about this level of interaction, so I won't get /.'d offline :)

Re: 41 display cleaning
*Message #4 Posted by **Vieira, Luiz C. (Brazil)** on 6 Feb 2003, 3:39 a.m.,*
in response to message #3 by Christof

Hello, Christof;

I'm sending you an e-mail with the file's location. Would you, please, download it and have a look? I believe some procedures always involve risks to the equipment or even to the technician, and we must be aware of those who will attempt to do what is suggested without following the safety precautions. The procedure contained in the PDF doc does not contain the descrition of necessary precautions and measures to be taken. I think they must be added prior to allow the document to be released.

Would you check for this possibility, please? I'll add the necessary recomendations and upload the final version so you can "holst" it for as long as you wish; deal?

Thank you very much for your offer. (sometimes I think we should give David Hicks a resting time and offer a bit of our own space for some experiments, like this one; David has been doing a lot for us, don't you think?)

Best regards.

Re: 41 display cleaning
*Message #5 Posted by **Chris(FLA)** on 6 Feb 2003, 11:30 a.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

Vieira,

Can you send me this info also. I have a 41C and a donor display that I would like to use to fix the 41 but have been worried about doing this without experience in this procedure.

I don't want to kill my 41 :)

Thanks,

Chris

Re: 41 display cleaning
*Message #6 Posted by **Dave Shaffer** on 6 Feb 2003, 1:28 a.m.,*
in response to message #1 by Randy Sloyer

Randy,

Check out this old discussion (from archive 6): http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/archv006.cgi?read=10212

where Tony Duell and I exchange ideas and results.

Good luck - and be carefull!

I read the posts mentioned by Dave Shaffer and..
*Message #7 Posted by **Vieira, Luiz C. (Brazil)** on 6 Feb 2003, 1:44 a.m.,*
in response to message #1 by Randy Sloyer

... I must agree it is a lot safer than removing the LCD assy (dessoldering).

I have successfuly removed fullnuts LCD's for three times in order to replace dammaged units. But it was in specific conditions: everything (soldering iron, my wrist, calcualtor's contacts) electrically connected to the same condutive grounded reference.

Hope you have success!

Thanks, Dave.

Re: 41 display cleaning
*Message #8 Posted by **Randy Sloyer** on 6 Feb 2003, 9:14 a.m.,*
in response to message #1 by Randy Sloyer

Thanks to all for the responses. Once again, many great nuggets of knowledge buried in the archives. I was hoping someone could point me in the right direction!

Thanks, Luiz for the pdf file.

Now, if there was some way to index the archives and strap a search engine on the resulting database...

Ooops...
*Message #9 Posted by **Vieira. Luiz C.** on 6 Feb 2003, 10:30 a.m.,*
in response to message #8 by Randy Sloyer

I heard it before...

Re: 41 display cleaning
*Message #10 Posted by **David Smith** on 6 Feb 2003, 6:03 p.m.,*
in response to message #1 by Randy Sloyer

You might want to try feeding a slip of paper undr the display and trying to knock off the dirt. I try this before I resort to the desoldering station. Sometimes you need to feed it from the side, others from the top. Sometimes helps to fold the end you insert over to give you some better brushing action. Works around 90 percent of the time for me. I also have a thin piece of plastic (teflon, I think) that works even better.

If you have to unsolder the display only unsolder the conenctions to the keyboard. Avoid melting the top screw posts. Be careful of the connections to the back of the LCD cricuit board. Many times these are just barely making contact (and are often open circuits in "dead" machines. When working on machines I always go down the row of display pins with a metal probe and gently tug on each one looking for bad connections.

Finally, make sure you remove all the solder flux. Displays that only display when a key is held down are often caused by residual solder flux. Keep alcohol off the clear display window, otherwise you will be removing the display again to polish off the white stain it causes.

Re: 41 display cleaning

*Message #11 Posted by **Randy Sloyer** on 6 Feb 2003, 7:25 p.m.,*

in response to message #10 by David Smith

Thank you David! I was about 10 minutes away from heating up the Pace station and taking the plunge.

I used a piece of brown paper that had a little backbone to it and it worked like magic.

The older I get, the more I realize patience is truly underrated. Of course it helps to have Dave hosting this site to put us all in touch with the collective brain trust of HP calculator restoration.

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Back issues of Datafile available
*Message #1 Posted by **Wlodek Mier-Jedrzejowicz** on 5 Feb 2003, 8:58 p.m.*

I'm not sure whether to post this in the Classified area or the discussion area ;-)

Now that Jake Schwartz has scanned to CD-ROM Volumes 1 to 20 of our British HP handhelds club journal Datafile, we have less need for our stock of printed back issues. We are going through back issues, trying to make up some complete sets. But then we'll have lots of spare copies of some issues, and we don't want to throw them away if anyone has a use for them.

The question is - does anyone here need complete sets or spare issues? I guess someone might find a use for 60 spare copies of an issue that we overprinted - maybe for a school class?

We are thinking of _selling_ complete year sets of back issues, but would consider giving away spare issues which would otherwise get thrown out. You would have to collect them from London, or pay for shipping, though.

Comments and requests welcome. I can put a table of our stock on our club website if there is enough interest. Or should we put them all on eBay? :-)

Thanks,

Wlodek

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Another Price War
*Message #1 Posted by **Pyerre** on 5 Feb 2003, 8:27 p.m.*

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3004518644&category=11713

Re: Another Price War
*Message #2 Posted by **David Smith** on 7 Feb 2003, 6:02 p.m.,*
in response to message #1 by Pyerre

Holy Cojones Batman! ... I paid $55 for mine...

Re: Another Price War
*Message #3 Posted by **notdamomma** on 9 Feb 2003, 11:10 a.m.,*
in response to message #1 by Pyerre

I'd love to have gotten this for less, but it was the one I wanted and already had many of them taken away from me by collectors with big bucks and little common sense! It was also the nicest condition of any I've ever seen.

over-Price War guilt
*Message #4 Posted by **db(martinez,california)** on 9 Feb 2003, 6:13 p.m.,*
in response to message #3 by notdamomma

if you do three hail marys and an our father then god will forgive you.

if you use it every day the commulity will forgive you.

i didn't bid on it so i forgive you already.

glad you got what you wanted. nice keyboard isn't it?

Enjoy It !

*Message #5 Posted by **Pyerre** on 9 Feb 2003, 9:28 p.m.,*

in response to message #3 by notdamomma

Two months ago, I've also got one by chance, box sealed from an old bookstore at a "no_one_wants_it_anymore"'s price. The HP34C is a real nice calculator. Hope you enjoy it.

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Why get Emu48CE for free when you could buy it?
*Message #1 Posted by **RP** on 5 Feb 2003, 5:41 p.m.*

zeevhe@013.net.il is selling Emu48CE (HP 48 emulator for PocketPC) at handango! Doesn't this break about a dozen laws? Is anyone else as disgusted as I am about this?

http://www.handango.com/PlatformProductDetail.jsp?siteId=1&jid=DXDB17D6F2FA3428398X458XBC635625&productId=46410&optionId=1_2_2&productType=2&catalog=30&txtSearch=hp48&sectionId=0&platformId=2

(If the above link doesn't work, just search for "hp48" on handango's site)

For those who may not be aware, Emu48CE is freely available here: http://www.hpcalc.org/hp48/pc/emulators/emu48ce.exe

The kml shown at handango is available here: http://www.hpcalc.org/hp49/pc/emulators/emu-ppc48-49.zip

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42s REGS Variable Missing
*Message #1 Posted by **Kris Collins** on 5 Feb 2003, 5:40 p.m.*

One of my 42's has no REGS variable. It's the oldest calc of the group. The other 42's have the variable. The first 42 shows more memory as a result. What gives?

Re: 42s REGS Variable Missing
*Message #2 Posted by **Gene** on 5 Feb 2003, 5:54 p.m.,*
in response to message #1 by Kris Collins

The "REGS" variable can be cleared/deleted by the CLV function.

You can do a SIZE and create it again.

You can also get a default sized REGS variable by doing a master clear, but that's slightly more drastic. :-)

Try the SIZE command and see if that works.

Re: 42s REGS Variable Missing
*Message #3 Posted by **Richard Garner** on 5 Feb 2003, 5:55 p.m.,*
in response to message #1 by Kris Collins

Do a "SIZE 25" that should bring it back. What happened was the storage registers somehow got resized to "0". Hope this helps.

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Advice needed: 29C Problem

*Message #1 Posted by **Don Davis** on 5 Feb 2003, 3:58 p.m.*

I have an HP-29C which does not show any display at all. The previous owner stated that it did work the last time he used it, but the battery pack was dead. When I replaced it with a good pack, I still get no display at all. The original batteries were badly corroded, and I fear he may have plugged in the AC adaptor and damaged it.

Anyway, can anyone comment on the failure mode? I know that there are particular chips in this beast which are likely to be fried if the voltage is allowed to spike at all. In this case, is the failure mode no display at all, or is it something else?

Things I have tried: 1. Connected a 3V supply directly to the terminals. 2. Opened the case and verified 3V on the PCB when the power switch is on. No result from either.

Any advice is appreciated. I would sure love to bring this one back to life.

Don

Re: Advice needed: 29C Problem

*Message #2 Posted by **David Smith** on 5 Feb 2003, 6:11 p.m.,*
in response to message #1 by Don Davis

Most likely is a bad connection to the battery contact becuase of the corrosion. Clean very well and perhaps wrap the calculator contacts in aluminium foil. Also place small wads of foil on top of each battery terminal. Make sure your battery is good.

If the green gunk corrosion got into the machine itself, you might try standing the circuit board up in white vinegar up to the level of just past the battery contacts for half and hour or so. Rinse very well. Shake dry. Then let dry overnight in an oven on LOW (like 120 F).

Next most likely is a bad ACT chip. It is the big chip bear the battery contact area of the circuit board. If you know what you are doing and have the proper delsodering equipment you can

replace this chip with one from an HP21/22/25/25C/29C/67/97 (but not a 27).

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75D manuals and IO
*Message #1 Posted by **Christof** on 5 Feb 2003, 3:43 p.m.*

Thanks to Mike for having more of the 75/71 magnetic cards, I now have a pretty fully enabled 75D.

Do the manuals on the CDROM set have any specific D mod counterparts?

also- does anyone have a copy of the HP75 I/O manual available for copying, sale, scanning? I would be willing to scan for future CD inclusion.

And, are there any code listing floating around?

-Christof (who 'needs' a non podded 75 now)

Re: oh, and bar code
*Message #2 Posted by **Christof** on 5 Feb 2003, 6:40 p.m.,*
in response to message #1 by Christof

Also, having the bar code wand, I am curious if it is usable in any form without a bar-code ROM.....

Re: 75D manuals and IO
*Message #3 Posted by **Andy Delano** on 6 Feb 2003, 6:27 p.m.,*
in response to message #1 by Christof

Hi,

I have both the 75 i/o rom manual and the 75 i/o functions manual (the manual to the HIPILCMDS LEX file).

I have been meaning to scan them in for some time now so this may be a good excuse.

Maybe I can get to it sometime early next week.

Andy

Re: 75D manuals and IO
*Message #4 Posted by **Christof** on 6 Feb 2003, 6:50 p.m.,*
in response to message #3 by Andy Delano

that would be most excellent, thanks!- especially if they made their way to the museum CD8 :)

I think I am lacking that lexfile. I need to go look through my files some more.

Re: 75D manuals and IO
*Message #5 Posted by **Ellis Easley** on 6 Feb 2003, 11:22 p.m.,*
in response to message #3 by Andy Delano

The 75 I/O Utilities manual is on the new CD6 under calculator software. Also, the 75 pod contains a ROM that allows reading of two bar codes, 39 and 11. I don't know what code 11 is but code 39 is what Radio Shack uses in place of UPC on their packages. BTW, you can remove the 75 from the pod but then you won't have a battery cover and if it is like mine, it is modified to allow a beeper to be plugged in externally.

Re: 75D manuals and IO
*Message #6 Posted by **Christof** on 7 Feb 2003, 6:29 a.m.,*
in response to message #5 by Ellis Easley

(up this late training a "new" laserjet III to print manuals.)

yeah, mine was modified to allow a plug in speaker. I havne't used it yet, but plan to when I get the "automated house" stuff a bit further along.

I'm curious if there is any way to generate CODE 39 (or 11) for use....

and, time to upgrade my CD set, though I am still interested in the lexfile and whicher one of the manuals isn't in the CD set.

-Christof

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hp deskjet 672c printer
*Message #1 Posted by **Linda** on 5 Feb 2003, 3:40 p.m.*

my printer is printing emails in very small print. I don't know what the problem is. It was printing just fine a couple of days ago. I installed an upgraded driver today after my problem but the driver did not correct it. Anybody have any ideas?

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HP-30?
*Message #1 Posted by **Eaglevu** on 5 Feb 2003, 3:07 p.m.*

Just discovered this site. Pretty cool!

I had an "HP-30" basic scientific calculator, back in the early 80's. Why is it not listed here? Similar to the -31E, but slightly simpler and with a metalic gold faceplate. I remember being able to push multiple buttons, simultaneously, to get it to power on. Also, very light weight.

Sorry! No such beast!
*Message #2 Posted by **Gene** on 5 Feb 2003, 5:55 p.m.,*
in response to message #1 by Eaglevu

It's not listed here because it was never made.

Sorry, but I'm afraid you have the model # incorrect!

Re: HP-30? - no, it's a TI-30!!
*Message #3 Posted by **Bill Wiese** on 5 Feb 2003, 8:33 p.m.,*
in response to message #1 by Eaglevu

> had an "HP-30" basic scientific calculator, > back in the early 80's. Why is it not listed > here? Similar to the -31E, but slightly simpler > and with a metalic gold faceplate. I remember > being able to push multiple buttons simultaneously > to get it to power on. Also, very light weight.

Sorry, not listed here because it was a TI, not HP, calc.

You must be thinking of a TI-30. One of the most common scientific calcs in the world. Gold faceplate for keypad. Power on/off was done from keypad with [ON/C] button. Since the keypad had row/column coding, holding the corner keys [1/x],[EXCH] and [=] keys simultaneously would also trigger [On/C] actuation.

They are very light, as you say, because in addition to Klixon-style keyboard, there's only a small PC board with one skinny-DIP chip and an LED bubble-strip display, a resistor, and a 9V battery clip. Also the shell was lighter weight, IIRC, than other calcs with similar form factors from TI (SR-51/SR-52, etc.)

They came out in 1977-78, maybe a tad earlier. My dad bought me my TI30 in 1977 from a super Safeway store for $30 as part of a "Student Math Kit" package with a fairly decent text to explain why logs and trig functions were useful.

Bill Wiese San Jose, CA

Re: HP-30? - no, it's a TI-30!!
*Message #4 Posted by **hugh** on 7 Feb 2003, 6:47 p.m.,*
in response to message #3 by Bill Wiese

the ti-30 had a screen saver tho' :-)

when left idle, it would run a moving dot across the screen until you press a key. unfortunately, this feature would kick in annoyingly quickly.

Re: HP-30?
*Message #5 Posted by **Frank Glitz** on 6 Feb 2003, 4:07 a.m.,*
in response to message #1 by Eaglevu

I think it's a TI-30 as well. Look at www.datamath.org for a very good reference on TI calculators.

Regards, Frank

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Help with 33e and 28s
*Message #1 Posted by **Renato** on 5 Feb 2003, 12:27 p.m.*

I just got two new calculators, and would appreciate your help.

1. 28S - Left keyboard has a full row and a full column of non-working keys. I don't have any idea on how to open the case, and web search did not produce any information. I am clueless. The calculator is in great shape, so I would like to keep its appearance, and fix it too (sort of eating the cake and keeping it...).

2. 33E - Old hardware version (no soldering on chips). Topmost small chip is missing pin number 8. My ideas are: a- cannibalize a for parts machine - i don't have one, so .... b- recreate the pin - not so easy, as nothing is left from the original pin.

Any ideas ? I can probably fix it myself, but I am certain that this forum will help me do it the best way.

Greetings from Brazil.

Re: Help with 33e and 28s
*Message #2 Posted by **Pyerre** on 5 Feb 2003, 2:50 p.m.,*
in response to message #1 by Renato

About the 33E -

I'd use a Dremmel tools (wearing glass & gloves) cutting the plastic around the broken pin to clear its remaining part out.

Following the path on the flex circuit board, solder a 30 AWG wire-wrap wire to restore the connection (between the cleared pin of the IC & the point where it's connected to). Keeping the flex circuit intact, of course.

HTH, Pyerre

Re: Help with 33e and 28s
*Message #3 Posted by **renato** on 5 Feb 2003, 6:42 p.m.,*
in response to message #2 by Pyerre

Thanks, this is one option I was thinking about. Soldering so close to the chip is dangerous or not ? I was also thinking about soldering a pin taken from a DIP IC, so that it would allow contact to the flex circuit just like the original pin.

Merci beaucoup.

Re: Help with 33e and 28s
*Message #4 Posted by **Pyerre** on 5 Feb 2003, 8:12 p.m.,*
in response to message #3 by renato

>>Soldering so close to the chip is dangerous or not ?<<

- Yes, indeed ! Heat & ESD would hurt electronic devices.

Soldering a pin taken from a DIP IC is a good idea.

Suggestion :

- Made some setup, take care about ESD before doing anything.

- Solder one side of the new DIP IC pin to a long wire. This make life easier to handle the pin & dissipating heat while soldering its other side back to the IC.

- Gently remove the long wire from the new pin after work & here you go.

I've fixed broken IC pins & did have some success that way.

About the 28S -

This thread talking about the 28S malfunction :

http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/archv003.cgi?read=4841

HTH

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HP 21 display is just red dots.
*Message #1 Posted by **Geoff Harmer** on 5 Feb 2003, 9:01 a.m.*

I got my original HP21 going with a new battery pack about a year ago. But..

I left it in a drawer for about 10 months. Now the battery seems to heat up while charging, but the dusplay is just illuminated red dots and no keys function any longer.

Any ideas, that might help me get it working again?

Geoff

Re: HP 21 display is just red dots.
*Message #2 Posted by **David Smith** on 5 Feb 2003, 12:16 p.m.,*
in response to message #1 by Geoff Harmer

It sounds like your battery pack is bad. You can test the machine with two AA alkaline cells... just don't try to charge them. If your pack is bad any battery store can rebuild it... probably less than $20.

Re: HP 21 display is just red dots.
*Message #3 Posted by **Jon Ibarra** on 5 Feb 2003, 12:19 p.m.,*
in response to message #1 by Geoff Harmer

First of all try to use two alcaline batteries instead of the originals. If it works it means you have to change the battery pack´s cells with new ones (you can use NiMH or NiCD AA cells). It´s not so difficult. You can find a tutorial in the hpmuseum home page.

Good luck

Re: HP 21 display is just red dots.
*Message #4 Posted by **Vieira, Luiz C. (Brazil)** on 5 Feb 2003, 3:37 p.m.,*
in response to message #1 by Geoff Harmer

Hi;

you may experience soem dificulty on positioning the batteries out of their original pack. If you want to, the best you can do is openning the original pack and place the new batteries in there. For testing purposes, the original spring is enough for closing the batteries circuit, but soldering them is a better long-term solution.

Success.

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hp 41c/v/x calculator
*Message #1 Posted by **Joe Edwards** on 4 Feb 2003, 11:51 p.m.*

Hey guys, I have been bitten by the HP calc bug. Through some luck and a visiting a few garage sales (and one ebay purchase) I now have three 42s cals. Two are going to storage. Now, I have been eyeing a 41cx model. I've read the museum's info on the thing and it seems pretty sweet. Now, from those that have used the thing, could it be used by a math student today? Nothing wrong with a bit of nostalgia! Seriously though, how capable is this machine? Any info would be helpful!!!

Joe

Re: hp 41c/v/x calculator
*Message #2 Posted by **Les Bell [Sydney]** on 5 Feb 2003, 12:16 a.m.,*
in response to message #1 by Joe Edwards

The 41 is an *extremely* capable and practical calculator. It came with a two-volume manual that is a modem of good design and writing - lots of examples, yet organized for reference as well.

The 4-level stack and keystroke programming model make programming easy and intuitive. And there's lots of additional functionality in the Math Pac and other modules. My opinion is that the 41CX was the "sweet spot" of engineering calculator design.

Best,

--- Les [http://www.lesbell.com.au]

Re: hp 41c/v/x calculator
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 5 Feb 2003, 12:33 a.m.,*
in response to message #1 by Joe Edwards

Hi;

have a look at the HP42S' User's Manual, p. 166. It's gonna be a "reversed" process, but may give you a bit of taste for the HP41CX. Firstly think the HP41CX has no matrix, complex, number integrate and solve (many of these features are available in the Advantage module, but it is an expensive fellow). Then you remove some memory, say, about 2/3 of the original 7200 bytes user memory in the HP42S. Now you remove the graphic LCD and substitute it for a 14-segment alphanumeric LCD. Add I/O capabilities adn keep all real-number related math functionality, stack manipulation, numbered register (no variables availble) and programming style/language. Af few more specific diferences (ALPHA direct keyboard, time functions for the CX, etc...) and you have gone about 18 years back in time (for the CX) to catch an up-to-date, extremelly powerfull calculator. Wow! How did the guys do this at that time? 1979... Wow!

My US$ 0.01 (let me keep my pence)

Re: hp 41c/v/x calculator
*Message #4 Posted by **Thibaut.be** on 5 Feb 2003, 1:35 p.m.,*
in response to message #3 by Vieira, Luiz C. (Brazil)

You won't find a better calculator.

Re: hp 41c/v/x calculator
*Message #5 Posted by **Christof** on 5 Feb 2003, 2:26 a.m.,*
in response to message #1 by Joe Edwards

assuming a CX:

I've used a CX as a lab device (data input, printer output, timing, and calcualtions) for chem classes, for a calculus class, and "on the job" doing some inventory process design work for a local business.

I know someone (who frequents here) who uses one regularly in his professional life as a surveyor.

Honestly, having tried chemlab (oh, and physics) with the 28s, 48GX, and 41CX, I'll take the 41CX.much nicer timer use, great datafile handling.

If you can afford to (I can't) try to get an extended IO rom and HPIL (the HPIL part is cheap enough) as bing able to actually *move* data would be much nicer than having to hand record or type.

Re: hp 41c/v/x calculator
*Message #6 Posted by **Tom (UK)** on 5 Feb 2003, 8:01 a.m.,*
in response to message #1 by Joe Edwards

Welcome enlightened one. Enter the palace of function and longevity over modern marketing b/s.

"Seriously though, how capable is this machine?" - Very.

My own view is that the user interface of the '42 is slightly better than the '41 because of the 2 line display, assigned buttons function etc.

The '41 is much better for input/output and here the '42 is a let down.

You will find die-hard fans of both machines on this site but most contributors are big enough to accept people have different views.

It's a sad situation, but for day to day use I use an HP32sii as my 67/41/42/28 are now too valuable to me for every day use/abuse. The '32 is also a very capable machine but is held back by the tiny amount of RAM.

Re: hp 41c/v/x calculator
*Message #7 Posted by **Bob** on 5 Feb 2003, 8:33 a.m.,*
in response to message #1 by Joe Edwards

I think that, since the HP41CV got me through engineering school at the University of Illinois, it will probably work for today's students. Much is now done on laptops and pc's regardless. Whether they would want to risk losing/damaging it or not would be another matter. I also had to use a Math Pack and wrote a half dozen programs to fill the gap for what I needed at the time. It is still a very capable machine, but the 42S is probably a better choice for student life.

Now, the other part of the question is whether TI's marketing effort, which seems to have affected every school teacher known to mankind, would make it practical. (Do they get free calcs, or what ?) Most students that I talk to HAVE to use a TI-83, since the teacher has a file of programs geared to classroom use.

Perhaps, if HP were interested, the forum (I guess I'm somewhat volunteering you and your site, Dave. Sorry) could act as a generator of classroom friendly programs for entire math classes to make the choice of calc moot.

Re: hp 41c/v/x calculator
*Message #8 Posted by **John K. (US)** on 5 Feb 2003, 8:46 p.m.,*
in response to message #7 by Bob

> Do they get free calcs, or what ?

Yes, actually, they did. :^)

TI used to have a program back in the '80s that offered bundles of ~20 calculators to schools at a deeply discounted price and included a free unit with each bundle "for the teacher." Seems to me that EduCALC did something similar with HPs, but the TI program was offered directly to schools through TI's education channel.

Re: hp 41c/v/x calculator
*Message #9 Posted by **David Smith** on 5 Feb 2003, 12:19 p.m.,*
in response to message #1 by Joe Edwards

Well, it can fly the space shuttle, fly the concorde, shoot tanks, drop bombs, calculate how best to nuke your neighbors, balance your checkbook, and play pinball... any thing else you need it to do?

Re: hp 41c/v/x calculator
*Message #10 Posted by **Chan Tran** on 5 Feb 2003, 6:30 p.m.,*
in response to message #9 by David Smith

The 41's are great calculators. I personally like it much better than the 42. Most people won't agree with me but I like the 97, 41 and the 48. I don't care much for the 42.

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HP 15C, Nimber Format
*Message #1 Posted by **Terry Monaghan** on 4 Feb 2003, 11:49 p.m.*

A friend of mine has a HP 15C. It displays a decimal for a comma, and a comma for a decimal. How do you fix this problem?

Re: HP 15C, Nimber Format
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 4 Feb 2003, 11:53 p.m.,*
in response to message #1 by Terry Monaghan

Hi;

there is one sequence to toggle from one mode to the other:

```
- swithc the calculator to OFF
- press and keep pressed the [.] key
- switch teh calculator to ON while holding the [.] key
- release the [.] key
```

Do it as many times as you need to change from dot to comma.

Cheers.

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How to print to HP 82240B printer for HP 41CX
*Message #1 Posted by **Nick Nicholas** on 4 Feb 2003, 10:05 p.m.*

I wasn't able to find this information from my search on the internet. Could someone clarify what infrared plug-in module and/or HP-IL module and software do I need in order to get the HP 41CX to print to a HP 82240B printer.

Is this setup unidirectional to the printer or bidirectional?

Is it possible to use such an arrangement to communicate and transfer data with a HP 48GX?

Re: How to print to HP 82240B printer for HP 41CX
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 4 Feb 2003, 11:09 p.m.,*
in response to message #1 by Nick Nicholas

Hi;

the HP82242A is the IR module's ID for the HP41. It allows the HP41 to SEND (send only) information to the HP82240A. Any HP48 can receive the IR code sent by the HP41's 82242, but it needs specific software named INPRT. INPRT is availble in two versions, one for the HP48S/SX and another for the HP48G/G+/GX. The program converts received codes into an ASCII string that can be saved, printed or treated as an ordinary string-type object.

Unfortunately this module is unidirectional.

Hope this helps.

Luiz C. Vieira _ Brazil

Re: How to print to HP 82240B printer for HP 41CX
*Message #3 Posted by **Randy Sloyer** on 4 Feb 2003, 11:11 p.m.,*
in response to message #1 by Nick Nicholas

The 82242A I/R plug-in module is required for the 41 machines to print to a 82240A/B printer.

It is unidirectional only :(

When the only module in your 41 toolbox is a 82242A, the 41 is functionally the same as a 42S. Please don't take me to task for the very poor comparison.

Re: How to print to HP 82240B printer for HP 41CX
*Message #4 Posted by **Randy Sloyer** on 4 Feb 2003, 11:13 p.m.,*
in response to message #3 by Randy Sloyer

Oops,

Luis beat me to it. Gotta work on my typing speed...

Re: How to print to HP 82240B printer for HP 41CX
*Message #5 Posted by **Vieira, Luiz C. (Brazil)** on 4 Feb 2003, 11:31 p.m.,*
in response to message #4 by Randy Sloyer

Hi;

I was just a bit lucky... Be sure I started a few minutes before you. ;-)

Best regards, Randy.

Re: How to print to HP 82240B printer for HP 41CX
*Message #6 Posted by **David Smith** on 5 Feb 2003, 12:22 p.m.,*
in response to message #1 by Nick Nicholas

The IR module is rather rare and pricey when you can find one...

Re: How to print to HP 82240B printer for HP 41CX

*Message #7 Posted by **James M. Prange** on 6 Feb 2003, 2:08 a.m.,*

in response to message #1 by Nick Nicholas

The 82240 printer's interface is unidirectional. The transmitting device has to "pace" long data streams to allow the printer to keep up. For more information see http://www.hpcalc.org/details.php?id=4742

If you don't have the 82242A IR module for the 41, but do have some way of transmitting the data to the 48's RS-232 serial port (by wire, that is), then you should be able to use the 48 to relay the data to the printer. That's the method I use to print to the 82240 from the 49G, which also lacks IR.

Regards,
James

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What processor?
*Message #1 Posted by **Matthias** on 4 Feb 2003, 5:10 p.m.*

For my database i need some infos, I couldn't find in the net.. What processor (and what speed) does these calcs have?

Classics, Sting, Woodstocks, Topcats, HP-6s, HP-18C, HP-30s, HP-39G/40G, HP-86, HP-87XM, HP-9815, HP-9825, HP-9845

What speed uses the Capricorn in HP-75C/D?

Matthias

Re: What processor?
*Message #2 Posted by **Raymond Del Tondo (Germany)** on 4 Feb 2003, 7:26 p.m.,*
in response to message #1 by Matthias

HP-18C: 1LK7 (Saturn architecture) 39G/40G: Yorke (Saturn architecture)

AFAIK the HP-75 C/D uses a CMOS version of the processor used in the series 80 computers.

For more info on the Series 80 machines, you could take a look at http://www.series80.org/

Somewhere on that site it's stated that at least the HP-85 used an 8-bit CPU. Hmmm, I had in mind that the HP-86 used a 16-bit CPU, but I'm not sure about this.

Raymond

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Built in in HP Jornada 820
*Message #1 Posted by **Matthias** on 4 Feb 2003, 4:51 p.m.*

I have a english HP Jornada 820 with a built in 9018and WINCE 3.01.. It has different bugs in the system or just in displaying.. My german Jornada 820 has a built in of about 8900 and a WinCE 3.0...

Does someone can help me analysing my english one? Which built in do you have?

Matthias

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PPC Paris and JPCROM for the HP-71B
*Message #1 Posted by **J-F Garnier (France)** on 4 Feb 2003, 4:27 p.m.*

Hello all,

As a former PPC-Paris member (242), I'm looking for old members who could still have some materials from these old days. Especially I would like to get the JPCROM source files. I have partial source lists from the JPC journal, but not the full source files that were assembled on a HP Integral PC.

As you may know, I'm a HP-71B fan, and I *really* would like to recover these documents.

Thanks in advance.

Jean-Francois

Re: PPC Paris and JPCROM for the HP-71B
*Message #2 Posted by **Gene** on 4 Feb 2003, 5:06 p.m.,*
in response to message #1 by J-F Garnier (France)

Hi. I have the JPC rom. In fact, it's the unpublished corrected bug-fixed source file in an EPROM.

I do not know how I can get it to you, however.

I have a tape drive, but no tapes.

Can anyone volunteer to copy the ROM to a 9114 disk? (Assuming that no copyright issues are a concern?)

Gene

Re: PPC Paris and JPCROM for the HP-71B
*Message #3 Posted by **Vassilis Prevelakis** on 5 Feb 2003, 8:47 a.m.,*
in response to message #2 by Gene

I can do the copy since I have a 9114B. Lets continue this over email

**vp

Re: PPC Paris and JPCROM for the HP-71B
*Message #4 Posted by **Andy** on 5 Feb 2003, 10:47 a.m.,*
in response to message #3 by Vassilis Prevelakis

I can also do the copy. I have an hpil isa card and LINK+ running on a 286.

Let me know if I can help.

Andy

Re: PPC Paris and JPCROM for the HP-71B
*Message #5 Posted by **Emmanuel, France** on 5 Feb 2003, 2:49 p.m.,*
in response to message #2 by Gene

```
Hi there,
First president of JPC-Paris Philippe Guez gave me all the
archives of the club. Thus I got a lot of 3.5" LIF discs.
I have some different versions of JPCROM.
In order to copy it onto a MSU, my advice is to use ROMCOPY.
In order to make an Eprom image, please use MAKEROM and MKROMLEX.
I can do that for Jean-François and others too.
Gene, do you have an Eprom version or a plug-in module?
Kind regards from Normandy. Sincerely yours.
Emmanuel
```

Re: PPC Paris and JPCROM for the HP-71B
*Message #6 Posted by **Gene** on 5 Feb 2003, 2:54 p.m.,*
in response to message #5 by Emmanuel, France

Hi there, I have some different versions of JPCROM.

Gene: The version I have is an unreleased, debugged JPC ROM Lex file. It is an ordinary lex file on the ROM.

In order to copy it onto a MSU, my advice is to use ROMCOPY. In order to make an Eprom image, please use MAKEROM and MKROMLEX. I can do that for Jean-François and others too.

Gene: Perhaps, but I don't think there will be any problem just treating it as a normal LEX file. Not sure.

Gene, do you have an Eprom version or a plug-in module?

Gene: It is a plug-in Eprom.

Re: PPC Paris and JPCROM for the HP-71B
*Message #7 Posted by **Emmanuel, France** on 5 Feb 2003, 5:03 p.m.,*
in response to message #6 by Gene

```
Does 'plug-in eprom' mean a 27256 eprom that fits into
an HHP 32K Eprom module or a CMT plug-in module?
Please accept my apologies for that question.
I'll send you my address if you'll accept to loan that famous ROM.
```

Re: PPC Paris and JPCROM for the HP-71B
*Message #8 Posted by **Gene** on 5 Feb 2003, 5:08 p.m.,*
in response to message #7 by Emmanuel, France

I believe it fits into the CMT variety. It is present in the front port of my HP-71B.

There are 2 others who have volunteered to help, one in the US (I think) and one in Greece.

The best choice is the one that gets it either a) on the web for all, b) on tapes and floppy disks to be used, or c) able to be burned on NEW Eprom modules.

Or a combination.

Who should it be loaned to?

Gene

Re: PPC Paris and JPCROM for the HP-71B
*Message #9 Posted by **Emmanuel, France** on 5 Feb 2003, 5:48 p.m.,*
in response to message #8 by Gene

```
Dear Gene,
For instance, I have the following peripherals:
HP82161A Digital Cassette Drive
HP9114A or B Disc Drive
HP82973A IL/PC ISA card (Linkplus, Hpillink, Cross71)
Eprom Burner with ISA controler card
then I can:
copy it in various formats,
burn a 27256 Eprom (32K) for an HHP Eprom module
and deliver a Binary file for those who want to burn Eproms
create a ROM image file for those who use ROMCOPY with a 32K RAM module
...
I can finally help our community
```

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HP75D doesn't work with power adaptor
*Message #1 Posted by **Lucien Gisclong** on 4 Feb 2003, 11:05 a.m.*

Hi,

I have a problem with my HP75D : It works fine with batteries but doesn't work with the power adaptor and doesn't charge the batteries. I need the schematics because there is 11 volts dc after the rectifier bridge and nothing after the regulating transistors without battery and vbattery with. Does somebody have an idea? I will be happy to receive this schematics.

Best regards Lucien

Re: HP75D doesn't work with power adaptor
*Message #2 Posted by **David Smith** on 4 Feb 2003, 11:34 a.m.,*
in response to message #1 by Lucien Gisclong

Did you check the power adapter? Quite often the plug devlopes an open circuit. Connect a voltmeter and wiggle the wires around where they connect to the plug (machine end usually, somtimes at the wall wart)

Re: HP75D doesn't work with power adaptor
*Message #3 Posted by **Lucien Gisclong** on 4 Feb 2003, 11:52 a.m.,*
in response to message #2 by David Smith

Dear David,

Thank you for your answer. I did tested the ac voltage delivered inside the HP75, not only at the adaptor. this voltage is unfortunately ok (i would prefer to have this kind of failure).

Cheers, Lucien

Re: HP75D doesn't work with power adaptor

*Message #4 Posted by **Emmanuel, France** on 5 Feb 2003, 2:52 p.m.,*

in response to message #3 by Lucien Gisclong

```
Dear Lucien,
I finally found my HP-75C Service Manual.
I'm scanning electrical plans.
Don't worry, be happy!
Regards. Yours.
Emmanuel
```

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Why are 42S's so desirable ?
*Message #1 Posted by **Bob** on 4 Feb 2003, 8:34 a.m.*

I see many posts talking about the 42S and even some favorably comparing it to later designs. I use an HP48GX on a daily basis and I think that it is a great calc.

I like the 42S as well, but what is it about this calculator that makes it such a standout ? Speed, size, better design, scarcity, ?

Re: Why are 42S's so desirable ?
*Message #2 Posted by **Chan Tran** on 4 Feb 2003, 8:50 a.m.,*
in response to message #1 by Bob

I am wondering the same thing. It seems that to many the 42 is more valuable than either the 41 or the 48. May be because its small size?

Re: Why are 42S's so desirable ?
*Message #3 Posted by **John Smith** on 4 Feb 2003, 9:14 a.m.,*
in response to message #1 by Bob

Several reasons:

- size: HP42S is smaller and lighter than HP48/49, much more convenient to carry around, easier to hold in your hand

- feature set: HP42S has most of the functions a technical user would ever need. Symbolic math and other allegedly esoteric features are of little everyday use.

- compatibility: the fact that HP42S' function set is a superset of HP41C's is extremely important. You can key in almost all the many thousands of programs for the 41C series with little or no conversion whatsoever required. That you can't do with an HP48/49, unless using special software/hardware

- ease of use: many people prefer classical 4-level RPN stack plus Last X than RPL's indefinite stack and strict adherence to postfix notation. You can do virtually any calculation using the 4-level stack, and it's easy to visualize. You also get automatic top level replication, which is very convenient. You always have LastX available, and you can't get an error trying to execute some function with insufficient arguments in the stack, as the stack is always 4-level deep and can't really be 'empty'.

On the other hand, it's very easy to get lost while trying to keep in mind a variable number of arguments in a large number of stack registers, you can't be 100% sure that LastArg is enabled (and frequently it isn't, to save memory), you don't get top level replication, and you can get unexpected errors if the stack gets empty.

- language: RPL is perhaps far too complicated for casual users, with its strict adherence to postfix notation, and thus it's more difficult to write casual programs on it, debug them, and understand them a few months later. It was already somewhat difficult with classical RPN, but RPL increases the difficulty by an order of magnitude.

- quality: HP42S operating system is a thoroughly debugged product, with few bugs and no important ones. HP48/49's is buggier, and has required a number of iterations to bring it to an acceptably stable state. It's been the case that you couldn't really trust the answers it gave, while I have yet to see some worst-case example of a wrong result given by an HP42S.

- documentation: HP42S shipped with two large, thick, quality spiral manuals, of very high, classical HP quality. Not so with the HP48/49.

There are many more reasons, but these few will give an idea.

Two small corrections

*Message #4 Posted by **Raymond Del Tondo (Germany)** on 4 Feb 2003, 7:38 p.m.,*
in response to message #3 by John Smith

Hi,

there are two points where I don't fully agree:

- quality: HP42S operating system is a thoroughly debugged product, with few bugs and no important ones. HP48/49's is buggier, and has required a number of iterations to bring it to an acceptably stable state. It's been the case that you couldn't really trust the answers it gave, while I have yet to see some worst-case example of a wrong result given by an HP42S.

The HP-48's (almost all revisions) are nearly bug-free. Don't mix HP-48 with 49G, these are two different pairs of shoes.

- documentation: HP42S shipped with two large, thick, quality spiral manuals, of very high, classical HP quality. Not so with the HP48/49

Again, a small correction. My HP-42S was shipped with *one* extremely good manual.

It's the HP-48 series which came with *two* extensive and excellent manuals. Like above, this does *not* apply to the 49G.

For the 42S and HP-48, there were both spiral-bound and paperback available. For the 42S, there exists a 'loose-leaf' version of the manual, too.

Regards,

Raymond

Re: Two small corrections
*Message #5 Posted by **Joe Edwards** on 4 Feb 2003, 11:16 p.m.,*
in response to message #4 by Raymond Del Tondo (Germany)

I hate to correct you, but the HP 42s DID come with two spiral bound books:

1. The owners manual, and 2. The Programming Examples and Techniques Book

I am looking at them both right now.

Joe Edwards

Re: Two small corrections
*Message #6 Posted by **Raymond Del Tondo** on 5 Feb 2003, 3:59 a.m.,*
in response to message #5 by Joe Edwards

No problem if I'm wrong.

Hmm. Did they both fit inside the box? Maybe packaging was different for different countries. I thought the 2nd book had to be bought separately.

Thank you for the clarification.

Regards,

Raymond

Mine came with one manual too....
*Message #7 Posted by **Vieira, Luiz C. (Brazil)** on 4 Feb 2003, 11:23 p.m.,*
in response to message #4 by Raymond Del Tondo (Germany)

Hi;

my HP42S (two) came with one manual only. I bougth the Programming Techniques, but it does not come as standard.

I heard that there is a paperback version of the HP42's manual; I am not sure if this is the one you can by as a spare. Is it correct? If I am not wrong, Gordon Dyer has one of them (or one of each?).

I also add to the HP42S the easiness when manipulating complex data and matrices in the stack. Matrices behave almost like the same as in the HP15C (editing is easier in the HP42S) but complex maipulation is somewhat different. As the only RPN models that deal with complex numbers are the HP42S and the HP15C, one should note that they deal with them in a different way (no Imaginary Stack in the HP42S, a complex number may be "disassembled" in two real parts with one function in the HP42S, Re<>Im only in the HP15C, and others).

Anyway, its a great companion.

Luiz C. Vieira - Brazil

Re: Why are 42S's so desirable ?
*Message #8 Posted by **Don Davis** on 4 Feb 2003, 9:17 a.m.,*
in response to message #1 by Bob

My opinion is that the 42S offers the best combination (or maybe compromise) between size and features. It is definitely slower than the 48GX, but fast enough for most of my activities.

One big advantage of the 41C when it came out (to me) was the ability to program alpha prompts to get input from the user, and then label outputs as necessary. This makes it much easier to operate programs which are only occasionally used. The 42S retains this feature, and adds the capability of soft keys for running programs or for data input and output.

Of the 3 you mentioned, only the 42S is a true "shirt pocket" calculator, although the 41C is not too much larger. The 48GX is a great calculator, but less convenient to carry because of the extra size. (I also feel a little silly in a meeting whipping that monster out just to add up a column of numbers, but that's just me!) I prefer the keys on the 41C, but overall the 42S is my choice to carry around for everyday use. It does have drawbacks, including the inconvenient method of entering alpha characters.

So, that's why I love the 42S. I can't wait until HP releases its replacement very soon. It will have similar features, but a faster processor and of course, the traditional "old style" HP quality and style.

. . . OK, I just made up that last part.

best regards, Don

Re: Why are 42S's so desirable ?
*Message #9 Posted by **Ed Mabillard** on 4 Feb 2003, 10:49 a.m.,*
in response to message #8 by Don Davis

Hello Don Davis, your last sentence: "I can not wait until HP releases its replacement" speaking of the 42S, as I can see I am not the only dreamer, someone that Carli disappointed profoundly, and make me hate new HP products. sincerly, Ed

Re: Why are 42S's so desirable ?
*Message #10 Posted by **Lucien Gisclong** on 4 Feb 2003, 12:06 p.m.,*
in response to message #9 by Ed Mabillard

Dear Ed,

I do agree with you, after my Hp41 had hp 28s hp48g and hp49 the worst (ugly and fast when you don't wait 5 seconds to see the key you pushed on the screen). I recently purchased a new old stock hp41 and a 42s, life is beautiful again. But Hp now manufacture widely sold consumer products. I have also a HP200lx which is much more interesting and powerful than Windows ce products. It is the same thing for computers, we don't have anymore the choice, even Linux try to copy windows. We are living a curious period where very powerful systems are less useful than former simple systems.

Cheers,

Lucien

Re: Why are 42S's so desirable ?
*Message #11 Posted by **Paul Guertin** on 4 Feb 2003, 9:21 p.m.,*
in response to message #8 by Don Davis

I often wish HP had made an HP 42Sii, with a second shift key, fewer menus, and the other improvements the 32Sii had over the 32S.

Re: Why are 42S's so desirable ?
*Message #12 Posted by **Richard Garner** on 4 Feb 2003, 10:18 a.m.,*
in response to message #1 by Bob

These are reasons why I like the 42S:

Its size, it fits extremely well in the shirt or jacket pocket, it easily fits in the hand and lite weight.

Very easy to program on the fly. I use a 48GX on a daily basis, but it is NOT easy to program on the fly to do repetative quick and dirt calculation. The 42S is. So when I have to do real number crunching in the field I reach for the 42S.

Program compatability with the 41CV. I can take most of the programs I have written for my 41CX and directly key them in with little to no changes.

The keyboard is laid out well with most of the functions needed on the keys or just one level down on a menu.

The 4 level stack is much easier to work with.

I use a 48GX daily, but if I had a 42S with the read/write IR, the unit conversions and the memory of the 48GX, I wouldn't need anything else.

Re: Why are 42S's so desirable ?
*Message #13 Posted by **Ron Ross** on 4 Feb 2003, 10:29 a.m.,*
in response to message #12 by Richard Garner

My sentiments exactly.

Re: Why are 42S's so desirable ?
*Message #14 Posted by **Joe Edwardsa** on 4 Feb 2003, 1:05 p.m.,*
in response to message #1 by Bob

YEP. I am about to buy my third 42s this week. You can never have too many back ups! I just sold the 48g+ I got in the bookstore, it is just too big and SLOW when entering equations...at least my TI 83+ can keep up with me. BUT I prefer the 42s over any others so far.

Joe

Re: Why are 42S's so desirable ?
*Message #15 Posted by **Bill Wiese** on 4 Feb 2003, 4:28 p.m.,*
in response to message #1 by Bob

Because lots of us DON'T like the 28S/48/49 calculators. They may be good for math students without access to a PC - but that's getting to be a moot point today. (Except for exams, etc.) Clearly HP is targeting the 'educational' market, and makes the assumption that these days anyone else needing a calc will be well-satisfied by same.

It's a real indictment of HP calc product strategy that discontinued HP calcs are worth MORE used than your current high-end products. (This is even aside from collectibility issues - I think most people buying 42S, 41C|V|X and 15C calcs are buying these to *USE* or for future use since there's no confidence in HP's calculator future.

Life is busy - I work for a living and I don't have time to inclination to learn a radically new calc. Plus, for the more elaborate problems the 48 is able to solve, I can use a PC with Matlab,

Excel, or custom C or BASIC program to do what I need - quickly, and with a nice screen and keyboard. Don't need pocket portability for these kinda solutions.

But for "thinking with numbers" while in the easy chair, at a coffee shop poring over papers, etc. there's nothing like the ease of use of a 42S (or even a 41CV for that matter). These calcs have *real* RPN (4 level XYZT stack + LastX) unlike the "topless" stack of the 48, which I never liked - maybe it's useful for a programming abstraction but for nonprogrammatic hand calculation it's lame. Programming is easy and functions are sufficient for solving lots of problems - esp on the 42S with complex math, matrix math, etc. functions and menuing functions, 2 line display, etc.

I had a 28S. I played with it for a week and gave it to a friend. I had a 48S; I played with it for 2 weeks and gave it to another friend. I now have 3 41C/Vs and a 42S (as well as a 16C and an 11C and 15C for the heckuvit.)

It's not that I'm resistant to change - I just don't need to change for change's sake. I'm sure the 28/48/49 calcs solve someone's problems and that they are 'nice' calcs. They're just not right for me - and I'm a number-crunching SOB.

Bill Wiese San Jose, CA

I use them all

*Message #16 Posted by **Vieira, Luiz C. (Brazil)** on 4 Feb 2003, 11:51 p.m.,*
in response to message #15 by Bill Wiese

Hi;

after I used the HP28C for the first time I felt myself compelled to review almost everything I had about algebraic manipulation. I was lazy at that time and I must admit: I reinforced my algebraic knowledge by comparing the HP28 manipulations and results with the books' answers. Mostly when dealing with Taylor's expansion and related derivatives. I do not complain.

But later, when I tried multilevel stack and structured programming (at that time I knew only ForTran and BASIC, no C yet) I felt amused: it was a lot easy to "see" the program "algorythm": all clauses surrounded by IF..THEN..END or START..NEXT or FOR..STEP or CASE... THEN... END. I remember I felt those two worlds so much related to each other that I wrote a book (the only one I wrote so far) about it. I knew about Wickes' "HP41/HP48 Transitions" when I was writing mine and I never read it (so far, too). I even wrote him a few letters and sent him a signed sample when the book was released.

I use and program both types the same way, I cannot compare which is better then the other. I have one HP28S, one HP48SX, two HP48G+ (black- and blue-dot LCD), one HP49G, one HP41CX and two HP42S. They are different concepts.

Just my US$0.05

Re: Why are 42S's so desirable ?
*Message #17 Posted by **Christof** on 5 Feb 2003, 2:15 a.m.,*
in response to message #15 by Bill Wiese

I find the RPL machines to be quite nice as portable computing devices, but not really *good* programmable calculators.

the 42S can handle a lot of code- enough for decent algo testing, while it is a fantastic calculator as a calculator. It is missing a few thing that 16 has, but nothing is ever perfect and with 32k.....

I don't see my 48GX as a necessarily *worse* machine than the 42S, but they are very fundamentally different. (the 48, though, still compares favorably with my visors, jornadas, and wizards as a PDA, and beats them all in independent extensibility.)

the 41, though.... well, given what the 41 is capable of, it sucks to have to hunt so much to try and maybe find a paname or PPC, Xmem, and X I/O module to finish making it functionally better than the 42. (someone PLEASE start producing roms, if there is any way to get rights to)

the 41 would maybe even outdo the 42 if I had good IO.

Re: Why are 42S's so desirable ?
*Message #18 Posted by **Richard Stanaway** on 4 Feb 2003, 4:37 p.m.,*
in response to message #1 by Bob

The 42 and 32 were the epitome of compact handheld numerical computing. HP are talking about new RPN/RPL calculators being released by the end of the year, so hopefully they bring out something which also takes advantage of developments in electronics over the last ten years.

However good the HP42 was, it still suffered two fatal drawbacks;

1. No Input device other than the keyboard. 2. Memory losses during battery changes.

1 is painful because of 2. have you ever had to reenter and test hundreds of keystrokes of

program after memory loss ?

An excellent calculator which could replace the 42 might have some of the following characteristics;

1. I/O via Infrared and/or USB/serial port 2. same size and weight as the old 42 3. rechargeable 1 x AAA /DC input 4. same keyboard layout, but with alpha shift 5. similar programming language to 41/42 6. same speed as the old 42, or faster 7. Throughly researched manual 8. same build quality as the 41. 42 wasn't perfect

Because of some of these reasons, I prefer the 48 to the 42 for professional use.

Re: Why are 42S's so desirable ?
*Message #19 Posted by **Vieira, Luiz C. (Brazil)** on 5 Feb 2003, 12:18 a.m.,*
in response to message #18 by Richard Stanaway

Hi;

my two HP42S can hold memory contents for at least two minutes (I never tested for more than this) and one of them is expanded for 32KBytes (Thanks, Randy...). I can think of three reasons for that behavior:

1) inadvertently pressing a key during battery change
2) a small capacitor, parallel with the batteries, with a cold soldering
3) inadvertently shorting terminals while changing batteries

I once almost hold a dummy guy by his throat when he offered himself to change the batteries of my HP42S (about 6 years ago) and I allowed him to... The stupid fellow used a pair of tweezers and I did not see it until was inserting the third battery and holding it by its poles (shortening the battery; of course they would live for a shorter time and I would have to come back soon... usual silly behavior for silly people in Brazil). I yelled him a tremendous "STOP, SH..!" and I also saw a tremendous [MEMORY CLEAR] in the display. I left the guy telling me it was something very common, I should not be so bothered... and I yelled him a "SHOUT THE F... DOWN!" back. All of these in crystal clear Brazilian Portuguese. (hope nobody complains for this... silly story).

Just check for the possibilities, please. Maybe there is some small detail that is enough to avoid the memory loss.

My US$ 0.05

(Please, if you think this post is a bad post, be my guest: removing password is 12345)

Re: Why are 42S's so desirable ?
*Message #20 Posted by **Kris Collins** on 5 Feb 2003, 12:16 p.m.,*
in response to message #19 by Vieira, Luiz C. (Brazil)

Luiz, my friend, don't stop writing. Personally I enjoy your posts very much. I understand completely what you are trying to say. Please continue.

Thank you!
*Message #21 Posted by **Vieira, Luiz C. (Brazil)** on 5 Feb 2003, 1:51 p.m.,*
in response to message #20 by Kris Collins

HI;

this is something that we do not hear everyday... specially today, when I'm looking for job... I found gold!

Thank you! You literally saved my day. (I needed that)

Best regards

Re: Thank you!
*Message #22 Posted by **R Lion** on 5 Feb 2003, 2:12 p.m.,*
in response to message #21 by Vieira, Luiz C. (Brazil)

Looking for job... I wish you get a good one, Luiz.

Kind regards Raul

Re: Why are 42S's so desirable ?
*Message #23 Posted by **David Smith** on 4 Feb 2003, 5:50 p.m.,*
in response to message #1 by Bob

Apparently the HP42S also tastes very good... just ask my friend's dog...

Re: Why are 42S's so desirable ?

*Message #24 Posted by **tom hughes** on 5 Feb 2003, 7:00 p.m.,*

in response to message #23 by David Smith

I think one of the most critical reasons for the 42s' popularity is that it is easily the most powerful calculator you can take into university exams. the common criteria for allowing programmables is that they cannot be externally programmable (i.e. you cannot hook them up to a PC). Also no graphical display. Thus I can take my 42S into an exam, but not my 65.

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Downloading ROM functions
*Message #1 Posted by **Steve** on 3 Feb 2003, 9:32 p.m.*

Is there any way to download (copy) a ROM function or an entire catalog (not a program) into memory? The COPY command only works for programs.

My reason for doing this is to be able to copy programs from one 41cx to another 41cx. I have 2 HP/ILs but only one Extended IO ROM (I can't afford 2!). I figured if I could make a copy of the X IO in memory (INP, OUTP) then I could make it work. Is there any other way? Thanks,

Steve

Re: Downloading ROM functions
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 3 Feb 2003, 10:04 p.m.,*
in response to message #1 by Steve

Hi;

there is a way to generate ROM images from existing ROM modules, but it needs specific hardware (other ROM modules) that allow it to be done. These ROM modules (if I am not wrong the CCD and the PPC ROM's allow this sort of procedure) are somewhat hard to find. Even so, if you have the ROM image, I cannot figure a way out to use it internally unless you build a ROM module with that image, say, you will even need the external HW to accomodate the ROM data you have already downloaded. There is no available hardware inside the HP41CX to hold this data, and I believe the 2233 bytes will not be enough to hold all of the I/O programs. Even if you do it, there will be no room for anything else, right?

If you store the ROM image in the X-Memory there it will be necessary to find a way to use the X-Memory contents directly. I know that some synthetic maneuvers allow a program stored in X-Memory to be ran without copying it to RAM. I tried it once and it worked fine, but the XEQ instructions generated NONEXISTENT error, so I simply did not try again. But this works with programs, I do not even know how to store a ROM image in the X-Memory space.

All of this is based in some experiences of mine and some posts in here. But I am almost sure it cannot be done witn the unique HP41CX available hardware.

Hope you have other, better news.

Success.

Re: Downloading ROM functions
*Message #3 Posted by **Håkan Thörngren** on 4 Feb 2003, 2:32 a.m.,*
in response to message #1 by Steve

If I interpret this correctly, you want to save a ROM image into RAM and then transfer it to another HP41? I do not understand why you want to do this? I mean, why transfer it via HP-IL, isn't it much easier to just plug the module into the other HP41 and COPY the programs you want to have in memory?

To do something meaningful with (even extract) a raw ROM image requires an MLDL (special hardware).

Re: Downloading ROM functions
*Message #4 Posted by **Vieira, Luiz C. (Brazil)** on 4 Feb 2003, 4:17 a.m.,*
in response to message #3 by Håkan Thörngren

Hi;

it seems to me Steve wants a working copy of a ROM with functions, not programs. He mentions the X-I/O module. At least, that's what I understood.

Cheers.

Re: Downloading ROM functions
*Message #5 Posted by **Daniel Diggelmann** on 4 Feb 2003, 6:06 a.m.,*
in response to message #4 by Vieira, Luiz C. (Brazil)

A download of machine code written ROM functions into USER RAM isn't possible as USER RAM is 8 bits wide whereas ROM modules are 10 bits (quite special isn't it?) wide. Only USER CODE programs can be transferred from ROM into USER RAM. You would require a RAMBOX (W&W / ERAMCO ...) to do this. Another idea is to do it by using the new EMU41 and a HPIL PC card which emulates exactly a HP41. I find this an interesting way to experiment with HP41 stuff.

Re: Downloading ROM functions
*Message #6 Posted by **Steve** on 4 Feb 2003, 9:16 a.m.,*
in response to message #1 by Steve

My goal is to transfer programs (user written) from one 41cx to another 41cx over HP/IL. That's why I need 2 X-IO ROMs (which I don't have, and can't afford since they are about $200 on eBay). Maybe there is a better way to transfer programs between 2 41cx's?

I know I can do it indirectly by using the rs-232 interface and using a PC. This is the most logical approach since I will want a PC copy of the program anyway for safe keeping. This is great unless I just need to copy from cx to cx quickly. Thanks,

Steve

Re: Downloading ROM functions
*Message #7 Posted by **Johnny Billquist** on 4 Feb 2003, 9:23 a.m.,*
in response to message #6 by Steve

Well. The most common way, back in the old days, was to use magnetic cards. Another option is to store the programs/data on tape, using HPIL.

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ROM/RAM editing program for HP-41
*Message #1 Posted by **Jeff Davis** on 3 Feb 2003, 8:28 p.m.*

Recently while I was reviewing the book by W Mier-Jedrzejowicz entitled Extend your HP-41, I noticed that there is a program in the back called "ED" but this program requires a PPC ROM. This program will allow editing of programs byte by byte. I used to have a Zenrom and a PPC Rom but not anymore. Is there a program out there like "RAMED" in the Zenrom that I can use on the HP-41CX without having any plug in ROM's? I would like to perform editing like I did when I had the Zenrom. Please advise, Jeff

---

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HP: Why give up on RPN?
*Message #1 Posted by **Joe Edwardsa** on 3 Feb 2003, 6:15 p.m.*

Forgive my ignorance, but I haven't need to use a calc in about 12 years. Now I am back in school and find that HP has taken a nose dive regarding their calculators. Could someone enlighten me on WHY HP has pretty much given up on RPN calcs? Also, WHY has HP stopped designing a small calc like the 32s and 42s? Their new models don't include anything like them unless you move up to the 48g models. I am just curious why HP would turn belly up and let TI take over? Thanks.

Joe

Re: HP: Why give up on RPN?
*Message #2 Posted by **Dave** on 4 Feb 2003, 11:00 a.m.,*
in response to message #1 by Joe Edwardsa

They may be designing a calc w/ RPN to be released soon. Will not be of the same quality as previous but may have RPN in a smaller size. HP lost the market to TI in the educational arena because of their focus on engineers (the 28 / 48 series appealed to engineers but in reality few engineers could use the advanced features (they needed more power) and middle/high schools couldn't teach with them (RPL langauge etc. too complicated. HP set up an ACO operation in Australia but the geeks their simply repackaged the 48 in a poorer designed case with pretty colors and minimal technical and no ease of use enhancements. It seems they only now have the resources assigned to bring out outsourced calcs but think they will incorporate RPN into at least one of these designs (and maybe into a business model if they discontinue the 12C)

Re: HP: Why give up on RPN?
*Message #3 Posted by **Paul Guertin** on 4 Feb 2003, 9:25 p.m.,*
in response to message #2 by Dave

Are they really designing the future RPN calc in house, or just ordering it from some Asian manufacturer? Anyone know?

Re: HP: Why give up on RPN?
*Message #4 Posted by **Nick Nicholas** on 4 Feb 2003, 9:45 p.m.,*
in response to message #2 by Dave

I purchased a hp 48gx in the early 90's out of interest and later on a 17bii for work related use. I recall at the time that I purchased the hp 48 that I felt it was really expensive even when I was out of college and working.

I am curious to know if the relatively high cost of HP calculators was completely due to the higher manufacturing cost or HP's marketting to keep the margins high. I believe that had HP had made these products more affordable, these calculators would have enjoyed greater use and would have allowed HP to upgrade their products as technology advanced.

Re: HP: Why give up on RPN?
*Message #5 Posted by **Tom (UK)** on 5 Feb 2003, 12:57 p.m.,*
in response to message #4 by Nick Nicholas

I think in the early days HP charged alot because the technology was expensive AND they re-invested it in newer models.

Since the HP48, HP has not done much about continuing the upper niche they occupied, probably as they saw it as a shrinking market. They did develop the HP49 after a gap of about 10 years but I think it flopped because it was too complex and HP did not invest in any decent documentation.

So, since 1990 the high prices have gone first as profit and then, as production got more expensive (compared to newer designs), profit has shrunk to such an extent that they now just drop the models when they come up against an investment wall (HP32Sii, HP17Bii).

Newer HP calcs are old designs that have been rebadged (HP6, HP9S/G) or cheaper 'new' designs that are no better than any of the competition (HP30S, HP10bii).

One execption to the above was the redesign of the HP12C as this was selling well in the finance market, however reports about the quality of the 'new' Chinese built HP12C are that the keyboards are very poor (nothing against the Chinese - HP are probably getting what they are paying for from the Chinese factory).

News of a new RPN calc have circulated from an HP press release, but the anouncement seemed to be more hope than fact - I hope they do produce a new RPN calc but I'm not holding my breath...

Re: HP: Why give up on RPN?
*Message #6 Posted by **Nick Nicholas** on 5 Feb 2003, 4:02 p.m.,*
in response to message #5 by Tom (UK)

I guess the volume of sales of the calculators at competitive pricing levels could not sustain the profitability of the calculator products.

What are the quality of the Hp 48GX and 49G calculators that were made in China as compared with those that were made in Singapore for the 48GX and Indonesia for both?

Is the HP 48GX still being manufactured? I know that the web sites of HP in some countries no longer advertise the HP 48GX.

Re: HP: Why give up on RPN?
*Message #7 Posted by **Chan Tran** on 5 Feb 2003, 6:51 p.m.,*
in response to message #6 by Nick Nicholas

While HP calculators have always been more expensive than other brands, I did not feel that they were not worth their prices. I would rather see HP keeps the prices high or even increases prices if need be and maintains or improves the quality of the calculators. Newer calculators don't have the same quality of the older ones even though they do offer some desirable features.

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How do I open my 15c?
*Message #1 Posted by **Larry K** on 3 Feb 2003, 5:25 p.m.*

I have an hp-15c and 11c that I would like to open to clean out the dust! How do I go about doing this?

Thanks

Re: How do I open my 15c?
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 3 Feb 2003, 8:04 p.m.,*
in response to message #1 by Larry K

Hy;

under each of the four rubber feet there is a small screw, Philips-type head, and it's enough to remove them and the back cover that you'll be facing when removing the screws.

After you open, be extra carefull with two small springs that are assembled in vertical position. One of them is at the rigt side of the batteries compartment and the other is at the extreme right of the keyboard between the second and third key rows. The electrically connect the keyboard faceplate and the display "bezel" with the back label. This set work as an electostatic shield, protecting internals against ESD and EMF at acceptable levels.

If you want to clean the LCD for dust, it's a consense to use air pressure from a clean source. Removing the LCD assy is somewhat difficult in some models.

If you open the calcualtor and feel confused about what you see, post again and describe it so we can help you better.

Hope this helps.

Cheers and success.

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20s scientific calc.
*Message #1 Posted by **Joe Edwards** on 3 Feb 2003, 4:54 p.m.*

Can anyone provide info on this calc? I couldn't locate any info in the museum regarding it. It appears to be algebraic, not RPN; is it programmable? Thanks.

Joe

Re: 20s scientific calc.
*Message #2 Posted by **Randy Sloyer** on 3 Feb 2003, 5:44 p.m.,*
in response to message #1 by Joe Edwards

Yes, it is algebraic and it is programmable. It's the older classic programming model with keystroke programming to 99 steps, since it has a 7 segment display.

It does have some nice features for an inexpensive unit, including a root finder, integration, complex numbers, 3x3 matrix ops, quadratic, and curve fitting. Not bad for $20, now if it could only do RPN...

Here's a link to HP's site for a comparison with the newer models:

http://h20015.www2.hp.com/en/document.jhtml?lc=en&docName=bpia5154&prodId=hp32scalcu20672

Re: 20s scientific calc.
*Message #3 Posted by **Joe Edwards** on 3 Feb 2003, 6:27 p.m.,*
in response to message #2 by Randy Sloyer

Okay, I'll bit. WHY don't they make it RPN? Wasn't that what HP was famous for?

Joe

Re: 20s scientific calc.

*Message #4 Posted by **Pyerre** on 3 Feb 2003, 8:41 p.m.,*

in response to message #1 by Joe Edwards

Beside the RPN devices :

http://www.copia.com.au/hp_scientific_calculators_compar.html#Physical Features

The HP-20S is a nice small algebraic programmable scientific calculator. Yes, "if it could only do RPN" !

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A museum in Munich/Muenchen
*Message #1 Posted by **Nenad Vulic (Croatia)** on 3 Feb 2003, 3:27 p.m.*

Dear friends,

Somebody mentioned in one of the messages last year a (technical) museum in Munich with some HP's exposed. As I am travelling to Germany tomorrow (Augsburg & Munich) and I could not find the thread in the archives, it would be great if someone could just remind me about the name of that museum in Munich I would like to visit. AFAIK and remember somebody compared it with the Science Museum in London (and said that this one is even bigger).

Many thanks in advance.

Re: A museum in Munich/Muenchen
*Message #2 Posted by **Dave Hicks** on 3 Feb 2003, 3:34 p.m.,*
in response to message #1 by Nenad Vulic (Croatia)

Probably this one

http://www.deutsches-museum.de/

It's great!

Off topic:
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 3 Feb 2003, 3:41 p.m.,*
in response to message #2 by Dave Hicks

Hey, David;

any news about the scans? (if any, please, e-mail me)

I'll remove this post later.

Regards.

Vieira

Re: Off topic:
*Message #4 Posted by **Dave Hicks** on 3 Feb 2003, 3:48 p.m.,*
in response to message #3 by Vieira, Luiz C. (Brazil)

scans?

Re: scans?
*Message #5 Posted by **Paul Brogger** on 3 Feb 2003, 5:11 p.m.,*
in response to message #4 by Dave Hicks

Sure, SCANS. Remote, positronic brain and memory scans, being performed by the NSA from black helicopters.

Apparently they've left the Erase Switch set to the default position ("YES"). We'll get back to you when we decide what we want you to remember . . .

(Forget we ever broached the subject.)

Have a nice day!

;^)

Re: Off topic:
*Message #6 Posted by **Vieira, Luiz C. (Brazil)** on 3 Feb 2003, 9:52 p.m.,*
in response to message #4 by Dave Hicks

Hi, David;

I sent you an e-mail explaining it better.

Sorry...

Re: A museum in Munich/Muenchen
*Message #7 Posted by **Matthias Wehrli** on 4 Feb 2003, 2:51 p.m.,*
in response to message #2 by Dave Hicks

As my girlfriend lives in Munich, I took a picture from the part of the Deutsches Museum when I was there last time: You can see all presented HP calculators.. send me a mail and I will send you the photo..

Matthias

Re: A museum in Munich/Muenchen
*Message #8 Posted by **Gunnar** on 3 Feb 2003, 4:10 p.m.,*
in response to message #1 by Nenad Vulic (Croatia)

In the " Deutsches Museum" you could see som HP Calculator (HP 67 /97 /41 ...) and a rebuilding of the first computer, the "Konrad Zuse Z3". You could arrive the museum with the "S-Bahn", Station "Isartor" near centrum. Touristik Information at "Marienplatz" or central station. Lock at: http://www.muenchen-tourist.de/englisch/index_e.htm

Regards Gunnar

Thank you all, this was really fast
*Message #9 Posted by **Nenad Vulic (Croatia)** on 3 Feb 2003, 4:40 p.m.,*
in response to message #1 by Nenad Vulic (Croatia)

As always ... if I might say.

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48g+ or 48gx
*Message #1 Posted by **Joe Edwards** on 3 Feb 2003, 2:12 p.m.*

Hey guys, I noted earlier that my bookstore has two G+ models for sale...at $169.00 each. I talked to the manager and he sold one to me for $45.00. Was this a good deal, or should I have waited and gotten the GX model? Thanks in advance.

Joe

Re: 48g+ or 48gx
*Message #2 Posted by **Bob** on 3 Feb 2003, 3:32 p.m.,*
in response to message #1 by Joe Edwards

IMHO I think you got a great deal. The 48GX is still about $130+ and the G+ is about $100 if you can find them at all. With all of the power and memory of the stock GX, you can download all kinds of helpful programs, even without an extra memory card. Most users don't fully utilize it's capability anyway and I've never even KNOWN anyone who actually bought a memory card for it, outside of pre-programmed application cards.

At that price, the only question is, why not buy both of them ?

Re: 48g+ or 48gx
*Message #3 Posted by **Joe Edwards** on 3 Feb 2003, 4:53 p.m.,*
in response to message #2 by Bob

I would, but I went back to the store and the other one is gone now. The only thing left is a 48g for $30.00. It seems they updated the prices and cleaned up the back of the store.

Anyway, I started to play with it (ah RP input!) and was impressed with the construction. Better than the TI 83+ I have, but not as good as my old 32s (which I regret selling).

I am a bit concerned with the speed issue. It seems remarkedly SLOW compared to my TI 83+. Heck, it seems slow compared to the old 32s. Is this pretty much standard issue with

the 48g/+/x models? The equation writer is great, but rather pokey as well. Any enlightenment would be helpful.

Re: 48g+ or 48gx
*Message #4 Posted by **R Lion** on 3 Feb 2003, 5:28 p.m.,*
in response to message #2 by Bob

"...and I've never even KNOWN anyone who actually bought a memory card for it..."

Well, here is the first one of 128Kb and other of 1Mb ;-)

Raul

Re: 48g+ or 48gx
*Message #5 Posted by **Bob** on 4 Feb 2003, 8:14 a.m.,*
in response to message #4 by R Lion

Sorry, I should have written "known personally". I normally use Excel and specialty software, etc for my work. I use a calculator for mostly quick calculations when away from my office. I don't need a 48GX, but it is a good calc so I carry it everywhere.

I used HP's (48GX's) during my PE licensure exams, but I still never personally met anyone who bought a memory card. I think that I would like one, but I have only seen them in a few places on the web and they are expensive. Any recommendation on which are best ?

Re: 48g+ or 48gx
*Message #6 Posted by **R Lion** on 4 Feb 2003, 8:42 a.m.,*
in response to message #5 by Bob

Well, I spent more money in an original hp 128kb card, than in my GX :-(

Later, I bought a Klotz 1MB card for 40 euros :-)

They both work perfectly.

I think Klotz is the best choice. http://uuhome.de/oklotz/index_e.html

Raul

Re: 48g+ or 48gx
*Message #7 Posted by **Chris(FLA)** on 4 Feb 2003, 8:58 a.m.,*
in response to message #6 by R Lion

I too spent just about the same for a 128K card as I did for the calc. It is the HP memory card.

When researching this I came across a few items that said that these cards are different. Some didn't have the protective door over the contacts and HP recomended not to use these.

But like R Lion stated he has had no problems with the card he is using. The HP statement may have just been there way to avoid any problems with third party cards.

I have not heard any problems with the other cards that are available.

Chris

Re: 48g+ or 48gx
*Message #8 Posted by **R Lion** on 5 Feb 2003, 2:07 a.m.,*
in response to message #7 by Chris(FLA)

"Some didn't have the protective door over the contacts and HP recomended not to use these."

It doesn't matter if you only want to expand the memory, and you are not going to uninstall/install the cards many times(IMO).

R Lion

Re: 48g+ or 48gx

*Message #9 Posted by **Chris(FLA)** on 5 Feb 2003, 11:36 p.m.,*
in response to message #8 by R Lion

Chris
Some didn't have the protective door over the contacts and HP recomended not to use these.

It doesn't matter if you only want to expand the memory, and you are not going to uninstall/install the cards many times(IMO).

You are exactly right and I soon relized this myself. I haven't removed my card yet. I think I might get one of the Klotz cards. That is a very good price compared to what HP wanted/wants. Are these even still available from HP? Well who cares anyway, there are too expensive.

Thanks for the link.

Chris

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HP-19BII- manual
*Message #1 Posted by **William Otero** on 3 Feb 2003, 12:43 p.m.*

Do you know where I can get the English version for the HP-9BII manual.

Thanks

WOL

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PC emulator
*Message #1 Posted by **William Otero** on 3 Feb 2003, 12:42 p.m.*

Do you know where I can get the pc emulator for the HP-9BII.

Thanks

WOL

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"N" cells
*Message #1 Posted by **Luis** on 3 Feb 2003, 10:51 a.m.*

Are the "N" cells used in other HP calculators than the 41 series? Are they "LR1" compatible?

Thanks!

Luis

Re: "N" cells
*Message #2 Posted by **John Smith** on 3 Feb 2003, 11:13 a.m.,*
in response to message #1 by Luis

The HP-28C and HP-28S (among other 'clamshell' series machines) do also take "N" size cell, and yes, they are equivalent to "LR1".

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Australian PPC Technical Notes
*Message #1 Posted by **John Smith** on 3 Feb 2003, 10:19 a.m.*

Hi, I've been unable to locate any sources whatsoever for issues of the Australian PPC Technical Notes publication, be they in physical or (preferably) electronic form (PDF).

Are they included in the latest version of MoHP CD set or perhaps Jake Schwartz's ? Any links, URLs, references ?

Thanks.

Re: Australian PPC Technical Notes
*Message #2 Posted by **Emmanuel, Normandy (France)** on 3 Feb 2003, 11:57 a.m.,*
in response to message #1 by John Smith

I have some issues. I'll check. Yours. Kind regards.

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Hp color copier 150 driver!
*Message #1 Posted by **Emmanuel** on 3 Feb 2003, 9:54 a.m.*

I just got a new job in another town here in nigeria and had to move a few kilometers to my new residence and unfortunately lost by device drivers in transit.I wish anyone could be of help as to direct me where i can download this software as there are no major Hp Branches in this country plus my expensive equipment is just sitting down doing noting. I'll really be glad if someone could help me out. thanks Emmi

Re: Hp color copier 150 driver!
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 3 Feb 2003, 10:32 a.m.,*
in response to message #1 by Emmanuel

Hello, Emmanuel;

I want to help if I can, in any way. Just a small request: do you have teh correct specification for the copier? Is it just HP150? Do you also remember the SW version? Or you think there will be only one driver?

I may not have it, but I'll search for ecisting drivrs, but I would like to now the exact ID for the equipmenten, please.

Success!

Luiz C. Vieira

I don't understand "driver"
*Message #3 Posted by **Glen Kilpatrick** on 3 Feb 2003, 11:58 a.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

I first used Google to look for drivers, was referred several times into HP, and eventually downloaded & read the entire user's manual --- http://www.hp.com/cposupport/manindex/hpcolorcop6466_eng_man.html --- and what I don't understand is that there's no mention of a connection to a computer, this is (apparently) a standalone copier, albeit a color inkjet one. So what exactly is doing the driving here???

Re: I don't understand "driver"
*Message #4 Posted by **Vieira, Luiz C. (Brazil)** on 3 Feb 2003, 12:46 p.m.,*
in response to message #3 by Glen Kilpatrick

Hi, Glen;

that's the same reason I asked for the equipment's ID: is it the same one Emmanuel mentioned?

I think his is a different one, or it has an optional port, I don't know.

Best regards, my friend.

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42s Double Speed
*Message #1 Posted by **Kris Collins** on 2 Feb 2003, 9:19 p.m.*

Does anyone have any accurate information on the 2x speed routine for 42s? None of my three calcs will retain the double speed setting. Two calcs are 1993 and 1994 models which are not supposed to retain 2x mode but another calc is 1988 model and it should behave differently. Anyone know if possible to easily get into 2x mode and stay there?

Tnx

Re: 42s Double Speed
*Message #2 Posted by **Gene** on 2 Feb 2003, 9:33 p.m.,*
in response to message #1 by Kris Collins

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

The link above has the program. A 1988 HP-42S should run it, but I don't know for sure.

Gene

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HP-45 school project
*Message #1 Posted by **Michel Beaulieu** on 2 Feb 2003, 7:56 p.m.*

Hi, i'm a teacher and i have a calcualtor project with my students : we want to take a HP-45 with a bad keyboard and make a big external keyboard made with push button switch. I think it's a matrix and i'll copy the wiring inside the bad keyboard. We also want to make a bigger display with .5 inch 7 segments LED; the problem is : will the display "drivers" be ok with that extra current taken from these bigger LED? Is there another solution like "boosting" the curent externally before the new LED (transistor).

Thanks Michel

Re: HP-45 school project
*Message #2 Posted by **Tom (UK)** on 3 Feb 2003, 2:03 p.m.,*
in response to message #1 by Michel Beaulieu

Your keyboard fix should be OK.

The display may need boosting, it depends on the current drawn by the original display and the new one which may be much more efficient at turning electrons into photons.

To be on the safe side I would make a booster circuit with either transistors or perhaps a buffer chip and dropper resistors.

If you are making all this it would probably be worth making a new power source for the display with bigger batteries or mains supply (just in case you overload the original power supplies).

I think there are HP45 circuit diagrams traced by someone, I don't know who might have these.

PS Have you been sub-contracted by HP to make a demonstrator model for the latest HP RPN calc???

Re: HP-45 school project
*Message #3 Posted by **Pyerre** on 3 Feb 2003, 4:17 p.m.,*
in response to message #1 by Michel Beaulieu

I'm thinking about the possibilities ...by using the Opto-Isolators to interface the display's segments with the outside world.

Re: HP-45 school project
*Message #4 Posted by **David Smith** on 3 Feb 2003, 5:54 p.m.,*
in response to message #1 by Michel Beaulieu

The HP35/45/55/65 used a very tricky power saving technique to do the display. The segments are scanned individually within each digit then the display goes to the next digit. There are inductors on each segment line that store and boost the drive current. Each segment is only driven for a few microseconds. I would try directly driving your bigger LED's first. Boosting the drive signals may not be an easy task for a high school student.

Re: HP-45 school project
*Message #5 Posted by **Tony Duell (UK)** on 3 Feb 2003, 6:00 p.m.,*
in response to message #1 by Michel Beaulieu

The keyboard is just a matrix of swtiches, so you should be able to add a larger one very easily. The display might be harder -- the HP LED drivers on the 'Classic' calculators (35, 45, 55, 65, 70, 80) are _weird_. The LEDs are driven from the back-emf of a set of 8 indeuctors (one per segment) along the top edge of the PCB. And it's both-ways multiplexed -- only one segment is driven at a time (not all the segments of one digit as for more normal calculators). My feeling is that you should add buffering before wiring up an external display, but that the buffer circuits might not be totally trivial. Poke about on the CUCPS web site. There's a text file there giving IC/connector pinouts for some of the classic models, which might get you started.

Re: HP-45 school project

*Message #6 Posted by **Renato** on 5 Feb 2003, 11:57 a.m.,*

in response to message #1 by Michel Beaulieu

Not so simple, isn't it ? My contributions:

1. A few days ago, someone posted a link to HP-45 patents. At that time, I followed the link, and I'm pretty sure there was a schematic in the patent.

2. The 45 emulator (java) and the source code for the firmware are available - would it make sense to interface a matrix keyboard and a modern led display to a PC running the emulator ? In my opinion, this looks more like a school project.

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HP Part numbers Crossreference

*Message #1 Posted by **Richard Freeman (Australia)** on 2 Feb 2003, 7:09 p.m.*

I have been Trying to compile a list of HP part numbers against generic Part numbers I will post the list as a CSV under this one (if it fits) any additions/corrections or comments would be appreciated

Regards Richard Freeman

Crossreference in CSV (big post)

*Message #2 Posted by **Richard Freeman (Australia)** on 2 Feb 2003, 7:36 p.m.,*
in response to message #1 by Richard Freeman (Australia)

1810,0076,SIL Resistor 1k8*8,,
1810,0081,Resistor Pack,"""Multi-Value 27110 HPIB""",
1810,0122,Resistor Pack,3k3*13,
1810,0190,Resistor Pack,2k2*13,
1810,0206,Resistor Pack,10k SIP,
1810,0235,Resistor Pack,2k2 * 15,
1810,0307,AB316-101,100 Ohm resistor pack,
1810,0485,Resistor Pack,22k * 7 DIP,
1810,0592,RC Network,HPIL termination,
1810,0651,Network,HPIL components,
1810,0719,Resistor Pack,1k5 * 15,
1813,0285,20MHz osc,,
1813,0327,Delay Line,"""35ns 75ns HP150 RAM card""",
1813,0453,35.19MHz osc,,
1816,1104,no id number,1K ROM HP1350 Char. Gen.,
1816,1105,no id number,1K ROM HP1350 Char. Gen.,
1816,1118,no id number,256K ROM HP1350 Char. Gen.,
1816,1119,no id number,256K ROM HP1350 Char. Gen.,
1816,1120,82S126,Preprogrammed for HP1350 I/O,
1816,1697,63S241,PROM - HP150 Expanded RAM card,
1816,0353,74S188N,STTL,
1816,0354,74S387N,STTL,

1818,1003,C71016,9825B ROM - 00K LSB,
1818,1004,C51039,9825B ROM - 00K MSB,
1818,1267,C71019,9825B ROM - 10K LSB,
1818,1268,C51268,9825B ROM - 10K MSB,
1818,1269,C71021,9825B ROM - 20K LSB,
1818,1270,C51288,9825B ROM - 20K MSB,
1818,1271,C71023,9825B ROM - OPTA LSB,
1818,1272,C71024,9825B ROM - OPTA MSB,
1818,1273,C71025,9825B ROM - OPTB LSB,
1818,1274,C51292,9825B ROM - OPTB MSB,
1818,1275,CN45010,,
1818,1437,uPD446C-2,Memory,
1818,1611,6116,2K*8 RAM,
1818,1754,uPD5101,1K*4 CMOS SRAM,
1818,1774,2114,1K*4 RAM,
1818,1817,MK36844,ROM - HP9836,
1818,1818,MK36844,ROM - HP9836,
1818,3059,4164,DRAM,
1818,3079,2364,"""8k*8 ROM 3421 DAQ unit""",
1818,3080,2364,"""8k*8 ROM 3421 DAQ unit""",
1818,3198,6264,8K*8 RAM,
1818,3447,27128,EPROM,
1818,3526,AM9233CPC,IC,
1818,3529,23256,HP150-II ROM 1,
1818,3530,23256,HP150-II ROM 2,
1818,3531,23256,HP150-II ROM 3,
1818,3604,27128,EPROM,
1818,3648,23256,HP150-II ROM 0,
1818,3649,23256,HP150-II ROM 4,
1818,3932,62256,32K * 8 SRAM,
1818,4372,27128,EPROM,
1818,4373,27128,EPROM,
1818,4486,27C010-155,EPROM,
1818,0156,,4K DRAM,
1818,0373,MK34127N,,
1818,0643,6514?,1K*4 CMOS RAM,
1818,0701,6810,"""128 x 8 RAM",
1820,1032,74198,,
1820,1050,75454,,
1820,1053,7414,,
1820,1056,74132,,
1820,1057,DM86L76N,,
1820,1072,74S139,,

1820,1074,74128,,
1820,1076,74S174,,
1820,1077,74S157,,
1820,1112,74LS74N,,
1820,1114,mc14510bcp ,bcd up/down counter cmos,
1820,1120,uhp-402 sprag,"""ue """""general interface buffer""""" (HP special)""",
1820,1144,74LS02N,,
1820,1146,4050,,
1820,1150,4518,,
1820,1166,DM85L51N,,
1820,1193,74LS197,,
1820,1194,74LS193,,
1820,1195,74LS175N,,
1820,1196,74LS174,,
1820,1197,74LS00N,,
1820,1198,74LS03,,
1820,1199,74LS04N,,
1820,1200,74LS05,,
1820,1201,74LS08N,,
1820,1202,74LS10,,
1820,1203,74LS11,,
1820,1204,74LS20,,
1820,1205,74LS21,,
1820,1206,74LS27,,
1820,1207,74LS30N,,
1820,1208,SN74LS32N,LSTTL IC,
1820,1210,74LS51,,
1820,1211,SN74LS86AN,LSTTL IC,
1820,1212,74LS112,,
1820,1216,SN74LS138N,LSTTL IC,
1820,1217,74LS151,,
1820,1238,74LS253,,
1820,1240,74S138,,
1820,1244,74LS153,,
1820,1245,74LS155,,
1820,1255,DM8096N,* Interface IC similair to 74366,
1820,1257,74159,,
1820,1258,74178,,
1820,1260,74LS221,,
1820,1275,74S260,,
1820,1280,74LS181,,
1820,1281,74LS139,,
1820,1282,74LS109,,

1820,1283,74LS595BN,* LSTTL IC,
1820,1285,74LS54,,
1820,1288,8241 ? ,Quad 2 input Xor ?~?,
1820,1296,74LS295,,
1820,1297,74LS266,,
1820,1298,74LS251,,
1820,1300,74LS195,,
1820,1301,74S257,,
1820,1304,74S194,,
1820,1307,74S132,,
1820,1322,74S02,,
1820,1323,74S30,,
1820,1348,MM5307N,Baud Rate Gen,
1820,1358,93L34PC,Latch,
1820,1367,74S08N,,
1820,1402,74LS365,,
1820,1411,74LS75,,
1820,1412,4556,,
1820,1414,74LS12N,,
1820,1415,74LS13N,* LSTTL IC,
1820,1416,74LS14 ?,101P,
1820,1418,SN74LS42J,LSTTL IC,
1820,1419,74LS85,,
1820,1422,74LS122,,
1820,1423,74LS123,,
1820,1425,74LS132,,
1820,1427,74LS156N,,
1820,1428,74LS158,* LSTTL IC,
1820,1430,74LS161,,
1820,1433,74LS164,,
1820,1435,74LS669,,
1820,1437,74LS221,,
1820,1438,74LS257,,
1820,1439,74LS258,,
1820,1440,74LS279,,
1820,1441,74LS283,,
1820,1442,74LS290,* LSTTL IC,
1820,1443,74LS293,,
1820,1444,74LS298,,
1820,1445,74LS375N,,
1820,1447,74LS670,,
1820,1449,74S32N,,
1820,1451,74S38,* STTL IC,

1820,1453,74S163,,
1820,1469,74LS107,,
1820,1470,74LS157,,
1820,1478,74LS93N,,
1820,1486,4081,,
1820,1491,74LS367,,
1820,1492,74LS368,,
1820,1563,74C175,?,
1820,1568,74LS125,,
1820,1584,8046 ?,20 PIN,
1820,1633,74S240,,
1820,1641,74LS365,,
1820,1645,74LS126,,
1820,1655,74C906,Hex buffer,
1820,1673,SN97558N,,
1820,1676,74S373,,
1820,1689,MC3446,GPIB Buffer,
1820,1701,Intel 8080A,* Microprocessor,
1820,1729,74LS259,,
1820,1730,74LS273,,
1820,1745,4001,,
1820,1746,4049,,
1820,1747,mc14011bcp,2i/p nand cmos,
1820,1753,74C74,,
1820,1804,MPQ6842,Transistor Array,
1820,1810,MC3460,Clock Driver,
1820,1851,74LS148,,
1820,1897,mc14024bcp,7 stage cmos counter,
1820,1905,74S260,,
1820,1917,74LS240,,
1820,1918,74S241,,
1820,1932,4538,,
1820,1943,74S169,4028 ? Or 74S169,
1820,1960,4012,,
1820,1962,4028,CMOS Decoder,
1820,1963,mc14013bcp,dual d flip flop,
1820,1964,4027,,
1820,1970,4071,,
1820,1989,74LS393,,
1820,1991,74LS390N,,
1820,1997,74LS374,,
1820,2008,mc14015bcp,parallel out shift reg. dual 4 bit cmos,
1820,2012,SN74S373N,LSTTL IC,

1820,2013,4016,,
1820,2015,mc14070bcp,quad xor cmos,
1820,2024,74LS244,,
1820,2031,4014,,
1820,2037,mc14081bcp,2i/p and cmos,
1820,2044,74LS244,,
1820,2058,MC3448,GPIB Buffer,
1820,2075,74LS245,,
1820,2076,D3242,Dynamic Ram Address mux,
1820,2078,74LS490,,
1820,2096,74LS393,,
1820,2099,6802,Microprocessor ?,
1820,2102,74LS373,,
1820,2111,SN75468N,DRIVER IC,
1820,2117,9636,Line Driver,
1820,2177,8243,I/O expander,
1820,2198,9637,Line Receiver,
1820,2199,9638,Line Driver,
1820,2204,6402,UART,
1820,2206,74LS640,,
1820,2208,75462,,
1820,2210,74C00,,
1820,2211,74C04,,
1820,2215,74C373,,
1820,2216,74C374,,
1820,2220,4076,,
1820,2232,4034,,
1820,2268,74LS645,,
1820,2298,Z8400A,Z80A CPU?,
1820,2357,74C244,,
1820,2466,7555,CMOS timer,
1820,2483,75161,GPIB Control Buffer,
1820,2485,75160,GPIB Data Buffer,
1820,2488,74ALS74,,
1820,2505,68000,CPU (may be 68010),
1820,2506,74F04,,
1820,2520,75463,,
1820,2531,8250,UART,
1820,2536,74LS352,,
1820,2538,74C240,,
1820,2547,75162,GPIB Control Buffer,
1820,2548,9914,GPIB Controller,
1820,2549,8291,GPIB Interface,

1820,2557,74AS804,line driver,
1820,2564,8041,Peripheral Controller HP9836,
1820,2566,74C240,,
1820,2577,6551,Serial Chip,
1820,2621,74S255,,
1820,2622,74LS624,,
1820,2624,68B09,Microprocessor,
1820,2634,74ALS04,,
1820,2635,74ALS08,,
1820,2649,Z80B CPU,Microprocessor,
1820,2656,74ALS00,,
1820,2657,74ALS32,,
1820,2673,3870,"""Microcontroller 82165 GPIO""",
1820,2692,74F86,,
1820,2698,74F240,,
1820,2718,8039,ROMless microcontroller,
1820,2724,74ALS573,,
1820,2737,8048,Programmed for 82163 video interface,
1820,2739,74ALS02,,
1820,2740,74LS688,,
1820,2772,74ALS112,,
1820,2774,74ALS20,,
1820,2775,74ALS10,,
1820,2809,3870,"""Microcontroller 82165 GPIO""",
1820,2813,MM58167,Real Time Clock,
1820,2861,74F138,,
1820,2862,DS3667,,
1820,2948,8088-2,8MHz CPU,
1820,2960,COM8116,Baud Rate Generator,
1820,2975,C-2000,"""Gate Array backplane 27110 HPIB etc""",
1820,2983,68B21,PIA,
1820,2998,74HC373,,
1820,3084,8048,Programmed for 82169 HPIB interface,
1820,3089,7201,NEC Serial Chip,
1820,3100,74ALS138,,
1820,3121,74ALS245,,
1820,3167,74LS592,,
1820,3217,74ALS569,,
1820,3218,8048,Programmed for 82164 RS232,
1820,3258,74ALS137,,
1820,3267,C2000 Masked,Gate Array 98196 Mux,
1820,3321,1489,,
1820,3322,1488,,

1820,3331,Z8530,Serial Comms Controller,
1820,3358,16R6,PAL,
1820,3359,16R4,PAL,
1820,3378,74ALS373,,
1820,3420,PAL16L8,HP150 RAM Card,
1820,3431,75160,,
1820,3439,74ALS253,,
1820,3443,74AS808,,
1820,3465,74ALS174,,
1820,3466,74ALS175,,
1820,3467,74ALS832,,
1820,3513,75161,,
1820,3542,74AS373,,
1820,3545,80C96,,
1820,3608,74AS04,,
1820,3636,8048L,HPIB Thinkjet I/O PCB,
1820,3659,WD2793,Disk Controller,
1820,3695,74AS374,,
1820,3707,74ALS541,,
1820,3730,74AS08,,
1820,3766,WD2010,Hard Disk Controller,
1820,3825,Z8536,Parallel/Counter,
1820,3828,AM7990,,
1820,3883,Kaze,HP150-II Graphics Gate Array,
1820,3905,74ALS623,,
1820,3926,68000,10MHz,
1820,3936,8049,RS232 Thinkjet I/O PCB,
1820,3957,Pamela,HP150-II Memory gate array,
1820,4092,8742,HP150-II HP-HIL System,
1820,4192,PAL16R8,98625 GPIB card,
1820,4193,PAL16L8,98625 GPIB card,
1820,4194,16R4,LANIC,
1820,4195,16R6,LANIC Ethernet,
1820,4213,PAL20R8,98625 GPIB card,
1820,4222,Z8611-12,Masked Microcontroller 27110 HPIB,
1820,4401,AM7992,,
1820,4765,HAL16L8,HP150 Expanded RAM card,
1820,4766,HAL20X8,HP150 Expanded RAM card,
1820,4767,PAL20L10,HP150 Expanded RAM card,
1820,4768,PAL20L10,HP150 Expanded RAM card,
1820,4875,16R8,""""PAL 27110 HPIB",
1820,5980,16R6,""""PAL Lanic",
1820,5992,AM9516,,

1820,0018,??,"""Op-amp standard pinout",
1820,0051,uA702,Op-amp,
1820,0054,7400N,,
1820,0055,7490,TTL COUNTER,
1820,0056,7492,TTL COUNTER,
1820,0063,7451,,
1820,0068,7410,TTL GATE,
1820,0069,7420,,
1820,0070,7430,,
1820,0071,7440,TTL BUFFER,
1820,0072,7450,TTL ,
1820,0074,7454,,
1820,0075,7473,* TTL FF,
1820,0077,7474,* TTL DUAL D FF,
1820,0084,7453,,
1820,0085,7460,,
1820,0093,??,HP custom decade counter - like 7490,
1820,0094,6903 (SIM 7400),* DTL ,
1820,0099,7493,* TTL COUNTER,
1820,0107,??,Interface Buffer,
1820,0116,??,HP custom latch - like 7475,
1820,0125,711 ?,Dual Comparator,
1820,0174,7404,* TTL HEX INVERTER,
1820,0175,7405,,
1820,0196,uA723,* VOLTAGE REGULATOR (TO-99),
1820,0203,SL8940,"""Op-Amp ext comp Standard pinout",
1820,0223,??,"""Op-Amp ext comp Standard pinout",
1820,0233,74193,* TTL COUNTER,
1820,0244,SL701,Op-amp,
1820,0245,SL702,Op-amp,
1820,0250,??,6 Bit Comparator - 5055 Printer,
1820,0258,8193,DTL Dual JK flip-flop,
1820,0261,74121,* TTL ONE-SHOT,
1820,0269,7403,,
1820,0281,74107N,,
1820,0282,7486,* TTL GATE,
1820,0294,74164,,
1820,0321,uA710,* COMPARATOR (TO-99),
1820,0328,7402,,
1820,0348,4506,DTL Dual 4-input NAND,
1820,0363,7482,,
1820,0364,7491,,
1820,0370,74H00,,

1820,0371,74H10,,
1820,0373,74H20,,
1820,0376,74H40,,
1820,0380,74H53,,
1820,0383,74H60,,
1820,0386,74H71,,
1820,0430,78H05,TO3,
1820,0443,14960,Looks like 7493?,
1820,0468,74S45,16 PIN,
1820,0471,7406 ?,14 PIN,
1820,0477,/727??,8 PIN NAT SEMI,
1820,0478,??,"""Op-Amp ext comp TO99 Standard pinout",
1820,0493,LM307,Op amp,
1820,0495,B105 ?,24 PIN,
1820,0509,MC1488L,* RS232 DRIVER,
1820,0511,7408?,14 PIN,
1820,0513,7409,,
1820,0514,7426,,
1820,0535,SN55451BP,DRIVER IC,
1820,0537,7413?,,
1820,0567,MC4024,Dual VCO ?,
1820,0583,74L00,,
1820,0584,74L02,,
1820,0586,74L04,,
1820,0587,74L10,,
1820,0590,74L51,,
1820,0591,74L54,,
1820,0594,74L72,,
1820,0595,74L73,,
1820,0596,74L74,,
1820,0599,74L95,,
1820,06?1?,74s64n,,
1820,0620,74153,,
1820,0621,7438,,
1820,0622,74151,,
1820,0627,93L01??,BCD-Dec decoder,
1820,0627,93L0159??,* LTTL IC BCD TO DEC DECODER,
1820,0629,74S112N,,
1820,0640,74150,,
1820,0655,7425,,
1820,0656,74L98,,
1820,0658,93L12DC,Mux,
1820,0668,7407 ?,14 PIN,

1820,0681,74S00N,,
1820,0682,74S03,,
1820,0683,74S04N,,
1820,0684,74S05,,
1820,0685,74S10,,
1820,0686,74S11,,
1820,0688,74S20N,,
1820,0693,74S74N,,
1820,0702,93L1159,1-16 decoder,
1820,0704,74122,,
1820,0706,9324,5-bit comparator,
1820,0710,SL17315=74157,Mux,
1820,0716,74161,,
1820,0742,,8 * D type Flip Flop or Latch,
1820,0744,7497,,
1820,0777,?74L42,BCD-Decimal decoder,
1820,0788,SN35431=74174?,,
1820,0798,??,HP custom - 6 decade counter,
1820,0799,75452,,
1820,0839,74175,,
1820,0876,74L75,,
1820,0904,93L24,Comparator,
1820,0939,4013,,
1820,0946,QQ8042 ?,14 PIN,
1820,0981,,14 PIN,
1820,0990,1489,RS232 Receiver,
1820,1016,75453,,
1820,1487,,Logic Pulsar IC - 546A,
1820,1600,4093,quad schmitt input NAND,
1820,1610,,Logic Probe IC - 545A,
1820,1688,74LS247,BCD - 7SEG,
1820,2131,MC3870P,,
1820,2132,ICM7218A,LED DRIVER,
1820,2139,,Multiple Register Counter? - 5315B Counter?,
1820,2171,,ECL Pre Scaler,
1820,4790,74ALS245 - SMD ,Surface mount octal Tristate Transceiver,
1820,5053,74F125 - SMD,Surface mount buffer ,
1820,5950,74AC04 - SMD,Surface mount hex inverter,
1820,5934,74AC138 - SMD,Surface mount 3 - 8 demux,
1820,6066,74AC245 - SMD ,Surface mount octal Tristate Transceiver,
1820,0256,MC858,DTL Quad 2-input NAND,
1821,0001,CA3046,5 NPN TRANSISTORS,
1826,1014,78H12,,

1826,1218,7824,,
1826,0009,??,"""Opamp ?? - TO99",
1826,0051,,14 PIN,
1826,0059,LM201,,
1826,0064,uA733,AMPLIFIER IC,
1826,0065,LM311P,COMPARATOR IC,
1826,0065,LM311,,
1826,0072,LM208,,
1826,0081,LM318,TO99 Package,
1826,0089,??,"""Op-Amp TO 99",
1826,0106,7815,,
1826,0111,,METAL CAN,
1826,0122,7805,,
1826,0123,,TO3,
1826,0138,SM340 /LM339,14 PIN,
1826,0147,7812,,
1826,0167,CA3094,TO99 Package,
1826,0174,MC3302,14 PIN,
1826,0174-1,MC3302,14 PIN,
1826,0180,555,,
1826,0181,78H05,,
1826,0188,MC1408,8-BIT DAC,
1826,0194,NE592,,
1826,0210,NE527,Comparator - NE529??? LM361,
1826,0214,7915,,
1826,0271,741,,
1826,0291,LM324,Quad Op amp,
1826,0294,7912,,
1826,0346,LM358,Dual Op amp,
1826,0357,LF357,OP AMP IC,
1826,0393,LM317T,,
1826,0412,LM393,DUAL COMPARATOR IC,
1826,0424,MC3405P,Dual Op amp,
1826,0426,AM687ADL,Dual Comparator,
1826,0450,TL497,Voltage reg,
1826,0467,MC1403P1,Voltage Ref precision,
1826,0493,LM308,,
1826,0522,TL074,Quad Op-Amp,
1826,0527,LM337T,,
1826,0544,MC1403,Voltage ref,
1826,0589,,,
1826,0635,OP-07CP,,
1826,0698,AD590JH,Temperature Sensor,

1826,0719,LM346,,
1826,0774,LM385BZ,,
1826,0822,AD524KH,Instrumentation Op-amp,
1826,0903,MC1372,Video Modulator,
1826,0904,LM330T-5.0,,
1853,0012,2N2904A,* TRANSISTOR ,
1853,0031,2N3789,* TRANSISTOR ,
1853,0036,,Transistor PNP 310mW 250Mhz,
1853,0045,2N 4036,Metal can,
1853,0051,2N4037,TRANSISTOR ,
1853,0258,2N4035,* PNP TRANSISTOR ,
1853,0312,2N5160,* PNP TRANSISTOR ,
1853,0363,X45H281,50W PNP Transistor,
1853,0389,,350mW PNP TO-92 Transistor,
1853,0414,2N6423,* TRANSISTOR ,
1853,0412,,Transistor PNP ,
1854,0012,2N2904A,TRANSISTOR ,
1854,0039,2N3053,TRANSISTOR ,
1854,0053,2N2218,TRANSISTOR ,
1854,0063,2N3055,* NPN TRANSISTOR ,
1854,0345,2N5179,* NPN TRANSISTOR ,
1854,0477,2n2222A,to18 NPN Transistor,
1854,0743,2N5878,* NPN TRANSISTOR ,
1854,0784,2N3866A,* NPN TRANSISTOR ,
1854,0809,2N2369A,* NPN TRANSISTOR ,
1854,0955,2N5662,TRANSISTOR TO-5,
1854,0699,,Transistor NPN 30W,
1855,0213,,Dual Jfet N chan D mode TO78,
1855,0228,,Jfet N chan D mode TO-92,
1858,0040,CA3127,Transistor Array,
1858,0044,MPQ3904 (?),* 4 NPN TRANSISTORS ,
1858,0047,uln2003an,npn darlington trnsistor array,
1858,0050,CA3082,NPN 7-transistor array,
1858,0058,TPQ3906,? 4 PNP Transistors,
1858,0097,ULN2023A,,
1858,0099,MC1413,7 Drivers,
1901,0050,,Diode Switching 80V 200mA 2nS,
1901,0511,iN3889,FAST RECTIFIER,
1LB3,0003,?,HPIL Chip,
1LF4,0001,?,"""Video Chip 82163",
1LG7,0064,?,"""Saturn ROM",
1LH4,0001,?,"""HPIB Buffer 40 Pin",
1LJ7,0014,Saturn,"""CPU Centronics and RS232 Thinkjet",

1LJ7,0015,Saturn,"""CPU HPIL and HPIB Thinkjet",
1LJ7,0024,Saturn,"""CPU Portable Parallel Thinkjet""",
1QF6,0066,?,"""ADC Hybrid 3421 DAQ unit""",
1QH5,0085,?,"""Input Hybrid 3421 DAQ unit""",
1RD2,6001,Cerberus,HP-HIL Master Chip,
1RE3,0001,Pacific,HP150-II Alpha Video Gate Array,
1TL1,0001,Medusa,HPIB Controller (48 pin DIP),
1TL1,0006,Medusa,HPIB Controller,

Re: Crossreference in CSV (big post)
*Message #3 Posted by **Jon Ibarra** on 3 Feb 2003, 10:49 a.m.,*
in response to message #2 by Richard Freeman (Australia)

Can anybody help me to identify two transistors in the AC-DC circuit of an old HP-33E. What I can read on them is:

608 536

Thanks in advance

Jon Ibarra

Re: Shot Transistor in HP33E
*Message #4 Posted by **Richard Freeman (Australia)** on 3 Feb 2003, 4:53 p.m.,*
in response to message #3 by Jon Ibarra

Unfortunately I cannot find a Transistor with that part no in any of my lists or nothing I can match up to it ...

I take it you mean the DC-DC Convertor ??

http://www.rskey.org/calckb01.htm suggests a 2n3904 with legs swapped around works as a replacement for one of the Transistors. are all the Transistors on this board the same type (I understand there are 4 altogether) ?
are you sure both these Transistors are shot ?
I would expect that this application was fairly non critical (part of an oscillator circuit) and that most generic types would do the job

Re: Crossreference in CSV (big post)
*Message #5 Posted by **Tony Duell (UK)** on 3 Feb 2003, 6:05 p.m.,*
in response to message #2 by Richard Freeman (Australia)

Actually, I started that list many years ago when I first got into HP repairs. I made a text file of the HP numbers, equivalents, etc. And I added notes like 'Programmed for 82164' or whatever. 'Official' equivalents lists don't include comments like that, so a list that includes them is probably based on my original list. I sent the list to a few people and at least one of them started distributing it without checking with me first. Not that I really mind -- I believe in sharing information, and anything that can be done to keep these fine machines running is a Good Thing. But it would be nice to be associated with it...

Re: Crossreference in CSV (big post)
*Message #6 Posted by **Richard Freeman (Australia)** on 10 Feb 2003, 7:09 p.m.,*
in response to message #5 by Tony Duell (UK)

Tony From your Description it sounds like you are the originator of the Bulk of the list .

I am more than happy to include credits with the list

Regards Richard Freeman

Re: HP Part numbers Crossreference
*Message #7 Posted by **Katie Wasserman** on 2 Feb 2003, 9:34 p.m.,*
in response to message #1 by Richard Freeman (Australia)

Have you seen this huge HP cross-reference?

http://www.sphere.bc.ca/test/hp-parts/300-hpxref.pdf

Re: HP Part numbers Crossreference

*Message #8 Posted by **Richard Freeman (Australia)** on 2 Feb 2003, 10:17 p.m.,*
in response to message #7 by Katie Wasserman

Thanks yes I had found that list which seems to be mostly Discrete components and another list off the internet (I have forgotten where for the moment) and added the ICs off them to my List. I started putting together this list as it was getting annoying trying to identify components in my 9825B. -The tape Drive is Faulty as the SFL flag (flip flop) gets set when the drive rewinds (Causing error 43) and I am yet to see the drive go in the Forward direction.

It has been hard enough trying to identify which component is which between the PCB and the Circuits from the Patent without these blasted HP part nos all over everything.

A friend of mine recently picked up an old Frequency Counter and ran into the same problem which was when I decided to start seeing what info people had on HP part nos

I will write more on the 9825 when I have the problems fixed although any suggestions from anyone who knows these beasties would be appreciated I appear to be getting a higher than expected Voltage into the SFL comparators which in turn sets the Servo fail Flip Flop.... - yes the Tacho is providing pulses into the Servo Circuit.

But then maybe that will take away the challenge.....:-)

Regards Richard Freeman

Re: 9825 fault

*Message #9 Posted by **Richard Freeman (Australia)** on 3 Feb 2003, 5:01 p.m.,*
in response to message #8 by Richard Freeman (Australia)

one of the problems with the 9825 has been Identified the Servo Fail circuit has a shorted Zener Diode.
I am not sure what value this diode is yet but it is one of a pair of Back to Back diodes and the other seems OK so I will have to measure that one. Then on to the next Fault .....

Regards Richard Freeman

Re: HP Part numbers Crossreference

*Message #10 Posted by **Jon Ibarra** on 3 Feb 2003, 10:44 a.m.,*

in response to message #1 by Richard Freeman (Australia)

I have problems with two transistors I can´t identify in the AC-DC circuit of an old HP 33-E. The part numbers I can read are:

608 536

Can anybody help me to get new comercial spare parts?.

Thanks in advance

Jon Ibarra

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Is this a good/reasonable price?
*Message #1 Posted by **Silvio** on 2 Feb 2003, 6:10 p.m.*

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&category=11712&item=3004982650

They say the calculators are new, but how much did they cost when in production? Also, a few days ago Martin posted a message saying HP just found some 17s and 19s, and they would be put on sale by mid Feb.

... or this one?
*Message #2 Posted by **Silvio** on 2 Feb 2003, 6:18 p.m.,*
in response to message #1 by Silvio

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3004590460&category=11712

Not new, but supposed to be mint. Does anyone know this dealer?

Thanks.

Re: ... or this one?
*Message #3 Posted by **Raymond Del Tondo (Germany)** on 2 Feb 2003, 7:06 p.m.,*
in response to message #2 by Silvio

Hi,

no, I don't know that dealer. compare these prices with those on www.samsoncables.com .

Their ads are similar, but their prices are even higher.

Regards,

Raymond

Chris Edmunds runs Samson Cables.
*Message #4 Posted by **Michael Tjebben** on 2 Feb 2003, 8:56 p.m.,*
in response to message #3 by Raymond Del Tondo (Germany)

Chris Edmunds runs Samson Cables. I think that this must be his ebay effort. I purchased an HP49G from him a year or so ago and it had troubles. Chris did a GREAT job of helping me get a replacement. Therefore, considering he had the lowest price (at the time) on brand new HP49G's and he backed his product, I was quite pleased!

-Mike

Re: ... or this one?
*Message #5 Posted by **Spice_Man** on 2 Feb 2003, 7:10 p.m.,*
in response to message #2 by Silvio

I've dealt with this dealer, and he is professional in the way he manages his sales. According to EBay, his feedbacks consist of "1697 positives. 1464 are from unique users. 5 neutrals. 4 negatives. 4 are from unique users. "

I'd say that's a pretty good record.

Spicey

Re: Is this a good/reasonable price?
*Message #6 Posted by **Todd G.** on 2 Feb 2003, 9:09 p.m.,*
in response to message #1 by Silvio

I've never done business with this seller, but from the asking prices, I'd say they were "opportunistic". I thought the 17BII prices were out of line, but the 32SII prices were completely insane. Pay it if you want, but I'd send my business elsewhere due to the shameless high prices.

Other options
*Message #7 Posted by **Renato** on 2 Feb 2003, 9:26 p.m.,*
in response to message #1 by Silvio

Silvio, If you are really looking for 17BII, there are better online and offline deals in Brazil. I just bought a very nice 17bII for R$140,00 (less than US$40.00). A month ago, I bought a used condition for R$80,00 (less than US$30). I can find a new in box, old stock for US$100,00.

Auctions run in mercadolivre for R$180.00 to R$250.00 - but please, do not pay these prices - you would inflate prices here.

I can help you find a good deal around here - just get in touch.

Abraços, Renato

Re: Other options - In Portuguese
*Message #8 Posted by **Silvio** on 2 Feb 2003, 11:43 p.m.,*
in response to message #7 by Renato

Oi Renato, me manda um email com o teu endereco eletronico, e podemos tentar ver como comprar uma dessas calculadoras. Obrigado.

Sorry for the Portuguese guys :-)

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HP 9S and 9G are available...
*Message #1 Posted by **Stan (Sg)** on 2 Feb 2003, 4:34 a.m.*

...finally. The 9S and 9G have been on HP's web site for a loooong time listed as out of stock. Recently, they have been listed as available. I have not checked with the dealers in Singapore yet, but hopefully they will be here soon.

Still no sign of the HP 49, looks like it has been cancelled.

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Screen contrast on HP 19BII
*Message #1 Posted by **Nick Nicholas** on 2 Feb 2003, 3:39 a.m.*

The screen contrast on the 19BII that I have seems to be worse than the 17BII. On the 17BII, the numbers are dark black on a relatively light background. On the 19BII, in order to get the same darkness of the foreground, the background is much darker than on the 17BII. Pressing the on and -/+ keys do not improve the situation on the 19BII. Can someone confirm that this is the case or does my 19BII have a defective screen?

Re: Screen contrast on HP 19BII
*Message #2 Posted by **Christof** on 2 Feb 2003, 4:41 a.m.,*
in response to message #1 by Nick Nicholas

I'm not entirely positive, since I can't see your LCD, but I'm fairly sure it is not defective. the Champion LCDs seem to have a lower absolute contrast value than most other HP LCD screens- vastly worse than the 32Sii, a bit worse than the 42/17 pioneers.

I find that the viewing angl emakes a huge difference, though

Re: Screen contrast on HP 19BII
*Message #3 Posted by **Gordon Dyer** on 2 Feb 2003, 7:19 a.m.,*
in response to message #1 by Nick Nicholas

Unfortunately this is related to the LCD technology of that time.
The first multiplexed screens with many pixels did not give good contrast and the more pixels which had to be multiplexed the lower the contrast. This is why the 7 segments are the best, the 1 line screens like the 32SII are next best, the 2 line 42s and 17BII are next best and the 4 lineers like the 19BII are the worst!
Today the LCD technology is vastly improved giving enough contrast for a clear display even when multiplexed, but often the TFT screens have a driver transistor per pixel built in so they are the best.
There is no excuse for HP's new calculators to have low contrast screens - unless they are penny-pinching (make that dimes).

Re: Screen contrast on HP 19BII
*Message #4 Posted by **Nick Nicholas** on 2 Feb 2003, 4:29 p.m.,*
in response to message #3 by Gordon Dyer

My HP 19BII was manufactured in 2000 with the relocated battery cover so HP had the opportunity to improve the screen but choose not to probably for cost reasons.

Re: Screen contrast on HP 19BII
*Message #5 Posted by **Rick** on 2 Feb 2003, 8:57 a.m.,*
in response to message #1 by Nick Nicholas

I own one of the earliest models of 19bII and can tell you that the early models have better contrast than the newer models.

Re: Screen contrast on HP 19BII
*Message #6 Posted by **Gordon Dyer** on 2 Feb 2003, 1:06 p.m.,*
in response to message #5 by Rick

Personally I have never tried full immersion and also feel wary of it, but I am sure it will cause problems with the LCD.
I guess if the water is well dried out as suggested and you do not immerse for too long it should be ok, but the porosity of the plasic encapsulation for ICs should protect them for about an hour, and keeping it warm will get the juice out faster. Than you should dry it as suggested within an hour.
Good Luck! It is better to try this than have a permanently disables calculator.

Re: Screen contrast on HP 19BII
*Message #7 Posted by **Gordon Dyer** on 2 Feb 2003, 6:47 p.m.,*
in response to message #6 by Gordon Dyer

Sorry, this went in the wrong place!

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HP41 programming.
*Message #1 Posted by **Howard** on 1 Feb 2003, 11:39 p.m.*

Pardon my ignorance but can somebody give me a good example of what Indirect Addressing is all about. Seems to me that it would be just as efficient to do it by Direct Addressing.

Re: HP41 programming.
*Message #2 Posted by **Christof** on 2 Feb 2003, 12:16 a.m.,*
in response to message #1 by Howard

okay, imagine a menu for a PIM.

option 1 runs subroutine 01 (LBL 01), which allows you to enter a new contact.

option 2 runs a subroutine (LBL 02) to delete a contact

option 3 runs a subroutine (LBL 03) to search for a contact.

you get the value into the X register, and then you XEQ IND ST X

(execute function pointed to by the value in X)

Re: HP41 programming.
*Message #3 Posted by **Johnny Billquist** on 3 Feb 2003, 12:59 p.m.,*
in response to message #1 by Howard

Very simple example: Clear registers 00 to 10:

01 LBL"CLR" 02 .010 03 0 04 LBL 00 05 STO IND Y 06 ISG Y 07 GTO 00 08 END

Now, doing that with direct addressing means you would have ten stores. Even better, this code could actually take in X the start and end register, so you have full flexibility. That isn't even practically possible with direct addressing.

You can do any number of things with indirect addressing. The point is that it is what you use when you don't know which register you really want, or if you want to do something with a number of registers.

Johnny's example as a CX counterpart
*Message #4 Posted by **Vieira, Luiz C. (Brazil)** on 3 Feb 2003, 1:58 p.m.,*
in response to message #3 by Johnny Billquist

Hi, Jhonny;

your example made me remember one CX-only feature: CLRGX. Do you have an HP41CX? Your very good example of how to use indirect addressing as for accessing registers contents would be like this in an HP41CX:

```
.01
CLRGX
```

and that's all. CLRGX is available only in the HP41CX, but I do not know if those unusual module (HEPAX, CCD, ADVANTAGE, PPC, PANAME) also have it; the X-Functions doesn't.

Cheers.

Re: Johnny's example as a CX counterpart

*Message #5 Posted by **Johnny Billquist** on 4 Feb 2003, 9:28 a.m.,*

in response to message #4 by Vieira, Luiz C. (Brazil)

Me? Yes, I have a fullnut CX. I also have two X-mem built in, as well as the ZENROM. Then I have the barcode reader, magnetic cards, HPIL, X IO, Advantage Pac, MLDL, Cassette station and video interface. I only miss an IL printer, floppy disk and RS-232 interface, and I'd be totally happy.

Oh, and of course my batteries for the cassette station are going bad. I'll have to try doing something about them one day...

About the programming example; I was aware of the fact that the CX have a function for the thing I wrote, but it was about the easiest program example I could think of that really showed a case where you really do something useful which cannot easily be done without indirect addressing.

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hp 48gx really not going to be discontinued?
*Message #1 Posted by **lokhin** on 1 Feb 2003, 9:09 p.m.*

there are posts mentioning that the hp 48gx is still manufactured, and calculators are no longer in hpshopping.com closeout page, does it show that the hp 48gx is really still being made, and hp is back to the calculators business? have all of the facts shown?

Re: hp 48gx really not going to be discontinued?
*Message #2 Posted by **Nick Nicholas** on 1 Feb 2003, 10:39 p.m.,*
in response to message #1 by lokhin

I know that in Canada, the HP 48 series has been declared obsolete and unavailable to resellers so what does that suggest?

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Battery/Charger usage
*Message #1 Posted by **Silvio** on 1 Feb 2003, 7:02 p.m.*

Hi all.

I have a question on the use of AC Adapter/Chargers. I have a 41CX that I use at the office and a 41C at home, both have a rechargeable 82120A battery pack in very good condition, and holding charge for relatively long periods. Will I damage the calculators if I use the charger all the time? Will it damage the batteries?

Thanks.

Re: Battery/Charger usage
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 1 Feb 2003, 8:52 p.m.,*
in response to message #1 by Silvio

Hi, Silvio; tudo bem? (are you well?)

This is not a complete reference, but I believe it is a good starting point; I would appreciate extra comments, suggestions and mostly corrections.

Based on what I know and have heard about, NiCad's and NiMH have different behavior when recharging cycles are the issue. AFAIK, NiCad's should never be used till their charge (ddp and load current) is nearly exhausted, meaning they should not be connected to the load for longer than it's recharging demand. Otherwise there are some "dangers" (not destructive) related to the so called "memória de carga" (I do not know the name of it in English, but this is the effect observed when charging cycles happen too frequently, mostly before proper time, and the batteries get "used to" that behavior) observed in the NiCad's. Based on these facts, allowing the batteries to discharge till the equipment signals this fact is the procedure I'm adopting so far. If I am using the equipment (calculator, printer, any NiCad operated portable) and it signals Low Battery condition, I promptly connect it to the AC adapter and let it connected for as long as stated in its manual/guide. I avoid using the charger for periods in time longer than the necessary to fully recharge the batteries. I read that NiMH batteries are a bit different, because

they do not have the "memory" effect and may be recovered when nearly exhausted.

The only equipment I saw that has a different charging procedure is the 9114B disk drive, but it uses an acid-composed battery (like automotive batteries) and this is another story: they better be floating around their operating voltage for as long as they can be.

Hope this helps. And please, guys, add whatever needed to complete this information, O.K.?

Luiz C. Vieira

Re: Battery/Charger usage
*Message #3 Posted by **Jon Ibarra** on 2 Feb 2003, 4:34 p.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

NiMH batteries have less memory effect than NiCd but I´m affraid they also have. So it is recommended to discharge them as much as possible before charging again. I think LiIon batteries (used mainly in handy phones) have no memory effect but I´m not sure.

Regards.

Jon Ibarra

Re: Battery/Charger usage
*Message #4 Posted by **David Smith** on 2 Feb 2003, 4:45 p.m.,*
in response to message #1 by Silvio

It is always best to not leave batteries on charge for extended periods. The HP91/92/97 in particular dump a lot of current into a pack and it will get quite warm... a good indication of a full charge. The 82120A is not as bad, but longest battery life will occur if it is not overly charged. With NiCad batteries you should use them until they are discharged before recharging.

Re: Battery/Charger usage - Thanks
*Message #5 Posted by **Silvio** on 2 Feb 2003, 6:04 p.m.,*
in response to message #1 by Silvio

Thank you all. Apparently it is a bad idea to just let the calculators connected to the charger all the time. I'll have to remember to disconnect the machines every day before came home, or keep using the regular alkaline batteries.

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41C repairs needed in Germany
*Message #1 Posted by **Randy Sloyer** on 1 Feb 2003, 6:37 p.m.*

I received an email from a 41C user in Germany looking for help with his only HP calculator. Does anyone know of an individual or company that can fix an ailing 41C over there? It sure would save a lot of postage and time.

Seems to go dead intermittently and then display strange characters when it comes back to life.

Re: 41C repairs needed in Germany
*Message #2 Posted by **Christoph Klug** on 3 Feb 2003, 3:48 a.m.,*
in response to message #1 by Randy Sloyer

Some years ago there exist a third party company from HP which repairs failured handhelds - including the HP41. But now every support is colsed, and I do not know any company in Germany who repairs HP handhelds today...

Best wishes from Germany - Christoph Klug

Re: 41C repairs needed in Germany
*Message #3 Posted by **Raymond Del Tondo** on 3 Feb 2003, 5:11 a.m.,*
in response to message #2 by Christoph Klug

Maybe it's cheaper to try to get a replacement HP-41 through the museum ads, or even eBay.

Another idea: There should be links to repair services somewhere on the museum site.

Regards,

Raymond

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Port Extender for HP 41
*Message #1 Posted by **Klaus (ger)** on 1 Feb 2003, 4:12 p.m.*

I have never heard about this before! Very interesting. http://cgi.ebay.de/ws/eBayISAPI.dll?ViewItem&item=2303152508&category=9972

regards Klaus

Re: Port Extender for HP 41
*Message #2 Posted by **Raymond Del Tondo** on 3 Feb 2003, 10:08 a.m.,*
in response to message #1 by Klaus (ger)

When I was younger, these port extenders were relatively common amongst die-hard HP-41 users. A few people from the CCD club had either the one from CT or a similar type, I don't recall the brand.

But since my I had (and still have) the MBK ProfiSetII RAM box, there was no need for me to get that CT device back then. If I had known how rare they're now, I'd bought one, of course;-)

Regards,

Raymond

Before you ask: The ProfiSet RAMBox existed long time *before* the W&W RAMBox. Actually, the W&W Box OS was developed with an MBK ProfiSet.

Re: Port Extender for HP 41
*Message #3 Posted by **Chris(FLA)** on 3 Feb 2003, 11:54 p.m.,*
in response to message #2 by Raymond Del Tondo

When I was younger, these port extenders were relatively common amongst die-hard HP-41 users. A few people from the CCD club had either the one from CT or a similar type, I don't recall the brand.

The other one is the AME Design Port-X-Tender. I have 2 of these and they are a valuable item in terms of what they can do.

The Port-X-Tender also has dip switches so you can turn ports on and off as needed.

Chris

Re: Port Extender for HP 41 & other goodies
*Message #4 Posted by **Raymond Del Tondo** on 4 Feb 2003, 7:04 a.m.,*
in response to message #3 by Chris(FLA)

Hi Chris,

many thanks for the enlightment.

Regards,

Raymond

BTW: Do you recall the plug-in miniature light for the HP-41? I was offered such a thing by my favourite HP dealer back in the early eighties. It consists of a printer plug with a switch, a flexible arm, and of course the light at the end of the arm.

Re: Port Extender for HP 41 & other goodies
*Message #5 Posted by **Chris(FLA)** on 4 Feb 2003, 8:48 a.m.,*
in response to message #4 by Raymond Del Tondo

BTW: Do you recall the plug-in miniature light for the HP-41? I was offered such a thing by my favourite HP dealer back in the early eighties. It consists of a printer plug with a switch, a flexible arm, and of course the light at the end of the arm.

Hi Raymond,

No idea what that item was. This sounds like a reading light type thing maybe so you can use the machine in low light?

Sorry can't help you more.

Chris

Re: Port Extender for HP 41 & other goodies
*Message #6 Posted by **Jake Schwartz** on 7 Feb 2003, 11:09 a.m.,*
in response to message #5 by Chris(FLA)

The Port-X-Light was also made by AME in a fit or "madness" <grin>... it worked, but did suck battery power from the HP41 itself. Same time frame as the Port-X-Tender - right around 1982. They sold both like hotcakes at the Philly PPC Calculator Conference that year.

Jake Schwartz

Re: Port Extender for HP 41 & other goodies
*Message #7 Posted by **Emmanuel, France** on 7 Feb 2003, 11:59 a.m.,*
in response to message #6 by Jake Schwartz

```
I have a 8 port Xtender made by SCIP, Paris. It also includes three little 1.5V
batteries.
Really helpful ,powerful, ... for an HP-41C with 4 Memory Modules, 1 X-Functions, 2
X-Memories, 1 Time, 1 card reader...
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Sadness about Space Shuttle Columbia loss
*Message #1 Posted by **Andrés C. Rodríguez (Argentina)** on 1 Feb 2003, 1:45 p.m.*

Just to express the feeling of sadness about the loss of this flagship of technology and peaceful advancement of science. The relation between Columbia first flights and HP41 use in space touches an additional symbolic note for us, HP calculator fellows.

Re: Sadness about Space Shuttle Columbia loss
*Message #2 Posted by **Christof** on 1 Feb 2003, 4:24 p.m.,*
in response to message #1 by Andrés C. Rodríguez (Argentina)

Ouch.

I'm sort of speechless about what I'm feeling.

Except maybe- so many people I've talked to today think we should pull back on the space program. I have this automatic reaction that the only sensible thing to do is increase the space program dramatically. soemthing like "they aren't going to beat us that easily"

I hope the astronauts' children (and mine) don't grow up in a world without manned space flight

Re: Sadness about Space Shuttle Columbia loss
*Message #3 Posted by **David Smith** on 1 Feb 2003, 5:33 p.m.,*
in response to message #2 by Christof

A friend of mine from college worked on the original shuttle design as a failure statistics analyst. Of course he used HP machines... he had the first HP97 that I ever saw. They came up with an estimate that 1 in 35 shuttle flights would end in disaster (long since poltically spun up to today's estimate of 1 in 150 flights). Today's flight was number 88. With two disasters now, I think those original estimates were right on.

Re: Sadness about Space Shuttle Columbia loss
*Message #4 Posted by **Paul Brogger** on 3 Feb 2003, 5:24 p.m.,*
in response to message #3 by David Smith

Does anyone know of a forum where the underlying issues are being debated?

While I don't want manned space flight curtailed, there has long been a debate over whether the Shuttle has been the best expenditure of NASA dollars. I think the functions of payload lift and crew flight should have been kept separated. I'm no expert, but tying the crew to payloads in a consequently too-big, tile-covered space plane seems to have resulted in a dangerous kludge.

For the long term, U.S. Manned Space Flight is not necessarily equivalent to the Space Shuttle, and some serious re-examination is in order.

This, of course, implies nothing derogatory about the astronauts or their commitment.

Re: Sadness about Space Shuttle Columbia loss
*Message #5 Posted by **Chris(FLA)** on 1 Feb 2003, 9:45 p.m.,*
in response to message #2 by Christof

so many people I've talked to today think we should pull back on the space program.

Suggest to these people to go visit the Kennedy Space Center Museum and see for themselves how the space program has contributed to how they live there life today.

Even me a space junky who thought I knew alot about the space program and what has come out of it was very suprised at the volume of products/technology that have come out of the space program.

I went to Titusville to watch this launch. This was my second shuttle launch and I saw an Apollo launch as well. I hope to see more and I hope many generations will be able to see them to and benefit from the research and technology that will come from there research and experiments.

My heart and soul go out to the families that have been affected by this unfortunate event.

Chris

Space Shuttle Columbia....
*Message #6 Posted by **Chris(FLA)** on 2 Feb 2003, 8:56 a.m.,*
in response to message #5 by Chris(FLA)

Columbia Launch:

(picture unavailable)

God Bless them all.

Chris

Re: Space Shuttle Columbia....
*Message #7 Posted by **Glen Kilpatrick** on 3 Feb 2003, 11:42 a.m.,*
in response to message #6 by Chris(FLA)

Thank you for the photo, Chris. It brings home the promise and the loss better than mere words.

The other point that I want to raise: I've read so many places the sentiments of so many, that this tragedy must not be allowed to derail the space program. The future of humanity is Out There; even Konstantin Tsiolkovsky said, "Earth is the cradle of humanity, but one cannot remain in the cradle forever.".

And having witnessed the moon landings on B&W TV, I can only say we're overdue for a permanent presence somewhere else. Let's just not build any more space shuttles, but move on from that technology.

Re: Sadness about Space Shuttle Columbia loss
*Message #8 Posted by **lokhin** on 1 Feb 2003, 8:37 p.m.,*
in response to message #1 by Andrés C. Rodríguez (Argentina)

Its a sad day for NASA and families of the crew on board STS-107. I would like to send my prayers, condolences to the crew of the STS-107 which disintegrated above Teaxas, US.

Re: Sadness about Space Shuttle Columbia loss
*Message #9 Posted by **Scott Pritchard** on 1 Feb 2003, 10:05 p.m.,*
in response to message #8 by lokhin

I think the greatest respect we could give for our fallen astronauts, is to morn there loss. Then increase our efforts to the challenge these astronauts have lost there lives to. Giving up should not be a option. The lesson that will be learnt from this tragic loss, should not be wasted because of trepidation of what is not yet known. Respectfully Scotty.

Re: Sadness about Space Shuttle Columbia loss
*Message #10 Posted by **Christof** on 1 Feb 2003, 10:08 p.m.,*
in response to message #9 by Scott Pritchard

To paraphrase what I said in another converstion:

The only fitting monument to fallen astronauts if one I can take my daighter to. 300 miles up.

I't sbeen an unfun day, and I hope the families and the NASA team get some peace.

Re: Sadness about Space Shuttle Columbia loss
*Message #11 Posted by **Juan J** on 2 Feb 2003, 11:16 p.m.,*
in response to message #10 by Christof

A terrible tragedy,indeed. Columbia and HP-41s were entwined for quite a while, ans as a user I really feel sad.

On the other hand is remarkable that a shuttle with an envisioned life span of fifteen or so years kept soldierong on long after its supposed retirement from active duty. A tribute to American and NASA technology, I think.

My deepest and more sincere condolences for the lives that were lost and their families.

While we all feel sad for such a tragic loss, retirement is not an option. After finding out what really happened, we must keep going with space exploration. After all, our little machines are a spin-off of the technology developed to teke us to the space. And there is so much that still has to be done regarding a better understanding of what lies above our heads...

May the lives that were unfortunately lost yesterday keep us going forward. It's the

best we can do to honor their memory.

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Sunny UnDelight
*Message #1 Posted by **AshP** on 1 Feb 2003, 1:07 p.m.*

Disaster!

I have spilt OJ on my 32sii and, whilst it didn't have the most positive key-click feedback, the sticky clickiness that it now has is going just a bit too far.

Has anyone experience of cleaning these things? I notice that there are 4 plastic rivets inside the battery cover, which appear to hold the case together. Whilst I could happily dissemble it by drilling these out - I'm not quite sure what I'd find inside.

Any suggestions - apart from giving up orange juice for life!

Re: Cleaning a keyboard
*Message #2 Posted by **Randy Sloyer** on 1 Feb 2003, 6:20 p.m.,*
in response to message #1 by AshP

Opening it up at this point will not help. It does not give you any further access to the keyboard. It is sealed with a metal plate from the backside.

The best way to try to clean up the undelightful spill is with repeated baths in warm distilled water in an ultrasonic cleaner. The cleaner helps get the gunk out with the water acting as the solvent.

Use three passes, at least an hour each in the cleaner with fresh distilled water each time, do not use anything but distilled. Shake out all the excess water, and let the calc dry out overnight between baths. Then dry at elevated temp (120° f) for 24 hours after the final rinse.

You may not need the ultrasonic assistance, since the spill is fresh, so the sooner you soak it in distilled water, the better the chance of success. You should try warming the water in a microwave to 105-115° f or so and immerse in a very clean glass pan. Soak for at least an hour each time.

Of course, don't forget to take the batteries out first.

Re: Cleaning a keyboard
*Message #3 Posted by **Gordon Dyer** on 2 Feb 2003, 7:28 a.m.,*
in response to message #2 by Randy Sloyer

And don't immerse the screen in water!

Re: Cleaning a keyboard
*Message #4 Posted by **AshP** on 2 Feb 2003, 10:03 a.m.,*
in response to message #3 by Gordon Dyer

Thanks for the info guys!

I was wondering about the LCD - that would really make it Liquid!!

I must admit, immersing one's calculator in water (even distilled) does seem a bit of a scary thing to do. I'll have to build up to it.

Re: Cleaning a keyboard
*Message #5 Posted by **Richard Freeman (Australia)** on 2 Feb 2003, 7:03 p.m.,*
in response to message #4 by AshP

Dont worry about it Think of it like this: Water is better than what you have in the keyboard already. I have cleaned many many keyboards (of various sorts) in water and Provided they are well dried after wards there is no problem.

Another thing do not wait to long before you rinse it out Orange juice can be corrosive

Regards Richard Freeman

Re: Cleaning a keyboard
*Message #6 Posted by **Dave Shaffer** on 3 Feb 2003, 1:45 a.m.,*
in response to message #4 by AshP

re: I must admit, immersing one's calculator in water (even distilled) does seem a bit of a scary thing to do. I'll have to build up to it.

I once read directions for what to do if you dropped your camera in sea/salt water: rinse it in FRESH water as soon as possible. (This, of course, is similar to David Smith's comment: you only do this to something that is otherwise already beyond hope!)

Re: Cleaning a keyboard
*Message #7 Posted by **David Smith** on 2 Feb 2003, 4:52 p.m.,*
in response to message #3 by Gordon Dyer

I have not had any problem imersing the screens in water. The displays are sealed very well. The main thing to be concerned about is water spotting... use distilled water and mayby a photo wetting agent like Kodak PhotoFlo in the final rinse. One should only attempt this technique on machines that cannot be fixed in any other way.

On the three baths in distilled water, you don't have to let the machines dry between baths... just drain the as much water as possible from the machine. The three baths are to keep whatever was gunking up the machine from well diluted. I learned the trick from by friendly local bartender. They wash bar glasses in a three sink cascade to keep from spreading bar cooties.

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About the unpoliteness of User48
*Message #1 Posted by **R Lion** on 1 Feb 2003, 5:13 a.m.*

Some days ago I posted here "Just to share happiness" saying that I've got a 42s... I have read other posts in this way and it's very usual in a mechanical watches forum that I frequently visit.

Well, I posted the same in comp.sys.hp48. Please read the answers of User48 and compare them with the answers of Luiz in this forum...

Raul

Re: About the unpoliteness of User48
*Message #2 Posted by **R Lion** on 1 Feb 2003, 5:38 a.m.,*
in response to message #1 by R Lion

I'm afraid that my answer will be unpolite too >:)

Re: About the unpoliteness of User48
*Message #3 Posted by **Christof** on 1 Feb 2003, 5:10 p.m.,*
in response to message #1 by R Lion

My news access is being buggy, so I haven't read the reply, but IIRC, User48 is one of the non-native english speakers. Is this what you are getting at?

Re: About the unpoliteness of User48
*Message #4 Posted by **R Lion** on 1 Feb 2003, 5:22 p.m.,*
in response to message #3 by Christof

Sorry I can't understand what you say about non-native english speakers...like me. And I suppose that user48@yahoo.co.uk is english. But my proble is not the language: I hope you can use the link for reading the thread. Raul

http://groups.google.com/groups?dq=&hl=es&lr=&ie=UTF-8&threadm=b1f5ba59.0302010233.2359d834%40posting.google.com&prev=/groups%3Fas_ugroup%3Dcomp.sys.hp48

Re: Confused About the unpoliteness of User48 and Luiz
*Message #5 Posted by **Christof** on 1 Feb 2003, 5:42 p.m.,*
in response to message #4 by R Lion

I'm not sure I understand the point.

Luiz responds with happiness and questions similar to those of Bill Storey, User48 responds with a rather inane comment that isn't worth the time to bring into another forum (IMO, you might feel a bit more hot about it.)

I'd assumed you were trying to tie identities together in your first post, now I'm wondering if you aren't trying to do a contrast? Not that it is necessary, the person known as User48 is pretty inane on his own.

Re: Confused About the unpoliteness of User48 and Luiz
*Message #6 Posted by **R Lion** on 1 Feb 2003, 6:06 p.m.,*
in response to message #5 by Christof

Sorry Christoff: My knowledge of english language is limited, so when the post uses more than only "technical english" I feel a little bit lost... so I'm sorry if I'm not understanding you or you are not understanding me because my english.

I'm not trying to tie identities together.

I'm not trying to do a contrast (?)

You say: "the person known as User48 is pretty inane on his own". Well, perhaps you know, but I'm only saying this:

The answers of Luiz, Bill and VPN are normal answers in this kind of forums.

The answer of User48 is a rude and unnecessary nonsense (IMO)

Best regards Raul

Just a bit of...
*Message #7 Posted by **Vieira, Luiz C. (Brazil)** on 1 Feb 2003, 7:42 p.m.,*
in response to message #6 by R Lion

... whatever;

Hola, Raul; como estás? Christof? Are you well?

David, please, forgive-em touching this point again, because it's not this forum's focus, but you know that sometimes I pull it a bit off line so we can understand that there is another being at the other side of the line exactly like us and reading what we are writing. I sometimes read what I don't want to, but I'm sure I'm writing stuff with the purpose of being read and cause the best reaction.

I'd like to have a chance to be in a meeting with everybody in this forum, you know? I've already made a few intl. calls just to have a chance to talk to some guys in here (actually five, so far). I like keeping communication at a voice level, it seems to be the best way. Also, we would all be able to show ourselves to each other.

And I feel not even a bit of scare when daring to dream about this possibility because I am exactly the same person I try to express when writing.

And the only way to proof it is by having the chance to be with others. I used to be afraid of the language barrier, but there are so many languages (even when programming) that we must just take care with our feelings when writing (or speaking) and everything else is gonna be fine.

Maybe others do not agree with, but I'll keep posting for as long as I believe it's useful somehow, even if some posts are just for fun. But I'm always using my own name: Luiz Cláudio Vieira. And I vouch everything I write under my name.

I know some guys may not like reading this, but I am interested only in those who will read this and feel comfortable with themselves. I cannot think there is "room" in this site for rage and madness. Not that we are a family in the very

sense of the word, but all actual "contributors" in here want to take care of each other's ACTUAL calculator-related problems, when they do not offer themselves to solve them.

And this is too close to a family relationship. Actual family relationship.

I know I need to improve my English skills, but I am sure I am always trying to find a way to put everything in the best sense, from what I believe it is a good sense. Sometimes people confuse themselves with the way they express their feelings, but if we believe each one has his own purpose of doing what one believes is correct, so we may also have already done the same many times, without having the chance to get back and overwrite. What's done is done.

Raul, gracias; you mentioned my congratulations for adding an HP42S when you bought yours, right? I felt glad, because I know it's a good calculator and I like to know that guys like you, with the skills to use it, are able to have one. And I am sure you are one more head to help solving problems. I read a post a few days ago about the HP41 card reader, but Tony Duell, Gordon Dyer and David Smith were already there and helping. What would I do there? I read and felt myself relieved with the happy ending. Actually.

About others' rage? John and Paul wrote a song about what I feel in these situations:

"When I find myself in times of trouble, mother Mary comes to me speaking words of wisdom..."

Best regards.

Re: Just a bit of...
*Message #8 Posted by **R Lion** on 2 Feb 2003, 3:04 a.m.,*
in response to message #7 by Vieira, Luiz C. (Brazil)

Ok Luiz: let's go about "ACTUAL calculator-related problems"

Thanks for the peace you bring.

Obrigado. Raul.

Re: Just a bit of... sharing!
*Message #9 Posted by **Vieira, Luiz C. (Brazil)** on 2 Feb 2003, 3:49 a.m.,*
in response to message #8 by R Lion

And remember: sharing hapiness is in the menu.

Cheers and gracias, Raul.

(I want peace, and we all make it happen. ;-))

Re: Confused About the unpoliteness of User48
*Message #10 Posted by **Dave Hicks** on 1 Feb 2003, 9:45 p.m.,*
in response to message #6 by R Lion

I think sometimes it can be too tempting to be able to speak under a cloak of anonymity. That said, in looking at "user48"s various posts under a number of names, I don't think any of them are really terribly harmful. Mostly he seems to use various aliases for disguised self-promotion, which I think is mostly harmless, or to make what Christof calls an inane comment without harming the reputation of his main identity. Now that these identities are known to me, I suspect the temptation will be reduced.

"User48" has another identity/persona, which I think has been very helpful to the community so I hope he will concentrate on that one in the future. (Think of User48 as a mild Mr. Hyde ;-))

Politeness, language, culture and tolerance
*Message #11 Posted by **Renato (Brazil)** on 1 Feb 2003, 10:27 p.m.,*
in response to message #10 by Dave Hicks

Very few people can say they never regret a post or a email message. It happens, and IMO, the best we can do is a- take a deep breath, b- Let it be

Politeness, sarcarsm, irony, humour, etc have deep roots in language and culture. Also, many flames are caused by inadequate humour in written form - the same humour could be acceptable on the phone, or face to face.

This forum is great. I suggest we use this episode to nurture tolerance among us. By the way, Brazil and brazilians most remarkable feature is Tolerance, and it makes me very proud.

Re: Confused About the unpoliteness of User48
*Message #12 Posted by **User48** on 2 Feb 2003, 1:44 a.m.,*
in response to message #10 by Dave Hicks

Yes, I have another name and I can be any HP-48 user.

I just wanted to point that some threads in this forum (and comp.sys.hp48) aren't interesting for a larger audience and I appologize for the rude comments - it was intentional to bring people's attention.

I don't think that buying a piece of equipment is interesting for the whole world and I think that reporting a stolen picture has to be done in private (no, I am not selling anything via eBay and I don't use any of Dave's pictures).

What the forum needs are 'technical' about programming, hardware, etc.

But that is only my opinion - feel free to do everything as before.

And I appologize for my english if this matter.

forums
*Message #13 Posted by **Dave Hicks** on 2 Feb 2003, 8:18 p.m.,*
in response to message #12 by User48

I have expressed a willingness in the past to break this forum into sub forums - examples might be: RPL vs RPN, or special forums for certain popular models, or technical vs non-technical/social. However, in the past the feeling was that the traffic was moderate so no such split was required or even desirable. I tend to agree with this but I'm still open to this idea if the general mood shifts. One thing I'd hate to do is to create an over-specialized group that goes days without a post. A forum needs a certain amount "momentum" I think.

Re: forums
*Message #14 Posted by **R Lion** on 3 Feb 2003, 1:57 a.m.,*
in response to message #13 by Dave Hicks

My vote is for an only museum's forum. Thanks, Dave.

Raul

Re: forums
*Message #15 Posted by **Christof** on 3 Feb 2003, 3:02 a.m.,*
in response to message #13 by Dave Hicks

Dave- others,

I think that the single forum method is best overall. We have articles, bios, program posting forums for things that really need to go there. We have classifieds for things that need to go there, as well. That's quite a lot of division already.

All splitting into 3 or 4 *more* forums is going to do is make me look more places for my daily dose, and have to worry about whther or not what I'm posting is "allowed" in one forum over another.

-Christof

Re: forums
*Message #16 Posted by **Larry Corrado (USA, WI)** on 3 Feb 2003, 7:26 a.m.,*
in response to message #13 by Dave Hicks

I've only been following this forum for four or five months, but I think the single site is definitely the way to go. Dave is right about a forum needing the proper amount of "momentum." This sight has about the right amount. Also, having to check several sights would be extra unneeded trouble for many, maybe even most, of us.

Dave, thanks for all you do for the hobby.

Larry

Re: forums
*Message #17 Posted by **Andrés C. Rodríguez (Argentina)** on 3 Feb 2003, 9:05 a.m.,*
in response to message #13 by Dave Hicks

Dave: please keep it as only one forum (it is best in my opinion), and thank you again!

Re: forums
*Message #18 Posted by **Vieira, Luiz C. (Brazil)** on 3 Feb 2003, 9:42 a.m.,*
in response to message #13 by Dave Hicks

I second the others. No one else complained so far, why to change something that is going on so well based on one's unreasonable actitude?

Please, keep it as it is.

Luiz Cláudio Vieira - Brazil

Thanks everyone
*Message #19 Posted by **Dave Hicks** on 3 Feb 2003, 3:55 p.m.,*
in response to message #18 by Vieira, Luiz C. (Brazil)

I'll keep it as-is for now.

Re: forums
*Message #20 Posted by **Silvio** on 3 Feb 2003, 11:19 p.m.,*
in response to message #13 by Dave Hicks

I'm very new here, but if I can vote… "Keep the unified format". It is very easy to browse through it, and the diversity of topics is one of its high points. One can came back to see if a question was answered and find that another totally unrelated and extremely interesting thread was formed. This kind of synergy is not easy to create.

Re: Confused About the unpoliteness of User48
*Message #21 Posted by **Andrés C. Rodríguez (Argentina)** on 2 Feb 2003, 4:17 p.m.,*
in response to message #10 by Dave Hicks

I would like to take advantage of this opportunity to, once more, congratulate Dave and say "thank you" to him again for all his effort in designing and maintaining this, HIS, site; and for welcoming us all, giving the chance to make friends, share experiences, and enjoy supporting fellow collectors or users around the world. He has even been extremely open and tolerant to some, not-so-well-intended postings; and deserves credit for this fact too.

On the photos usage on eBay without proper credit, I would say it not only violates Dave's intellectual property, but also could be misleading for eventual buyers; I doubt there are many calculators offered in such a good condition as Dave's photos show about his machines.

Re: about User48's unpoliteness - He Just Doesn't Get It!
*Message #22 Posted by **Bill Wiese** on 2 Feb 2003, 2:33 p.m.,*
in response to message #1 by R Lion

User48, you STILL don't GET it. This has nothing to do with 'patriotism' (unless you're venting some anti-American sentiment) - I don't even KNOW how you came up with that response. This is really about property ownership rights, the overall HP content about this website.

This forum is NOT just about HP48s. And the key to our discussion is that you don't tell someone what to do in his own house!! Comp.sys.hp48 is indeed a public Usenet forum. Were your comments/scorn to concern the c.s.hp48 Usenet forum they might be appropriate. THIS forum is a private one, run by Dave Hicks on his own website for communication with like-minded folks for whom he is nice enough to provide web services.

As such, posts about things that affect him and are of interest to the general HP calc (not just 48 folks) are appropriate. This HP Forum is about HP calc news, history, marketplace for used calcs, repairs, speculations, etc.

Personal websites are an extension of one's home in many ways. I think we - we US citizens at least - don't like to be told what's appropriate for our homes. I know I don't: if someone comes in my home and starts telling me what to do or rearranging things, my reaction can range from a swift kick in the a*s out the door to drawing a Colt .45 (depending on severity of offense of course). This includes the government.

If it's HP calc tech or business related it IS appropriate here- and I can think of nothing more relevant than Dave's nice photgraphic work being pirated off by EBay idiots without so much as an attribution - people are making money, a tad indirectly, off Dave's work. If these photos were news photos from a wire service or phototgraphy house that were plucked by a company to do advertising you can be SURE there would be legal entanglements and remuneration, as there rightly should be. Property is property.

This forum is about HP calcs in general - with some focus on older ones as well - rather than solely about the HP48. There seems to be some disconnect with (and only moderate overlap between) the HP48 community and the HP calc community in general. There's lots of 48 users out there that don't know what *REAL* RPN is or know about great calcs like the 41C and its predecessors. These are the folks that often hang out in comp.sys.hp48 - which is fine. Post a question about a 41C issue, an accuracy issue on an older calc, battery or hardware issues on a non-48 calc there and you'll end up with the Usenet equivalent of a blank stare.

[I think I speak for many here who just DON'T like the 48's complexity, etc and innappropriate substitution for a desktop computer. Which is why you see the clamor for a new 42S :)]

Bill Wiese San Jose, CA

>User48 wrote: >wanted to point that some threads in this >forum (and comp.sys.hp48) aren't interesting for >a larger audience... {snip}... don't think that >buying a piece of equipment is interesting for >the whole world and I think that reporting a >stolen picture has to be done in private (

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Restoration and Adoration
*Message #1 Posted by **Juan J** on 31 Jan 2003, 11:12 p.m.*

After reading some posts, especially Doctor Mikey's postings about his experiences in rebuilding old calculators and bringing them back to life, and the grateful notes from users who repaired successfully a card reader or a peripheral, I have been asking to myself: aren't we in the restoration and adoration (not only restoration) business?

What do you think? I would like to hear your opinions about it.

Re: Restoration and Adoration
*Message #2 Posted by **Eddie Mabillard** on 1 Feb 2003, 3:38 a.m.,*
in response to message #1 by Juan J

I shall say that when as the first calculator you bought was an hp and especially RPN in 1974 (HP 45) and that you can not make more than an addition on some other calc type, suddenly you learn that this calcs will have soon an end you panic, you thought that hp will exist for ever, it never came to mind that a manager from the new school will be at the head of that wonderfull company and let the loyal cutommer down (vive Carli) if I were prepared for that I would have bought many more hp 25/28/15/41/67/32/42 (because I want to die RPN), and never give them away to make new RPN disciple.

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Re: request for advice on posting ebay negative feedback
*Message #1 Posted by **db(martinez,california)** on 31 Jan 2003, 9:48 p.m.*

i won an auction on ebay and of course sent a money order right away. i have gotten a couple of very earnest excuses but no item. i am approaching the 3 month deadline to post feedback. i will post negative feedback and that is that. however; one of those reasonable reasons may be true. can someone tell me if it is possible to "respond to comments" or to append feedback with a "but they all lived happily ever after" if the item does eventually show up - and to do this later than the three month deadline for the first feedback posting.

Re: request for advice on posting ebay negative feedback
*Message #2 Posted by **Todd G.** on 1 Feb 2003, 7:04 a.m.,*
in response to message #1 by db(martinez,california)

I think the eBay feedback rules are that once you post feedback, it cannot be changed.

One way around this would be to post a website address as feedback instead of a one-line comment. At that referring website, you could have a detailed description of the transaction that you could update should the goods eventually arrive.

FYI, I've heard of people doing this to present (usually negative) feedback so they are not restricted to one line. Also, you can change it, or remove it if desired.

Best of luck,

Todd G.

Re: request for advice on posting ebay negative feedback
*Message #3 Posted by **Dave Mabry** on 1 Feb 2003, 8:10 a.m.,*
in response to message #2 by Todd G.

According to the e-bay policies on feedback, putting a link to a web site, a photo, or a java script are grounds for e-bay to remove that feedback. So it seems that you are quite limited to the 80 or so characters. Their policy also states that they are very unlikely to remove feedback once it is left.

On the other question about the 90 day time limit, it seems that you can leave a "response" to a feedback you have received long after the 90 days has transpired. Not sure if there is any limit on that. I just tried to leave a response to a feedback I received last March and it would have let me.

Re: request for advice on posting ebay negative feedback
*Message #4 Posted by **David Smith** on 1 Feb 2003, 1:16 p.m.,*
in response to message #1 by db(martinez,california)

There is a link button on the Ebay feedback pages to a screen that lets you leave feedback after 90 days. I bet you need the auction number to do it.

Re: request for advice on posting ebay negative feedback
*Message #5 Posted by **Emmanuel, France** on 1 Feb 2003, 4:00 p.m.,*
in response to message #1 by db(martinez,california)

```
Please send a mail to assurance@ebay.com
Give them all informations they need (item #, PayPal proof, ...).
They should contact the seller.
In your negative feedback, you could indicate an URL about that deal.
Good luck!
```

Re: request for advice on posting ebay negative feedback
*Message #6 Posted by **David Smith** on 1 Feb 2003, 5:26 p.m.,*
in response to message #5 by Emmanuel, France

Your chances of getting ANY sort of meanigful help from Ebay are about 1 in 1E99 (unless it is about an HP-42S then 1 in 1E499).

thanks all
*Message #7 Posted by **db(martinez,california)** on 1 Feb 2003, 6:55 p.m.,*
in response to message #6 by David Smith

i appreciate yalls help and advise. also that of doug@alwaysup who sent me a page copied form ebay that told me the steps i should have been following for the last two months to resolve this. i'm an optimist. shoot me.

i have been patient since the person said he was in the hospital and then said the calc came back in the mail and had to be sent again. he (or she?) is in russia and speaks english as a distant second language so it is hard to get fine points across in both directions but has 95% good feedback rating and has both bought and sold. i figure that this is a series of unconnected errors but i feel this way less each day and on next thursday i will do the only thing i can do and leave a factual - not personal - negative feedback. you guys have told me that i can at least append a positive outcome to it after the 90 day limit. that's something.

i only wish i had more time to wait, and that if this does all work out i could erase the red mark.

moderately happy ending
*Message #8 Posted by **db(martinez,california)** on 4 Feb 2003, 9:35 p.m.,*
in response to message #7 by db(martinez,california)

the calc was here when i got home - on the night of the 89th day. i had filed for ebay moderation services, will cancel that and i just finished leaving nice feedback - on the last possible day to do so.

it's a "moderately happy ending" because i should have read the ad better. as the russians say: "nechevo". i thought it said "very good condition". the ad actually said "VARY good condition"(really), which was closer to the truth.

the calc is an mk 52, an rpn, and very interesting so far. the stack seems to work like an hp but i don't see how to manipulate it and theres a few keys i may never figure out. nechevo.

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HP-67 <-->TI-59 card reader repair
*Message #1 Posted by **Michel Beaulieu** on 31 Jan 2003, 8:38 p.m.*

No i'm not gonna ask if i can read my HP cards on my TI calculator's reader... :-)

So my HP-67 card reader is great since you helped me! thanks again! I also have a TI-59 and a TI-SR-52 that have the same gummy/desintegrate wheel problem. So my question is can i use the same o-rings to repair my TI calculators that i use with my HP-67.

I know, i just have to try it, but probably someone has experiment that repair and have some tips for me...

Thanks Michel Beaulieu

Re: HP-67 <-->TI-59 card reader repair
*Message #2 Posted by **Vassilis Prevelakis** on 1 Feb 2003, 9:45 a.m.,*
in response to message #1 by Michel Beaulieu

Good luck, but I fear you'll be disappointed. The TI 59 card reader was vastly inferior in quality compared to the HP card reader. TI wouldn't even promise that a card writtent by one TI 59 would be readable by another.

I was the unfortunate owner of a TI 59 back in 1979 and I had enormous trouble getting the card reader to work reliably. Eventually I returned it for a refund (it was still within the one year warranty period).

So after 20+ years, getting a TI card reader to work would be just short of a miracle.

**vp

Re: HP-67 <-->TI-59 card reader repair
*Message #3 Posted by **David Smith** on 1 Feb 2003, 1:18 p.m.,*
in response to message #1 by Michel Beaulieu

The TI readers can be repaired... I've never done it. Check RSKEY.ORG or DATAMATH.ORG I seem to remember seeing a link to a TI reader repair page (or one soon to come).

Re: HP-67 <-->TI-59 card reader repair
*Message #4 Posted by **Michael Meyer** on 2 Feb 2003, 5:47 p.m.,*
in response to message #3 by David Smith

Actually, I've repaired many many 59 card readers. Not too tricky. The SR-52's are much harder, but also can be done. Briefly, I unsolder and removed the motor assemblies, glue a rubber plumbing washer to the shaft, power the motor externally to spin the washer, and then use a dremel grinding wheel to grind to the perfect size. Can take a little trial and error, but since the cards can be inserted and tested without the reader in the calc, it's not too difficult. Mine come out quite reliable; at least as good as new.

I hope nobody minds me posting this here... a lot of us collectors collect TI's, too, if for no other reason but to have the machines that competed with the HP.

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Creaky 41CX
*Message #1 Posted by **Steve** on 31 Jan 2003, 1:01 p.m.*

I have 41CX (sn is 1988) that creaks a bit when certain keys are pressed. The creaking is caused by the plastic case (outer shell) shifting around a bit when pressure is applied to the top (keyboard). If I hold the sides of the case firmly, the creaking is eliminated.

I'm just wondering if this is a common problem, or mine is an exception. Thanks,

Steve

Re: Creaky 41CX
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 31 Jan 2003, 2:40 p.m.,*
in response to message #1 by Steve

Hi;

if anyone suggests you to tighten the screws AND you decide to do so (I wouldn't), chances are you get a broken post, so, be A LOT conscious of this fact before doing it. IF you decide the risk is worth taking, PLEASE, try sensing your own force and never force the screwdriver.

If no one suggests you to tighten the screws, remove this post's contents from your memory.

Cheers.

Re: Creaky 41CX
*Message #3 Posted by **Gordon Dyer** on 31 Jan 2003, 3:15 p.m.,*
in response to message #1 by Steve

I have a Halfnut CX and it does the same creaking as yours. Also the feel of the keys is not so good as the older Fullnut models. Mine is 2819S20688, it was one of the first 'new in box' units which appeared last year from Scotland and I got it for 1/6 of the price they have risen to! (Aren't I lucky). Mine creaks most on the -, ENTER and yellow f keys. The feel of the plastic is softer and "cheaper" than the CV full nut I have. If you squeeze the sides they creak too!
Another thing which is better on the older fullnut is the display. For some stupid reason the halfnut display has a wider space between the segments and is not as easy to read.
So degradation of HP quality began in the late 80's, presumably for cost saving.

Re: Creaky 41CX
*Message #4 Posted by **Steve** on 31 Jan 2003, 3:23 p.m.,*
in response to message #3 by Gordon Dyer

That's the source of mine (England, to be exact), and I have exactly the same creaks. Is it just this batch, or all halfnuts?

Steve

Re: Creaky 41CX
*Message #5 Posted by **Andy** on 31 Jan 2003, 5:49 p.m.,*
in response to message #4 by Steve

I too recently purchased a NIB 41cx from the UK, and mine creaks (s/n from 1988). I've noticed it seems to be the thin plastic strip that the card-reader connects too which is causing the creak (its actually not as tight fitting as my older cx so it moves a little and creaks). I have a halfnut cv which does not creak.

I haven't tried tightning the posts and probably will not due to the afor mentioned reasons of possibly breaking them. It may be possible to lubricate the thin plastic strip (with a suitable lubricant) so it won't creak when it moves (not such a good option really).

I also agree with the disply comment. I prefer the full nut display because it is more ledgible due to the longer lcd segments.

Re: Creaky 41CX

*Message #6 Posted by **karl schneider** on 2 Feb 2003, 4:39 a.m.,*

in response to message #3 by Gordon Dyer

I have a "creaky" halfnut 41CV from 1986, bought less than a year ago, that is otherwise flawless cosmetically and functionally. The "ENTER" key causes the creaking.

I also have a malfunctioning fullnut 41CX from 1984 that is fine cosmetically. I agree with the comments regarding quality of keys and LCD segments for halfnet vs. fullnut.

BTW, I was offered one of the UK 41CX units for $70 + shipping by one of the sellers. It seemed too good to be true, so I drafted an e-mail asking the seller to confirm several specifications before agreeing to purchase. In the meantime, I noticed that the seller had started an eBay Dutch Auction of five units. Not knowing if he had listed a unit he'd offered to me, I did not send the e-mail. After the clearing price soared above $250, I hadn't the chutzpah to ask him to sell me one for such a low price...

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hp75 CMT EPROM
*Message #1 Posted by **Andy** on 31 Jan 2003, 9:37 a.m.*

anyone have any information on the CMT hp75 EPROM?

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Help with HP-20S needed
*Message #1 Posted by **Holger Weihe** on 31 Jan 2003, 4:11 a.m.*

Hello,

today I got a HP-20S. Unfortunately its manual is not on the HP-Museum CDs.

I think I can figure out how to operate most of its functions myself. (Even if I am nearly unable to calculate with an algebraic machine by now :-)).

A feature I could not get to work is the LOAD key. I know that I can copy some programs from ROM with it. But how??

Can anyone help me?

Thanks! Holger

Re: Help with HP-20S needed
*Message #2 Posted by **JaSon** on 31 Jan 2003, 5:04 a.m.,*
in response to message #1 by Holger Weihe

enter program mode, press load, then press one of the letter's on the top a-f, you will see a quick message stating the program loaded. It is also possible to download a manual for the hp20s in spanish off hp's support web site.

Re: Help with HP-20S needed
*Message #3 Posted by **Holger Weihe** on 31 Jan 2003, 5:34 a.m.,*
in response to message #2 by JaSon

Thank you, JaSon! That helped.

The manual wouldn't be very useful for me, since I don't speak spanish. I wonder why HP publishes it in spanish but not in other languages...

Holger

Re: Help with HP-20S needed
*Message #4 Posted by **R Lion** on 31 Jan 2003, 12:35 p.m.,*
in response to message #3 by Holger Weihe

Perhaps because some good spanish can translate for you some parts that you need (if they are not very long ;-)

Regards from Spain Raul

Re: Help with HP-20S needed
*Message #5 Posted by **Gordon Dyer** on 31 Jan 2003, 3:19 p.m.,*
in response to message #1 by Holger Weihe

If I find the time I will scan the manual. But email me and I will send specific pages to you if you let me know of any functions you patricularly need.
Gordon Dyer

Re: Help with HP-20S needed
*Message #6 Posted by **Holger Weihe** on 31 Jan 2003, 6:56 p.m.,*
in response to message #5 by Gordon Dyer

Hello Gordon,

thank you very much for the scanned page you sent me via mail! I'll have to find out now how to use the built in programs, but I hope not to need any more pages for that.

Nevertheless - if you have scanned the whole manual one day, please let me know. Maybe it could also be published here now since the HP-20S seems to be discontinued. (Don't know the details of Dave's agreement with HP concerning obsolete manuals).

Best regards,

Holger

Re: Help with HP-20S needed
*Message #7 Posted by **Renato** on 31 Jan 2003, 9:13 p.m.,*
in response to message #6 by Holger Weihe

Craig Finseth has a complete but concise description of 20s: http://www.finseth.com/~fin/hpdata/hp20s.html

I used this for learning how to use my wife´s 20s

The HP-20S (Praise for)
*Message #8 Posted by **Pyerre** on 31 Jan 2003, 10:27 p.m.,*
in response to message #6 by Holger Weihe

>> since the HP-20S seems to be discontinued.<<

As an algebraic programmable scientific calculator, the HP-20S is a surprising good quality built device by Hewlett Packard. We get three of them at home without manuals, two for kids (really love this model more than the 6S, they've got before) while keeping one for myself. Prices are reasonnable for now but start rising soon I guess !

Re: The HP-20S (Praise for)
*Message #9 Posted by **Christof** on 1 Feb 2003, 4:49 a.m.,*
in response to message #8 by Pyerre

It's been discontinued off and on, it seems, but finally permanently now. I'd like to personally find some of the corporat elogo OEM ones.

In general terms, the supply of old style (orange and blue shifts, brown case) ones is still okay. I've gotten a few here and there. there are a lot of warranty replacement (no manuals or slip covers) for ~$20 available right now.

The red box ones were available from some overstockers for ~$20 US in the past, but that seems to be fading. I doubt these will be costing $100 anytime soon, but $50 could happen.

I've written a few things (including a "boy scout" encryption system) for it and it's

quite programmable within its limits. I'd prefer 4 real stack registers and direct access to them instead of the input/swap thing, but even as it is, it's an amazing amount of power for $20. The really early HP programmables didn't do much, if anything, more than this can.

Another one of those areas where just a little bit more would have made all the difference (16 or 20 registers, 150 or 200 steps, a better implementation of the input/swap thing.) Why do we keep getting LESS instead of more?

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Maybe?
*Message #1 Posted by **Bird** on 31 Jan 2003, 3:32 a.m.*

Maybe instead of waiting on HP to come back around, we should persuade someone to take a calculator they already produce and convert it to a RPN calculator. For example,

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3004059788&category=3294

and

http://www.accesstoaccessories.com/lv_sales_and_recruiting_ljewel_cal_.htm

The unit measures 3.5 inches by 5.0 inches. Convert the add key to an enter key, move the operators to the far left or right, change that silly = key to Y^X, change few memory keys to trig functions and bam! you have colorful and stylish watered down version of an 11C. Mary Kay - you go girl.

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HP 41C Petroleum Fluids Pac
*Message #1 Posted by **Guillermo Garcia** on 31 Jan 2003, 12:50 a.m.*

Three days ago I have lost my HP 41C with the Petroleum Fluids Pac. Fortunately I have another HP 41C but my Petroleum fluids Pac is gone. I have used it for nearly 23 years and I can not live witout their units conversions. Where I can finding it?. I read in the archives that David Erdman was able to found one recently. Thaks for your help

Re: HP 41C Petroleum Fluids Pac
*Message #2 Posted by **David Smith** on 31 Jan 2003, 6:03 p.m.,*
in response to message #1 by Guillermo Garcia

The fluids module is a very scarce item. Unless somebody here has one, you will have to diligently scan Ebay every day for around 3-6 months on average before one shows up. I think I have seen three in the last year... and two of them were sold installed in machines.

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Battery charger
*Message #1 Posted by **Howard** on 30 Jan 2003, 11:40 p.m.*

Can anybody tell me which chargers are compatable with the HP67. I am in Australia which has 240vac. I believe the correct model is 82002A. Are there any others that will do the job. Next question - has anybody got a spare one they want to sell for a reasonable price?

67 Battery Charger Info
*Message #2 Posted by **Kris Collins** on 2 Feb 2003, 8:18 p.m.,*
in response to message #1 by Howard

My chargers bear the following label on the underside: INPUT VOLTS AC, 86 to 127 and 172 to 254, All above a SLIDE SWITCH, followed below by 48-66 Hertz 5 Watts, and below that 82002A Battery Charger-AC Adapter.

Re: 67 Battery Charger Info
*Message #3 Posted by **Howard** on 6 Feb 2003, 8:10 a.m.,*
in response to message #2 by Kris Collins

Thank you, I see that you mentioned "chargers" (plural) - If you an extra one would you be interested in selling one of them? Howard

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Museum Pic on E-Bay...
*Message #1 Posted by **Tony David Potter** on 30 Jan 2003, 10:44 p.m.*

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3004759154&category=11713

Thanks!
*Message #2 Posted by **Dave Hicks** on 30 Jan 2003, 11:37 p.m.,*
in response to message #1 by Tony David Potter

He has credited the pictures now.

Re: Thanks!
*Message #3 Posted by **User48** on 31 Jan 2003, 2:24 a.m.,*
in response to message #2 by Dave Hicks

Is there a chance for such things to be directed to some other forum?

It is getting a little boring to read reports of 'stolen' pictures (like this is a big deal). Perhaps such reports could be sent to your private e-mail ...

Re: Thanks!
*Message #4 Posted by **Bill Wiese** on 31 Jan 2003, 2:40 a.m.,*
in response to message #3 by User48

>Is there a chance for such things to be directed to some >other forum? It is getting a little boring to read reports >of 'stolen' pictures (like this is a big deal). Perhaps >such reports could be sent to your private e-mail ...

Perhaps you don't realize it, but it *IS* Dave's website. When you visit a friend's house, do you complain about his decor? We're in Dave's 'house', and Dave's gone to a great deal of trouble to log, photo, document, etc. just about every aspect of HP calcs. Pix

thereof should get some credit else they'll start seeping into the public domain. This is a free-flowing board with generally reasonably on-topic posts and titles, and you can always pass over topics that bore you..

Bill San Jose, CA

Re: Thanks!
*Message #5 Posted by **User48** on 31 Jan 2003, 4:07 a.m.,*
in response to message #4 by Bill Wiese

I asked if such messages could be directed to the mail address and not to the forum because they (copyright violations) have nothing to do with the HP calculators forum.

I appologize if I hurt someones 'patriotic' feelings.

Re: Thanks!
*Message #6 Posted by **Don Davis** on 31 Jan 2003, 7:26 a.m.,*
in response to message #5 by User48

>I appologize if I hurt someones 'patriotic' feelings.

Bill,

I don't think he got it.

:-)

regards, Don

Re: Thanks!
*Message #7 Posted by **Wayne Brown** on 31 Jan 2003, 7:42 a.m.,*
in response to message #5 by User48

Many of us might never get the idea of letting Dave know about such infringements if we didn't see other people doing it here. Besides, I find it interesting, and seeing how a seller responds to Dave's request for proper attribution has a bearing on whether I do business with that seller or not.

Re: Thanks!
*Message #8 Posted by **Mark Bourne** on 31 Jan 2003, 12:48 p.m.,*
in response to message #3 by User48

"'stolen' pictures"

"like this is a big deal"

I could understand these posts not being your topic of choice, but they are stolen (no quotes needed) and it is a big deal.

Re: Thanks!
*Message #9 Posted by **R Lion** on 31 Jan 2003, 12:52 p.m.,*
in response to message #3 by User48

Dear User48: Your comment, and others in comp.sys.hp48 are, at least, "odds".

Raul

PS:As you can see, most of us don't use nicks but our names in this forum.

Re: Thanks!
*Message #10 Posted by **Paul Brogger** on 31 Jan 2003, 1:49 p.m.,*
in response to message #3 by User48

If you don't like the topic, don't click on the link.

It's not like it was given a misleading title like "**Grow 3 Inches by Wednesday!**" or some such . . .

A forum etiquette comment
*Message #11 Posted by **Dave Hicks** on 31 Jan 2003, 3:18 p.m.,*
in response to message #3 by User48

Criticisms from a regular poster would carry more weight if they were made under his usual forum name.

Re: A forum etiquette comment

*Message #12 Posted by **Vieira, Luiz C. (Brazil)** on 31 Jan 2003, 4:20 p.m.,*
in response to message #11 by Dave Hicks

Hi;

I don't like to get in these sort of thread, but there are moments one should not keep silence under certain circumstances.

I'm not the best one to mention this because of geographic and origin resons, but this is something I admire from David's postures: we invite ourselves in here, it's definitely David's place, people flame each other sometimes and he, politely, requests us all to maintain our own behavior.

I think there is not much to say or comment about this. In Brazil we have an expression that is somewhat rude, but definitely fits in some cases: "Os incomodados que se retirem." (something like: those who feel as being bothered feel free to leave). I'm not addressing myself to anyone in here firstly because I do not have the right to; besides, this is up to David only and anyone else. And he had shown us in many circumstances that his concerns are a lot far beyond these.

I want to express my respect for you, David.

Cheers.

Re: A forum etiquette comment

*Message #13 Posted by **Dave Hicks** on 31 Jan 2003, 7:17 p.m.,*
in response to message #12 by Vieira, Luiz C. (Brazil)

Thank you Luiz! You're a model of decorum yourself so that means a lot.

Back on the main subject, if people don't like these posts, please let me know either here or in email, but please don't be shy about your identity. The opinions of real people mean much more to me.

Re: A forum etiquette comment
*Message #14 Posted by **Juan J** on 31 Jan 2003, 11:04 p.m.,*
in response to message #13 by Dave Hicks

As I wrote a while ago, it is disrespectful to demand anything from Dave or any Forum user using a nickname as a cover.

Dave has put so much effort and resources of his on making this site (and the Forum) available to us. Let's show some respect to such a remarkable host by using our names and making whatever requests we have as politely as possible. And by passing by post that we feel are not relevant/important to us. As simple as behaving properly in a house that is not ours.

Regarding the copyright infringement matter, any given seller that uses Dave's material to sell his/her stuff without permission must be reported for Dave to take whatever measures necessary. We're dealing with a transaction based upon copyright infringement, which is ultimately a lie to any potential seller.

Re: A forum etiquette comment
*Message #15 Posted by **HrastProgrammer** on 1 Feb 2003, 1:25 a.m.,*
in response to message #14 by Juan J

I agree with all of you. Stealing is stealing and must be reported.

Perhaps Dave should place a copyright logo on their pictures. Something like 'Copyright (C) 2000 Dave Hicks, www.hpmuseum.org'. Maybe this will prevent sellers from using the pictures in a wrong way and wrong place.

Best regards.

Re: A forum etiquette comment
*Message #16 Posted by **Christof** on 1 Feb 2003, 4:51 a.m.,*
in response to message #15 by HrastProgrammer

Personally, I'm all for the public posting- it seems that most of the ebayers are polite about crediting the photos when asked, and it's sometimes highly amusing to read the listings form people who have no idea what they have.

Re: A forum etiquette comment

*Message #17 Posted by **Dave Hicks** on 1 Feb 2003, 9:22 p.m.,*
in response to message #15 by HrastProgrammer

My images do have a small logo. I try not to go overboard however and clutter up the images for viewers just because a few people steal them. I feel that it's like putting bars on your windows to keep thieves out. It will probably work, but only some of the time, and it detracts from the view and "livability".

For an example of when it won't work anyway: Recently I asked an ebay seller to credit my picture and his response was to copy the top part of the picture to the bottom in order to cover the logo and to add text to his auction that he had scanned it himself. (It was a very sloppy edit which mangled not just the logo but part of the calculator.) I had ebay remove that one.

For what it's worth, I've consulted with copyright attorneys and they thought I had done more than most sites to make my copyrights clear.

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Quadratic equasions
*Message #1 Posted by **Howard** on 30 Jan 2003, 10:26 p.m.*

I have a HP41cv and I am working though the Handbook and Programming Guide. I can programme the calc to calculate the problem on page 193 OK but my problem is this (I think it might be the same with all quadratic equation solutions). How do you programme the calculator to store both roots in different registers so that they can be viewed at a later stage. The way the programme works at the moment the first root displays (it be "stopped" to view as the programme runs) but this first root seems to be lost if the R/S button is pressed to get the second root. It is not important but I was wondering if there is any way to save both roots. All the best. Howard

Re: Quadratic equasions
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 30 Jan 2003, 10:52 p.m.,*
in response to message #1 by Howard

Hi;

you mean the program in pages 182/183? Quadratic Equation?

Well, just for you to start wondering about it: from step 17 on, use this listing:

```
17 STO 04
18 PSE
19 XEQ 01
20 +
21 RCL 01
22 2
23 *
24 /
25 STO 05
26 PSE
27 RTN
28 LBL01
.
.   (keep the same instructions, each one will be otwo steps up in the count)
.
39 SQRT
40 END
```

The first root will be stored in R04 (step 17) and the second root will be stored in R05 (step 25)

Hope this is what you want.

Best regards

Re: Quadratic equasions
*Message #3 Posted by **Howard** on 30 Jan 2003, 11:10 p.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

Actually it is the problem on p 193 which is solved by adapting the original qroot programme. But I've modified my programme as you have suggested and it works fine. Thank you.

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OT: Does anyone have the Commodore S61 manual?
*Message #1 Posted by **Gene** on 30 Jan 2003, 9:27 p.m.*

Wild goose chase, but does anyone happen to have the Commodore S61 specialized statistics calculator manual scanned in PDF?

Failing that (and I would not expect one to have it), does anyone have an explanation for how to use some of the special statistics functions, such as POISS, Chi-squared, etc.?

I've been playing with mine and can't figure it out.

?

Gene

Re: OT: Does anyone have the Commodore S61 manual?
*Message #2 Posted by **Michel Beaulieu** on 30 Jan 2003, 9:33 p.m.,*
in response to message #1 by Gene

I have a Comodore SR-9190R and manual with poisson function it, Gauss and a lot of other function that even the majority of modern calculator don't have. But you luck end ther : i can scan the pages you want but it's a French manual. If you are interest, just tell me the function you want an i'll scan them in my manual.

Re: OT: Does anyone have the Commodore S61 manual?
*Message #3 Posted by **Gordon Dyer** on 31 Jan 2003, 4:34 p.m.,*
in response to message #2 by Michel Beaulieu

I guess you bought yours from the same guy in Canada as me! He sent me the photocopied English manual, but maybe the experience has been good for your French...

Re: OT: Does anyone have the Commodore S61 manual?
*Message #4 Posted by **Gordon Dyer** on 31 Jan 2003, 4:32 p.m.,*
in response to message #1 by Gene

Hi, I have a Commodore SR9190R which has Poisson, Binomial and Gauss functions. I have a photocopy of the manual in English and a French original. Send me an email and I will send you a scan of the relevent pages.
Apologies to HP Forum for contaminating you with Commodore!
Gordon

> **Re: OT: While we are asking...**
> *Message #5 Posted by **Christof** on 31 Jan 2003, 6:46 p.m.,*
> *in response to message #4 by Gordon Dyer*
>
> Anyone have a manual for a canon F-700 programmable?

Re: OT: Does anyone have the Commodore S61 manual?
*Message #6 Posted by **Frank** on 5 Feb 2003, 10:36 a.m.,*
in response to message #1 by Gene

Gene, I have a Commodore M-55 manual and calculator, bought new in 1977, same series, this is a mathematician with many of the same stat and distribution functions. Let me know what you need

> **Re: OT: Does anyone have the Commodore S61 manual?**
> *Message #7 Posted by **Gordon Dyer** on 8 Feb 2003, 1:47 p.m.,*
> *in response to message #6 by Frank*
>
> Hi, is there any chance of making a scan of the M-55 manual available? I would like a copy. Thanks, Gordon.

I have the M55 manual
*Message #8 Posted by **Gene** on 8 Feb 2003, 5:04 p.m.,*
in response to message #7 by Gordon Dyer

Be glad to loan it to you if you could turn it into a PDF. :-)

Of course, I'd LOVE to find anyone with an S61 manual to scan.

Want to borrow my M55 manual? (Sadly, I have the manual but NOT the calculator!)

Link to pic of Commodore S61
*Message #9 Posted by **Gene** on 6 Feb 2003, 8:38 p.m.,*
in response to message #1 by Gene

Commodore S61 picture

I still remember in the late 1970s when this calculator was introduced. I was amazed it had THIS many statistical functions pre-programmed!

My questions:

Row 2 from top:

The first key from the left is to calculate the F-distribution or the Hypergeometric distribution. What are the v1 and v2 keys for? What are they used to input? Then there is the 4th key from the left is labeled tstat and Zstat. What are these for?

Row 3 from the top:

The first key is for a Chi-squared fit? What is that for? Then there are two keys labeled Oi and Ei. What are these? Then there is the t DEP and t IND. I imagine those are for calculating the t-values for the dependent and independent variables of a linear regression, which would go along with the remainder of the keys on this row which are regression related.

Row 4 from the top:

First key does permutations and combinations. 2nd key does Binomial and Poisson distributions. Then there is the key for V and k. K is used to enter values for the binomial calculation (so is the p key next to it), but what is the v key for? The remainder of the keys on this row are regression related.

Row 5 from the top:

The first key calculates the cumulative normal distribution given a Z value. The shift of this key does the inverse. The next key calculates the normal distribution area under the interval of +Z and -Z. The shift of this key does the inverse, i.e., given an area under the curve, it returns the Z forming the interval. The next key is for the Chi-squared distribution and the shift is for a t-distribution (which requires the number of degrees of freedom, but where is that entered?)

Row 7 from the top:

The factorial key has the gamma function as a shifted function

Just a question...
*Message #10 Posted by **Vieira, Luiz C. (Brazil)** on 10 Feb 2003, 2:04 a.m.,*
in response to message #9 by Gene

Hi, Gene;

I saw the picture and it brought me back to my University Classes. I remember someone showed me one Commodore, but it was not the S61, it was simpler and had fewer features.

My question must be taken as made by someone that has no idea about how silly it may be, so forgive-me if it is indeed a silly question: are the [=] and [-] keys in their correct positions? I based my question in two facts:

1 - it seems more "natural" if the four functions are aligned in the same column;
2 - there is a [(] as the shifted function for [+] and its counterpart is positioned as the shifted function for [=]; wouldn't it be a natural choice having it as the shifted function for [-]?

If [=] and [-] keys perform their related operations the way it is, please, just diregard this post.

Cheers.

Re: Link to pic of Commodore S61

*Message #11 Posted by **Marc Brucker** on 11 Feb 2003, 7:33 p.m.,*

in response to message #9 by Gene

Gene, I would think that the proximity of the Oi and Ei keys to the X-square key would mean that they are meant to key in Observed and Expected values in the goodness-of-fit (X-square) test. The "V" keys may signify the Greek letter "nu", but I am not sure about them. I really like your calculator! Sincerely, Marc Brucker.

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67 <--> 41
*Message #1 Posted by **Michel Beaulieu** on 30 Jan 2003, 9:02 p.m.*

I sucessfully read HP-67 cards on my HP-41 reader and programs works grest on my 41!

Is it possible to take a HP-41 card and read it by a HP-67? Or how to transfer programs from a HP-41 to a 67 insted of rewriting it completely.

Thanks Michel

Re: 67 <--> 41
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 30 Jan 2003, 9:25 p.m.,*
in response to message #1 by Michel Beaulieu

Hi, Michel;

it's practically stated in the HP41's card reader that data contained in cards written in the 82104A cannot be read in an HP67/97 reader, although the opposite is true.

Codes recorded in magnetic cards for internal HP41 instructions are different of their equivalents in the HP67/97. The 82104A reader actually "translates" and, in some cases, updates these codes.

Sorry for the bad news... unless there are some wizard modules that allow specific code to be stored in this magnetic cards, but I would no bet on this.

Best regards

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HP-67 "circle computations"
*Message #1 Posted by **Michel Beaulieu** on 30 Jan 2003, 8:31 p.m.*

I have the math pack-1 documentation and there is a program call "circle computations", i'm interest in keying it in my calculator but the manual is talking about the program for 8 pages but i can't see any listing, probably the documentations come with pre-recorded cards. So can someone tell me where can i find the listing for that program?

Thanks Michel

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Best episodes
*Message #1 Posted by **Renato** on 30 Jan 2003, 8:13 p.m.*

Is there a list for the best episodes in the HP calculator users community ? My first suggestions are:

1- Good : Concorde engineer asking for help on maintenance of HP-41 used for engine of the airplane

2 - Bad : A person being invited to do beta test of a new HP calculator discloses this information on the newsgroup. A former HP employee calls him a moron (twice).

ebay episodes could be left out...

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Tech help repairing an HP-41 card reader

*Message #1 Posted by **Dave Mabry** on 30 Jan 2003, 5:51 p.m.*

I would like to see if there is anyone here who might have experience repairing the 41's card reader and can give me a suggestion for repairing mine. Naturally it was only intermittent when I started and now it is totally failed.

I had intended only to repair a bad roller and clean the head. It was intermittently reading properly, it wrote cards correctly most of the time, and the roller was just starting to turn gummy. Since this was my first attempt at really working on this type of reader, I ended up disassembling, working on, and reassembling several times. After trying the tubing fix, then the o-ring fix, then back to the tubing fix, the mechanical aspects of the reader seem fine. It can push the cards through just fine. However, when putting a known good card through for reading, it almost immediately displays "CARD ERR". Sometimes it displays "MALFUNCTION". It never reads correctly. And if I attempt to record onto a card and read the card on another good reader the card is corrupt.

I have interchanged the module with the head and motor assembly from a good reader and it works fine. Therefore I assume the problem is in that part of the reader. There isn't much in that assembly. The motor, a noise suppression capacitor, and the head.

What is likely to be the problem? I haven't tried to change the cap yet, but I'm thinking that might be my next step. The motor seems to turn about the right speed. It is smooth and the card pulls through apparently ok.

Any help from experienced repair folks is much appreciated.

Thanks.

Re: Tech help repairing an HP-41 card reader
*Message #2 Posted by **Gordon Dyer** on 30 Jan 2003, 6:48 p.m.,*
in response to message #1 by Dave Mabry

My own card reader failed because one of the windings in the magnetc head went oppen circuit. I suggest you disconnect the head and measure the resistance of each winding. They should be 30 - 40 ohms. Also check the connection of the head wires into the small sockets on the pcb. The solder tinned wire ends are just a push fit into the sockets and a measure of each winding resistance with the wires fitted might show if there is a bad connection, but connect your meter to the body of the sockets.

Re: Tech help repairing an HP-41 card reader
*Message #3 Posted by **Tony Duell (UK)** on 31 Jan 2003, 2:04 p.m.,*
in response to message #1 by Dave Mabry

I don;t know exactly how much you swapped out, so some of the suggestions might apply to sections you know to be good. Did you swap out the sense amplifier PCB (the little one standing vertically at the back), or does it work with the one from the 'dead' reader. Obviously faults here can affect reading and writing. What about the switch PCB and the contacts on top of the reader mechanism? Problems there -- the swtiches not closing at the right time -- often causes the MALFUNCTION message. You might want to check this -- make sure the contacts are correctly possitioned, that the card sensing cams are in place, that the contacts are clean, etc. Make sure you're connecting the head wires to the sense amplifier PCB correctly -- only one of the 120 ways of doing this will work! Check the head windings for continuity too (check between the red and yellow wires (one of the tracks) and then between the blue and orange wires (the other track)) An open-circuit hrad is not common, but it can happen. I suppose you should also go over all the mechanical parts -- you've had this thing apart, and we can all make mistakes...

Re: Tech help repairing an HP-41 card reader
*Message #4 Posted by **Dave Mabry** on 31 Jan 2003, 5:14 p.m.,*
in response to message #3 by Tony Duell (UK)

When I swapped the modules from the good reader to the bad one, I swapped the entire module that has the motor. That would include the switch assembly, basically everything that comes off when you unscrew the two screws from the bottom that are angled into the module. The only thing I had to do with the module from the good reader was unplug the 5 pins that go into the PC board on the angle, the two wires from the motor, and the five from the head. I was careful to put the wires back correctly, using the documentation here and refering to the notes I took before removing them.

None of the circuit boards were swapped, so I think the ones in the bad reader are ok as they worked fine with the other motor/head module.

However, in working on the bad reader before that I had disassembled completely and reassembled it several times. So if the switches can be done incorrectly and the card still be pulled through, maybe that's what I messed up. I'll go look at that again.

Thanks, Tony.

Re: Tech help repairing an HP-41 card reader
*Message #5 Posted by **Tony Duell (UK)** on 31 Jan 2003, 5:57 p.m.,*
in response to message #4 by Dave Mabry

YEs, I would now look very carefully at the switches. Make sure that (a) the card detect cams are in place and the right way round, (b) the contact strips are clean, correctly hooked into the frame and the cams, (c) the contact strips make contact with the PCB properly and (d) the PCB contacts are clean. Also check that the 5 (?) pins from the mainboard to the switch PCB are making proper contact. There are 2 swtiches and a photodetector on that PCB. The photodetector is for write protect, the 2 switches are basically card-inserted (which turns on the power to the reader, motor, etc) and card-at-head (start reading or writing).

Re: Tech help repairing an HP-41 card reader
*Message #6 Posted by **David Smith** on 31 Jan 2003, 6:13 p.m.,*
in response to message #1 by Dave Mabry

My bet is an open circuit to the head. Check the winding resistance. Two pairs of wires should show the same value (usually around 40-50 ohms). The black wire should show zero ohms to the metal case around the head.

Fixed! Thanks Tony, Dave, Gordon, and Randy
*Message #7 Posted by **Dave Mabry** on 1 Feb 2003, 12:41 p.m.,*
in response to message #1 by Dave Mabry

Just wanted to thank Tony, Dave, and Gordon for their suggestions. I checked the resistance on the head, both windings, and they were both in the 50-60 ohms range. Seemed that was ok.

Then I worked on the copper switches. They both worked ok, so that left me with the small piece of copper strip that appears to apply some pressure to the back of the card right in line with the head. I assume that it is to make sure the card is in propper contact with the head. Comparing it to a good one, it appeared that I must have bent it a bit in my past attempts to

make the thing work. I straightened it a bit, trying to make it shaped as close to the working one as I could. That did the trick!

The reader works perfectly. And while it was opened, I replaced the rubber wheel which was not quite gummy yet, but not really as it should be. Thanks, Randy, for the tubing! Works like a charm!

So, thanks again guys. I really appreciate the help and support of you all. This forum is a great place.

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hp41cx slow in USER mode
*Message #1 Posted by **andy** on 30 Jan 2003, 11:53 a.m.*

My 41cx responds to keystrokes more slowly when it is in USER mode. The effect is most pronounced on keys which have a shifted key assignment. Is this normal?

Thanks,

Andy

Re: hp41cx slow in USER mode
*Message #2 Posted by **Mike (Stgt)** on 30 Jan 2003, 12:45 p.m.,*
in response to message #1 by andy

Yep, normal for keys of the two first row. Do a GTO.. and try again. Reason: in user mode the HP-41 looks for a corresponding label in the current program.

An other solution: ASN the primary function to the key. That way you can't use the "look for a label in the current program and start execution there"-feature. So I only use it for X<>Y and RDN and loose the quick access to label F and G.

Ciao.....Mike

Re: hp41cx slow in USER mode
*Message #3 Posted by **George** on 30 Jan 2003, 7:06 p.m.,*
in response to message #2 by Mike (Stgt)

I have never owned an HP-41, but a co-worker did. Now its been about 15 years ago so my memory my be clouded. But I think I remember that happening to his and he found out that the print command had been activated. When print was turned off, the calculator resumed normal speed. How about '41 users, is this possible?

Re: hp41cx slow in USER mode
*Message #4 Posted by **Vieira, Luiz C. (Brazil)** on 30 Jan 2003, 10:43 p.m.,*
in response to message #3 by George

Hi;

not quite, I presume; the only printing activity I know that would slow down the keyboard response is having the printer in TRACE mode while it is connected and ON. Mike's post is precise and correct, if the calculator is in USER mode, 15 keys ([a] to [e] and [A] to [J]) are remapped to search for related labels in the current program. Being the program too small OR being the program pointer locted in the last program in memory (the permanent .END. only, what is asccomplished with [GTO][.][.]), then it resumes normal response to key requests.

my US$ 0.05

Luiz C. Vieira

Re: hp41cx slow in USER mode
*Message #5 Posted by **Mike (Stgt)** on 31 Jan 2003, 5:16 a.m.,*
in response to message #3 by George

The slow down when a printer is connected has nothing to do with the user mode.

Ciao.....Mike

Re: hp41cx slow in USER mode
*Message #6 Posted by **Vieira, Luiz C. (Brazil)** on 2 Feb 2003, 2:50 a.m.,*
in response to message #3 by George

Hi;

George was right about the information related to printer connection and consequently calculator slowing down in program execution speed.

It is clearly stated at the Printer's Manual that the system [HP41 plus printer] will interact with each other thus causing a reduction in speed, mostly in program running. The initial post in thread is not related to this particular issue, but I disagreed with George's comments; I was wrong and George was right. Makes perfect sence, the MODE key is built in the printer's panel, and at any moment, the user may switch the printer to NORM or TRACE, and the running program (or any other operation prformed

by the user) must scan for this possibility OR wait for a "wait" from the printer if it is printing something.

The printer connector is, in fact, the interface itself, and at the moment it is connected to the HP41, it's resources become part of the existing function set in a different way (same as happens with the HPIL module): you plug it on any available port and their functions are always listed first in CAT 2 (except in the HP41CX's Time Fcn 1x and CX Time 2x, always the first ones in this model). If I remember well, these modules have their functions mapped in predefined positions in memory.

George, my apologies; you were right.

Cheers.

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HP48GX Emulator Windows Problems
*Message #1 Posted by **gordon** on 30 Jan 2003, 4:54 a.m.*

I have loaded up the Emu 48 program and included the Rom48. It starts up and shows the calculator faceplate so should work but windows throws up an error and asks whether I would like to send a report. I running on Windows XP home version and maybe this is the problem. Does any one have any advice? Thanks.

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Working Lifetime of LCD Displays
*Message #1 Posted by **Nick Nicholas** on 30 Jan 2003, 4:22 a.m.*

I read somewhere that the LCD displays have a limited lifetime and that is why LCD calculators have limited value as working collectables.

Other than the batteries of the older calculators, are there other components of the calculator that may have a limited time before they degrade and are no longer functional?

Re: Working Lifetime of LCD Displays
*Message #2 Posted by **John Smith** on 30 Jan 2003, 6:47 a.m.,*
in response to message #1 by Nick Nicholas

If there's actually some limit to the useful life of LCD displays it must be quite high, indeed.

I have a number of very early LCD calculators in my collection, some of them of the 'first-batches' yellow LCD type, and not only do they still work fine, but I can't notice any sign of degradation or diminished functionality whatsoever, despite the fact of them being 25+ years old.

Re: Working Lifetime of LCD Displays
*Message #3 Posted by **Grant Goodes** on 30 Jan 2003, 10:11 a.m.,*
in response to message #2 by John Smith

The lifetime of first-generation LCD displays is highly variable, and probably dependent on the temperature extremes to which they are exposed. My only LCD calculator is my 41CX, but I have additional experience with Nikon F3HP ("High eyePoint", not Hewlett Packard!) cameras which use a miniature LCD display in the viewfinder. These cameras came out in 1979/80, much like the HP-41C. The displays of Nikon F3 _do_ loose contrast over time, eventually becoming virtually unreadable, but not every F3 seems to suffer from this. No one really knows, but speculation among F3 users is that the extremes of temperature that these cameras can be exposed to by their (often professional photog) users accelerates the

problem.

My 41CX almost never sees anything but room-temperature, while my Nikon F3/T gets everything from arctic to desert.

grant..

Re: Working Lifetime of LCD Displays
*Message #4 Posted by **Tom (UK)** on 30 Jan 2003, 12:45 p.m.,*
in response to message #1 by Nick Nicholas

I think LCD's are more prone to physical damage, e.g. temperature, shock, delamination etc. So if you look after them well they should last a long time.

LED displays seem more prone to electrical faults in the driving circuitry, I'd guess this is due to the much higher current being drawn. I don't know what the fail mechanism is for LED drivers, I'd guess burnout of the driving circuit or electromigration (over a very long time the internal wiring of the ic gets thin and eventually 'snaps' due to the high current density).

If you own an HP calc it doesn't matter what the fail mechanism is, it still stops working (both are repairable - replace the LED driver or replace the screen).

From this forum there seems (to me) to be more postings about LED problems than LCD - this would imply that 'well looked after' LCD calcs are more reliable than LED calcs but may also be due to LED calcs being older, or users just acepting that LCD's fail so are not too bothered about asking for help.

my 2 pennies worth

Re: Working Lifetime of LCD Displays
*Message #5 Posted by **David Smith** on 30 Jan 2003, 5:55 p.m.,*
in response to message #1 by Nick Nicholas

Some early LCD's had problems with contaminates in the goo that over time caused it to decompose. This does not seem to be a problem with HP LCD's. Early LEDs had problems in the bonding and processing of the gallium arsenide/phosphide/etc semiconductors. I have seen quite a few bad LED displays in HP calculators. The only LCD faults were caused by physical damage or dirty interconnects.

Re: Working Lifetime of LCD Displays

*Message #6 Posted by **Gordon Dyer** on 30 Jan 2003, 6:54 p.m.,*

in response to message #1 by Nick Nicholas

I did some reliability testing of LCD displays in the early 80s. They will last for a very long time if they are stored and used at room temperature and with the humidity level not too high. High humidity can be a killer for early displays and so can any contaminants introduced in the manufacturing process. So dont store them outdoors in damp conditions.

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HP-48G+ with RAM extension & increased speed

*Message #1 Posted by **Juergen Rodenkirchen (GER)** on 30 Jan 2003, 3:06 a.m.*

Hi altogether!

I consider getting an HP48G+ with internal RAM-extension (1-2 MB) and a Speed-Module which is said to increase Prozessor speed about 30-40%. My concern is that 1. the increased Processor speed will harm the Saturn in the long run and 2. the Module + internal RAM-card would force draining of the batteries considerably. Does anyone has any information or even experience on this?

Regards, Jürgen (HPCC #1065)

Re: HP-48G+ with RAM extension & increased speed

*Message #2 Posted by **Erik Ehrling (Sweden)** on 30 Jan 2003, 5:29 a.m.,*
in response to message #1 by Juergen Rodenkirchen (GER)

Hi Juergen, I have been using a HP48GX1280Sp quite a while and can only see two drawbacks 1) Battery consumption (in my unmodified HP48GX I change batteries very seldom, while the overclocked HP48GX1280Sp more or less "eats" batteries. If this is due to the overclock or that the memory is not having the same low consumption as HP RAM card memory, I don't know). 2) The clock gets out of sync, but I have never used the clock so that is less of a matter to me.

Best regards, Erik Ehrling

(Remove NO-SPAM from the email address before using the email address)

Re: HP-48G+ with RAM extension & increased speed
*Message #3 Posted by **Juergen Rodenkirchen** on 30 Jan 2003, 6:28 a.m.,*
in response to message #2 by Erik Ehrling (Sweden)

Hi Erik!

Thanks a lot for your input! The info of the effect of speeding up the machine on the system clock is particularly valuable to me! Just for your info: I'm using a 512KB card by Cynox (Germany) in my HP48GX (normal speed) and there seems to be no (significant) draining of the batteries. So, I guess, the machines hunger for batteries is mainly due to the overclocked CPU ... I'm not sure on this, however ... Thanks again!

Juergen

Re: HP-48G+ with RAM extension & increased speed
*Message #4 Posted by **David Smith** on 30 Jan 2003, 5:59 p.m.,*
in response to message #2 by Erik Ehrling (Sweden)

The power consumption of a CMOS circuit generally scales in direct proportion to the clock rate. Boost the clock 50 percent, power goes up 50 percent. I suspect if a modified machine really eats the batteries it is caused by the RAM chips. If any input or bidirectional pin on a CMOS chip is left floating, that one pin can cause the chip to draw a HUGE amount of power.

Re: HP-48G+ with RAM extension & increased speed
*Message #5 Posted by **Juergen Rodenkirchen** on 31 Jan 2003, 1:50 a.m.,*
in response to message #4 by David Smith

Thanks! If I understand you right, you suspect that the increased power consumption is almost only due to the RAM-card installed. Well, might be that my experience is based on faulty "experiment-assumptions" (not using the HP48G+ with card installed "equally" to that without card, that is). However, perhaps I'll sacrifice a set of batteries in order to conduct a reliable experiment sometime :-) I'd let you know then ...

Re: HP-48G+ with RAM extension & increased speed
*Message #6 Posted by **R Lion** on 31 Jan 2003, 2:04 a.m.,*
in response to message #5 by Juergen Rodenkirchen

"the increased power consumption is almost only due to the RAM-card installed"

I've always read in comp.sys.hp48 that the "speed module" is the guilty in this story, but I have not electr. knowledge... I have a GX with two cards (128kb and 1Mb) and the battery consumption is about three months with normal use Regards

Raul

Re: HP-48G+ with RAM extension & increased speed
*Message #7 Posted by **Juergen Rodenkirchen** on 31 Jan 2003, 3:32 a.m.,*
in response to message #6 by R Lion

Thanx for dropping in! I'll try to check comp.sys.hp48 for the information you indicated. As for the note on the use of the HP48GX with cards: Well, OK, but the plug-in cards do have individual power supplies (at least, this is true for the cards by "Cynox" that I use) don't they? So, they shouldn't affect the calcs batteries at all?

Re: HP-48G+ with RAM extension & increased speed
*Message #8 Posted by **R Lion** on 31 Jan 2003, 2:41 p.m.,*
in response to message #7 by Juergen Rodenkirchen

Well... you are right in a part: the card battery feeds the card when the calc is OFF, so only when I use the calculator, the main (system) batteries are feeding the extra RAM. Raul

Re: HP-48G+ with RAM extension & increased speed
*Message #9 Posted by **R Lion** on 31 Jan 2003, 2:48 p.m.,*
in response to message #7 by Juergen Rodenkirchen

I forgot... Looking in comp.sys.hp48 you'll find a post of VPN saying that the speed increase is not great... I can't remember exactly what he said, but I remember that after reading I thought it is not worth. Perhaps a standard GX with Klot's RAM cards is cheaper.

Regards

Raul

Re: HP-48G+ with RAM extension & increased speed
*Message #10 Posted by **Juergen Rodenkirchen (GER)** on 31 Jan 2003, 3:56 p.m.,*
in response to message #9 by R Lion

Hi Raul!

Many thanks again for your comments! I haven't been aware that the cards batteries aren't feeding the card when the calc is on; new information to me -thanks! Also, I'll try to get the info on the realistic speed increase you mentioned so as to overthink my decision. Maybe you're right that an HP48GX with Klots RAM cards would be cheaper, maybe an HP48G+ with extra memory but without Speed Module is the best choice ...

Have a nice weekend, Juergen

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A glimmer of hope
*Message #1 Posted by **Robert** on 29 Jan 2003, 11:01 p.m.*

I received the following in response to an inquiry about the future of HP and RPN. I figured it wouldn't hurt to ask. This came from HP's Consumer e-Support.

Hello,

Yes, we will have a new RPN scientific coming out sometime this year. We are not sure of it will be a direct replacement of the 32SII (the latest discontinued RPN scientific) but it will be a small RPN.

Re: A glimmer of hope
*Message #2 Posted by **Glen Kilpatrick** on 30 Jan 2003, 1:06 p.m.,*
in response to message #1 by Robert

Small RPN??? With virtually (I've been watching the posts lately) all of the RPNs ever made being HP ones, they shouldn't have to downsize functionality much (all that code inhouse).

And they can't be meaning the size of the _calculator_ (hmmm, maybe that ugly red thingie that Katie spotted, http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/forum.cgi?read=26987, WILL be turned into an RPN, the mind boggles at the very suspicion).

So the very word small is disturbing.

Re: A glimmer of hope
*Message #3 Posted by **Dave Hicks** on 30 Jan 2003, 1:32 p.m.,*
in response to message #2 by Glen Kilpatrick

I *think* they mean small in comparison to a 48/49. My impression is that something roughly 32S-like is in the works.

Re: A glimmer of hope

*Message #4 Posted by **Bill Wiese** on 30 Jan 2003, 1:43 p.m.,*

in response to message #2 by Glen Kilpatrick

Ummm, perhaps not (HP having code in-house)...

> *Small* RPN??? With virtually (I've been watching > the posts lately) all of the RPNs ever made being > HP ones, they shouldn't have to downsize > functionality much (all that code inhouse).

HP calc division has been rearranged/re-org'd to near-extinction - meaning conversion from engineering-driven to marketing-driven, essentially a branding operation now that good old stuff is gone and new stuff is OEM'd. With skilled people gone out the door, there's a high probability they may well have code they don't know what to do with (i.e., patch/modify/ adapt to new design) or hardware available to on which to run this firmware. Indeed, they might not even have anyone that knows the Saturn architecture anymore.(!!)

In many computer endeavors, when there's specialized old code hanging around - esp if commenting/docs not complete or clear - and several generations of folks have cycled thru the door carrying all the 'unwritten history' out the door in their heads - code bodies can become almost unmodifiable in reasonable timeframes: the code has to be almost reverse-engineered. In many cases it can be easier to start from scratch. For example, it'd be relatively easy to do a new calc firmware pkg written in the C language, using BCD arithmetic & CORDIC math functions. Would take a tad more ROM than hand-tweaked Nut/Saturn stuff, but ROM space/area is not at a premium in modern cheap microcontrollers, and performance & power consumption are now very good - and time to release is a lot quicker.

These days new HP calcs seem to be "specified" now more than "designed" by HP. If an RPN calc were to be implemented, HP would just say, "Hey, OEM, make this calc an RPN job, OK?". Thus the recent request to this website's Dave Hicks (from Citizen, an HP OEM) for RPN user manuals.

For a calc co that still has calc firmware guys around, Citizen (and others) would readily be able to adapt an algebraic calc into an RPN calc. If it's a true old-style RPN calc (4-level XYZT stack + LastX) instead of an RPL setup [which I PROFOUNDLY hope!] then the firmware needs will be SIMPLIFIED in contrast with an AOS-style calc. (Thus, no need for order of operations issues, hierarchies, parentheses, etc.)

I'm just hoping the new RPN calc has a large Enter key, CHS and EEX above the numeric area. I can also see a screw up happening - creating an RPN calc and forgetting to include a RDN key or LastX register, believing those are extraneous luxuries. :)

Another problem: they may be too cheap to change the molds from an existing calc and just make the '=' key an Enter key. (Booo, hiss...) The classic "HP layout" variants have stood the test of time - I don't really care if +,-,x,/ arith funcs are on left or right side of numeric keys, but I do want ENTER on top. I'm pretty used to CHS & EEX being up there too.

Bill Wiese San Jose, CA

Re: A glimmer of hope
*Message #5 Posted by **Christof** on 1 Feb 2003, 5:04 a.m.,*
in response to message #4 by Bill Wiese

I think Bill has some good points. One of the things that boggles me is that the two most elegant and widely used/recognized designs of all time are not used as even a basis in modern designs (guess)

Okay, sure, you want to make something that matches a rice boy Civic... can you at least keep the key arrangements and format right?

The other consideration is that- IF IF IF they can get the RPN implementation right, you've just opened up a whole new possibility for the future of RPN calculating. If the OEM manufacturer is making it, there's nothing that says other resellers/rebranders can't go providing RPN calcs.....

-Christof (voyager and pioneer, of course)

Re: A glimmer of hope
*Message #6 Posted by **Fred Lusk** on 30 Jan 2003, 9:01 p.m.,*
in response to message #2 by Glen Kilpatrick

No, No … here's what I think they mean:

Large RPN = HP-48/49 with unlimited stack Medium RPN = tradition HP with 4-level stack

THEREFORE, Small RPN must be a one-level stack. :-)

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HP-67 Keyboard

*Message #1 Posted by **Ernie Malaga** on 29 Jan 2003, 10:30 p.m.*

Hi everyone. Back in 1977 I received an HP-67, supposedly brand-new. I always suspected that they gave me a used one, however, but all I have is a hunch -- no evidence.

If you took the calculator and shook it, the keys rattled, for they were pretty loose. Some keys had different feel from others. I remember particularly well that the (i) key felt funny and had no tactile feedback the way the other keys did.

At the same time a friend of mine had an HP-65 (on loan from someone else), and I distinctly remember that the 65 had none of the keyboard problems my 67 did.

The 67 gave me excellent service, mind you, but even after 26 years, I'm still curious about that machine's keyboard.

-Ernie

Re: HP-67 Keyboard

*Message #2 Posted by **Kris Collins** on 30 Jan 2003, 3:28 p.m.,*
in response to message #1 by Ernie Malaga

For what it's worth, the keys in the second hand 67 that I have rattle also. None have a different feel however. All appear to work properly.

Re: HP-67 Keyboard

*Message #3 Posted by **David Smith** on 30 Jan 2003, 6:03 p.m.,*

in response to message #1 by Ernie Malaga

Key rattle is normal. A dead feeling key on any of the classic series machines is usually caused by a split in the metal key strip for that key. They always split vertically on the left hand side about 1/16 inch from whrere the key strip rises up for that key. The only fix is to cut out the key strip and solder in a replacement from another machine. It can be a pain to get the replacement key feel to match its neighbors.

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What happened to the red dot 35?
*Message #1 Posted by **Dave Mabry** on 29 Jan 2003, 10:04 p.m.*

Does anyone know what happened here? Did any of our regulars buy this calculator? I'm curious.

e-bay auction for "red dot" HP-35

Re: What happened to the red dot 35?
*Message #2 Posted by **Katie** on 30 Jan 2003, 3:54 a.m.,*
in response to message #1 by Dave Mabry

I was the high bidder at the time, and the seller didn't offer it to me. I've sent them an email asking why.

Re: What happened to the red dot 35?
*Message #3 Posted by **Todd G** on 30 Jan 2003, 6:46 a.m.,*
in response to message #2 by Katie

Katie, I'd like to know what happened. Often, someone (any guesses???) makes the seller an offer and asks him to end the auction early.

Probably sold off of eBay
*Message #4 Posted by **Mike** on 30 Jan 2003, 11:40 a.m.,*
in response to message #1 by Dave Mabry

Someone probably offered him a deal he couldn't refuse. I've asked him why it was removed. We can compare answers.

Just got an answer to my question
*Message #5 Posted by **Mike** on 30 Jan 2003, 2:36 p.m.,*
in response to message #1 by Dave Mabry

I asked why it was pulled and they said it was listed as "unknown condition" and decided to get a battery and test it.

They said it would be relisted. If this is true, we should see it shortly. It doesn't take that long to test :-)

Re: Just got an answer to my question
*Message #6 Posted by **Katie** on 30 Jan 2003, 3:51 p.m.,*
in response to message #5 by Mike

I got the same response.

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HP-67 card reader - To David Smith
*Message #1 Posted by **Michel Beaulieu** on 29 Jan 2003, 9:28 p.m.*

YOU ARE A GREAT GUY!!! I did what you said and adjust the little screws on my card readers golden plate. I also change 2 capacitors; it was hard and i did a lot of dissambly - reassembly but now IT WORKS LIKE A NEW ONE WITH 100% of positive writing and reading!!!

I even have some tears when i saw my first "programs" writing corectly try after try after hours of frustrating job!!!

I was obsess by the card reader for some days. Even at works during breaks trying some new adjustments. My co-wrokers said that i'm a fool to work on that "dirty antiquity" or "obsolete hardware" HP-67. Me too i don't understand, i'm probably sick, if you analyse that, it's hard to understand, specially for a guy how have a TI-92 plus on his desk but always use a CX or a TI-59. How can they treat this beauty as a dirty-hugly hardware?!?

Anyway, i just want to Thank you for your Tips, they were helpful.

I have another question : I install 2 oring to replace the gummy wheel but one of them is always "spinning out" of the sharf and touch the reader casing : how can i "glue" them in place?

Another one : What is the purpose or the screw-notch at the end of the white plastic shaft that hold the reader wheel in place - Allignement of the wheel?

Thanks again!

Michel Quebec

That's why I don't use O'Rings
*Message #2 Posted by **Mike** on 30 Jan 2003, 11:44 a.m.,*
in response to message #1 by Michel Beaulieu

They can tend to slip. Not much contact.

The slot in the end of the shaft is for adjustments. The shaft is an eccentric shaft, which means as you turn the shaft, the shaft moves closer or farther from the roller. This can be used to get the correct amount of tension on the roller.

I set mine a little less than maximum tightness. Seems to work for me ok. I also set it this way because newer magnetic cards are thicker than pre-recorded cards. I have seen that if this is set to work only with new cards that pre-recorded cards might not read correctly.

We Understand.
*Message #3 Posted by **Michael Meyer** on 30 Jan 2003, 2:08 p.m.,*
in response to message #1 by Michel Beaulieu

We understand your illness.

Most of us have it.

Pages and pages have been written trying to explain it here. The bottom line:

Restoring one of these beauties to new condition is a profound experience. Using them is also.

Think about the guy who just got his Model A running as good as new.

Good Health, Live Long and Prosper, and (H)appy (P)rogramming!

Michael

Re: HP-67 card reader - To David Smith

*Message #4 Posted by **David Smith** on 30 Jan 2003, 6:21 p.m.,*

in response to message #1 by Michel Beaulieu

I always use the silicone fuel line for my reader repairs. It works very well and makes good contact with the cards. I don't like o-rings becuase they tend to slide apart and drag on the sides of the reader housing. Also I have never been able to find the proper (#005) size. The standard #006 size seems to be a tiny bit too big.

The shaft for the card reader drive wheel is actually an off-center cam. By turning it you can adjust how tight the roller grips the card. I try to set mine as loose as possible on most machines. You might find a machine that needs some more tension, but I never have (done over a hundred of them).

The final problem you may encounter is the coupling between the motor shaft and the worm gear. On quite a few machines it is worn to the point where it slips so much the card will not go through. In really bad cases it has crumbled to dust. Some people call this coupling a clutch and thing the slip is a good thing in case a card jams. I don't think so... the HP97 service manual talks about holding a card with tweezers and measuring the stall current of the motor. On machines with a slipping coupling I use a drop of rubberized super glue called IC2000 tire cement. It is used by radio control car racers to glue rubber tires onto rims. It would also work to hold o-rings. A little goes a long way... too big of a drop and you cannot slide the worm gear onto the shaft beacuse of fluid pressure. Dont let it get into the motor bearings.

A final final thing is a reader that screams like a banshee. This is caused by the tip of the worm gear scraping on the tiny thrust bearing ball embedded in the reader housing. I have found that a drop of lube here fixes the problem. I use a gun oil called Break Free CLP. I also lube the worm gear itself. Dont get the oil into the shaft coupling mentioned above. Just the tiniest film will do. A strange thing about Break Free is it seems to take a half hour or so to reach maximum effect.

Re: HP-67 card reader - To David Smith

*Message #5 Posted by **David Smith** on 30 Jan 2003, 6:24 p.m.,*

in response to message #1 by Michel Beaulieu

I always use the silicone fuel line for my reader repairs. It works very well and makes good contact with the cards. I don't like o-rings becuase they tend to slide apart and drag on the sides of the reader housing. Also I have never been able to find the proper (#005) size. The standard #006 size seems to be a tiny bit too big.

The shaft for the card reader drive wheel is actually an off-center cam. By turning it you can adjust how tight the roller grips the card. I try to set mine as loose as possible on most

machines. You might find a machine that needs some more tension, but I never have (done over a hundred of them).

The final problem you may encounter is the coupling between the motor shaft and the worm gear. On quite a few machines it is worn to the point where it slips so much the card will

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HP's Latest Calc
*Message #1 Posted by **Katie** on 29 Jan 2003, 6:07 p.m.*

Is this HP's new calculator?

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3004441824&category=11713

:-)

Re: HP's Latest Calc
*Message #2 Posted by **Daniel Diggelmann** on 29 Jan 2003, 6:34 p.m.,*
in response to message #1 by Katie

Hi Katie,

Thanks for you link. I had a good lough when I saw it. The sad part of the story is that HP actually seems to really go that road. They should have stopped (like a sports champion) as long as they were good.

Cheers Daniel

Re: HP's Latest Calc
*Message #3 Posted by **David Smith** on 29 Jan 2003, 8:34 p.m.,*
in response to message #1 by Katie

Nope, it was too expensive to build them that way... another Carlyized product bites the dust.

Re: HP's Latest Calc
*Message #4 Posted by **Dave Hicks** on 29 Jan 2003, 8:59 p.m.,*
in response to message #1 by Katie

I was hoping for a little more ;-)

Re: HP's Latest Calc
*Message #5 Posted by **Michel Beaulieu** on 29 Jan 2003, 9:40 p.m.,*
in response to message #1 by Katie

They should have made that little "corporate gift" RPN with his 4 functions... "the last RPN calc HP done"...

Re: HP's Latest Calc
*Message #6 Posted by **Christof** on 30 Jan 2003, 2:50 a.m.,*
in response to message #1 by Katie

hey, those keys look suspiciously like the ones on a 30S....

I wonder if this isn't another citizen clone

Re: HP's Latest Calc
*Message #7 Posted by **Arnold Steekelenburg** on 30 Jan 2003, 7:49 a.m.,*
in response to message #1 by Katie

Hi Katie,

Maybe the marketing people at HP did take a good look at Sony... this could be the equivalent of 'my first .....' products aimed at the 1-3 year old..... ;-))

Arnold

Re: HP's Latest Calc
*Message #8 Posted by **Paul Guertin** on 30 Jan 2003, 8:25 a.m.,*
in response to message #7 by Arnold Steekelenburg

A sturdy RPN 4-function calculator, designed for young children, perhaps with a four-line stack display to make learning easier, would be great. Get them hooked while young. (Not that this has the slightest chance of happening, but one can dream.)

Re: HP's Latest Calc
*Message #9 Posted by **Jan (Switzerland)** on 30 Jan 2003, 1:33 p.m.,*
in response to message #8 by Paul Guertin

May be we simply do not understand the excellent marketing approach. This calc design may be the outcome of a major customer survey, where the customers were asked what functions the need, what colors they like and what is the maximum number they deal with. The product seems to be positioned below HP 9, which according to the same study is considered over-engineered.

Jan

(:-))

Re: HP's Latest Calc
*Message #10 Posted by **Christof** on 1 Feb 2003, 5:11 a.m.,*
in response to message #8 by Paul Guertin

Easy enough, I think. since kids are into the lights, grab a pile of suprlus 7 segment LED bricks, pop 48 of them into a largish housing, and grab the keypad part from the nice laptop 10key addons. (I think you can get 17 key ones with a serial interface really cheap, I have a couple of parallel interface ones)

make the top left (usually numlock or something) into a shift key so you can have RDN, RUP, X<>Y, and maybe some registers?

As long as the power suppky isn't too complex, it should be doable as a level 2 kit if you have included a preprogramed ROM, or a really nice kit to mess with if you used a flash ROM and had some simple ethod of flashing from PC.

IT wouldn't be a cheap kit, even if you backed down to really cheap 10 digit 7segment LCD displays stacked up. But I think it would work.

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Looking for Stephan Mettauer and Adrian Godwin
*Message #1 Posted by **Dave Hicks** on 29 Jan 2003, 2:45 p.m.*

I haven't been able to contact you via email. Please see this post and send me your wants lists.

If anyone knows how to contact either of them, please let them know that they could be missing out on free stuff! :-)

Answered via e-mail
*Message #2 Posted by **Stephan Mettauer** on 30 Jan 2003, 3:05 a.m.,*
in response to message #1 by Dave Hicks

I have seen David's post and contacted him. Thanks. Stephan

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HP 41 CV (STO) 2nd
*Message #1 Posted by **Bauscher; TLT (Germany)** on 29 Jan 2003, 12:31 p.m.*

Thank you Gene,

I've tried all. I pressed shift and CLX/A simultouniusly during switching on; display shows MEMORY LOST and then 0.0000 (i.e. that majar claer was done), but all the same.

Even I took out batteries out during calculator was on, all the same, only 63 registers, no more.

Thank you all, Bauscher

Re: HP 41 CV (STO) 2nd
*Message #2 Posted by **Gene** on 29 Jan 2003, 1:53 p.m.,*
in response to message #1 by Bauscher; TLT (Germany)

Then it may be as described in a response below:

1) An HP-41CV case with the logic board of an HP-41C (only 63 memories) inside

or

2) A memory failure

Try "XEQ SIZE 000" and tell us what is shown when you press PRGM.

00 REG 63

?

Gene

Re: HP 41 CV (STO) 2nd
*Message #3 Posted by **Bauscher;TLT** on 30 Jan 2003, 3:04 a.m.,*
in response to message #2 by Gene

Thank you Gene and thank you Luiz (boa tarde, muito obrigado para a sua carta)

Both of you seem really be experts!! I appreciate.

The HP 41 CV I am speaking of is about 15 - 20 years old. I have got it from a colleague, who retired end Dec.

The problem started, when I was using a balancing program (made by Schenck company) for balancing fans in field. The program (chip to put in in one of the four slots) is using the device GTO 063. Then the program ends, indicating in the display NO ROOM.

- Gene: when I do what you are telling (XEQ 000),the display is showing 00 REG 63

- Luiz: LCD shows a thin black frame with rounded edges. My retired colleague is telling, that he did not have noticed this behavior. So it started suddenly. In the moment I cannot use the calculator. I appreciate any help and would like to do some SIZE STO and PRGM sequences.

Regards Bauscher

Re: HP 41 CV (STO) 2nd
*Message #4 Posted by **Vieira, Luiz C. (Brazil)** on 30 Jan 2003, 3:48 a.m.,*
in response to message #3 by Bauscher;TLT

Hallo, Bauscher; Wie geht's? Vielen danke, der Portugiese ist korrekt!

Please, read this post and tell me what do you really have in hands. I am a bit confused: if you have an HP41CV halfnut type, I cannot understand what is going on.

But I will not give up. Will you follow me?

Mach's gut!

Luiz C. Vieira

Re: HP 41 CV (STO) 2nd
*Message #5 Posted by **Bauscher;TLT** on 30 Jan 2003, 12:36 p.m.,*
in response to message #4 by Vieira, Luiz C. (Brazil)

Dear Luiz, voce fala bem alemao; muito bom!! Onde voce appreendeu?

To sum up:

Thank you for not giving up.

I have 2 HP 41 CV. First is okay, second I have got from a colleague, who has retired end Dec.

Sometimes I work as a field engineer and I balance big fans in pellet plants (like CVRD, Samarco and Ferteco, near Belo Horizonte MG and Vitoria ES, you know better).

For this I am using the calculator with a module (set in in one of the 4 slots). The module is made by Schenck.

With the first calculator everything is okay, with the second calculator (the one, which I received from the colleque recently) not. The program is not running, because it stops, indicating in the display NO ROOM. At a certain step the program is telling GTO any register > 063. This is the moment, where the program stops, because the HP has only 63 free registers (from 000 to 062 i.e. sum = 63). I am not able to increase the registers. It works only up to XEQ SIZE 063. When I press XEQ SIZE 064 the display is saying TRY AGAIN. No master clean or XEQ PACK is improving the situation. That means STO (and RCL) up to 062 is working, STO and RCL 063 and larger indicates NONEXISTING in display.

Do you have any hints? A proximo! Bauscher

HP 41 CV (STO) ....The mistery goes on

*Message #6 Posted by **Vieira, Luiz C. (Brazil)** on 30 Jan 2003, 5:00 p.m.,*

in response to message #5 by Bauscher;TLT

Hallo, Bauscher;

Danke. Your Portuguese expression is also very good. Ich mag die Deutsche Kultur, but I did not have the chance to study German, I just attended six classes and felt I must learn it, it amused me. When I write something in German (like the few words above) I first write in German than I spell check it and finally I use a translator from German to English. If the translation makes sense, chances are the sentence is "korrekt, rechts?". It seems to me you have been in my country some times, am I right? My brother, Paulo Vieira, have already been working at CVRD for many years, but he was in Rio de Janeiro.

Well, let's go for the calculators: I still believe you have an HP41C (fullnut type, earlier) mainboard built inside an HP41CV case OR you have a genuine HP41CV with a failure RAM IC. In the second case, what happens is the following. (a bit of HW) The fullnut type 41CV has six RAM chips, being the first chip (1LA701) a 16-register long and it holds the system "variables", known as the stack registers (X, Y, Z, T and Last X), ALPHA registers (despite being one single memory reference, the system uses four internal registers to hold it), flags and other data. The second one (1LE701) is 64-register long and holds the first 64 registers (you see only 63 because there is a permanent .END. that always uses three bytes and kind of "hide" one register from the count) and it is present in any fullnut type, being it a C, a CV or a CX. When any of these RAM chips fail, the calculator will not switch to ON (I saw an HP41C that insisted on a MEMORY LOST because the 1LA701 had a bad soldering contact with the mainboard). The last four ones (from 1lE702 to 1LE705) hold 64 registers each and are equivalent to four Memory Modules or one Quad Module in the HP41C. If by any reason one of them is no longer working, the remaining ones will never be part of a PROGRAM, but if they exist, they can store data.

Now let's perform some tests and verify what's going on. Think of an HP41C without any data stored on it and one single memory module. Plug the module in port two instead of port one, switch the calculator to ON and execute [SIZE 000]. Toggle to PRGM mode and you see [00 .REG. 63]. If you execute [RCL] 63 you get an instantaneous [NONEXISTENT]. BUT if you execute [RCL] 64, the calculator will not complain. If you switch the calculator to OFF, remove the module from port two and plug it into port three, switch the calculator to ON and execute [STO] 64 again, you have [NONEXISTENT] back to the display. Now do the following:

```
input   press     display


128      [STO]     [STO _ _       ]
      [shift key] [STO IND _ _   ]
         [.]      [STO IND ST _  ]
```

```
        [X]      [ 128.00       ]
```

You'll see [STO IND X] briefly in the display, and if everything is fine, no complains again. In the first case, the missing port-1 module leaves a gap in memory that is 64-register long (R00 to R63) and the first "existing" register is number 64, as long as you have the first ones defined as program memory (what is done by the [SIZE 000] execution). In the second case, the gap is now 128-register long (R00 to R127), being R128 the first one existing. This seems to happen because the system probably checks for memory contiguity at program (uncommitted) level, there is no need to check for memory contiguity at register level.

If you have three modules plugged each in ports two, three and four and you execute [SIZE 000], you will still see [00 .END. 63] in PRGM mode, provided no program is stored in the calculator. But you may access from R64 to R255 in this case. So, try it: execute SZE 000 and try recalling memory contents (with indirect access) from 64 up to 318, just a few of them in the range for each RAM chip (e.g.: 64, 128, 192, 256; these are the first positions for each of the four RAM chips when you execute [SIZE] 000)

Hope this helps.

Re: HP 41 CV (STO) ....The mistery goes on
*Message #7 Posted by **David Smith** on 30 Jan 2003, 7:12 p.m.,*
in response to message #6 by Vieira, Luiz C. (Brazil)

I think he said the "bad" machine has the halfnut rounded display corners. It sounds like the machine most likely has a bad RAM which is located in the display module... not really fixable.

Re: HP 41 CV (STO) ....The mistery goes on
*Message #8 Posted by **Vieira, Luiz C. (Brazil)** on 30 Jan 2003, 9:20 p.m.,*
in response to message #7 by David Smith

Hi, David;

I agree with you, I also had the feeling, but I thought I could even help others in the same situation. Anyway, do you know how does the actual HW "fit" in the halfnuts LCD assy? I wonder if we may find PQPF or resine bubbles, like the ones in the fullnuts' LCD divers. Do you have any knowledge about this?

If it is a halfnut, I have no knowledge about the LCD's contents or the RAM circuitry.

Just for being sure, I'm including a photo (scanned image) so Bauscher may check. (big image, will not fit in the screen...)

(picture unavailable)

Hope this helps a precise identification.

Cheers.

Re: HP 41 CV (STO) ....The mistery goes on
*Message #9 Posted by **Bauscher;TLT** on 31 Jan 2003, 6:00 a.m.,*
in response to message #8 by Vieira, Luiz C. (Brazil)

Hi David, Hi Luiz, thank you very much for all the conversation and help. I am only a small user, I never needed to go in to the details so far, so please excuse me, if I need a bit more time to understand all.

First to Luiz: Eu falo Portugues so um poco, so umas palavras. Estava em Brasil 15 vezes, a primeira vez 1987, nas ultimas duas vezes ultimo ano.

Second to the calculators:

The good one has Serial No. 2907S20384. The bad one 2541S21111.

The program for the balancing I am using is a module:

82500B-E57 C. Schenck AG ID 21/31 Singapore

and additionally 8619. Also is it written CAB 41 on the small side.

(Schenck is a company; which is manufacturing all kind of equipment which is required for vibration measuring and monitoring)

The program (module) works without problem in the good one. In the bad one after some short time NO ROOM is to be seen in the display. I have put it in slot, or as you say, in port 2. Module was working perfect in good calculator for the last 15 - 20 years. I have not put any other module in the slots.

Now I am trying to do, what you are telling.

- master clear is being done. Display showed MEMORY LOST and than 0.0000. - I inserted module HP 82181A (X MEMORY) in slot 2. - I switched on, I executed SIZE 000. - In PRGM mode displays shows 00.REG.63 - I executed RCL 63. Display shows NONEXISTANT. - I executed RCL 64. Display also shows NONEXISTANT. You said, calculator would not complain. What shall I do??

Thank you Luiz for the photos. Both calculators have round edges, i.e. they are both halfnut types (I am beginning to learn).

Thank you. Regards Bauscher

Re: HP 41 CV (STO) ....The mistery goes on
*Message #10 Posted by **Vieira, Luiz C. (Brazil)** on 31 Jan 2003, 10:35 a.m.,*
in response to message #9 by Bauscher;TLT

Hi, Bauscher;

Wow! You must say "I speak Portuguese", not "I speak A BIT OF Portuguese". There are some guys in Brasil that would write what you wrote with grammatical errors, and your Portuguese, for a Deutschlander (is it correct?), is perfectly understandable. Zillion times better than my poor deutschesprechen ... Now I'm ashamed of trying.

Well, for the calculators: I'm sorry I did not express myself in an understandable manner. The X-Memory (HP82181A) you plugged in your calculator will need an X-Functions module (HP82180A) for working, otherwise its memory capacity (238 extended registers) will never be

accessed by the normal functions. And the functions and procedures (create data files) to access the X-Memory are way beyond the simple and handy [STO] nn and [RCL] nn. There are four options to access x-Memory's contents:

1 - Use an HP41CX, that already have the X-Functions as default
2 - use an HP41C or CV (not a CX) with an X-Functions module to access the X-Memory
3 - use another wizard module (I believe PANAME does it) that will allow the X-Memory to be accessed and
4 - the least probable, the Schenck module provides X-Functionality, I don't know if it does.

The examples I gave were based on the fact you might have an HP41C instead of an HP41CV to illustrate what might be happening. The memory I intended to use as for an example was the HP82106, a single Memory Module that should be used only in the HP41C, neither the HP41CV nor the CX should use it because of address conflict (internal 256 upper registers in the HP41CV and CX are internally mapped as having the same address as four HP82106A memory modules or one HP82170A Quad Memory module). I'm sorry I did not explain it this way.

Now, after all you mentioned, my only concerns are about the fact that your HP41CV has a failing RAM. If it is an HP41CV halfnut, the only way to transform it into an HP41C is by changing the LCD's module. And changing the LCD in a halfnut type as a complete block is not too hard, provided that the halfnuts have the same connectors found in the fullnuts to keep the LCD assembly in place, say, they have the metal small brides (smaller than the ones found in the fullnuts' LCD). And this can only be done if the calculator is opened by someone, what I believe was not done by your friend, right?

I'm almost sure the other key sequences I suggested did not work too, right? Say,

```
128 [RCL][shift][.] X
```

or

```
192 [RCL][shift][.] X
```

or

```
256 [RCL][shift][.] X
```

Did you try any of these?

The next possible step now is trying to find a Quad memory module or one single standard Memory Module, plug it in Port one, execute [SIZE] 000 and try [RCL} nn, nn>63. If the memory is bad OR it is a sheep (HP41C) in a wolf's suit (HP41CV), it may work. OR a bigger step: opening the calculator. Can you do that? Anyone you know could do that? If this calculator is mine I'd have already opened it and tried something. But the big problem is that it is a halfnut, and it's easy to mess it up if you do not know what to do. And I have not gone into the LCD's assembly of a halfnut so far...

There is another thing: what do you get when you list ([CAT] 2) the Schenck resources? Do you have a printer so you can hardcopy the resulting list? I'm curious to know if it has only programs or also functions, who knows... I have never seen one of these.

Success and forgive-me not helping the way you mostly need. I posted my e-mail address, if you want a private converstion, but I confess I like to discuss calculators at a community level, mostly because if I miss something, someone will surely call our attention for that. This IS the forum!

Mach's gut!

Luiz C. Vieira

Re: HP 41 CV (STO) ....The mistery goes on

*Message #11 Posted by **Bauscher;TLT** on 31 Jan 2003, 12:49 p.m.,*

in response to message #10 by Vieira, Luiz C. (Brazil)

Dear Luiz, thank you for the fast answer. ..for a German.. correctly it is ..für einen Deutschen... if it is a male person; for a female it is ..für eine Deutsche.. ..Deutschlander.. does not exist, not as Highlander.

Don't be ashamed, keep on trying.

Now to the calculators:

When I do balancing I am only using the Schenck CAB 41 module, not any other module, and it works. I have a booklet from Schenck company (about 40 pages), in which the different possibilities are explained. But it is in German. I can send it to you via fax or via normal post, if you want. When I do CAT 2 it starts like CSD-CAB41/1.....SIZE?....PSIZE....RCLFLAG.....STOFLAG....and so on. I don't know how long the program is, so I stop for the moment. I have a printer 82162A. But I have received it only recently with the second HP 41 CV. Is the printing working automatically or must I go through CAT 2 step by step with R/S on the calculator and press PRINT on the printer step by step? Anyway, if you are interested in the single steps of the Schenck program I will do. Pls. tell me.

PS: The Schenck module is working in any of the 4 ports. I can do 1 stage up to 4 stages balancing, polar and fixed location spreading, sum up different masses to one resultant mass, everything, what is required to balance big machines outside in field.

Now again back to the bad HP 41 CV. As I received it from the collaegue, there had been 2 modules coming with the calculator. The first is the HP 82181A (X MEMORY) and the second one is the HP 5061-5256 (X FUNCTIONS); also 8931 in the plastic bottom. I have seen the both modules for the first time in Dec., as they had been coming along with the bad HP 41 CV. I had no requirement to use it before Dec. with my good HP.

The calculator was not opened so far by anyone, that is for sure.

I have tried now with module X FUNCTIONS in port 1 and X MEMORY in port 2 thr same as you told before; i.e. SIZE 000 then PRGM and 00.REG63 was to be seen. The I did RCL 63, showing NONEXISTENT. Again by pressing RCL 64 also NONEXISTeNT is on the display. I have stopped now, do have same advice? Beginning of January I did some balancing in a power plant. At that time also the bad one was working perfectly.

I did 128 RCL....,192 RCL...,256 RCL.... Always NONEXISTENT is coming in the display.

After I did SIZE 000 not any RCL is working. Even RCL 00 shows NONEXISTENT. Only after SIZE up to 063 I can use RCL (and STO of course). When I press SIZE 064 display is showing TRY AGAIN.

To sum up: good HP is working only with Schenck module perfectly, bad HP is working not, either if I put the 2 modules in or not. From outside they both look same round edges and HP 41 CV written on. Good HP starts program without problem with first question (How many angles? Of course I am saying then 360°). Bad HP indicates before coming to that step NO ROOM.

We can also cummunicate with seperate own e-mail number, but as you said, maybe the dicussion can also be helpful to others. I don't mind. E-mail adress will of course be company number of TLT.

By the way, we have good contacts to Ventiladores Bernauer in Sao Paulo, tecnologia do ar e meio ambiente.

Muito obrigo, ate logo.

Re: HP 41 CV (STO) ....The mistery goes on
*Message #12 Posted by **Vieira, Luiz C. (Brazil)** on 31 Jan 2003, 2:39 p.m.,*
in response to message #11 by Bauscher;TLT

Hello, Bauscher;

well, definitely your HP41CV has only 64 registers, being the last one used by the permanent .END. I cannot understand it in any other way except for a bad RAM. This is easily understandable in a fullnut type, but that's the first time I "see" it in a halfnut.

The only reasonable way out (without opening the calculator) is to use one extra Memory Module or a Quad Memory module, but you should try first to see what happens. If the program uses less than 127 registers, one single 82106A will do the job.

About the X-Functions and the X-Memory, there are many, many other resources available so you can use these features, but you should get a bit acquainted with the "philosophy" surrounding the X-functionality. If you want to we can go any further, but chances are these modules will not be of much help if you do not change the original program so it can access X-memory to store and retrieve data instead of using conventional memory. Both X-Functions and the extra X-Memory allow you to use up to 360 data registers, but you would need to create a data file and use SAVEX and GETX (instead of [STO] nn and [RCL] nn) to "sequentially" access stored data. And it is more likely that the Schenck programs do not provide this functionality.

Well, my friend, I did not give up yet, but I have no other reasonable suggestion that trying to see if an extra 82106A Memory Module (better if it's a Quad Module) is enough for your program to run. I have one 82106A with me and I'd gladly send you the module so you can test to see if it is enough for what you need, but I believe you'll find this type of module closer to where you are. Please, let me know if you need it or not. If you test and it works, you will be sure your HP41CV behaves as an HP41C (perhaps Doc. Mike, as a psychiatrist, would accept the case... Kidding, Doc, kidding...) and the memory module can be used.

Sorry, I'd like to see a better closing for this case.

Mach's Gut.

Luiz C. Vieira

Re: HP 41 CV (STO) ....The mistery goes on
*Message #13 Posted by **Bauscher;TLT (from home)** on 1 Feb 2003, 3:01 p.m.,*
in response to message #12 by Vieira, Luiz C. (Brazil)

Thank you Luiz,

do you think, that another module will help? I am not quite sure now. Just keep in mind:

- good HP is working with Schenck module and without any other module.

- bad HP not, even with one X MEMORY and one X FUNCTIONS module.

Can it be, that it is not a memory fault? Both calculators accept STO and RCL 63 and answer to RCL 64 NONEXISTENT.

Thank you very much for offer, I think that another module will not help.

What is a Quad module?

Thank you, Regards Bauscher

Re: HP 41 CV (STO) ....NO ROOM message is the key
*Message #14 Posted by **Vieira, Luiz C. (Brazil)** on 1 Feb 2003, 4:23 p.m.,*
in response to message #13 by Bauscher;TLT (from home)

Hallo, Bauscher;

I read your posts again and I failled in a very important point: you mentioned in previous post that NO ROOM message appears when running the Schenck program in one of the calculators (how could I miss it???). Well, NO ROOM message only appears when you try to access extended memory and there is no room to store data, say, when you try to access more extended memory than you have.

I believe you need both X-Functions and X-Memory to run the Schenck program in any HP41CV (or simply the X-Memory in an HP41CX) because the only way to generate NO ROOM message (unless it's written by the program itself) is by trying to access unavailable X-memory. Please, plug the X-Functions and the X-Memory in each calculator (if you have a pair of each, even better) plus the Schenck module, and do the following:

```
 1 - execute a MEMORY LOST with [ON] [<-];
2 - press [XEQ][ALPHA] SIZE [ALPHA] 200 (or any number grater than 64)
```

Was it successfull in both of them? I mean, did any of the calculators not accept the SIZE definition you choose? If both accept, chances are they will run your program alright.

Please, let us know if anything changed.

Best regards.

Re: HP 41 CV (STO) ....NO ROOM message is the key
*Message #15 Posted by **Bauscher;TLT** on 3 Feb 2003, 2:28 a.m.,*
in response to message #14 by Vieira, Luiz C. (Brazil)

Dear Luiz, thank you for your mail 1 FEB 2003, 4:23 p.m. Pls. see my mail 1 Feb 2003, 3.01 p.m.

I have only 1 X MEMORY and 1 X FUNCTIONS. Even if I had a pair, I cannot plug a pair AND the Schenck, because there are only 4 ports.

Pls. see my above mentioned mail. Good HP runs ONLY with Schenck module, not any other module required. Bad HP runs NOT, even with or without X MEMORY AND X FUNCTIONS. I have not tried good HP with modules. I do not want to take any risk with the working one.

With X MEMORY and X FUNCTIONS plugged in bad HP, SIZE 063 is the maximum I can achieve (than RCL 00 - 62 is

possible). When I am trying SIZE 064 display shows TRY AGAIN.

I can not do SIZE 200. This will lead to TRY AGAIN.

I will not play around with the working one. I only looked at the RCL. RCL 62 possible, RCL 063 show NONEXISTENT. That means, that all both behave same, only that bad HP is showing NO ROOM.

I am sitting here in second floor, maybe when I open the window and.....

Thanks again. Regards Bauscher

I have tried what yiu said (Create MEMORY LOST and XEQ ALPHA SIZE 200 ALPHA) witout modules with the 2 and with the 3.

All the same TRY AGAIN. only difference, that together with the SCHENCK the HP switches automatically to USER mode. In this I can of course not do XEQ.....

Re: HP 41 CV (STO) ....NO ROOM message is the key
*Message #16 Posted by **Vieira, Luiz C. (Brazil)** on 3 Feb 2003, 9:36 a.m.,*
in response to message #15 by Bauscher;TLT

Hallo, Bauscher;

Well, I'd like not to be so far, because I'd be waiting for a flying HP41 hight below your window... ;-)

Anyway, I was reading your posts again and it seems that the Schenck module alradey has the extended functions set built on it. In Jan. 31, 12:39PM you wrote:

"*When I do CAT 2 it starts like CSD-CAB41/1.....SIZE?....PSIZE....RCLFLAG.....STOFLAG....and so on.*

I'd like to have a look at the user's "handbuch", at least the specifications for this module and the memory requested to make the programs run. I have in mind that it is a complete X-Functions with an extra program listing. In this case, you could try a single procedure for now:

```
- take the bad HP41 and keep yourself as far as possible from the window or keep it
closed... :-)
- connect the Schenck module on it
- proceed with a [MEMORY LOST ] wit [ON] and [<-}
- press [XEQ] [ALPHA] SIZE [ALPHA] 063
- execute the progra
```

You mentioned a couple of things I'd like to understand, but I believe if I have a look at the module's "handbuck" I'm gonna find the answers. For now I'd like to know:

• What are the starting procedures for using the Module's resources?
• Does the calculator go into USER module at the moment you plug the module in and turn it to ON?
• Have you noticed if the calcualtor automatically start running a program?

• Do you have to [XEQ] anything before using the module's resources?

There is an Autostart and Duplication module for the HP41, so there is a way to force the calculator to run an specific program at the moment it is switched to ON. Also, as the program is running, the X-Functions allow an on-line keyboard scanning, so the program does not need to stop for data input, if this is the case.

Two notes by my own:

• When I mentioned the posibillity of having a pair of each X-Functions and X-Memory modules, I meant one of each in each calculator, not all four in one. The ROM modules must never be used with "replicas" in the same calculator because of logical conflict. They have resources with the same logical address and there would be problems if both resources are availble in two different addresses. In other hand, you can plug two X-Memory modules in one HP41CX or an HP41C/CV with an X-Functions, provided they are both in one even- and another odd-numbered port at the same time, say, they must never be in the same "column", related to the ports position.
• The USER mode may be canceled by pressing [USER] key again; I do not know if it is possible with unconventional resources, but if you cannot withc off the USER mode wihile the calculator is using the Schenck module, so we have not only a rare module (in fact, it is the sort of module that may only be usefull for the realted Schenck equipment) but a module with resources to fully customize the HP41.

Well, Bauscher, if it is not asking too much, is it possible to scan the module's manual and let me have a lok at it? Maybe most of the answers for these questions are already there.

Once again, I wrote too much. I'd like to invite others to participate and post in here, there is something I'm probably missing.

Mach's gut!

Luiz C. Vieira

Re: HP 41 CV (STO) ....NO ROOM message is the key
*Message #17 Posted by **Bauscher;TLT** on 3 Feb 2003, 1:54 p.m.,*
in response to message #16 by Vieira, Luiz C. (Brazil)

Dear Luiz, thank you for answering. First i have closed the window. It is anyway better, because we have winter time here.

To work with the SCHENCK-program is very easy. You plug the module in and switch the calculator on. The calculator goes automatically in USER mode. Then the calculator is waiting for the further steps. The program does not start automatically. The module can do lots of different programs (maybe 10). Automatically the keys will be assigned to special devices, they will not initiate the old meaning. (For example: the key square root will lead to german dialog, the key LOG will lead to english dialog, the key LN will lead to french dialog and so on.). Together with the module it was coming a mask, which I can lay over all the keys, so that I can see what will happen, when I press them.

Tomorrow I am trying to scan you some pages of the manual and of this mask, but you will not find much information about the internal module design. 95 % of context is what programs are in, and how to start.

Further it goes. Module in, calculator started, I pressed Square root (for german language), X><y (for single plain balancing). That's all. Then the program begins to ask me first question. I put in the answer and the calculator is continuing after I pressed R/S. Then second question and so on, until the results are there.

To aour questions: - What are the starting.... Only switch on and press the key for the program you want to execute.

- Does the....USER... Yes.

- Have you..... No, it will not start by its own. I must press a certain key (acc. to the program I want to do).

- Do you .....No. no XEQ required. When I press XEQ the calculator does things which are according to the newly assigned key (in this case POLAR cordinates of the result).

After switching off USER modus, I can calculate normally, even with Schenck module still in the calculator. All keys are assigned to what they shoud be. Some flags are still set, but I put them back by pressing CF 00 and CF 02. (Other flags are also changed, e.g. the dot in decimal digits, american and german writing as 1.234,4 or 1,234.4 some flags 27 28 29 or so, I have to look up, but that is not important here.)

I tried to print out what is behind the Schenck module. The following happened: When the printer was connected, after pressing CAT 2 only all normal HP devices in alphameric order were shown. The contens is only shown with printer off. I must stop each step by pressing R/S.

Schenck is running in good HP without other modules.

Now I have tried what you have said (window still closed!!) 1. Schenck plugged in. 2. MEMORY LOST 3. XEQ SIZE 063 Answer: TRY AGAIN !!! (Pls. notice, that before step 3 I had to go out of the USER modus, otherwise the program started some calculation acc. to the assigned key).

Very sorry, program not running (still window closed).

I would like, if others could join, maybe there is some engineer, who also is using this CAB 41 (Schenck's name for the module.)

Thanks, Regards Bauscher

Re: HP 41 CV (STO) ....NO ROOM message is the key
*Message #18 Posted by **Bauscher;TLT** on 3 Feb 2003, 2:07 p.m.,*
in response to message #17 by Bauscher;TLT

Dear Luiz, sorry, one mistake, third paragraph from the end: Now I have tried .....In USER modus it is showing NONEXISTANT, when I press XEQ, program of course is not running.

Now I will open the window (maybe).

Regards Bauscher

How does the USER mode activates automatically?
*Message #19 Posted by **Vieira, Luiz C. (Brazil)** on 3 Feb 2003, 2:21 p.m.,*
in response to message #17 by Bauscher;TLT

Hi;

this is the biggest interrogation point that foolows me everywhere I go (If I'm Felix, the cat, I've already found something to do with it...). How come? If the module has a sort of engine able to activate USER mode at the moment you switch the calcualtor ON, what other settings does it alter? That's what I want to find answers about in the module's "handbuch" (I wrote this wrod the wrong way in my previous post... Entschuldigen Sie, bitte! It's too polyte, rechts?)

The other doubt goes for the SIZE requst denying. Assignmets for global labels are stored in the labels themselves, but function assignments are stored in convetional memory ("uncommitted registers" in the newer HP41 literature). So, if the Schenck module also assigns functions to keys, some registers will not be available. Would you, please, try (sorry if I am using this sort of "what...if" technique) a sequence of SIZE nnn starting with 062 and lower the nnn value (061, 060, 059) till you find the one that fits in actual available memory? Maybe you'll find a reasonable amount of memory that the program will accept.

Another thing: as the module is inserted (only the Schenck module) and the calculator in ON, would you please try a simple command?

```
set USER mode mode OFF
[XEQ] [ALPHA] EMDIR [ALPHA]
```

then you tell me what happens and if there are no error messages, tell me what value remains in teh X-Regiater.

The last hint is to contact Schenck's support and ask for possible problems.

Sorry, I'd like very much to "see" it working.

Mach's gut!

Luiz Claudio Vieira

Re: Alteration
*Message #20 Posted by **Bauscher;TLT** on 4 Feb 2003, 9:07 a.m.,*
in response to message #19 by Vieira, Luiz C. (Brazil)

Dear Luiz,

of course I apologize, but the english right is coming from allright, that means: everything ok? Right is correctly translated into the german 'rechts', but that means the opposite of left. rechts = direito (nao esquerda). You could not use it the way you used it.

I have witnessed the following alterations after the balancing program is finished: flag no 00 set. flag no 02 set. digits after the dot: 2 (as shift fix 2). flag 28 cleared (answer to shift FS? 28 will be NO). flag 29 set (answer to

shift FS? 29 will be YES). This lead to the display: 999999999.11 instead od 999.999.999,11 (as we Germans write).

If I take the good HP only from 064 and greater the display show TRY AGAIN (shortly PACKING appears). If I take the bad HP TRY AGAIN is coming with 063. (good HP is accepting SIZE 000 - 064 without complaining, bad HP only 000 - 063.) Status: good HP: USER off, Schenck plugged in, bad HP: USER off, X MEMORY and X FUNCTIONS plugged in.

When I do XEQ ALPHA EMDIR ALPHA the result is (display): good HP: NONEXISTANT; bad HP: DIR EMPTY. Status as above. What is the X-Register?

I think, that Schenck will bring no help. The equipment is 15 - 20 years old. Noone will remember. Because they are pretty large (we buy lot of equipment from them), they will say: Why don't you buy a CD for your notebook with advanced program and more possibilities?

Ate logo, vamos tomar caipirinha! Regards Bauscher

Re: HP 41 CV (STO) 2nd
*Message #21 Posted by **Vieira, Luiz C. (Brazil)** on 29 Jan 2003, 2:17 p.m.,*
in response to message #1 by Bauscher; TLT (Germany)

Hi;

you started a new thread in here, but I posted an answer in your first thread; I just want to know if you read it.

Anything new?

Cheers.

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soft key 41cv
*Message #1 Posted by **Steve (KY USA)** on 29 Jan 2003, 12:25 p.m.*

I have a soft "4" key on my 41cv is anyone aware of any remedy, it does not click crisply like the others.

Thanks Steve

Re: soft key 41cv
*Message #2 Posted by **David Smith** on 29 Jan 2003, 1:33 p.m.,*
in response to message #1 by Steve (KY USA)

Sorry, there is no cure for a soft key on these machines that is not worse than the disease itself.

Re: soft key 41cv
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 29 Jan 2003, 2:29 p.m.,*
in response to message #1 by Steve (KY USA)

HI;

I have an HP55 with a "soft-to-touch" reaction, like you described. But I opened the calcualtor and saw a small crack in the upper part of the keyboard's contact, a bended metal sheet. It lost the preassure because of this, and the only way to fix it is to remove and sold another. If it finally breaks sometime, I'll do that.

In the HP41's keyboard there are small caps, like part of a sphere surface. If these caps also have cracks, they will be soft for touch as well. In this case, the replacement is not hard, provided you find a "donator".

AND the other possibility is the rubber sheet over the keyboard. The point-of-touch of each key is a small bar in the HP41's keys, and if the rubber tears off at the touching surface, the rubber will hold the key and soften the "key feeling". It is a lot common in Voyagers (HP10c, 11C..., 16C).

But you did not mention if the key response to touch fails or not. Is it working fine? No bad or repeating contacts?

Hope this helps.

Success.

Re: soft key 41cv
*Message #4 Posted by **Steve (KY USA)** on 29 Jan 2003, 8:31 p.m.,*
in response to message #3 by Vieira, Luiz C. (Brazil)

The key works fine just feels really bad, I guess I will leave well enough alone

Thanks for all of the advice Steve

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HP 41 CV storage (STO) problem
*Message #1 Posted by **Bauscher; TLT (Germany)** on 29 Jan 2003, 10:43 a.m.*

Only 63 (Registered) storage places are accessible (as it is for a HP 41 C). XEQ P A C K and/or XEQ S I Z E will bring no help.

RCL > 63 indicates NONEXISTANT in display.

shift CATALOG 1 is indicating no program stored.

Any hint? Thank you.

Bauscher

Re: HP 41 CV storage (STO) problem
*Message #2 Posted by **Flipperqueen** on 29 Jan 2003, 12:04 p.m.,*
in response to message #1 by Bauscher; TLT (Germany)

I can help you. Please contact me under 019...

Quatsch beiseite: crutschmöh

Re: HP 41 CV storage (STO) problem
*Message #3 Posted by **gene** on 29 Jan 2003, 12:08 p.m.,*
in response to message #1 by Bauscher; TLT (Germany)

Do a master clear, just to make sure. Turn off, hold <- and turn on.

Then try it. Just because no program is shown in CAT 1 doesn't mean memory isn't being used or corrupted.

Gene

Re: HP 41 CV storage (STO) problem
*Message #4 Posted by **Vieira, Luiz C. (Brazil)** on 29 Jan 2003, 12:45 p.m.,*
in response to message #1 by Bauscher; TLT (Germany)

HI;

I wrote these words based on the symptoms you described, O.K.?

This is not such a weird thing, but depends on what type of calculator you have. Did you buy it recently or it suddenly started with this behavior?

There two types of 41's, and they are recognized by the LCD's window. Have a look at yours and check for their corners: are they clear, sharp 90º edges? If so, yours is a so called fullnut, an earlier design, and this type has a mainboard inside it with all chips and electronics components built on it. In other hand, if the LCD has an extra thin black frame with rounded edges, then you have a halfnut type. This type has newer design and uses SMT (Surface Mounting Technology) components. There is one PQPF (Plastic Quad Package - Flat) CPU built in the keyboard and the other chips are built in the LCD assembly (RAM, ROM and Display Driver - one could call it an R2D2, but this is the designation given to the Voyagers' CPU).

If you bought it from someone else, you may have an HP41C (fullnut type, earlier) mainboard built inside an HP41CV case, a sheep in a wolf's suit.

There is also a possibility of RAM failure, but I'd need you do do some tests, if you want to. Anyway, based on what you wrote, this possibility is almost discarded. Let me know if you want to try some harmless SIZE, STO and PRGM keyboard sequences to see what's happening.

Hope this helps.

Luiz C. Vieira - Brazil

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Is the 48GX discontinued ?
*Message #1 Posted by **Bob** on 29 Jan 2003, 8:23 a.m.*

I was trying to locate a replacement cable for my 48gx-PC transfer this week. While checking around for them, (most are sold out), several websites and retailers for the 48gx have told me that their distributors have said that the 48gx has been discontinued. Is this true ?

I called HP directly, and spoke to maybe 5 people there. Of course, I was told that they have no idea why these folks are saying that when there has been no notice sent out and that they still are stocking and selling the unit. However, the parts deparment told me that the connectivity cable/kit was now classified as an obsolete part. (?)

If someone could shed some light on this, it would help.

Re: Is the 48GX discontinued ?
*Message #2 Posted by **Laurence Carr** on 29 Jan 2003, 9:45 a.m.,*
in response to message #1 by Bob

Hi

We (Classic Calculators Ltd in the United Kingdom) still stock the HP 48GX, our master distributor has stock and has more deliveries arriving over the next few weeks. As far as I know its NOT obsolete and will continue to be available for some time. We dont have stock of the PC cable, we have some on order which should arrive in about 10 days. Our master distributor quoted a part number of MCF 1897A for these (which may be a new part number).

Laurence Carr

Re: Is the 48GX discontinued ?
*Message #3 Posted by **Dave Shaffer** on 29 Jan 2003, 1:02 p.m.,*
in response to message #1 by Bob

I can get you half a dozen of these calculators at the local Frys (for $150 each). I don't know about the cable there, but I doubt it.

Re: Is the 48GX discontinued ?
*Message #4 Posted by **Daniel Kekez** on 29 Jan 2003, 6:01 p.m.,*
in response to message #3 by Dave Shaffer

I, too, have been looking for an HP48 link cable, and HP parts (in Canada) told me that they are no longer available. I suspect that it is no longer being manufactured and only the remaining stock is available.

Re: Is the 48GX discontinued ?
*Message #5 Posted by **Bob** on 29 Jan 2003, 9:50 p.m.,*
in response to message #4 by Daniel Kekez

I was told by several that they are on order and that they expect them to be in in a week or so. They confirmed that they are definitely still making them, but I am not sure they are "HP" made. Some of them say "open-source",which I took to mean the design can be made and sold by anyone that can turn a profit. Some of them are HP Connectivity kits. I found several still out there if you look hard enough.

Re: Is the 48GX discontinued ?
*Message #6 Posted by **Dave Huff** on 30 Jan 2003, 1:53 a.m.,*
in response to message #5 by Bob

You guys are probably still in luck for the 48GX download cable. The 48 is a favorite of Surveyors, and Hayes in TN (www.hayesinstrument.com) has them listed at $23.25 each if you order them over the net. Browse under "data collectors" and then "data collector cables" on their site. Take the link, give them a call.

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HP 35 Battery pack
*Message #1 Posted by **Jan (Switzerland)** on 29 Jan 2003, 7:47 a.m.*

I have got a HP35. It is in mint condition, in its beautiful leather case. The only problem is the battery pack. Is there a source for the cadmium battery pack with the its encased metal contacts?

Thanks for yor advise

Jan

Re: HP 35 Battery pack
*Message #2 Posted by **Jürgen (CH)** on 29 Jan 2003, 9:01 a.m.,*
in response to message #1 by Jan (Switzerland)

Hi Jan,

if you still have the dead battery pack, you can revive it with new cells. Contact me if you need help.

Regards, Jürgen

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My calculator
*Message #1 Posted by **Milan Atanasovic** on 29 Jan 2003, 5:47 a.m.*

I bought an HP calculator 10 years ago and it still works but recently some unusual colours appeared on the display -like the rainbow.Can someone explain what can I do about it?

Re: My calculator
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 29 Jan 2003, 7:21 a.m.,*
in response to message #1 by Milan Atanasovic

Hi;

I guess it's an HP48S or SX; did I get it?

If so, chances are it's an aging process. I have an HP48SX and I bought it as soon as it was available (1990 - Serial # 3042A02xxx). It's LCD has a few small spots, and I believe it's an unreversible process. In my case, it seems a sort of a chemical reaction (oxidation, perhaps?) surrounding the right-shift annunciator. It's slowly advancing over the dot-matrix, but seems to be in a resting time... it's unchanged for about a month.

Yours seems to be a change in the reflected color (light). Seems to be harmless, I guess.

Sorry not helping that much. <:-(

Cheers.

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Repair for HP 41CX
*Message #1 Posted by **Linda** on 28 Jan 2003, 7:54 p.m.*

Hi, can anyone tell me where I can get repairs on my HP 41CX. Needs professional care. Thanks

Re: Repair for HP 41CX
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 29 Jan 2003, 2:37 p.m.,*
in response to message #1 by Linda

Hi;

If you need HP repairs, unfortunatelly they no longer support this model. Otherwise, depending on what is happening with your calculator, chances are it can be repaired by some guys in here (me included, just in case...). As you have an hP41CX, it depends much on the model type, either.

Would you briefly describe the problem? Also, please, have a look at the display (LCD) and check if it has sharp, clear, 90º corners or if it has a thin black frame with rounded edges. This will help us to identify if your calculator may be or not repaired, depending on the problem.

Best regards and success!

Luiz C. Vieira - Brazil

Re: Repair for HP 41CX
*Message #3 Posted by **Pyerre** on 29 Jan 2003, 5:00 p.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

Someone gave me a dead one, but this is a HP-41C model instead. I can't get it to work.

- It just switched ON and then shuts down immediately (batteries brand new & connectors very cleaned).

- Which are the differences between the models with the 90o corners (LCD display) and those with the round ones ?

Mine (s/n 2015A01973) with the square corner LCD display.

Many thanks, Pyerre

Re: Repair for HP 41CX
*Message #4 Posted by **David Smith** on 29 Jan 2003, 8:38 p.m.,*
in response to message #3 by Pyerre

The older (square cornered) module (the fullnut) has a removeable CPU card and display module. They are much more repairable than the newew models (but less reliable, becuase they have more internal parts and conenctions to go wrong).

Re: Repair for HP 41CX
*Message #5 Posted by **Vieira, Luiz C. (Brazil)** on 29 Jan 2003, 8:45 p.m.,*
in response to message #3 by Pyerre

Hello, Pyerre;

There two types of 41's, and they are recognized by the LCD's window. Have a look at yours and check for their corners: are they clear, sharp 90º edges? If so, yours is a so called fullnut, an earlier design, and this type has a "secondary" board (in fact, the mainboard) inside it with all chips and electronics components built on it, except for the LCD's drivers, that are built in the LCD's assy.

If the LCD has an extra thin black frame (internal) with rounded edges, then you have a halfnut type. This type has newer design and uses SMT (Surface Mounting Technology) components. There is one PQPF (Plastic Quad Package - Flat) CPU built in the keyboard and the other chips are built in the LCD assembly (RAM, ROM and Display Driver - one could call it an R2D2, but this is the designation given to the Voyagers'

CPU).

The halfnuts are harder to repair, but they tend to be more reliable (some users do not like their key-"feeling"), and I tell you that I have one HP41CX and one HP41CV halfnut (newer design) and one HP41CV fullnut (earlier design). The fullnut has some problems regarding bad contact between the mainboard and the keyboard, one of the most symptomatic parts of the calculator. If this contacts are bad, the calculator fails often. I have opened many, many fullnuts, but I opened just a few halfnuts. Maybe others have different experiences. My both halfnuts were opened no more than 8 times, counting both of them. In all cases, there was a problem of bad contact between the BAT/IO assembly and the mainboard. Just cleaning. But the fullnuts have three contact sets to be periodically checked, and two of them are under the mainboard.

I think that's all. If you believe you need to, there is no big deal opening the HP41 fullnut. Check the LCD's corners and let us know.

Success!

Luiz C. Vieira

Re: Repair for HP 41CX
*Message #6 Posted by **Pyerre** on 30 Jan 2003, 1:17 a.m.,*
in response to message #3 by Pyerre

Many thanks for the informations. This HP-41C has the clear, sharp 90º edges LCD display (like this : http://www.hpmuseum.org/41cv.jpg)... So called the fullnut one.

Never opened one before, I'll try to do it per instructions & hope to wake it up again. Scaring huh!

Many thanks once again, Pyerre

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HP 42s vs. 48gx/49g/TI83+
*Message #1 Posted by **Joe** on 28 Jan 2003, 6:10 p.m.*

Hey there, I love this site and hope, with the knowledge floating around here you guys can assist me. I own a HP42s, which I purchased several years ago while in college (the first time). I'm back in school working on a bach. of arts in mathematics so that I can teach high school; alg to calc. My dilemma is as follows: I need to know which calc is best for a math degree: the 42s, 48gx, 49g or the TI83+. The TI is my last choice, but it is the calc. I was required to have for my current alg. class. If I have a choice, I would stick with an RPN calc. Do the 48gx or 49g have any advantage over the 42s other than screen size? It seems the 42s is going for 150 - 200 dollars on ebay right now, so replacing it won't necessarily cost me any more cash. What are your opinions of these calc. for a student majoring in mathematics.

Thanks.

Joe

Re: HP 42s vs. 48gx/49g/TI83+
*Message #2 Posted by **George** on 28 Jan 2003, 11:39 p.m.,*
in response to message #1 by Joe

If you determine that the 48gx is the way to go, let me know if you want to trade the 42s for a 48gx. If it's nice enough, I'll kick in some cash.

Re: HP 42s vs. 48gx/49g/TI83+

*Message #3 Posted by **Daniel Kekez** on 29 Jan 2003, 2:04 a.m.,*
in response to message #1 by Joe

Hi Joe,

From my experience at the University of Toronto, my calculator does not get much use in math courses. The examinations test my ability to understand and solve complex math with simple numbers; i.e. the professors will tell us if we need a calculator, we're doing the problem wrong.

Some courses stress the understanding of numerical methods and approximations. In which case, you'll probably want something that you can program do to things like Riemann sums. I've never done this with a 42S (although I think it can be done), but it can be done with both the HP-48/49 and the TI. I've done it myself with a TI-86.

Graphing functions, parametric equations, and slope fields can help in the understanding of some math problems. So having a graphing calculator that can do this either directly or with a program could be important for you. (You need a program to do slope-fields with an 83; it's built-in on the HPs.) This is the advantage over your 42S. But, unless you're allowed your graphing calc on examinations, you can probably rely on computer programs for graphing these problems when you need it.

Basically, the TI-83 is aimed at the high school crowd. Some high school textbooks in Ontario go as far as including lots of TI-specific examples. So if you will be teaching math for those grades, you will probably encounter the 83. If you decide you must buy TI, at least buy an 86 because it does a great deal more than the 83. For comparison, the TI-89 is on a similar level with the HP48/49.

Unless your courses stress numerical methods in tests and the professor expects you to having a graphing calculator in the examination, I would stick with what you have.

I'm an engineering student. So I rely on my RPN calc (32SII) for lots of fast number crunching on assignments, tests, and exams. I also have TI-86 and an HP48GX; I like them both, but the HP32SII is my companion that comes with my every day in my shirt pocket.

I hope this is helpful for you.

Thanks.

Re: HP 42s vs. 48gx/49g/TI83+
*Message #4 Posted by **Christof** on 29 Jan 2003, 4:00 a.m.,*
in response to message #3 by Daniel Kekez

you can do graphing on the 42S- though you may want that 32K upgrade first :)

Personally I haven't gotten much out of the graphing end- I seem to just use mathematica or SAS when I get to that point.

The 48 is kinda cool for some of the other physical sciences things, though I end up with the 42S being *there* at all times and thus much more often used. (to the point of having phone numbers stored in it)

For teaching- you'll have to be familiar with the TI, most likely. I don't think there are any RPN graphing calcs out there anymore except the 48.

(the 83 can be programmed to do most anything you'll need. The 89 has a lot more power, though.)

The only problem with your 42 is that it is quite nearly irreplaceable if you smash it at this point, while 48G machines (32k ram, no expansion) are floating around for $40 and $50

(one oddity is that I have quite openly used the 42S on "no-programmables" tests with instructor approval due to a refusal to accept that a shirt pocket calc could *really* be programmable.)

Re: HP 42s vs. 48gx/49g/TI83+
*Message #5 Posted by **lokhin** on 29 Jan 2003, 7:14 a.m.,*
in response to message #4 by Christof

graphing can be done om hp 42s? how is it done?

Re: HP 42s vs. 48gx/49g/TI83+
*Message #6 Posted by **Vieira, Luiz C. (Brazil)** on 29 Jan 2003, 7:30 a.m.,*
in response to message #5 by lokhin

Hi;

the fact is that the HP42S' LCD is dot matrix type, and there are functions (commands) like AGRAPH and PIXEL (that allows the control over each dot in a roll (X) and column (Y) mapping). Than, with a few programs (listed in the HP42S User's Manual) you can plot curves in its LCD. Not a big resolution (half the HP28S LCD) but it is a graphics display and a graphics calculator.

Hope this answers your question.

Cheers.

Re: HP 42s vs. 48gx/49g/TI83+
*Message #7 Posted by **Vieira, Luiz C. (Brazil)** on 29 Jan 2003, 7:47 a.m.,*
in response to message #1 by Joe

Hi, Joe;

I hope you have success in your return to school.

As for your needs, the two HP48G and the HP49G have resources I believe will meet partially your needs. There is an Equation Library in the HP48G that will help with examples, and the HP49G has the Computer Algebra System - CAS - that is a handfull tool for symbolic algebra. Both 48 and 49 share many symbolic algebraic manipulation skills, but they differ in these particular subjects.

Of course there are programs for both that simulate the others' resources, but if you get the machine as is, these are the basic differences.

The HP49G has a major enhancement: flash ROM architecture (1MB flash as system memory, 1MB flash as user memory and 512KRAM user workbench memory), so you can upgrade the O. S. (for as long as the last one is available) and make resident your better programs and data. There are other subjects related to keyboard and cosntruction, but you are in the need of a math/ alg tool, right? For shorten: the 49G keyboard s_c_s! Get the picture?

Well, the HP42S has only a dot-matrix LCD and many number functions, including vectors, complex, matrix capabilities and numerical solve and integrate. I think this is not exactly what

you realy ned...

If you want to enhance with programs, let's put the HP42S language closer to an imperative, not structured, assembler-like, RPN-based programming and a lot easier to learn. Both HP48/49 share the RPL structured, FORTH-like (this is HP speaking, not me...), LISP intended language. If you are used to object-oriented programming and you understand multilevel stack concept, you'll see no difficulties on delving into 48/49 RPL.

Wow! I wrote too much.

Hope this does not confuses you more... I'd check 48G and 49G first.

Best regards.

Re: HP 42s vs. 48gx/49g/TI83+

*Message #8 Posted by **Ron Ross** on 29 Jan 2003, 10:58 a.m.,*

in response to message #1 by Joe

Well the 48Gx is the best available of your line up. The 49G is no longer READILY available. I like the 42s the best of all mentioned, but you did say you want to teach. Well the choice of the teaching crowd and HS market is the Ti-83. It is the one calculator you will need to know to show your students how to use as 90% or them will have this calculator. As I think the Ti-86 and 89 are MUCH better, I still say buy a Ti-83 to learn. It seems you already have the calc as it was required for your previous course.

That said a 48gx is what I use on my desk (units conversions, lots of third party programs, enter key where it should be, etc.) over all the others which I also have. I actually like my 42s best, but would not want to see it lost on my desk and therefore stays home. If you have no such loyalty to your 42s, take the offer of swapping your 42s for his 48GX. You can buy memory cards from Klotz in Germany and a cable and have the best calculator you can buy. A 128K and 2 Meg card make the 48Gx untouchable by anything else.

Re: HP 42s vs. 48gx/49g/TI83+
*Message #9 Posted by **Joe** on 29 Jan 2003, 11:57 p.m.,*
in response to message #1 by Joe

Thanks for all the great information guys (except for the one jerk who sent the rude email). I wish I could say your info was helful, but I am afraid that I am more confused than ever! :) Let me elaborate. I am 35 and spent the last 8 years in the army. Not too much need for the ole brain in the military. I could tell you some stories! Anyway, I have returned to school for a mathematics degree; a bach. of arts to be exact (with education too). I have good apptitude for math, BUT it has been 17 years since I dealt with alg, trig, calc much less diff. equations, etc (ack!). Heck, when I took trig in high school, we had to use tables; calculators weren't even a consideration. I was accused of being stupid (by the jerk mentioned above) since I didn't appreciate/understand the difference between the calculator models. It is easy to see the physical differences between the 42s and a graphic calculator; that's obvious. BUT, I don't really know what else is different about them. The 42s is a scientific calc. while the others mentioned are all graphing calculators. Could someone please explain to (stupid) me the difference between a scientific calc. and a graphic calc.; besides the obvious ability to graph a function. I am very fond of the 42s. Heck, it has been with me for a decade. So what can the hp49g/48gx go that the 42s cannot? It would seem that the 42s should be powerful enough to handle all my classes. If necessary, I can keep the TI around as a learning/teaching aid. I don't want to waste money on something I won't use but the RPN notation has had me hooked since I saw a 32s in '87. Thanks in advance for all the advice.

Joe

Re: HP 42s vs. 48gx/49g/TI83+
*Message #10 Posted by **Erik Ehrling (Sweden)** on 30 Jan 2003, 5:36 a.m.,*
in response to message #9 by Joe

Hi Joe,

One should never discuss taste, but the HP42S is considered the best calculator HP ever made (by a not insignificant part of the HP Community) so my recommendation would be to keep the HP42S, maybe buy a HP48GX in addition to it (but keep the 42S nonetheless!)

Best regards, Erik Ehrling

(Remove NO-SPAM from the email address before using it)

Re: HP 42s vs. 48gx/49g/TI83+
*Message #11 Posted by **Dave Shaffer** on 30 Jan 2003, 6:43 p.m.,*
in response to message #9 by Joe

Joe,

re "Could someone please explain to (stupid) me the difference between a scientific calc. and a graphic calc.; besides the obvious ability to graph a function."

You've just about hit it on the head. If you want/need pretty pictures, and are too lazy (or incompetent - reminds me of my physics students this week who couldn't graph the SIN or COS functions!) to make them yourself, then the graphics calculator might be better.

Otherwise, I'd echo the others who suggest sticking with your 42S. I'm a professional radio astronomer, who has done a lot of number crunching over the last 30 years, and I never felt particularly deprived because I had only my venerable 11C and 41CX to help me. If I needed more power, there were always computers.

If you have to show the students how to do it, though, you may want a TI backup. We were doing statistics in the lab this week, and I couldn't figure out the TI83s and 86s without the manual (which nobody had brought with them!). If you want to bring tears to a student's eyes, make them calculate the mean and standard deviation of 10 4-digit numbers (especially after they realize their first set of data isn't right), doing it from first principles - not using the STAT functions because neither they nor the instructor know how. The mean ain't so bad, but the standard deviation needs a lot of number entry!

Re: HP 42s vs. 48gx/49g/TI83+
*Message #12 Posted by **Fred Lusk** on 30 Jan 2003, 10:12 p.m.,*
in response to message #9 by Joe

Joe…

Regarding your question about the difference between scientific and graphing calculators…

As an HP-42S owner, you probably know that the main purpose of a scientific calculator is to handle scientific and engineering calculations (i.e. "number-crunching"). The original scientific calculator (HP-35) and some of its descendants were not programmable. Starting with the HP-65 and continuing to today, many if not most scientific calculators are programmable. Scientific calculators cannot draw graphs unless the user wants to calculate individual points and plot them on a piece of graph paper! The exception to the no graphing rule is the 42S which does have rudimentary (and slow) graphing capabilities with its two-

line, dot-matrix LCD display.

A graphing calculator is really just a robust scientific calculator with the additional ability to handle graphing and graphics. Thus, graphing calculators can be considered a subset of scientific calculators. It doesn't necessarily have to be this way, but I don't know of a graphing business calculator.

Now let's consider the main differences between the HP-42S vs the HP48GX (I happen to own a 42S and a 48G+, which is similar to the 48GX but without the expandability):

The HP-42S has approximately 600 built-in functions (math, statistics, programming, printing, etc.) and about 8k worth of memory for programs and data. Since you have one, you probably have a pretty good idea of what it can do. If you have specific questions about the capabilities of the 42S and can't find what you need in the Owner's Manual and/or Programming Examples and Techniques book (both pretty well written, in my opinion), please ask here…there's a lot of 42S users to consult.

The HP-48GX has something like 2000 (!) built-in functions and comes with a base memory of 128k. Ram cards can be plugged in to increase that to several megabytes. There are also preprogrammed ROM cards available on a variety of subjects. The 48GX can do pretty much everything a 42S can do, and a whole lot more. The 48GX is a much more complex, as you can imagine, but not so complex that you can't learn how to use it (though this machine is handicapped by a poor Owner's Manual). It is also has a faster processor than the 42S. From the standpoint of your original question, the biggest difference is that the 48GX has a large, multi-line screen and is specifically designed to draw graphs and handle graphics. It is pretty easy and quick to draw function graphs using the built-in menus. Graphing the results of a program is more difficult.

As far as usability, I consider the HP-42S the best scientific calculator ever made, though it is missing a couple of key items from the 41 series machines (the 42S was a semi-lateral move from the 41CV). The 42S is easier to use as a calculator, while the 48GX is really a transitional machine between calculator and computer. The 42S is the top-end evolution of the traditional HP keystroke programmable design and migrating from the HP-55 to the 34C to the 41CX to the 42S was an easy transition for me. The 48GX uses a different programming paradigm that is both more powerful and harder to learn. None of my old programs translate directly to the 48, and I haven't had the time or the inclination to rewrite them. Thus, I use the 42S most of the time, and I use my 48G+ for the specialty stuff the 42S can't do. When my 42S dies, I will probably have to retire!

The reality is that you probably need both machines. That would make you a collector!

Good luck in your new career. After 15 years as an engineer, my dad switched careers and

became a high school chemistry teacher. He bought a 35 while I was junior high school, and we have been hooked on them ever since.

Enough of this rambling…good night.

Fred

Re: HP 42s vs. 48gx/49g/TI83+
*Message #13 Posted by **lamewing** on 31 Jan 2003, 12:09 a.m.,*
in response to message #12 by Fred Lusk

Dave and Fred, Thank you both for the information. I only wish I were as verbose (but I believe my future students may just think I am long-winded!). You guys pretty much confirmed my ideas on the subject. To be truthful, I wasn't sure if there was any reason to keep the 42s after getting a 48 model, since (as you confirmed) it can do much, much more. Of course, the size of the 42s (and my previous 32s) has its advantages as well. Your point regarding graphing calcs is valid. I never had the luxury of using a calc in high school, much less a graphing calc. Even now, in my current Alg. course, which takes a HEAVY graphical approach to functions, I find the graphing calc. to be a mere luxury. Sure it is nice to be able to key in the function and have the machine draw the graph, but its almost eaisier for me to just memorize what the basic functions' graphs look like. Sure, it is nice, but is it really necessary. Perhaps keeping it as a backup (and keepsake) is a good idea. The TI calcs seem to be pretty much the way to go now days, especially since I will be using one in my future class. Well, unless HP gets off its butt and revives interest in RPN calcs! Out of curiosity, what do you guys think of the HP49g compared to a TI89?

Thanks.

Re: HP 42s vs. 48gx/49g/TI83+
*Message #14 Posted by **Ron Ross** on 31 Jan 2003, 8:50 a.m.,*
in response to message #13 by lamewing

No real need to elaborate here. It is a moot point as Hp has dropped the Hp49G.

There are serveral evaluations and many arguments. I will say this, "If you have to ask, buy a Ti.".

If you had a 48G, a 49G is a nice step up in features and meomory with an advanced CAS included. It is however a Frozen Hampster Butt Blue with a sub-standard keyboard with an enter key located in the WRONG Place. If you have never used an

Hp before, you would not notice the last two Major Drawbacks.

Re: Are the Crayola people paying attention?
*Message #15 Posted by **Paul Brogger** on 31 Jan 2003, 9:46 a.m.,*
in response to message #14 by Ron Ross

Now ***that*** is one descriptive color name!

Maybe we can expect a new crayon and/or M&M's color now that the word is out? {8^D

Re: HP 42s vs. 48gx/49g/TI83+
*Message #16 Posted by **Joe** on 31 Jan 2003, 3:26 p.m.,*
in response to message #14 by Ron Ross

Sadly, I have used a HP since 88 and I have gotten used to the quickness which I can enter data. The TI I am using now for school take so much effort, but it still does its job nicely. In addtion, I checked out the school bookstore today an found two hpg+ calcs for sale, at $169.00!!! Crazy talk!!! They let me play with it and I still prefer the feel of it to the TI, but I guess I will just break down, sell my TI-83 +, sell my 42s, and get a TI-89 and be done with it. Ebay here I come. Thanks for all the good advice. And, HP, if you are reading this, you are screwing over a good number of people by not paying attention to who bought your machines. It is too bad.

Re: HP 42s vs. 48gx/49g/TI83+
*Message #17 Posted by **HrastProgrammer** on 31 Jan 2003, 2:53 a.m.,*
in response to message #12 by Fred Lusk

Well, I will have to retire when all of my 3 HP-48GX (each with 128K + 2048K RAM cards) die.

Each of them contains the following:

(1) HP-41X: HP-41 emulator expanded with 16-chars LCD, 4096 data/program registers (28K RAM), plenty of modules (38 in total including CCD, XF/XM, Printer, HEPAX, PPC, Advantage, Math, Stat, Card Reader, Games, Machine, ...) and many additional features.

(2) HP-42X: HP-42 emulator with 96K RAM and 2 additional ports (31K + 32K) for

storing programs.

(3) HP-71X: HP-71 emulator with 129.5K RAM, MATH, Forth/Assembler and HP-41 Translator ROMs.

So, I practically have 4 calculators in one (HP-48GX + HP-41X + HP-42X + HP-71X) ... four worlds in one :-))) and I don't ever think to buy anything but a HP-48GX.

Re: HP 42s vs. 48gx/49g/TI83+
*Message #18 Posted by **Christof** on 31 Jan 2003, 3:16 p.m.,*
in response to message #12 by Fred Lusk

There have been graphing business calculators, though the "graphing" functions are more often relegated to things like histograms and pie charts. Not sure how far you take this. the 19Bii comes to mind, and the old large screen nav/sci/bus thing TI was involved with back when.

I don't think the 42S is really much less powerful than the 48G outside of graphics handling, progamming language objects, and text/string objects.

If you upgrade to 32K RAM for the 42S, you can program nearly anything you want done into it that it doesn't do already. The 42S is quite fully programmable in a computer sense, not just "keyboard macros". If you want very limited equation based programmability, look at the 17Bii.

Re: HP 42s vs. 48gx/49g/TI83+
*Message #19 Posted by **Fred Lusk** on 1 Feb 2003, 6:26 p.m.,*
in response to message #18 by Christof

Christof…

Please don't misunderstand - I didn't intend to denigrate the programming capabilities of the 42S. I have written a nubmer of quite sophisiticated programs for it and earlier models (I even posted my feet-inches-fractions program for the 41 on this site a while back…those of you who only do metric should be very thankful indeed!). I have also written quite a few "keyboard macros" too.

It's just that 48 series has considerably more programming capabilities and, coupled with graphics, the ability to make better looking programs. All in all, the 48 is even more computer like than the 42S. For someone like me, who was trained on early

HP programmables, Fortran 77, and Basic, and has less and less time to write programs, the transition to the 48 style programming is more work than it's worth. I've written a few simple things for the 48, but nothing more.

Fred

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Wife/Spouse quotes...
*Message #1 Posted by **Andy** on 28 Jan 2003, 6:01 p.m.*

Hello everyone,

I recently came across a quote by Bill Wickes (PPC v8n5p4):

"My long-suffering wife decided that I was crazy, but harmless, as I would disappear "into" the 41C like some latter-day Alice going through her looking glass into a wonderful new world"

I've seen several others while reading through the PPC journals/rom manual and finally decided to start compiling them.

Please let me know if you have any favorites (include the quote and reference).

Andy

Re: Wife/Spouse quotes...
*Message #2 Posted by **db(martinez,california)** on 28 Jan 2003, 9:34 p.m.,*
in response to message #1 by Andy

my x once said, while brow beating me, that i collect calculators like i used to collect girls. (these are bad things?). i replied that with calculators; at least i keep the good ones.

my present sweetie, who has been a friend for over 13 years, once said "you're crazy for calculators". i answered "and i'm coo coo for coco puffs coo coo for coco puffs too". she just gave me one of those "i know this makes sense to you" looks.

in the 80's i gave a girlfriend a 12c. she used it a lot and learned to program it well. linda called it her "mr. calculator" because she was the only woman in the company who had one. the company gave one to all the men.

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HPIL 82973 CARD and Pentium PC
*Message #1 Posted by **Fabio Albonico** on 28 Jan 2003, 4:11 p.m.*

Dear Sirs,

I own an HP41CX, HP-71B and 48SX and GX. I'm looking for software to connect HP41 and 71B with HPIL and HP 82973 PC Card using actual Pentium computer. I'm also looking for software for HP71B.

Can you help me?

Thanks in advance. Fabio Albonico 22100 COMO -ITALIA

Re: HPIL 82973 CARD and Pentium PC
*Message #2 Posted by **Christoph Klug** on 29 Jan 2003, 2:35 a.m.,*
in response to message #1 by Fabio Albonico

Dear Fabio,

take a look to the HP-Museum article forum : There is a new item "HP41-PC Gateway & Emulator". This describes the surprising features of the PC software emulator EMU41 from Jean-Francois Garnir which also includes full HP.IL support. EMU41 and your existing HP82973 HP-IL/PC Interface Card gives you an fantastic solution for advanced HP41 & PC applications.

Best wishes from Germany - Christoph

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Warning
*Message #1 Posted by **Matthias Wehrli** on 28 Jan 2003, 2:50 p.m.*

Warning for deals with Gerald Jenny (U.S.A). Last october he sent me a HP-41C, on my wish a Halfnut one. Instead of this he sold me a Fullnut, which is for me worthless. For over the last 3 month I tried to get back my money, but I didn't. A short mail "Money was sent two weeks ago" was all I got from him in this time. No I want to keep you out of troubles with this man.

I'm still looking for a HP-41C halfnut.. If you have one, you have a buyer!

Matthias

Re: Warning
*Message #2 Posted by **Scott Forbes** on 28 Jan 2003, 9:34 p.m.,*
in response to message #1 by Matthias Wehrli

Do you want to sell the Fullnut?

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ebay picture alert - 9 days to go
*Message #1 Posted by **A Friend** on 28 Jan 2003, 1:56 p.m.*

see:

http://cgi.ebay.co.uk/ws/eBayISAPI.dll?ViewItem&item=2909154145&category=324

No credit to this site for the picture or anything to say it's not the item for sale (although an experienced ebayer would spot it a mile off)

Something changed...
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 28 Jan 2003, 5:03 p.m.,*
in response to message #1 by A Friend

This is new:

On 28-Jan-03 at 21:20:48 GMT, seller added the following information:

The first picture used in this auction is from The Museum of HP Calculators.

at least! (or at last?)

Cut and pasted from my request
*Message #3 Posted by **Dave Hicks** on 28 Jan 2003, 5:05 p.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

Thanks to "A Friend" for spotting it.

Dave

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82240B IR Printer
*Message #1 Posted by **Gordon Dyer** on 28 Jan 2003, 1:38 p.m.*

Does anyone know the difference between a 82240A and 82240B IR printer?

Re: 82240B IR Printer
*Message #2 Posted by **Christof** on 28 Jan 2003, 1:44 p.m.,*
in response to message #1 by Gordon Dyer

the B has a few characters that the A model doesn't have. There's also a better power management system when running on batteries for the B.

In general usage, I don't notice much difference between the two. (except the missing characters)

Re: 82240B IR Printer
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 28 Jan 2003, 4:56 p.m.,*
in response to message #2 by Christof

Hi;

the B-version has two complete set of characters - ROMAN 8 and ECMA 94 - while the A-version has only the ROMAN 8 set. Because of this new set, the B-version is better suited for the new calculators, after teh HP28S (the HB48S/SX has a OLDPRT command that remaps the output to fit in the old A-version printer).

Also, there is an extra blank line between two consecutive lines in each ASCII printout from the B-version. ASCII listings taken from the A-version tend to have lines too close to each other (only one blak dot line), not too easy to read. This extra blank line is taken from the lower dots from each printed character; graphics remain the same.

My US$ 0.05

Cheers.

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Same model calculators manufactured in different countries
*Message #1 Posted by **Nick Nicholas** on 28 Jan 2003, 3:55 a.m.*

I've just noticed that changes to the HP calculators are made when manufacturing changes from one country to another. For example, I noticed that the buttons are no longer shining on the Indonesian versions of the HP 32sii. I have a HP 17bii manufactured in Singapore with the shining buttons but I don't know if the Indonesian version has been changed. Was this done for improvement purposes or to reduce cost? Also, the back rubber feet have been changed as well as the brown body. It is a darker brown and less shining.

What about the 19bii, 12c, 48gx, 20s and 10b? I think these calculators have changed the country of manufacture during the time they were in production.

Re: Same model calculators manufactured in different countries
*Message #2 Posted by **Randy Sloyer(US)** on 28 Jan 2003, 6:06 a.m.,*
in response to message #1 by Nick Nicholas

The reason the buttons on the 17Bii and 32Sii are no longer shiny is because they changed the design of the actual keytop to reduce costs. The original USA and Singapore manufactured units had "double-shot" keytops, where the white legend was a molded piece which was placed inside a second mold and the brown material was molded around it. Technically, this would have been a single mold, but the illustration is better with two separate molds. These means that the key legends can never be worn or scratched off, as the white is plastic embedded within the brown.

The newer machines have matte tops because the legends are printed with process known as sublimation. It's best to think of the ink as an acid based product which etches itself into the plastic. The matte finish is required to get the ink to bond better to the plastic. I don't think I need to explain what can happen to a printed keytop.

With the exception of the 19Bii (I don't have any to check), I know that all calcs you listed are currently using printed keytops. Most Pioneers and the 48 series have been made in the USA, Singapore and finally Indonesia. The 48 was moved to China along with the 12C, at which

point the Pioneer line ceased production. So, look for a USA or Singapore unit if you want double-shot keytops. The keyboards from the Indonesian units also have the nasty habit of sometimes clicking, that is one or more keys on some calculators will emit a loud, uncharacteristic click upon release. This is most annoying and must be a process or part variation introduced in the last few years of production.

Re: Same model calculators manufactured in different countries
*Message #3 Posted by **Nick Nicholas** on 28 Jan 2003, 1:31 p.m.,*
in response to message #2 by Randy Sloyer(US)

Thanks for the info. Do the Malaysian made 12c have the same button manufacturing technique as the Indonesian made models?

It is sad to see the Hewlett Packard brand destroyed first by reducing the build quality of their existing products then reducing the design quality of their new products. What distinguishes their products from competing generic products? I thought that was what brand recognition was all about.

12C
*Message #4 Posted by **Randy Sloyer** on 28 Jan 2003, 10:56 p.m.,*
in response to message #3 by Nick Nicholas

Malaysian units, yes, AFAIK. In general, the earlier the manufacturing date, the better the chance of a double-shot key unit. You can use this info to decode a serial number for comparison:

http://www.hpmuseum.org/collect.htm#numbers

As far as the quality issue is concerned, you point is valid, but I would still take a current production 12C or 48GX over anything made by any other calc mfg out there. They may not be what they were 10 years ago, but they still stand above the others. Just my 0.02 worth.

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question about Storage
*Message #1 Posted by **db(martinez,california)** on 27 Jan 2003, 10:41 p.m.*

i have put batteries in a 41 a couple of times after extended unpowered storage and i swear; it squeeked when it came on. is this my imagination? no dammage or anything strange was noted, just an understandable memory lost .

Re: question about Storage
*Message #2 Posted by **Michael Meyer** on 27 Jan 2003, 10:44 p.m.,*
in response to message #1 by db(martinez,california)

Did you check for mice?

Re: question about Storage
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 27 Jan 2003, 11:36 p.m.,*
in response to message #1 by db(martinez,california)

Hi;

I've heard in on mine, too (No mice, Doc.. no mice!), at lest twice, and it seems there is a drift in an oscilator. When it happened with my HP41CV, I rebuilt it after more than ten years spread appart inside a shoes' box, and it sqweeked, too. I turned it upside down and left to right and the tone changed (high-frequency with a low-frequency component). I remove and replaced the batteries: a quick tone, a [MEMORY LOST] and the life goes on...

Cheers.

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HP-97 capacitor
*Message #1 Posted by **Michel Beaulieu** on 27 Jan 2003, 9:37 p.m.*

David Smith suggest that i should change a blue capacitor on my HP-97 card reader. Where is locate this capacitor - is is the one soldered on the motor terminals - It's not blue but green?

Merci! Thanks

Re: HP-97 capacitor
*Message #2 Posted by **David Smith** on 28 Jan 2003, 2:27 p.m.,*
in response to message #1 by Michel Beaulieu

No, it's not the one on the motor. It is on the card reader circuit board. One end connects to ground an the other end to one of the power terminals on the 20 pin reader chip. I don't have a '97 reader handy to pinpoint it. It is not one of the pair of larger 22uF caps on the read head circuit.

I scan my card reader
*Message #3 Posted by **Michel Beaulieu** on 28 Jan 2003, 5:06 p.m.,*
in response to message #1 by Michel Beaulieu

Which parts is the capacitor i should change; the one tha looks like a resistor?

http://tihp.99er.net/custom.html

Thanks Michel

Re: I scan my card reader
*Message #4 Posted by **David Smith** on 28 Jan 2003, 7:01 p.m.,*
in response to message #3 by Michel Beaulieu

It looks like the picture is of a very early HP65 or HP67 reader, not the HP97 reader. The cap that normally goes bad on these machines is usually found where that resistor is along side the top end of the chip. (the resistor sets the motor speed, on later readers there is a pot that does this).

I think the cap that is causing problems is the silver one adjacent to the pins of the chip... but I have not seen one of that style go bad. The other two capacitors are in the head circuit. I think one end of each of them connects directly to each of the head windings. I recommend using tantalum electrolytics, although modern aluminum ones may be OK. (BTW, since the price of tantalum has gone wild lately, capacitor companies are now pushing niobium electrolytics)

My error... It's an HP-67 not a 97!
*Message #5 Posted by **Michel Beaulieu** on 28 Jan 2003, 9:10 p.m.,*
in response to message #4 by David Smith

Well... It's a 67, not a 97... sorry...

I tried something and now i can read 50% of tries but i was able to write only one time on A LOT lot of tries...

Re: My error... It's an HP-67 not a 97!
*Message #6 Posted by **David Smith** on 29 Jan 2003, 1:45 p.m.,*
in response to message #5 by Michel Beaulieu

It could be the adjustment on one or more of the reader switch contacts. These are the small gold leaf springs in the reader mechanism. They are activated by the card pressing on little nylon roller balls that then press the leaf springs against contacts on the back of the keyboard circuit board. There are very small screws on each spring contact that adjust the contacts. Setting them properly on an HP67 is a very tedious and touch process since you can't get to the adjustments while the reader is put together.

I adjust mine by tracing the switch contacts to the CPU board contacts and monitoring them there with an ohm meter. While insering a card, the three switches make contact in sequence. The three switches are the motor start, head enable, and write protect. If the head enable switch is wrong, you may not be able to read cards

and they won't write properly. If the write protect is wrong, attempts to write to any card will show error. If the motor never starts or always runs the motor switch is wrong. The switches may never be closing or stuck always closed. Sometimes they are real flakey. Also the adjustment of one switch can affect some of the others.

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HP12C for PocketPC
*Message #1 Posted by **Chris Randle (UK)** on 27 Jan 2003, 8:51 p.m.*

For those that might be interested, spotted this:

http://www.handango.com/PlatformProductDetail.jsp?siteId=311&productId=28741

Looks good. Haven't tried it.

Re: HP12C for PocketPC
*Message #2 Posted by **OJM** on 28 Jan 2003, 8:01 a.m.,*
in response to message #1 by Chris Randle (UK)

Looks like they also have a 15C emulator as well...

http://www.handango.com/PlatformProductDetail.jsp?siteId=311&productId=49174

Re: HP12C for PocketPC
*Message #3 Posted by **Chris Randle (UK)** on 28 Jan 2003, 2:15 p.m.,*
in response to message #2 by OJM

Ahh, that's better. The 15C is more my cup of tea. Imagine a $20 bundle with a 15C and 16C. Flip from one to the other with one click and the option of transferring the stack across as you go (with some sort of integer <-> real convention). I think I'd still keep Emu48 loaded. Is this just greed?!

A few comments about the 15C version
*Message #4 Posted by **Chris Randle (UK)** on 30 Jan 2003, 2:57 p.m.,*
in response to message #2 by OJM

I don't have a real 15C so I'm going by the manual and my experience of the 16C.

My initial observations:

Looks visually stunning. Display is little odd in that the digits don't fill the calc screen horizontally, there's some white space at the right-hand end. I'd have preferred a more faithful rendition of the LCD digits.

Programming doesn't record key matrix co-ords, but alpha mnemonics rather like a 42S, e.g.

```
001: RCL 1
002: R-DOWN
003: COS
```

The original 448 byte limit is removed. Don't know what its new limit is.

There are extra annunciators. Not just f and g, but for all the keys that require a subsequent entry, e.g. RCL, GTO, SF, etc.

A test loop

```
LBL 1
1
+
GTO 1
```

to compare its speed with my 16C appeared to lock up the PPC. In fact it's just hogging all the CPU time and responds very slowly to the R/S key - almost to the point of being unusable. When I did get the display back, it showed a speed in the loop 130 times faster than my 16C in floating point.

I was initially surprised to do

```
 1 [ENTER] 3 / 3 *
```

and get

```
1.000000000
```

but that's what the 16C does too so I guess it's OK! Is there a numeric test I can do to see if it copies the 15C's maths exactly rather than some C data type distortion?

Re: A few comments about the 15C version
*Message #5 Posted by **hugh** on 30 Jan 2003, 7:07 p.m.,*
in response to message #4 by Chris Randle (UK)

1 ENTER 3 / 3 * f PREFIX shows 9999999999 on a 15c but this is 1.000000000 when in FIX 9.

i would be interested in the following calculations.

tan(355/226) radians. the 15c gets -7,507,225.705 (the real answer is -7497258.185)

also, try this. its bit more involved though...

1 ENTER 3 / then perform the sequence 4 * 1 - repeated 14 times. you will see the .333333's disapear one by one until you finally get, 0.310963712 on a 15c

what i am doing here is bringing in errors by multiplying by two and the machine is decimal. if i multiply by 10 and subtract i get clean zeros. machines that are really binary will get clean zeros from my example, but garbage using 10. if you are actually using binary arithmetic internally, chances are you will get clean zeros.

Re: A few comments about the 15C version
*Message #6 Posted by **Renato** on 30 Jan 2003, 10:28 p.m.,*
in response to message #5 by hugh

Maybe someone could try the calculations described at: http://www.rskey.org/~mwsebastian/miscprj/forensics.htm

This way you can verify if it is a emulation or a simulation.

"Forensics" test result
*Message #7 Posted by **Chris Randle (UK)** on 31 Jan 2003, 3:06 p.m.,*
in response to message #6 by Renato

The forensics test at the link is:

arcsin(arccos(arctan(tan(cos(sin(9))))))

in degrees. The PPC program gives 9.000417403 the same as the real 15C which makes it even harder to explain the results of hugh's tan test.

Results of tests
*Message #8 Posted by **Chris Randle (UK)** on 31 Jan 2003, 2:56 p.m.,*
in response to message #5 by hugh

I'd forgotten about PREFIX. After 1[ENTER]3/3*[PREFIX] the 15C program shows nine 9's.

tan(355/226) radians give -7,507,219.881

The repeated 4*1- after 1 3/ gives the same answer as a real 15C

So the tan func is a bit different, other two seem faithful.

Re: Results of tests
*Message #9 Posted by **hugh** on 31 Jan 2003, 3:24 p.m.,*
in response to message #8 by Chris Randle (UK)

thanks chris. those results are interesting. i am thinking that perhaps they really do emulate, or at least use the exact same algorithms. it would be highly difficult to implement a rich set of functions and hit answers bang on - even the ones in slight error!

that makes me think they've taken the logic straight from the 15c roms. incidentally, ive been playing with the palm 12c and it feels like that too. especially since the calculations are a bit slow for such a faster cpu. what is the speed like on the PPC. if native, it should be super fast.

heres my theory of the day for the tan test: some 15c's are different! is this true? im suggesting there were rom revisions internally.

Oh no! Now my Jornada 565 won't sync!
*Message #10 Posted by **Gene** on 31 Jan 2003, 4:11 p.m.,*
in response to message #9 by hugh

Trying to load the 2 emulators made me try to synch info with my PC and the Jornada 565 I have.

I had done this before, but between then and now, got a replacement Jornada 565 for a warranty problem. I had not tried synching with the replacement Jornada until today.

WinXP at home and W2000 at work do not see the Jornada, using either Activesync 3.1 or 3.5

Naturally, this is 98 days past the arrival of the replacement unit, so if it's a true problem with the Jornada, I'm out of luck.

Any activesync experts out there with some suggestions?

I can copy files to the CF card and then insert it, but for reasons I have not understood, you (usually?) cannot install things into a PPC2002 device except through activesynch.

Waaahh!

Gene

Re: Oh no! Now my Jornada 565 won't sync!
*Message #11 Posted by **Chris Randle (UK)** on 31 Jan 2003, 4:41 p.m.,*
in response to message #10 by Gene

I'm not an expert, but ActiveSync can be a pain sometimes.

You can install without ActiveSync if you copy any .cab file you might find (must be the ARM one if there's a choice) to the PPC and then tap it (on the PPC).

There is an ActiveSync 3.6 on Microsoft's site, but I reckon your problem is more fundamental.

If you want to take this off-list (chris@amlog.co.uk) I'll try to help you.

Looks good. Why won't 12c work w/Jornada?
*Message #12 Posted by **Gene** on 28 Jan 2003, 12:15 p.m.,*
in response to message #1 by Chris Randle (UK)

They list the Jornada 560 series as working with the 15c emulator, but not the 12c. Wonder what's up with that?

I think these look very good, and the price is right!

Gene

Re: All versions of 12C emulator
*Message #13 Posted by **Gordon Dyer** on 28 Jan 2003, 2:07 p.m.,*
in response to message #12 by Gene

Go to this page to see all versions for the PocketPC

http://www.handango.com/PlatformTopSoftware.jsp?siteId=311&jid=88E667C62A7F6AA66639B549158B26X5&platformId=2&title=Lygea&authorId=97945

Actually, that doesn't work, but thanks
*Message #14 Posted by **Gene** on 28 Jan 2003, 3:00 p.m.,*
in response to message #13 by Gordon Dyer

The Jornada 565 has an ARM processor, but the only PDA PocketPCs listed on the ARM page are IPaQs.

So, I still wonder if it will run on ARM processor PDAs other than the IPaQs?

Gene

Re: Actually, that doesn't work, but thanks
*Message #15 Posted by **Gordon Dyer** on 29 Jan 2003, 12:20 p.m.,*
in response to message #14 by Gene

I just selected both lines of the URL from my reply above, copied and pasted it into Internet Explorer and it worked fine! Try it again....

I meant the listing didn't specify a Jornada 565
*Message #16 Posted by **Gene** on 29 Jan 2003, 4:21 p.m.,*
in response to message #15 by Gordon Dyer

What I had meant was your longer URL didn't provide the answer to my question. :-)

The version listed only displays the IPaq's on the ARM version. Not Jornada 560 series. That was my original question. Chris Randle says he has used it, but the Store's specifications must then be incomplete.

Re: Actually, that doesn't work, but thanks
*Message #17 Posted by **Chris Randle (UK)** on 29 Jan 2003, 3:59 p.m.,*
in response to message #14 by Gene

Just installed both trial versions (12C & 15C) on to the ARM processored Jornada 568. They both work a treat. I've only played with them for literally 2 minutes but visually they're beautiful.

In the screen shots you can see a red ellipis button. This gives a stack display. On the 12C the Y, Z & T registers appear on the right-hand side of the simulated display in a very neat faint font. On the 15C the whole (PPC) display switches to show X, Y, Z & T along with the contents of the 21 registers RI, R0-9 and R.0-R.9.

Roll on (R-> ??) the 16C version!

Re: Both work on Jornada 548 SH3
*Message #18 Posted by **Gordon Dyer** on 29 Jan 2003, 9:14 p.m.,*
in response to message #17 by Chris Randle (UK)

I have trial versions of 12C and 15C on a Jornada 548 with SH3 processor. They are so good I might buy them!

Re: HP12C for PocketPC
*Message #19 Posted by **hugh** on 28 Jan 2003, 1:40 p.m.,*
in response to message #1 by Chris Randle (UK)

no palmOS version tho :-(

does it work by rom emulation? are the roms freely available to be used commercially like this?

the price is very reasonable.

> **Re: HP12C for PocketPC**
> *Message #20 Posted by **HrastProgrammer** on 29 Jan 2003, 7:30 a.m.,*
> *in response to message #19 by hugh*
>
> AFAIK, it is not ROM based because HP-11/12/15/16 ROM wasn't released by HP (sadly). So, it is more a simulator than emulator because real emulators usualy emulate CPU so they need ROM to execute.

HP12C for Palm
*Message #21 Posted by **Bill Hemphill** on 28 Jan 2003, 3:41 p.m.,*
in response to message #1 by Chris Randle (UK)

Just did a search on Palm Gear and came up with following:

http://www.palmgear.com/software/showsoftware.cfm?sid=12708720030128123635&prodID=42854

I haven't tried it yet, but looks interesting for those of us with Palms.

> **Re: HP12C for Palm**
> *Message #22 Posted by **Renato** on 29 Jan 2003, 6:33 a.m.,*
> *in response to message #21 by Bill Hemphill*
>
> I´ve been using it for some time. It is very good. The trial period is only 30 days.

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Storage Damage
*Message #1 Posted by **Kris Collins** on 27 Jan 2003, 6:13 p.m.*

Does anyone know what is the effect of storing calculators for extended periods without batteries? Does the lack of current applied to the circuit expose the components to damage from stray impulses? I prefer to store calcs without batteries installed to avoid possible damage but am concerned that I might encounter a different kind of problem.

Re: Storage Damage
*Message #2 Posted by **murphy's laws** on 27 Jan 2003, 6:36 p.m.,*
in response to message #1 by Kris Collins

You just can't win.

Re: Storage Damage
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 27 Jan 2003, 10:39 p.m.,*
in response to message #1 by Kris Collins

Hi;

for how long do you plain to store your calculators?

If you are following post at this forum for at least nine months, you may have read about a bunch of HP41CX found in their boxes as new in Scotland. As you mentioned in your own post, they surely did not have their batteries installed (for the last 14-18 years? No way...) and they were not damaged, too. But your concerns are valid.

If I want to store my calculators for a long time I would keep them without the batteries AND I'd provide the batteries' poles were short circuited with conductive foam. The foam would protect against ESD and would also be harmless to the contacts integrity.

Using silicon gel to keep humidity away is a good choice, too. Keeping low temperatures (not freezing ones, as Dr. Mike Meyers cleverly reminded us...) will extend the "resting" period, too.

Wow! Let me stop writing.

My US$ 0,05.

Cheers.

Re: Storage Damage
*Message #4 Posted by **Michael Meyer** on 27 Jan 2003, 10:48 p.m.,*
in response to message #3 by Vieira, Luiz C. (Brazil)

Luiz,

I think you mean your $.02 ("Two Cents Worth")

Not only good advice, but your get $.03 back!

<grin>

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HP-97 card reader
*Message #1 Posted by **Michel Beaulieu** on 27 Jan 2003, 4:46 p.m.*

I have a problem with my HP-97 card reader. I just repair it for the gummy wheel problem and reassembled it. When i put card in, the card is passing throught but i always get "error" message flashing one time and error is always lit after. How to get it work back. BTW i clean everything in the card reader assembly so no dirt in there..

Thanks Michel

Re: HP-97 card reader
*Message #2 Posted by **David Smith** on 27 Jan 2003, 5:54 p.m.,*
in response to message #1 by Michel Beaulieu

The problem is most likely a bad tantalum capacitor. It is usually a small blue colored dipped tantalum. It is used to filter noise from the power supply. Over time it develops a high ESR and quits filtering, even though it will test as good. The value is not very critical. I have used anything from 3.3 to 10 uF. I think the original is around 4.7 uF. I usually use 6.8 uF because the local capacitor store had lots of them for cheap.

Re: HP-97 card reader
*Message #3 Posted by **Michel Beaulieu** on 27 Jan 2003, 7:55 p.m.,*
in response to message #2 by David Smith

Can i use a normal electrolitic capacitor? Is it the capacitor connect to the motor terminals?

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HP 97 calculator
*Message #1 Posted by **Debbie Scheibner** on 27 Jan 2003, 3:43 p.m.*

I need help with a HP 97 Calculator adapter. I have taken the battery pack into "Battery Plus" and had them recharge the batteries. They informed me that the adapter is no good. I cannot locate a adapter. Radio Shack had only 7.5 and 9.0 adapters. They said that I need a 8 VAC and nothing else would work. The guy said is I could locate a adapter that is equal in voltage, I could cut the end of the plug off the old adapter and wire it on the new adapter. Can you help me concerning the adapter and let me know if I could use the 7.5 or 9.0 and not hurt the calculator. Thank you, Debbie Scheibner 1-800-342-7458

Re: HP 97 calculator
*Message #2 Posted by **Michael Meyer** on 27 Jan 2003, 5:08 p.m.,*
in response to message #1 by Debbie Scheibner

Hi.

Tony Duell is the person to ask about this.... I think any 8v AC supply would work, but it shouldn't deliver more than 500 ma current or so..

I have a better idea, though. Give me your address and I'll mail you one that works perfectly. (I have extras of these, as they've been included with HP-71B's, when I usually run them on batteries anyway....)

Michael

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HP 82941A BCD-Interface
*Message #1 Posted by **Peter Mueller** on 27 Jan 2003, 7:54 a.m.*

Does anybody have a manual for the HP 82941A (Binary Coded Decimal) Interface which can be used in the HP 85 ? I couldn`t find a PDF in the museum`s CD. Greetings Peter

Re: HP 82941A BCD-Interface
*Message #2 Posted by **Michael O. Tjebben** on 27 Jan 2003, 8:16 a.m.,*
in response to message #1 by Peter Mueller

You might try the following:

www.series80.org (I had trouble connecting to them this morning, maybe the MS Worm is slowing access?)

http://www.ebbsoft.com/#hp (The BCD interface is mentioned, but it says not online yet. Perhaps the owner of the website can expedite the scan, if the link above does not already have it.)

Hope this helps.

-Mike

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HP-30S = Second Generation TI Two-Liner
*Message #1 Posted by **Joerg Woerner** on 27 Jan 2003, 4:01 a.m.*

Once again my comments to the modern HP-calculators...

I guess that you already noticed that I'm collecting the calculators of a Dallas company - known as the inventor of the single-chip calculator. If you are interested in my collection covering more than 700 TI calculators just convert my email address with the www. header to a web-address.

TI collectors and HP collectors are somewhat similar - not too happy with the modern products and still remembering the fights between HP-35 vs. SR-50, HP-65 vs. SR-52, HP-67 vs. TI-59 and finally HP-41 vs TI-88 (sh**, here we lost..).

About two years ago I purchased the whole set of the modern Two-Liners introduced by TI to compete with the Sharp and Casio line of that product category. We know the TI-30X II, TI-34 II, TI-36X II and TI-40 II. When Hewlett Packard introduced with the HP 30S a similar product (sorry - I ignored the HP 6S, in my opinion not the best of its kind) I immediately felt in love with it!

Why ?

It corrects all flaws known from TI's product line:

* Battery access without removing the housing.

* Common LR-44 batteries instead expensive CR-3025

* Brighter display

* Improved accuracy

Everything else is identical to the TI Two-Liners.

Yesterday I compared both a TI-30X II and the HP 30S carefully and revealed a big surprise: The

internal construction of both calculators carries the same handwriting. One is called SR16 and the other SR18. The step from the TI-30X II to the HP-30S demonstrates with the reworked PCB architecture the usual process of cost reduction.

Please get my pictures here:

http://www.datamath.net/j.jpg

http://www.datamath.net/j1.jpg

Regards,

Joerg

Re: HP-30S = Second Generation TI Two-Liner
*Message #2 Posted by **J.Manrique López** on 27 Jan 2003, 5:03 a.m.,*
in response to message #1 by Joerg Woerner

Both, TI-3xX II and HP30s and new HP9 lines come from Kinpo. And Citizen calcs come from there too.

You can say that Kinpo is the Camino planet of calculators galaxy...

Clone war began has

May the Force be with you,

J.Manrique #1077 HPCC Member

Re: HP-30S = Second Generation TI Two-Liner
*Message #3 Posted by **Joerg Woerner** on 27 Jan 2003, 5:56 a.m.,*
in response to message #2 by J.Manrique López

You are right - some Citizens fill the gaps with SR17 and SR19...

Regards, Joerg

Re: HP-30S = Second Generation TI Two-Liner
*Message #4 Posted by **Raymond Del Tondo** on 27 Jan 2003, 5:10 a.m.,*
in response to message #1 by Joerg Woerner

Hi,

seems TI uses the same asian manufacturer as HP;-) Even the display is nearly identical, except for one of them having the annunciators on top, the other on bottom.

Regards,

Raymond

Re: HP-30S = Second Generation TI Two-Liner
*Message #5 Posted by **Joerg Woerner** on 27 Jan 2003, 6:00 a.m.,*
in response to message #4 by Raymond Del Tondo

Raymond,

You should start to think in EOS instead in RPN:

RPN: Hi, seems TI uses the same asian manufacturer as HP;-)

EOS: Hi, seems HP uses the same asian manufacturer as TI :-))

Just kidding...

Regards, Joerg

BTW: We thought that you are in the honeymoon - probably purchasing a HP9G in Thailand...

Re: HP-30S = Second Generation TI Two-Liner
*Message #6 Posted by **hugh** on 27 Jan 2003, 9:09 a.m.,*
in response to message #1 by Joerg Woerner

the 30s is a good machine let down by its poor build quality - mainly the buttons. its a struggle to use because the keys are dome shaped and dont connect with fingers well (sausage fingers especially). the 2nd key is worse due to its slanty angle, but is often needed.

the ti30 keys are also bad. but the tops are flat and the number keys slightly bigger.

Re: HP-30S = Second Generation TI Two-Liner
*Message #7 Posted by **Gordon Dyer** on 31 Jan 2003, 4:46 p.m.,*
in response to message #1 by Joerg Woerner

Nice pics! It is interesting to see the differences. Are they from the same manufacturer?

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ebay: 12c manual on CD? Museum or HP site copy?
*Message #1 Posted by **Gene** on 26 Jan 2003, 8:04 p.m.*

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3002893343&category=11712

I guess the seller could have scanned it all himself, but it might be the museum's copy or off HP's site.

Either way, is this ok? Maybe everyone should sell manuals on cd rom. :-)

Re: ebay: 12c manual on CD? Museum or HP site copy?
*Message #2 Posted by **Chris(FLA)** on 26 Jan 2003, 11:56 p.m.,*
in response to message #1 by Gene

Either way, is this ok? Maybe everyone should sell manuals on cd rom. :-)

HP still sells the 12C. I would think they have a copyright on the manual for the calc. If they do then this would be copyright infrigment and therefore would not be ok.

Chris

I knew, but was just teasing
*Message #3 Posted by **Gene** on 27 Jan 2003, 7:44 a.m.,*
in response to message #2 by Chris(FLA)

After all, there's an ebay seller who continues to sell xerox copies of the TI-58/59 Service manual and now someone's selling a PDF of the HP-12C manual.

Gene

Re: ebay: 12c manual on CD? Museum or HP site copy?
*Message #4 Posted by **Dave Hicks (USA)** on 27 Jan 2003, 12:57 a.m.,*
in response to message #1 by Gene

It's not mine. My agreement with HP doesn't cover current manuals.

Oh and thanks for the notice about the picture. Unfortunately the auction was over before I saw it.

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MLDL2000 Update
*Message #1 Posted by **Meindert Kuipers** on 26 Jan 2003, 2:46 p.m.*

This time just a few bullets:

- New specifications ate www.kuipers.to/hp41 (totally changed memory map, increased capacity, detailed addressing modes

- uploaded current VHDL design files

- Working on schematics

- Working on prototype (I have the Xilinx demo-board)

There is still much work to do, mainly on defining (and implementing) an interface to the outside world. In addition, some HP41 instructions need to be defined to interface with the MLDL2000.

Some issues that need to be resolved:

- HP41 is 6V, is above the limit of the 5V tolerant inputs. Are buffers required?

- Which HP41 instructions can/should be used?

- Need support for basic 'operating system' ROM

- Need some details on HP41 Bank Switching (bugs and exceptions)

Let me know if you can help me with some of the questions above.

Regards,

Meindert

-

Good...keep going! Re: MLDL2000 Update
*Message #2 Posted by **gene** on 28 Jan 2003, 12:18 p.m.,*
in response to message #1 by Meindert Kuipers

Just wanted to say Keep it up!

Have you decided on a hardware profile?

Card reader like box?

Plug in module?

something else?

Gene

Form Factor
*Message #3 Posted by **Meindert Kuipers** on 29 Jan 2003, 2:54 p.m.,*
in response to message #2 by gene

I am playing with the autorouter that came with the schematic entry program. Inside a module is out of the question, as the CPLD itself (144 pin PQFP) is too large. I will make a PCB that will fit inside a cardreader housing (that seems to be easy enough) but I cannot supply those housings!

Meindert

Re: Form Factor
*Message #4 Posted by **Christof** on 29 Jan 2003, 3:20 p.m.,*
in response to message #3 by Meindert Kuipers

is it necessary to scavenge the port connector part?

If not, it is probably conceivable that some old modelling fanatic (like me) cna make something in reasonably sized lots.

The plastic might not match exactly, or soemthing.

Let me scope around a bit.

(what exactly is the functionality of this again?)

functionality
*Message #5 Posted by **Gene** on 29 Jan 2003, 3:29 p.m.,*
in response to message #4 by Christof

It will be like having RAM modules plugged in that will work like ROMs. You can copy ram programs into these port/slots and run programs from them.

It will have built-in the ROMs of many pre-written application packs.

I'd love to have 32 or 64x the ram of a normal 41. Using flash, it's non-volatile too.

Re: functionality
*Message #6 Posted by **Bill Wiese** on 29 Jan 2003, 4:42 p.m.,*
in response to message #5 by Gene

What'd be nice is a module/widget that can read from some cheap bulk memory (CompactFlash, SmartMedia, or SD).

Be interesting to have a 'module' that can be read/written to as an SD card but has an HP41 interface. SD is about the smallest and could fit in an HP41 module, along with a 44- or 52-pin fine-pitch logic device.

Gawd, the SMALLEST of these memory cards in current production is 8MBytes!

Bill

Re: functionality
*Message #7 Posted by **Meindert Kuipers** on 30 Jan 2003, 3:26 a.m.,*
in response to message #6 by Bill Wiese

Forget about standard Flash cards. All of these require a harddisk like approach, and thus a kind of operating system. In addition, the interface specifications are not free, it requires an expensive license for most of the cards to be able to get just the specifications.

I will use just a standard Flash memory IC. I have not made up my mind yet on the type. The basic choice is between small sector and large sector. Small sector allows blocks to be erased and written in chunks of svereal hundreds of bytes, but the timing is more complicated (less than 150 microseconds between bytes, not possible under HP41 control). Large sector Flash means that blocks of (usually)64k are erased, but individual bytes can be written to under HP41 control, since there is no restriction to the timing between cycles. However, Flash should not be accessed between these cycles.

The extrernal interface will be done in such a way that it facilitates USB (for example) connections with a very cheap and simple microcontroller, but this will be a future project.

Again, I encourage all to download the specifications and flood me with comments and tips!

Re: functionality and packaging
*Message #8 Posted by **Christof** on 30 Jan 2003, 3:56 a.m.,*
in response to message #7 by Meindert Kuipers

so, basically this will hold umpteen ROm module images, alow us to produce "rom module" images that are writable, and include the maximum extended memory (???)

what I see is a need to be able to plug in 2 modules along with this for some applications- HPIL and printer.

(Of course, I would like to be able to use a card reader at the same time, myself.)

the best thing to do might just be to duplicate the shape of the top 1/3 or 1/4 of the 41 itself, modify the base part of that to accept he same hold

down clips as the card reader, and fabricate those for housings.

Making a single one from stock, by hand, would take some hours and be fun, but harldy acceptable as a method for producing a few dozen.

The shape is, or should be, regular enough to make it feasible to produce a form and bend some 22 gauge sheet.

Probably easier to use card reader housings- or maybe IR printer housings. Shame to waste the card readers, though :)

Re: functionality and packaging
*Message #9 Posted by **Christoph Klug** on 30 Jan 2003, 5:38 a.m., in response to message #8 by Christof*

Dear Meindert Kuipers,

using existing card reader housing would be the easiest solution - some cardreaders with internal bugs or malfunctions exist (failured capstan wheel).

Please design the loading procedure of rom-files compatible to the existing RAM-BOX standard from W&W and ERAMCO or ZEPROM. This systems are working with HP-IL and IL-mass storage units. And actual we get the first PC emulator software EMU41 from Jean-Francois which also includes this nice standard.

Because the HP41 is an complete system (which includes different HP-IL devices and now gets additional gateway features to virtual emulator solutions and virtual IL devices like Emu41) your MLDL2000 system design must be compatible to this existing and powerfully standard !

Best wishes from Germany - Christoph Klug

Re: functionality

*Message #10 Posted by **Bill Wiese** on 30 Jan 2003, 1:53 p.m.,*
in response to message #7 by Meindert Kuipers

Hi..

>Meindert Kuipers wrote: >"Forget about standard Flash cards. All of these require a >harddisk like approach, and thus a kind of operating >system. In addition, the interface specifications are not >free, it requires an expensive license for most of the >cards to be able to get just the specifications."

Um, there's quite a bit of public info on CompactFlash cards and SmartMedia, etc. interfacing out there. CF works very like an IDE interface; quite a few folks have tiny 8051 CPUs connected to these for MP3 players. No one's gonna charge you royalties (and you can prob "wing it" without official spec.)

Yes, a file system would be indeed needed for this approach. I admire your prog logic solution; I myself would try a tiny low-power 8051 microcontroller w/on-board ROM/RAM to run a small FAT file system (lotsa public domain code out there) and translate the input/output to the HP serial memory thru some firmware bit-banging as the speeds are not excessive for 12+MHz microcontroller CPU [which is in fact more powerful than the calc CPU! :)] The microcontroller code would also have to translate the HP41 'file system' concept and labels, etc. to/from this external FAT file system.

Regards Bill Wiese San Jose CA

Re: functionality

*Message #11 Posted by **James MacPhail** on 31 Jan 2003, 5:16 a.m.,*
in response to message #7 by Meindert Kuipers

I suggest you reconsider Compact Flash cards. (Although I admit not knowing whether the smaller cards are just as good or better for this purpose.)

CF cards are fairly cheap, readily available, and (I think) will be around for a while, although maybe not in small sizes.

The CF spec mentions a "memory mapped" mode that may be a bit simpler to implement than the "True IDE" mode (though it doesn't look all that different to me).

CF cards also take care of wear levelling, are timing tolerant, etc.

The specs are freely available at http://www.compactflash.org

One drawback is the cost of the connector (about $6), but I think this is outweighed by the potential to have multiple configurations on different cards.

I think 25-50 may be too few for the first run, but of course the demand will depend on the price. When you have a final design and working prototype(s), I am sure many of us will pay up-front so you can buy production boards and parts.

Good luck!

James

Re: functionality
*Message #12 Posted by **James MacPhail** on 3 Feb 2003, 4:21 a.m.,*
in response to message #11 by James MacPhail

I haven't reviewed the 41C timing, but after further thought, I worry the overhead of the IDE interface would make reading from CF too slow, so the image would need to be loaded in bulk from CF into working RAM.

Perhaps the addition of RAM is not an issue and the convenience of removable CF cards would justify it.

I guess someone (Meindert) needs to freeze the feature set so this (rather substantial) job can be completed.

Good luck!

James

Re: Form Factor
*Message #13 Posted by **Raymond Del Tondo** on 30 Jan 2003, 5:13 a.m.,*
in response to message #3 by Meindert Kuipers

Hello Meindert,

would the PCB fit inside a 82143A printer plug, or a wand plug?

Regards,

Raymond

Re: Form Factor

*Message #14 Posted by **Meindert Kuipers** on 30 Jan 2003, 5:38 a.m.,*
in response to message #13 by Raymond Del Tondo

The biggest component is the 144-pin Xilinx XPLA3 CPLD (128 or 256 macrocells). I can hardly pick a smaller one as the logic will probably not fit in a 64 Macrocell device and I want room for expansion.

This IC is about 22*22 mm, and first routing attempts show that I do need room around it. BGA seems to be beyond my routing and proto capabilities. An escape might be a 16*16 mm package for the 128 macrocell device, but I want enough room to spare for expansion.

I have not played yet with assigning a different pinout on the CPLD. It will make a difference, but routing a 18-bit address bus to two TSOP-32 devices (SRAM and Flash) requires space, and I intend to limit the PCB to 2 layers only (that's what the free version of the router allows).

In addition space is required for the 3.3 V regulator (actualy the caps are consuming the space) and most of all connectors for JTAG (In Circuit Programming) and I/O.

After building a few proto's I do intend to have the device produced at a decent PCB outfit, probably looking at a run of 25 to 50.

Meindert

Be sure to count me in!

*Message #15 Posted by **gene** on 30 Jan 2003, 12:54 p.m.,*
in response to message #14 by Meindert Kuipers

Before deciding to run 25 to 50 of these, please ask for a committment to buy. And/or make sure you could build more of them. :-)

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Corrosion Cleaning Fluid
*Message #1 Posted by **Kris Collins** on 26 Jan 2003, 2:44 p.m.*

I am advised the the best cleaner for battery leakage is ammonia. Seems to reduce the residue that alcohol leaves behind. Anyone have different experience?

Re: Corrosion Cleaning Fluid
*Message #2 Posted by **Emmanuel, France** on 26 Jan 2003, 5:12 p.m.,*
in response to message #1 by Kris Collins

```
Good idea... but reaction in contact with mylar?!
To fix battery contacts on HP-41 I use silver paint (for rear window on a car for
instance).
```

Re: Corrosion Cleaning Fluid
*Message #3 Posted by **David Smith** on 26 Jan 2003, 5:52 p.m.,*
in response to message #1 by Kris Collins

For the white powder leakage from batteries, I use white vinegar. For the green copper oxidation I use isopropyl alcohol and a contact cleaner made by Caig called a Gold Pen and/or their DeOxit pen.

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User base estimate
*Message #1 Posted by **Jose Ignacio Gutierrez** on 26 Jan 2003, 1:34 p.m.*

Hi there people,

Does any of you have an estimate of how many HP programmable calculators have ever been sold worldwide?

I am currently working on a thesis about the implementation of programs on the HP48G.

Cheers,

Jose.

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Help with Geocaching Triangulation problem - what is the best calc for this?
*Message #1 Posted by **Mark Gessner** on 26 Jan 2003, 9:36 a.m.*

A Geocaching triangulation problem: Given three pairs of lat/lon coordinates, and a distance from each, find a third pair of unknown lat/lon coordinates.

Figured out how to do this by construction using a map and some dividers, but it seems that there must be a better way to do it by HP calculator. Which calculator would be ideal for this?

My wife grabbed her TI-83 and said it was best, but I maintain that one of my old HPs must be better. Problem is, I have so many of the damned things I can't choose which is best to solve the problem. See what you think:

http://www.geocaching.com/seek/cache_details.aspx?ID=20947&log=y&decrypt=y

-mark.

Re: Help with Geocaching Triangulation problem - what is the best calc for this?
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 26 Jan 2003, 1:22 p.m.,*
in response to message #1 by Mark Gessner

Hi;

I once dealt with a subject closer to this: given (M-1) coordinates and the expected area that define a M-coordinates polygon (a surface area), find the M_{th} coordinate (the "unknown" side could shift or rotate). I have the basic knowledge for surveying (I was a regular student at the surveying classes when I was at the university) so it was not too difficult to achieve a procedure.

My solution used a 2-unknown system and the matrices resources available with the calculator. Unfortunately, the final program does not belong to me and I will not disclose the listing. Anyway, the method I used to compute the unknown coordinate was developed by myself.

I used an HP48G at the time, but depending on how deep you want to go to solve the problem,

any of these calculators can be used:

HP15C HP28S HP42S HP48S/SX/G+/GX HP49G

I do not know the HP39G and the HP40G, but I believe they can also be used. Even other calculators that do not have "resident" resources may be programmed to do so; the ones mentioned above may directly deal with matrices and complex numbers, if needed, without the needing of specific programs.

If you need more details and specific support, e-mail me.

Best regards.

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Plotter HP 7580B
*Message #1 Posted by **Ulli Sprenger** on 26 Jan 2003, 5:46 a.m.*

Hi,

i'am looking for an Service Manual HP 7580B.

How can help me.

Ulli

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Unreasonable Calcualtor Prices
*Message #1 Posted by **Katie Wasserman** on 25 Jan 2003, 8:13 p.m.*

Recently discontinued HP calculators on ebay are selling for an awful lot but still not as much as at least one HP dealer -- would you belive $300 for a 17BII! Now that dealer is advertising for free on this site. That doesn't seem right to me.

Take a look here:

http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/adforum.cgi?read=9093

Re: Unreasonable Calcualtor Prices
*Message #2 Posted by **Raymond Del Tondo (Germany)** on 25 Jan 2003, 8:46 p.m.,*
in response to message #1 by Katie Wasserman

...and it's not even April, 1st;-)

Seriously, I don't think samsoncables will sell a single unit of those calcs for that price, and yes, his ad could be seen as spam. Seems that samsoncables can be ignored in the future...

Regards,

Raymond

What are the variations
*Message #3 Posted by **Mike** on 25 Jan 2003, 10:37 p.m.,*
in response to message #1 by Katie Wasserman

He has several prices for 17Bii. What are all the variations?

Re: What are the variations
*Message #4 Posted by **Raymond Del Tondo (Germany)** on 25 Jan 2003, 11:03 p.m.,*
in response to message #3 by Mike

Brown bezel: Classic style colors. Silver bezel: New style colors; lower quality indonesian or chinese production Refurbished: Maybe usage marks, maybe w/o manual/carton

However, they're all too expensive.

Raymond

Re: Unreasonable Calcualtor Prices
*Message #5 Posted by **Nick Nicholas** on 26 Jan 2003, 2:09 a.m.,*
in response to message #1 by Katie Wasserman

To be fair, this HP dealer is selling some used HP 17sii for substantially less than $300 on ebay and on his web site, although I thought that his price for a new unit was $225 just a few days ago.

What I don't understand is that while he sells some HP 17bii oem units for $125, he is buying another 17bii for $155 plus shipping. This unit had the box and plastic tray.

I thought that only "new" units can be sold by a reseller only if the units came directly from HP or an authorized distributer. Once the calculator is sold by a reseller to an end user, the warranty comes into effect. If the unit is purchased back by a reseller, the reseller can only offer the purchaser the remainder of the warranty left from the original owner of the calculator. So in this sense, even if the calculator is in "new" condition, it does not come with a "new" warranty. So the calculator should not be sold as new as it does not come with a full warranty. I would appreciate some clarification on this issue.

Samson Cables - give 'em a break
*Message #6 Posted by **Mark Gessner** on 26 Jan 2003, 9:32 a.m.,*
in response to message #1 by Katie Wasserman

I bought a couple new machines (49G and 39G) from Samson Cables off eBay on a buy-it-now deal. Price was very reasonable and the customer service was excellent. Shipped quickly too. If the price was right and I didn't already own nearly every model of HP calculator ever made, I'd do business with them again. -mark.

Re: Unreasonable Calcualtor Prices
*Message #7 Posted by **Steve (KY USA)** on 26 Jan 2003, 11:39 a.m.,*
in response to message #1 by Katie Wasserman

Yes, he should take his commercial elsewhere!

Re: Unreasonable Calcualtor Prices
*Message #8 Posted by **Todd G.** on 26 Jan 2003, 11:40 a.m.,*
in response to message #1 by Katie Wasserman

Even the manuals are expensive. $29.95 for a 19Bii manual??

Re: Unreasonable Calcualtor Prices
*Message #9 Posted by **Kris Collins** on 26 Jan 2003, 11:51 a.m.,*
in response to message #8 by Todd G.

To his credit he seems to have some things that I haven't found anywhere else. Wouldn't have known about his site if I hadn't seen it in classifieds.

Re: Unreasonable Calcualtor Prices
*Message #10 Posted by **Christof** on 26 Jan 2003, 12:12 p.m.,*
in response to message #8 by Todd G.

the 19bii manual - IIRC - was the same price direct from HP at one point. (or maybe it was 19.95.....)

The classified section is made for people to post. Samson isn't spam posting (new posts each day), and they aren't necessarily evil.

They'd get a lot more good attitudes from us if they did something to support the community, sure.

Re: Unreasonable Calcualtor Prices
*Message #11 Posted by **Todd G.** on 26 Jan 2003, 1:54 p.m.,*
in response to message #10 by Christof

Perhaps a discount if you mention that you saw the ad at this site?

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17Bii and 19Bii
*Message #1 Posted by **Martin** on 25 Jan 2003, 12:36 p.m.*

Hi

I have it on very good authority that HP has recently "discovered" a large batch of new, boxed HP 17Bii and 19Bii calculators (possibly in a warehouse somewhere?). These are apparently being offered to HP calculator dealers worldwide by HP . They should become available to buy in mid to late february. Keep your eyes open for these.

Martin

Re: 17Bii and 19Bii
*Message #2 Posted by **Christof** on 25 Jan 2003, 1:38 p.m.,*
in response to message #1 by Martin

yeah, but where? the local dealers here aren't exactly real distributors or mega market dealers (though you'd ethink the university at least would be, but no)

Re: 17Bii and 19Bii
*Message #3 Posted by **Nic** on 28 Jan 2003, 9:07 a.m.,*
in response to message #2 by Christof

Is there anywhere on the web to download the manual (pdf). I bought mine and it came with a German manual, and no one seems to be able to tell me how to get an English one.

Re: 17Bii and 19Bii
*Message #4 Posted by **Roberto Flores** on 28 Jan 2003, 10:33 a.m.,*
in response to message #3 by Nic

Hi !... I've recently purchased one of each (manuals)from "nmz" at ebay, hope this helps.

Roberto

Re: 17Bii and 19Bii
*Message #5 Posted by **Silvio** on 31 Jan 2003, 2:37 a.m.,*
in response to message #3 by Nic

You can find the manuals in PDF at

http://h20015.www2.hp.com/en/prodCategory.jhtml?
reg=nam&cc=us&pagetype=hpbusiness20036&lc=en

but only in Portuguese and Spanish.

Re: 17Bii and 19Bii
*Message #6 Posted by **Scuba Diver** on 31 Jan 2003, 9:44 a.m.,*
in response to message #2 by Christof

HP found a new batch of these? But the 19BII is still being sold here (Toronto). The Staples Business Depot down the street has 3 on display! I know that the 19 has been discontinued, but I assumed that there was still lots of stock available. After reading your email, I'm guessing that my assumption was wrong. Are these calcs hard to find??

My only advice would be; if these 19s are the Indonesian models (they have black keys instead of charcoal), STAY AWAY! I've used two of these new ones and they are nothing like the older 19BIIs. The keys are loose and the fit and finish is poor.

I have a 17BII and a 19BII and I couldn't imagine being without either of them. I am, however, curious to see HP's new lineup of business calculators (whenever THAT will be). I'm willing to bet that they will not allow users to choose between ALG and RPN.

That will be a sad day. B.

Re: 17Bii and 19Bii

*Message #7 Posted by **Silvio** on 1 Feb 2003, 6:43 p.m.,*

in response to message #6 by Scuba Diver

How much are those HP19BII in Toronto? I asked about them in Staples here (Michigan) and was told they are not avaliable anymore. I have a coworker that commutes to Toronto every other week, and I can ask him to buy it for me, if the price is good.

Thanks,

Silvio

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late, but another unattributed MoHPC picture on ebay
*Message #1 Posted by **gene** on 25 Jan 2003, 12:09 p.m.*

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=2302261911&category=1247

Only $5 and an HP-18c, but principles matter! Gene

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41C card reader writes but won't read

*Message #1 Posted by **Dave Mabry** on 25 Jan 2003, 11:25 a.m.*

I was wondering if there are any hints that folks here can give me about repairing an 82104a card reader for the HP-41C series. I have one that will apparently write a card properly. The written card seems to read ok on another card reader. But any card that I try to read in this particular card reader, whether written by itself or by another known good reader, it displays error messages. Either "MALFUNCTION" or "CARD ERROR" and it doesn't get the program or sometimes it gets a couple of nonsense instructions.

Strange thing is that it writes cards apparently ok.

Is there someone here who might give me a starting point for troubleshooting this thing? It seems like it might be electronics, but I suspect that there are others here who have more experience with this thing who might have run across this symptom.

Any help is greatly appreciated. Thanks.

Dave

Re: 41C card reader writes but won't read

*Message #2 Posted by **Dave Mabry** on 25 Jan 2003, 12:17 p.m.,*
in response to message #1 by Dave Mabry

Well, I may have answered my own question. Upon disassembling the reader it appears that the head may have just been dirty. While I have it appart, though, I want to replace the wheel before it gums up the works. It is ok now, but might as well do a preemptive strike. So, the question becomes, o-rings or fuel line section? The o-ring solution looks easier and just as good, but where do I find just the right size o-rings for this? As I probably will be doing more in the future, I'll be looking for a small quantity, but more than just two.

Thanks for any ideas.

Re: 41C card reader writes but won't read

*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 25 Jan 2003, 12:36 p.m.,*
in response to message #2 by Dave Mabry

Hi;

I've been dealing with a few 82104A in trouble, and both of mine use O-Rings. I do not know the fuel line used in models (planes) but I believe if they have a regular surface and homogeneous thickness, then you just need to push-it-in regularly, avoiding any irregularities when it is in place.

About the O-Rings, the final traction will happen only in both thin surface paths. I'm not sure if this is good or bad, but I understand that the risk of future stress over the card's surface in these contact paths is big; fuel lines are much like the original tractor surface, regularly distributed pressure.

Hope this helps you choosing which to use. If I have the skills and the material, I'd use fuel lines instead of O-Rings. But I did not find the fuel lines where I look for them.

Success. Let us know what happened.

Best regards.

Fuel line

*Message #4 Posted by **Mike** on 25 Jan 2003, 4:22 p.m.,*
in response to message #2 by Dave Mabry

I use the fuel line exclusively. There is a much more even uniform surface area. You do have to be careful with fuel line material to make sure you get some that inside diameter and outside diameter are concentric. That is, when installed there is a unform thickness of the tubing.

There is another area where this uniform surface is important. Since the tubing fits the shaft very uniform and with lots of contact, there is little chance of it walking off the shaft. Glue is not required.

But as o-rings tend to only contact the shaft with a small surface area, there is a more likelyhood that they will walk to the edge and rub against the reader housing.

Also, while the cost is not much for either fix, tubing is dirt cheap. You can get enough tubing for $3.00 that will fix every reader you and all your friends will ever need. It's less

than 3 cents for material per reader.

Re: Fuel line
*Message #5 Posted by **Vieira, Luiz C. (Brazil)** on 25 Jan 2003, 6:39 p.m.,*
in response to message #4 by Mike

Hi, Mike;

thanks for the tips and information.

Is it hard to measure or to find information about the measures for this fuel line (inner and outher diameters)? Is it the same airplane material previously mentioned here?

I'll try a bit more to find any hobby store that deals with airplane models, too.

Thank you very much.

This is what I use (photo)
*Message #6 Posted by **Mike** on 25 Jan 2003, 8:10 p.m.,*
in response to message #5 by Vieira, Luiz C. (Brazil)

This is what I use. Note that it is marked "MED." I should warn you that you need to check it yourself. I have seen some that is too small and some that is just right.

You might even take the wheel down and try the fit. A good fit should be forced on to the shaft. It should be ever so slightly larger than the shoulder. It is almost flush with the shoulder of the wheel.

Besides the issue with concentric inner and outer diameters, you should check for roundness. You can easily eyeball the fit and see if it is out of round. You can also spin the tube between your fingers and feel if it's out of round.

(picture unavailable)

Re: This is what I use (photo)
*Message #7 Posted by **Vieira, Luiz C. (Brazil)** on 25 Jan 2003, 8:45 p.m.,*
in response to message #6 by Mike

Hey, Mike;

thank you for taking your time to photograph it and save it in the provider. I downlaoded teh photo and I'll use reference to find the tube.

I'll do that: "measure" it in place, with the whell in hands. That's the best way, you're right.

Yhank you for the valuable tips.

Best regards.

Re: 41C card reader writes but won't read
*Message #8 Posted by **Randy Sloyer** on 25 Jan 2003, 1:10 p.m.,*
in response to message #1 by Dave Mabry

I have tried both, both work, but FWIW, I feel the fuel line is better. More surface area, etc, etc. I have found the only problem with fuel line is finding stuff that is concentric. I had to search for a while until I found some that was reddish in color, I no longer know the manufacturer of this, but I'm sure if you haunt the hobby shops, you'll find some that is suitable. I do know the Dubro brand that is light blue in color did not work for me, it was too irregular in diameter.

The O-rings I tried came from Mark Hoskins on eBay. When you buy a kit from him for $5 or whatever it is, you'll get about 10 or 12 rings, enough for at least 4 readers. He sends color printed instructions as well. I don't know the actual standard number for the rings, but they measure 0.245" OD x 0.100" ID with a thickness of 0.070".

If you have no luck with the search and want a couple of feet of tubing, email me and I'll snail mail you some.

Re: 41C card reader writes but won't read
*Message #9 Posted by **David Smith** on 26 Jan 2003, 6:02 p.m.,*
in response to message #1 by Dave Mabry

Your problem may not be just a dirty head and drive wheel. I now have three readers that will write but not read. On the HP65/HP67 the problem has always been a small blue tantalum filter capacitor. Although the capacitor will test as good, it develops a high equivalent series resistance (ESR) and no longer filters high frequency signals properly.

I have replaced all the likely culprits on one of my HP41 readers and it still does the same thing. There are a few more things to try, but I need to get the proper parts. Has anybody found a cure for this problem on the 82104A readers?

Re: ahh,the pink fuel tubing has a following!
*Message #10 Posted by **Dave (the "lostrabbit") Huff** on 30 Jan 2003, 2:04 a.m.,*
in response to message #9 by David Smith

Ahh, interesting to see that some of you guys are preferring the fuel line over the O rings. What a novel idea. Musta been some kind of genius that thought of that material! ;) Tell me this Mark Hoskins fellow isn't printing my article and selling it on ebay. If thats the case, you guys can send me a SASE and I'll send you a piece of the fuel line for free. I've been flying R/C for 28 years now and have PLENTY of that stuff.

Re: ahh,the pink fuel tubing has a following!
*Message #11 Posted by **Christof** on 30 Jan 2003, 5:24 a.m.,*
in response to message #10 by Dave (the "lostrabbit") Huff

where to? I'm having trouble locating the right size locally.

silly university town.

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HP41 functionality for a PC... (SW)
*Message #1 Posted by **Andreas Terzis** on 25 Jan 2003, 8:37 a.m.*

Hi there, I was wondering if anyone knew of any applications that simulate the functionality of an HP41C or an HP42S on a PC. I have gotten 3 of my HP41's stolen along with other stuff and I would not be buying them again, but I have tons of programs for those. I thought that I might take advantage of those that way. Your response would be greatly appreciated. Thanks, Andreas

Contact gr8patra@pacbell.net

{moderator transplant}

Re: HP41 functionality for a PC... (SW)
*Message #2 Posted by **Renato** on 25 Jan 2003, 12:33 p.m.,*
in response to message #1 by Andreas Terzis

Andreas, there are two very interesting 41 emulators. One of them emulates a CX and has a very realistic graphic appearance. Also - wouldn´t you like to post the serial number of your stolen units, supposing you took note of them ? Did anyone else had their HPs stolen at any time ? Is this (stolen Hps) an issue for this community ?

Re: HP41 functionality for a PC... (SW)
*Message #3 Posted by **Andrés C. Rodríguez (Argentina)** on 25 Jan 2003, 5:18 p.m.,*
in response to message #1 by Andreas Terzis

Give a look at EV41, nice HP41 emulator (and free). TTCalc is good, but the incomplete documentation (some in german) doesn't help too much...

Re: HP41 functionality for a PC... (SW)
*Message #4 Posted by **Gray Wilson** on 25 Jan 2003, 10:58 p.m.,*
in response to message #1 by Andreas Terzis

Try . Warren Furlow's "V41" (Do a google search) . Stefan Seiwerth's "ttCalc" at http://www.hpcalc.org/hp48/pc/emulators/ttcalc13.zip

Both are very well-crafted programs.

Re: HP41 functionality for a PC... (SW)
*Message #5 Posted by **Emmanuel, Normandy (France)** on 26 Jan 2003, 3:26 a.m.,*
in response to message #4 by Gray Wilson

```
Please test and taste Jean-François Garnier's new Emu41.
It emulates HP-41C/CV/CX, handles HP-IL peripherals
via HP82973A HP-IL/PC card (printer, mass storage unit,
plotter, ...).
Please contact him:
jfgarnier@wanadoo.fr
```

Re: HP41 functionality for a PC... (SW)
*Message #6 Posted by **Christoph Klug** on 29 Jan 2003, 2:53 a.m.,*
in response to message #4 by Gray Wilson

Dear Andreas,

yes, - follow the tip from Emmanuel and test EMU41. Some information about this advanced software you find in the HP-Museum article forum under the new item "HP41-PC Gateway & Emulator". This is the worlds first emulator solution which includes HP-IL support. Also the needed HP-IL/PC Interface Card is available again...

Best wishes from Germany - Christoph Klug

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Prices of HP Calculators
*Message #1 Posted by **Nick Nicholas** on 25 Jan 2003, 2:54 a.m.*

I am interested in collecting a few HP calculators but I have noticed on eBay that the average prices of some of the newer calculators (i.e. those manufactured in the 80's and 90's) have being selling for over $200 US. Have the average prices been this high or has the trend being going up for the last few months

Re: Prices of HP Calculators
*Message #2 Posted by **ToddG.** on 25 Jan 2003, 7:44 a.m.,*
in response to message #1 by Nick Nicholas

Several of the "newer" models have been discontinued, but are very desirable. The HP-42S is a good example. The HP32SII was only recently discontinued, but folks still want it because they use it. That's the basic reason why the prices have been so high. It wasn't always that way. I remember seeing fairly new 32SII models on eBay for about $30 or less!

Re: Prices of HP Calculators
*Message #3 Posted by **Pyerre** on 26 Jan 2003, 10:17 a.m.,*
in response to message #1 by Nick Nicholas

Hi, I'm a "good'o vintage radios" guy & switched new to this hobby just few months ago... and first impression like yours.

Those little boxes with 40-50 keys are really expensive comparing to beautiful tube radios... Advantages, shipping costs are much lower than those old wood cabinets with big irons inside.

So I decide to start from the ground up with :

the less expensive algebraic models : 6S, 30S, 10B, 20S,...the 27S is a very good algebraic model, rare, expensive & is an exception. (Even the 6S is hard to find here in Canada).

the less expensive RPN models : 12C, 28C/S belong to few vintage 21,22,33E at reasonable

prices.

the vintages : 10C, 11C, 15C & newer models : 32S, 32SII, 42S are too much expensive and out of hope; unless have chances with few laying around forgotten at the old bookstores's basements.

IMHO though, Pyerre

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Need 17BII Manual
*Message #1 Posted by **Daniel** on 24 Jan 2003, 8:19 p.m.*

I need a 17BII Manual. Anybody have one for sale? Please e-mail me if you do.

Re: Need 17BII Manual
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 24 Jan 2003, 9:42 p.m.,*
in response to message #1 by Daniel

Hi;

do you need this to be a printed, original manual? There are .PDF versions, but the ones currently availble at the HP site are only in Spanish and brazilian Portuguese (don't look at me, I have nothing to do with this...). I believe that English and other languages were availble in other (good) times, but I do not have any other but the original Spanish that came with the Indonesian I bought a few months ago. Maybe some contributors in here have an English .PDF version.

Hope you have success. Let us know.

Re: Need 17BII Manual
*Message #3 Posted by **Glen Kilpatrick** on 24 Jan 2003, 10:14 p.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

http://h20015.www2.hp.com/en/product.jhtml?reg=nam&cc=us&pagetype=hp17biifin81577&lc=en has a wealth of information. Among other things, one may download a Portuguese PDF (I didn't see any Spanish ones available), and read the examples by key function and number reference.

And I read a reference underneath http://forums.itrc.hp.com/cm/ (http://forums.itrc.hp.com/cm/CategoryHome/1,,408,00.html is the Calculator forum) to "The HP 19BII manual is one of several in this PDF document", and the 17Bii is one of those, so for financial basics you may review http://occawlonline.pearsoned.com/bookbind/pubbooks/gitman-madura_awl/

chapter0/medialib/UseFinCal.pdf ....

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connecting to a PC -via modem?
*Message #1 Posted by **Christof** on 24 Jan 2003, 8:17 p.m.*

well, I've got an idea for data/program tranfer to a PC, but I'm not sur yet if it is possible in the full range.

My HP75D and HP82718A now function wiht a modem. 300 baud- but it's a connection, potentially. (I have some older USR modems that support this)

Once I find some software method to transfer files, I need to come up with a way to push data to and from a 41CX on HPIL to the 75D. I dont' have the dev or extended IO roms for the 41.

Any HPIL experts out there want to take a stab?

(yes, Christpoh, I should probably eventually just get an hpil ISA card. are you currently taking orders?)

Re: with the latest MS worm, 300 baud is fast
*Message #2 Posted by **Christof** on 25 Jan 2003, 4:00 a.m.,*
in response to message #1 by Christof

So, when I posted this, I thought that 300 baud would be a bit painful if I got it working right....

given the state of the net right now, a good, solid, secure 300 baud line might feel nice :)

Re: with the latest MS worm, 300 baud is fast
*Message #3 Posted by **Emmanuel, Normandy (France)** on 26 Jan 2003, 3:33 a.m.,*
in response to message #2 by Christof

I have an HP-75D with its pod too. I never use the modem because I have an HP82169A HP-IL/HP-IB interface and an HP82335A PC/HP-IB ISA card. I think you can use Procomm for DOS with a 300Bds speed. How is the RJ11 wire? How do you handeld it then? Thanks.

Re: with the latest MS worm, 300 baud is fast
*Message #4 Posted by **Christof** on 26 Jan 2003, 12:07 p.m.,*
in response to message #3 by Emmanuel, Normandy (France)

Emmanuel:

with the right type of modem on the PC, you can do a direct link from modem to modem without having to run through the actual telco lines. so all one really needs is a 6 foot (in my case) piece of rj11 ended 2conductor cable.

I'd forgotten about procomm over the past decade- I'm probably just going to use some version of *nix and minicoom, tip, or what have you. Of crouse, if I do get an HPIL ISA card I will go back to DOS on a machine (I have a plasma screen tochiba portable waiting for that eventuality)

Chris: ick. looks like this one will be around for a while yet. but nimda hung around for a while , too.....

Re: MS worm, Still causing problems
*Message #5 Posted by **Chris(FLA)** on 26 Jan 2003, 8:38 a.m.,*
in response to message #2 by Christof

It looks like Asia is still having some troubles:

http://www.internettrafficreport.com/main.htm

Details:

http://www.internettrafficreport.com/details.htm

Chris

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HP-35 on ebay
*Message #1 Posted by **Joe** on 24 Jan 2003, 7:43 p.m.*

(picture unavailable)

Re: HP-35 on ebay
*Message #2 Posted by **Bob** on 24 Jan 2003, 8:09 p.m.,*
in response to message #1 by Joe

And look, CJ and Tomd are both bidding on it!

Re: HP-35 on ebay
*Message #3 Posted by **Christof** on 24 Jan 2003, 8:22 p.m.,*
in response to message #2 by Bob

ah, discussion just as I was going to ask if this was a classified that got misplaced :)

Re: HP-35 on ebay
*Message #4 Posted by **Bob** on 24 Jan 2003, 8:53 p.m.,*
in response to message #3 by Christof

The URL...

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3003135274&category=3294

Re: HP-35 on ebay

*Message #5 Posted by **David Smith** on 25 Jan 2003, 12:11 p.m.,*

in response to message #2 by Bob

And within a few seconds of each other... looks like somebody forgot who he/she/it was logged into as.

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clarification of 'microcode' term - not really applicable to HP calcs
*Message #1 Posted by **Bill Wiese** on 24 Jan 2003, 2:15 p.m.*

{set FLAME_MODE=On;} :)

I get a bit aggrieved when I hear the term 'microcode' being used pretty synonymously with 'machine code', 'firmware', etc. This term is abused not just here in HP calc-land but in service contracts (i.e., microcode update meaning firmware update, etc.) and lots of descriptions of ROM-based firmware.

Microcode is the result of "microprogramming" work and is really the content of a CPU's "writeable control store" (WCS) memory, which can either be a small ROM or a PLA (which is a logic array with a collapsed number of states, kinda a minimized ROM that takes less gates/area.)

Microcode talks directly to the inner hardware of a CPU and is used to define "macroinstructions" which are the normal machine code/assembly instructions that system & application firmware programmers use. Many bits of a microinstruction are just used to bank various pieces of CPU hardware in/out, select registers, etc. Microcode is often 'wide' to achieve decent parallelism - an 8-bit processor could have 30 to 80-bit wide microcode. It is usually not that deep because each instruction (one would hope!) only takes one or a few microcycles. The original VAX instruction set, for example, took 16K words of 42-bit wide microinstruction memory to implement its 400+ instruction set. Some VAXen also had a RAM area to allow customer to create user-written instructions in microcode.

It's true that some very very simple control apps could be written entirely in microcode (fast state machine controller, etc.) but in general microcode manipulates a CPU's inner hardware to render the instruction set opcodes viewable to the outside world.

Microcoding's original concepts were to allow hardware changes at the lowest level while presenting a common 'user interface' at a higher level. The actual CPU architecture internals over a CPU line, back in mainframe days, could differ substantially yet app programs could remain unchanged (same instruction set).

Also, in the days when RAM was slow, CISCy architectures really made sense: a slow instruction

fetch from RAM, core, etc. would translate into a series of very fast microinstructions that executed out of very fast but limited depth instruction memory. The slower the main memory, the deeper the microcode per instruction can be. As memory speeds up, the microcode needs to get more done in parallel, so a redesign of inner CPU architecture might start using wider microinstructions with more work getting done each microcycle.

Another way of thinking: the CISC instructions represented, in a way, 'compressed data' and were decompressed within the CPU into a sequence of microinstructions. The microcode in effect, can also be thought of as an internal L1 cache!

Many processors are NOT microcoded - for example, RISC or RISC-like CPUs. The instruction word has some very simple logic decoding that selects read/write, type of ALU op, etc. and the opcodes+operands essentially directly drive the CPU hardware.

Our HP calcs' instructions have (say, in Coconut CPUs) a 10bit instruction path width (serialized). These instructions are at the lowest level of hardware control and are not 'interpreted' by a microengine. Thus content of HP ROMs w/machine code is NOT microcode.

Really the only way you could regard HP instruction ROM content as microcode is if you regard regular HP RPN programming as an assembler instruction set, but that's a little too high-level for my mind: I think of HP RPN programming as a higher-level language like C or BASIC that's interpreted by a program written in assembler.

Bill Wiese San Jose, CA

Re: clarification of 'microcode' term - not really applicable to HP calcs
*Message #2 Posted by **Andrés C. Rodríguez (Argentina)** on 24 Jan 2003, 5:05 p.m.,*
in response to message #1 by Bill Wiese

It is good to state this issue cleraly as you did. I share your view 100%

Re: clarification of 'microcode' term - not really applicable to HP calcs
*Message #3 Posted by **John K. (US)** on 24 Jan 2003, 10:07 p.m.,*
in response to message #1 by Bill Wiese

Well said! And, for the most part, I agree with you. But...

> Really the only way you could regard HP instruction ROM content as microcode is if you regard regular HP RPN programming as an assembler instruction set, but that's a little too high-level for my mind: I think of HP RPN programming as a higher-level language like C or BASIC that's interpreted by a program written in assembler.

Wow. I don't think I've ever seen anyone lump C and BASIC into the same category before... :^)

At the risk of sounding pedantic (well, more so than usual, anyway), the programming "language" used in the 41-series is strikingly similar to assembly. It consists of, essentially, human-readable mnemonics which are converted directly to opcodes and data fields for storage and execution, and are "disassembled" back into mnemonics when "program" mode is entered. (Indeed, synthetic programming techniques rely on this behavior to create "synthetic" opcodes.) I'm not aware of any "high-level" language that translates to machine code as cleanly. Even a relatively low-level 3GL like C contains an awful lot of syntactic sugar compared to assembly.

In fact, the entire experience of programming a Coconut system is a lot like working in a low-level system debugger (on-the-fly dis/assembly, step execution, etc.), but with a *very* small code window around the PC. Heck, if one is *really* daring, it is even posible to perform "stupid register tricks" with the PC itself... ;^)

Re: clarification of 'microcode' term - not really applicable to HP calcs [HP41 lang HLL? assy?]
*Message #4 Posted by **Bill Wiese** on 26 Jan 2003, 6:14 a.m.,*
in response to message #3 by John K. (US)

Perhaps we're pedantic but this does merit discussion.. I'll intersperse my comments with yours... ********** Wow. I don't think I've ever seen anyone lump C and BASIC into the same category before... :^) ..... They're both 3GL procedural languages. I love, live, eat and breathe C and this was not to disparage it. BASIC tries to protect the programmer a bit more from himself (range checking, etc.) and BASIC brings some library functionality into the language (PRINT, INPUT, etc) while C as a language can be separated from library (printf(), fgets() are not truly part of C). But many more-than-minimal BASICs offer pointer access & dereferencing, varying loop types beside just FOR/NEXT, etc. Plus the concepts of allocation, as well as string handling do differ, but this is more due to heritage: C was

always compiled, while many BASICs were only interpreted.

********** the programming "language" used in the 41-series is strikingly similar to assembly. It consists of, essentially, human-readable mnemonics which are converted directly to opcodes and data fields for storage and execution, and are "disassembled" back into mnemonics when "program" mode is entered. ..... This is not really different behavior from that of a BASIC interpreter. Type in a program line in BASIC, and it will be 'tokenized' before storage: the keywords/commands will be converted to shorter symbols (bytes) and stored. These are NOT opcodes, which represent actual machine instructions. When the program (or program line range) is LISTed, these tokens are 'unwound' back into their readable textual equivalents. To actually execute a statement, dozens or hundreds of machine opcodes+operands are processed, with some of them being overhead for fetching and managing the tokenized symbols.

********** I'm not aware of any "high-level" language that translates to machine code as cleanly. Even a relatively low-level 3GL like C contains an awful lot of syntactic sugar compared to assembly. ..... Each statement in HP41C language does less, since there's no complex expressions or syntax - the most complex HP statement is something like, saym STO IND 03. Each HP statement still does quite a bit; firmware manages the operations on an abstract data type, the BCD floating point value. [True, the CPU is favorably disposed to this format and can operate on subfields of these values or combinations thereof.]

C was originally designed to replace assembly - it was supposed to be a 'faster assembly' (to write) and offer better performance than other supposedly higher-level languages of the time (FORTRAN and Algol, mostly). Many assemblers now - notably Microsoft's later MASM versions - include very useful pseudo-ops and 'structured programming' constructs like loop instructions, etc.

********** In fact, the entire experience of programming a Coconut system is a lot like working in a low-level system debugger (on-the-fly dis/assembly, step execution, etc.), ... While the analogy is broadly true, most modern HLLs include debuggers in their IDEs that allow statements to be stepped thru one line at a time, with 'watch' windows on desired variables, watching registers or memory areas as program executes, etc.

****

I'm just really saying that HP41 user language is separated enough from the machine that it's a unique HLL. User is protected from errors (range checks so no NONEXISTENT errors,

operations on values out of range such as log of a negative number, etc.) thru quite a bit of firmware. Many cycles are burned just in the fetching & managment of 41C program statements, and the user is isolated from actual machine addresses. The fact that [PACK] is required or things need to be cleaned up after [GTO][.][.] indicates that the user is not really in a system space.

. . . . . Bill Wiese San Jose, CA

Re: clarification of 'microcode' term - not really applicable to HP calcs [HP41 lang HLL? assy?]

*Message #5 Posted by **John K. (US)** on 26 Jan 2003, 8:34 a.m.,*
in response to message #4 by Bill Wiese

>> Wow. I don't think I've ever seen anyone lump C and BASIC into the same category before... :^)

> They're both 3GL procedural languages.

It was a joke; note the smiley...

This is not really different behavior from that of a BASIC interpreter. Type in a program line in BASIC, and it will be 'tokenized' before storage[.]

Well, sort of. HP 41 programs are stored in memory as binary instructions. To use your example, STO IND 03 is stored as a two bytes: 0x9183. STO 03 would be 0x33 (it's a short-form store), but 0x9103 would be functionally identical. If these are "tokens," then they're doing an awfully good impersonation of opcodes. And, from a progamming environment POV, it's pretty much a wash since it is possible to construct these codes directly (more or less) by side-stepping the instruction-to-code conversion.

> Each HP statement still does quite a bit; firmware manages the operations on an abstract data type, the BCD floating point value.

Yes, but then so do all processors that I can think of off the top of my head. It's all quite similar to CISC microprocessors, and the DEC (PDP and early VAX architectures), DG Eagle, and HP 1000 and 3000 CPUs, in a simplistic (and safer -- see below) sort of way. The only real difference (since most modern machines can handle floating-point math, if not BCD) is that the 41 determines data type by looking at the first nybble of the data, rather than relying on the instruction. Of course, such things are generally handled in microcode on the mini-computers I mentioned... ;^)

> most modern HLLs include debuggers in their IDEs that allow statements to be stepped thru one line at a time, with 'watch' windows on desired variables, watching registers or memory areas as program executes, etc.

And a grand thing it is, too! :^) But none of the ones I'm aware of will allow you to fiddle with the instructions of an executing program like my old 6800 and 68K debuggers would. It's probably a good thing that they don't, but it was kind of fun...

> The fact that [PACK] is required or things need to be cleaned up after [GTO][.][.] indicates that the user is not really in a system space.

Of course, in a system with variable-length instructions like the two I mentioned above, when a eight-byte instruction is replaced with, say, a four-byte instruction in core, it was common practice to add one or more NOPs after the new instruction to keep the offsets the same and prevent the program from getting lost in the weeds. That's pretty much how the 41 does things, though it can also insert space into the code in register-sized chunks -- something which would have been really cool in a debugger...

> I'm just really saying that HP41 user language is separated enough from the machine that it's a unique HLL. User is protected from errors (range checks so no NONEXISTENT errors, operations on values out of range such as log of a negative number, etc.) thru quite a bit of firmware.

I'm not sure that I agree that things like range checking and data validation are indicators of a HLL -- after all, C doesn't really do any of that. It will gleefully allow you to blow right past the end of an array. Indeed, when you ask it to create a pointer, it helpfully zeros it for you, and if you insist on scribbling to that address, C won't bat and eye, though your system will generally throw a few choice words in your direction afterwards. Assuming it has memory protection, of course.

Still, I see your point. But if someone were to write an assembler that was incapable of translating jump or branch instructions to arbitrary addresses (directly or indirectly), forcing the programmer to use labels, it would would be remarkably similar -- if somewhat less than useful. And there are synthetic methods to get around those protections to twiddle bits in almost any of the system registers (including the PC) as anyone who has experience a MEMORY LOST message can confirm. :^)

Re: clarification of 'microcode' term - not really applicable to HP calcs [HP41 lang HLL? assy?]

*Message #6 Posted by **Bill Wiese** on 26 Jan 2003, 4:09 p.m.,*

in response to message #5 by John K. (US)

More interspersed comments...

********** Well, sort of. HP 41 programs are stored in memory as binary instructions. To use your example, STO IND 03 is stored as a two bytes: 0x9183. STO 03 would be 0x33 (it's a short-form store), but 0x9103 would be functionally identical. If these are "tokens," then they're doing an awfully good impersonation of opcodes. ..... You can look at a token table of a BASIC interpreter. Typically, bytes with high bit set (>=$80) indicate BASIC keywords and operators. PRINT A,B could be $84 $41 $2C $42 for example. Z=PEEK(X) could be $5A $FC $9D $40 $58 $41. '=', '+', PRINT, PEEK are all tokens. (So are parentheses but simpler BASICs leave expressions as-is without rearranging or "RPN'ing" them.) Lexicals (var names, text, etc are left alone).

********** from a progamming environment POV, it's pretty much a wash since it is possible to construct these codes directly (more or less) by side-stepping the instruction-to-code conversion.

..... Yes and I can build/read a tokenized BASIC program 'by hand' in a similar fashion. (Or pick a language - there ARE C interpreters out there.)

********** (re: debuggers) And a grand thing it is, too! :^) But none of the ones I'm aware of will allow you to fiddle with the instructions of an executing program like my old 6800 and 68K debuggers would. It's probably a good thing that they don't, but it was kind of fun...

..... Oh many embedded system IDEs can let you tweak with contents of program space while executing, esp if there's a hardware emulator with dualport RAM involved for realtime use. And many CPU simulators allow you to do this too.

********** I'm not sure that I agree that things like range checking and data validation are indicators of a

HLL -- after all, C doesn't really do any of that. ..... Um they are not REQUIREMENTS of HLLs. But they rule out fundamental lowlevel use. (Even on CPUs with memory protection, a bad memory access is attempted without range testing; when the MMU barfs a seg fault error interrupt occurs.)

********** And there are synthetic methods to get around those protections to twiddle bits ..... Synthetic programming is an 'accident'. There was NO intention of ever letting users touch this stuff. I don't think HP 41 app modules used synthetics either (correct me if I'm wrong) - when they wanted performance or special features, there was HP assembler available to do things 'the right way'.

Bill Wiese San Jose

Re: clarification of 'microcode' term - not really applicable to HP calcs
*Message #7 Posted by **David Smith** on 25 Jan 2003, 12:12 p.m.,*
in response to message #1 by Bill Wiese

But then there are some references in HP documentation referring to firmware as microcode...

Re: clarification of 'microcode' term - not really applicable to HP calcs
*Message #8 Posted by **Andrés C. Rodríguez (Argentina)** on 25 Jan 2003, 5:16 p.m.,*
in response to message #7 by David Smith

I support the "microcode" = "control store" meaning. Firmware is software just recorded in a permanent manner. In my opinion, an HP41 Math Pac is firmware, although usually we keep the firmware term for machine (system) code and not for "user language" code.

If HP says firmware (even system code such as the 10-bit word ROMs) is microcode, well, it is just another mistake from a "usually" (should I say "formerly"?) respected source...

Re: clarification of 'microcode' term - not really applicable to HP calcs
*Message #9 Posted by **HrastProgrammer** on 26 Jan 2003, 2:26 a.m.,*
in response to message #8 by Andrés C. Rodríguez (Argentina)

It is so nice to be smarter than HP. If HP says 'microcode' than it is microcode. What is the problem about it?

Re: clarification of 'microcode' term - not really applicable to HP calcs
*Message #10 Posted by **Bill Wiese** on 26 Jan 2003, 6:32 a.m.,*
in response to message #9 by HrastProgrammer

*** It is so nice to be smarter than HP. If HP says 'microcode' than it is microcode. What is the problem about it? ***

HP *writers* and manual folks call it microcode. Doesn't make it correct or preferred usage, etc.

Microcode and microprogramming and control-store concepts (both fixed and writeable variants) were envisioned/ developed by Maruice Wilkes approx 40 years ago. Since then industry tradition has generally carried on the concept that microcode defined what happened inside the CPU hardware at very very very low level and was used to formulate the operation of instructions used by system & application programmers.

Since it was usu contained in ROM (in core early on, or later silicon, sometimes as a state-reduced PLA) it got confused, terminology-wise, with ordinary ROM-resident firmware. Pretty soon anything that wasn't loaded off a disk or other media and was on a chip was called (incorrectly, I insist) microcode.

Another example: your PCs ROM-BIOS is NOT microcode in general. It's just code and data that 'does stuff' on your PC. However on later Pentium PCs there's a small area (about 1K) of data in that ROM that downloads INTO the Pentium's WCS (writeable control store) buffer that has new microinstructions to fix otherwise buggy regular CPU instructions. [It is apparently possible for *some* buggy Pentium *hardware* instructions, as well as microcoded ones, to be revectored to CPU-internal-RAM-resident microcoded replacements, albeit these replacements may run slower than a correct one in hardware would.]

Bill Wiese San Jose, CA

Whither an explanation of 'microcode'?

*Message #11 Posted by **Paul Brogger** on 27 Jan 2003, 10:55 a.m.,*
in response to message #10 by Bill Wiese

Does anyone know of a site with a simple (perhaps graphic) explanation of the HLL / Assembly / Microcode/ CPU Hardware hierarchy?

I've an acquaintance who occasionally uses computer analogies to help explain behavioral concepts, and he evinced a need for an additional level of "programming" between the real hardware (presumably, what we as individuals actually have to work with) and conscious behavior (i.e., Assembly or HLL programming). I suggested that microcode might serve as a simple analogue for habit or subconscious attitudes -- things that *can* be changed, but which profoundly affect how our intent is translated into action.

So, I'd like to find a site that explains (to the "layman") microcode in its context. (Though in the absence of an instructional site embellished with graphics, only the clarification of a few acronyms would be required to let Bill Wiese's opening post suffice nicely.)

Re: Whither an explanation of 'microcode'?

*Message #12 Posted by **Bill Wiese** on 27 Jan 2003, 6:09 p.m.,*
in response to message #11 by Paul Brogger

Paul...

OK, here, I'll try again.

In general, microprocessors, when viewed by the world outside of the chip, execute 'instructions'. Each instruction only does a fairly simple task: add two or three numbers together, test one number against another, get a value from memory, store a value to memory, change program flow via a jump to a new address, call a subroutine, etc. Each instruction consists of a minimum of an 'opcode' and perhaps one or more 'operands' - values that can give more info to an opcode describing a target address, a register or registers to work on, etc. Sometimes a CPU instruction - while conceptually quite simple - may have a degree of complexity with variations like indexed+offset addressing for arrays, etc.

But something must 'tell' the CPU 'how' to do things. While it is true an adder can add, and that a memory fetch means just putting an address on the

bus and setting some control lines, there are lotsa little steps involved in doing each instruction.

The CPU has lots of units that need to be enabled or disabled for given operations, for example. These need to happen in parallel just for sanity's sake - and for speed. But a complex instruction might need to perform a couple of additions to form proper memory addresses for array indexing before an actual add or fetch or write is completed. These are serial dependencies.

So we have a collection of 'states' that are required for the CPU to do its thing. Some of these can happen all at once (parallel) and some must happen in sequence. These can be stored as bits in a wide microword or microinstruction in the CPU's microcode. Bits within this microinstruction enable/disable sections of the CPU, select the arithmetic operation to be performed, etc. If several steps that are dependent upon each other need to be performed in sequence, then several microinstructions need to be performed.

Microcode is kinda the 'DNA' of a processor. A sufficiently universal hunk of hardware could readily be a 486 or a 68000 or a PowerPC thru different microprograms. (This not cost effective now since it uses extra silicon. But a few yrs ago, Edge Computing had a chip that could run 386 or 68K code and wanted to run Mac & PC software on same machine with just one CPU. Cool but the market wasn't ready, etc.)

Microcode memory is sometimes known from the old mainframe days as 'control store': the storage of info that makes the processor behave the way it does in relation to the outside world (memory, peripherals, software, etc.)

A microcoded CPU takes an instruction and uses that to figure out where in the microcode it's supposed to execute. The microcode runs thru a few steps, the CPU does its thing, and then the microcode is ready to fetch the next instruction. The microcode/microprogram is in many ways really a smaller (well, tiny) program inside the CPU whose job it is to give the CPU its outward personality and define exactly how its instructions that are viewable to the outside world - thru applications & system programmers - operate.

Very few programmers ever touch microcode. It's burned into the CPU in its own ROM and never changes (unless CPU company releases a new processor version with update or bugfix.) [Since this ROM has some uniqueness to its patterns of 0s and 1s it can be sometimes be 'compressed' using some logic minimization techniques into a PLA (programmed logic

array). This was done for speedup in earlier minicomputer days.]

Even though what microcode does is fundamentally simple, it can be a brain-frying programming episode to write in microcode. There is much to manage inside a complex CPU and complex side-effects must be avoided (say, internal bus contentions). Tracy Kidder's book about the Data General Nova, "Soul of a New Machine" did a pretty good nontechie job of covering some issues about microcode writing.

Lately, CPUs have become complex enough that bugs creep in. Intel Pentium IIIs and above, IIRC, have some RAM area inside for a microcode update to fix any bugs in any of the CPU's instructions. This would've been expensive in earlier days of mass-market microprocessors.

Mainframes and minicomputers often had similar 'writeable control store' in addition (or instead of) ROM-based microcode. Rather than for bugfixes, this allowed really skilled programmers to create one or more special-purpose instructions to optimize an application program for speed (or even perhaps memory use). I know several later midrange & up VAXes had this feature.

Many processors now do NOT use microcode - in particular, RISC processors like Sun Sparc, ARM, MIPS, etc. RISC CPUs in general have simpler instructions than their complex 'CISC' brethren. (RISC=reduced instruction set computer, CISC=complex instruction set computer) but often take more of these instructions to do the same job as one CISC instruction. Since each instruction is simple, the opcode and operands flow straight to the CPU hardware, and results straight out. Reduced complexity in theory offers simplicity of CPU design and layout and in theory higher speed. However RISC and CISC CPU designs are merging closer to each other: late Pentiums, for example, have an internal simple blazingly fast RISC microengine for many operations. Some later Sparcs, PowerPCs, etc. have some complex hardware-assisted instructions (though they are not microcoded).

Microcode was originated 40-50yrs ago by Maurice Wilkes so there was a standardized way of describing (and then programming) a CPUs internal operation and its instruction set - rather than pulling one's hair out with random logic designs. It also - because it was small and at right at the core of the CPU - was made from expensive fast memory, which was OK because not much of it was needed (esp in relation to system memory sizes.) Using complex instructions allowed fewer instructions to do more, esp important when instructions were fetched from slow main memory: microcode memory

might've been 10X faster than main memory. (Differences are much smaller now.)

Several semiconductor companies used to sell 'bit slice' components with which one could make a custom microcoded board-level CPU. This was quite common for military, etc applications involving DSP (digital signal processing), special high-speed controllers for disk drives, etc. As regular CPU speeds soared in the 80s, DSP chips came about, etc. the need for this was vastly reduced - although people ARE still building their own custom CPUs on FPGA (field programmable gate array) chips for special applications.

Bill Wiese San Jose, CA

Re: Explanation of Microcode

*Message #13 Posted by **Paul Brogger** on 28 Jan 2003, 9:41 a.m.,*
in response to message #12 by Bill Wiese

Bill:

Thanks for the extra effort. I thought your opening post would be a good start, but I think you've just written the article I was looking for. You've outdone yourself. I'll pass on a link.

I read Kidder's book 'way back . . . Didn't the guy doing the microcode debugging sort of flip out in the midst of things, and disappear for a while? Yeah, it sounds like it can be rough!

While working for a defense contractor (~1980), I was supporting programmers working in JOVIAL on a computer described as "a ruggedized IBM 360 with indirect addressing added". I'd always assumed that the instruction set modifications were implemeted via microcode changes.

I appreciate your informed posts, and on behalf of at least one curious non-techie acquaintance, I thank you for taking the time to clarify this subject.

-- Paul B.

Re: Explanation of Microcode
*Message #14 Posted by **Wayne Brown** on 29 Jan 2003, 7:46 a.m.,*
in response to message #13 by Paul Brogger

The thing I remembered best about the microcode guy in Kidder's book was his very selective memory. He could keep thousands of lines of microcode in his head, but he had to keep his own phone number on a slip of paper in his desk because he could never remember it.

Small contribution...
*Message #15 Posted by **Andrés C. Rodríguez (Argentina)** on 28 Jan 2003, 5:37 p.m.,*
in response to message #12 by Bill Wiese

Just a small contribution to Bill's excellent posting:

Tracy Kidder's book was about the Data General Eclipse MV 8000 development, poised to compete against the DEC VAX. Its code name was Eagle.

The DG Nova 3 was a state-machine design (finite automata), the Nova 4 was a microprogrammed bit-slice design. The DG Eclipse was a microprogrammed CPU, in which the user could actually write new instructions by editing the Writable Control Store contents. It had a "microcode step" switch in the front panel (it had a panel with rocker lever switches and bit lights), to single step the microcode execution for testing and debugging purposes.

Re: I want one of those!
*Message #16 Posted by **Paul Brogger** on 29 Jan 2003, 3:42 p.m.,*
in response to message #15 by Andrés C. Rodríguez (Argentina)

That Eclipse thingie with the writeable control store and the switches and lights?

Now *that* sounds like a real machine!

Where do I get one?

(I'd like to write an HP-42s emulator for it . . . 8^)

Re: I want one of those!
*Message #17 Posted by **Andrés C. Rodríguez (Argentina)** on 29 Jan 2003, 5:39 p.m.,*
in response to message #16 by Paul Brogger

Paul: you will need a 19 inch rack to mount the Eclipse CPU in, then you can add a 10 Megabytes hard disk (5 fixed + 5 removable)... The hard disk alone weighted around 150 lb. Back to 1980 times, my first (part-time) job was with these Eclipse and Nova CPUs here in Buenos Aires...

Re: Front Panel Switches & Lights
*Message #18 Posted by **Paul Brogger** on 30 Jan 2003, 10:10 a.m.,*
in response to message #15 by Andrés C. Rodríguez (Argentina)

I started computing in a college where the students' BASIC system ran on an HP-2000 -- I think it had switches, but it **certainly** had lights!

The most up-to-date piece of software was always the idle loop -- everyone was always coming up with a new way to make the pattern of lights dance rhythmically while the CPU was otherwise not busy.

My first electronics project was assembling the school's IMSAI 8080 (S-100 Bus) computer kit. The front panel had a long row of rocker switches and red LED's. Until the disk drive was operational, we'd key in a boot program one byte at a time (address and data in binary), and then push a button to set it in motion . . . Any mistake, and we'd have a "hung" CPU, requiring a re-start and byte-by-byte debugging.

(And worse than that, it was 10 miles through the snow to get there, uphill both ways, with no shoes and nothing but a cold bagel for lunch. Those young geeks don't appreciate how difficult *real programming* was in the good ol' days . . .)

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Database
*Message #1 Posted by **Matthias** on 24 Jan 2003, 12:04 p.m.*

I would like to fix my collection in a database.. does anyone of you does this as well? Which program would you use? I think, a free configurable database would be the best...

Matthias

Re: Database
*Message #2 Posted by **Emmanuel, France** on 24 Jan 2003, 1:37 p.m.,*
in response to message #1 by Matthias

Dear Matthias, I use the HP200LX data base. Really powerful and useful. Yours.

Re: Database
*Message #3 Posted by **Christof** on 24 Jan 2003, 7:23 p.m.,*
in response to message #2 by Emmanuel, France

Just what I was going to say!

Well- my response was more like:

"Being that it's an HP focused collection, I find it appropriate that I keep the database on the best handheld fully PC compatible machine HP made. Especially since it has a decent DB built in."

-Christof

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HP-15C faceplate repair
*Message #1 Posted by **David Erdman** on 24 Jan 2003, 12:03 p.m.*

Hi. I have an HP-15C that is a bit scratched up on the faceplate. Is there anyone to fix this? I have tried model paint, paint, marker, etc. None of this seems to work well. I don't need the calculator to be in collectors conditions, but I don't want to feel shamed showing it off.

Do any users have any tricks or techniques they can offer up?

Re: HP-15C faceplate repair
*Message #2 Posted by **Bill Wiese** on 24 Jan 2003, 1:46 p.m.,*
in response to message #1 by David Erdman

Dave, Fortunately the HP10C/11C/12C/15C/16C metal faceplates are not smooth but have a bit of a 'grained' texture.

If you don't have huge gouges/dents in faceplate, try a light wire brushing - brush dragged horizontally across it. Or use a touch of moistened Bon Ami (feldspar) to buff it, followed by use of jeweler's rouge polish.

Remember to protect plastic LCD window from scratches and keyboard openings from grit.

Bill Wiese San Jose, CA

While we're on the subject...

*Message #3 Posted by **Michael Meyer** on 24 Jan 2003, 2:05 p.m.,*
in response to message #2 by Bill Wiese

I know some collectors like to keep their machines in "as-found", original condition. I, however, like to restore these calcs to "like-new" appearance.

I struggled trying to re-paint the silver trim on the original series. The paint would run, and even with a steady hand and a small brush, I'd end up with some bleeding across the rectangular edges, especially at the bottom of the calc near the label and on the "double bar" of the HP-35's. I also had trouble repairing the gold trim on the TI's and the "Texas Instruments" raised letters.

I found a pair of metallic markers at Office Depot-- gold and silver (how convenient). The markers, when held at an angle and glided over the trim, makes a great restoration... smooth, to-the-edge but not beyond, etc. Vastly better. Also, almost identical gold and silver to the originals. Not perfect, though. The paint is fairly easily rubbed off (but then easy to touch up again.)

If you make a mistake, it comes off with a little alcohol or paint thinner on a cloth.

I thought I'd post this, just in case it helps anyone else. Those markers have sure been used.... makes these calcs look great.. and when it comes to my calculators, I'm definitely a perfectionist!

Mikey

P.S. Another great tool has been the "Roper-Whitney" metal punch I bought many many years ago to turn double density 3.5" disks to HD disks. I can punch holes into the cheapest (thickest) bicycle tubes, and have endless numbers of replacement rubber feet... again, for all the calcs with round feet (Not HP).

And all of this goes smoother if you listen to 1970's rock music loud on the stereo. Works for me!

Re: HP-15C faceplate repair

*Message #4 Posted by **Vieira, Luiz C. (Brazil)** on 24 Jan 2003, 2:02 p.m.,*

in response to message #1 by David Erdman

Hi;

If the scratch is in the keyboards' faceplate, I suggest using a white-board marker (brown or black, depends on the calculator) and, if the scratch is not so deep, it "shades" it enough so we can only see it if looking at it closer. I use it.

I would like to know how to "produce" a rugged mask as the one found in the HP41 and the clamshells (18/19/28) series calculators. If you notice, these are the only series that have a keyboard with protective coat (seem to be acetate). Classics, Spices, Woodtstocks, Voyagers and Pioneers do not have it, neither 48/49 series; if there are others that have a protective coat for the keyboard, I do not know about them because I do not have others. If there is such a mask for these calculators, there would be no scratches. Look carefully at the HP41 on any clamshell: their inscriptions are protected.

I would provide a protective coat for my calcualtors, if there are any.

Sorry not helping that much. I'd keep the white-board markers, but keep in mind that alchool dissolves their coat.

Cheers.

Re: HP-15C faceplate repair

*Message #5 Posted by **Renato** on 24 Jan 2003, 3:24 p.m.,*

in response to message #1 by David Erdman

A project in my queue is to print a HP faceplate on a overhead projection transparent sheet. I would use a image from the museum and print on a inkjet. What do you think about this ? Cutting holes for the keys would be critical and tedious, so I keep delaying this project...

Re: HP-15C faceplate repair
*Message #6 Posted by **Vieira, Luiz C. (Brazil)** on 24 Jan 2003, 3:59 p.m.,*
in response to message #5 by Renato

Hi;

that's the worst part, UNLESS we have a mold...

Have you thought about it?

Re: HP-15C faceplate repair
*Message #7 Posted by **David Erdman** on 24 Jan 2003, 4:22 p.m.,*
in response to message #6 by Vieira, Luiz C. (Brazil)

If I were to goto a hardware store, what materials would I need? Like how do I cut the square holes that size?

Also, could you just photocopy your hp-15 or whatever, and use that copy as a template?

Maybe we could figure out a basic guideline or howto, and then each try their own method, and see whats best?

Just throwing out ideas....

Re: HP-15C faceplate repair
*Message #8 Posted by **David Smith** on 24 Jan 2003, 5:56 p.m.,*
in response to message #6 by Vieira, Luiz C. (Brazil)

There are some sign making places around that have laser or computer controlled razor cutters. They should be able to cut the keyboard holes with great precision. Also should be able to cut out perfect rubber feet from sheet rubber.

I don't know what kind of input they want, but suspect they could use some standard software formats (Autocad, etc). I have been wanting to try doing this for some time. The ALPS ink jet printers are known for their non-watersoluble, durable inks. I know there are places that make model airplane decals using them.

Re: HP-15C faceplate repair
*Message #9 Posted by **Renato** on 24 Jan 2003, 7:33 p.m.,*
in response to message #6 by Vieira, Luiz C. (Brazil)

Someone (if I just remembered...), sometime (sigh.. I turned 40 last year), told me that some computer print shops can produce vynil adhesive, cut according to computer output. Does anyone know about this ?

There's no need to print another faceplate, unless...
*Message #10 Posted by **Vieira, Luiz C. (Brazil)** on 24 Jan 2003, 9:36 p.m.,*
in response to message #5 by Renato

Hi;

I've been reading the posts again and I see that there are two major subjects, now:
1 - a protective, self adhesive, transparent and rugged coat, like the one that exists in the HP41 and the clamshells, to be placed over a keyboard faceplate and
2 - a new, reprinted, self-adhesive keyboard faceplate.

What worries me a bit is the second option. These kbd faceplates' replacements would look like the HP41's keyboard overlays, already existing as standard, clear (no functions printed) and custom, as the ones that come with some modules (Time Functions, Math, Financial, etc.). This type of kbd protective coat would demand a more elaborated project, with specific faceplates for each calculator instead of each family. Costs would be "higher".

The "transparent" protective coat would exist in one type for each family (Voyagers, Pioneers, etc.) and there are two situations we should think about:
1 - damaged/scratched keyboard faceplate - in this case, the first "custom" type would be a better choice UNLESS the original faceplate is restored somehow; and
2 - how to put this protective coat without any trouble, I mean, I (we) expect this transparent coat has a transparent, resistant glue, and maybe there will be no option to remove and place it again without destroying original painting.

I'm posting this because I thought (as many of you, maybe) that all HP calculators should have protected kbd faceplates, as the HP41 has. My first HP calculator was an HP41C and I remember I noticed the kbd had a protective coat a few days after using it, when I took my old, broken TI57.

As we are all delving into the same problem, let's consider both coat types: one just to protect existing, clear faceplates and another, already painted, to cover damaged kbd faceplates.

I have an HP15C and I removed (no visible damage) the keyboard faceplate. It's somewhat easy to scan it at high resolution with a white backplane. Do you want this to be done?

I'll be reading this thread for answers, arguments, comments, etc.

Success.

I've made 71B overlays for years....
*Message #11 Posted by **Michael Meyer** on 24 Jan 2003, 10:39 p.m.,*
in response to message #10 by Vieira, Luiz C. (Brazil)

Don't know if this helps, but I've scanned blank 71B overlays, printed them on a laser printer and then cut the keys out. I've laid a straight-edge over the tops, bottoms, and sides of each row, and then cut the holes with a scalpel. Using a graphics program, I can print whatever I want over the keys. Cutting the little diagnonal sides of the keys is the time-consuming and tricky part.

Spraying a clear-coat would be much tougher, of course. In the Woodstocks and others, you'd have to disassemble the keyboard or block each key hole from filling with any enamel or polyurethane spray.

I like the idea of a vinyl, adhesive overlay. Could be made to look just like the original.

Michael

Re: There's no need to print another faceplate, unless...
*Message #12 Posted by **David Erdman** on 24 Jan 2003, 10:49 p.m.,*
in response to message #10 by Vieira, Luiz C. (Brazil)

That would be a good first step. Perhaps next we could try to find a place that could cut either Polypropylene, Polycarbonate, acetate (which is better???) plates, and another who could print the labels etc to the plate.

I think we need to find a place that will do a relatively small number of plates <50 <100? depending on the need. Google.com brings up a few vendors such as http://www.laserexcel.com/paper/index.html http://www.precision-laser.com (I have emailed them asking for a quote)

If anyone out there knows of a good shop, please let us know. You can also email me at david@erdius.net if you want to discuss off list.

Re: There's no need to print another faceplate, unless...
*Message #13 Posted by **Vieira, Luiz C. (Brazil)** on 25 Jan 2003, 9:59 a.m.,*
in response to message #12 by David Erdman

Hi;

about this:

(...)*"Polypropylene, Polycarbonate, acetate (which is better???)"*

I'd bet the one that has less electrostatic relation, meanning the one that will not affect the calculator's circuitry. I mentioned acetate as the protective coat over the HP41's keyboard faceplate in previous post, but now I must mention I do not believe it's acetate, because acetate is a lot susceptible to maintain electrostatic charge. If I am not wrong, Polycarbonate is the best material in this case. I do not know about durability weather resistance.

Cheers.

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Speed on the 41 family
*Message #1 Posted by **Silvio** on 23 Jan 2003, 11:44 p.m.*

Hi all…

I was playing with a 41C, CV and CX, and wrote a trivial program to test the speed of the machines.

1000 LBL 01 DSE X GTO 01

The 41C finished in 1min 31secs. The 41CV finished in 1min 36secs. The 41CX finished in 1min 33secs.

Does anyone know if this is the correct behavior? Is the 41C the fastest machine?

I used the same battery pack on all machines, so battery charge should not be a factor. I don't know if it is relevant, but the serial numbers are: 41C - 2241B10840 41CV – 2552S21053 41CX – 2819S21707

Any ideas?

Also, I would like to publicly thank Luiz Vieira for resurrecting my old 41C. I really appreciate that my friend!

Silvio

Re: Speed on the 41 family

*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 24 Jan 2003, 12:29 a.m.,*
in response to message #1 by Silvio

Hey, Silvio; my pleasure!

Thank you for the kind acknowledge. This is gold... I must confess that when I saw your post, my first intent was to ask if you and your wife had a nice trip back to USA and about that babe; good news, indeed!

Just a question: are all of these 41 the same type? Full or half nut? I know that the 41C you sent me is a fullnut type, but the others share the same architecture?

Also, if you run a program the first time and it has GTO or XEQ to "short-" or "long'-"term LBL (2 or three bytes), it's gonna be a lot slower than the next executions because the 41's O.S. will compute the number of bytes necessary to "jump", forward or backwards, in the first GTO/XEB occurrence. This does not happen with XEQ"ROMfunction". And if you pack the calculator memory, all the process is repeated.

I have not felt significant difference from any of the HP's (C/CV/CX), but I guess the CX MAY (just a guess) be slower because of the internal circuitry. Also we must consider that the HP41CV has more memory space and more circuitry than the 41C. But based in your measurements, the 41CV is even slower than the 41CX.

The last argue: what modules were installed in the calculators, if any?

I have some knowledge about HW, and loosing clock cycles is a potential cause of crash in clock dependant devices, mostly earlier architectures, and this fact leads me to believe the only reason for the difference is an acceptable "range" (2 to 5%) in component values, causing a slightly different clock for each machine. You may measure two 41C's running time and find different values.

A few weeks ago my HP41CX scared me a lot, but I believe it's just a matter of failure in the batteries' contacts. I believe that sort of "bad behavior" will only be observed in an HP41CX or an HP41 with a time module.

BTW, would you help me finding an HP41CX, fullnut type? If you believe you can, please, e-mail me.

Grande abraço! (let's say it's a version of a closer "Cheers!")

Luiz C. Vieira

Re: Speed on the 41 family
*Message #3 Posted by **Daniel Diggelmann** on 24 Jan 2003, 4:16 a.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

Luiz is right that the execution speed is varying according to installed ROM modules and compiling GOTOs etc. But most likely you get variations because the clock circuitry is using an L-C oscillator rather than a precise quartz. And those L-C components have large tolerances.

Re: Speed on the 41 family
*Message #4 Posted by **Andreas Müller(GER)** on 24 Jan 2003, 5:09 a.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

Hi Silvio,

Luiz is right as he states the component's tolerances as the responsible factor for the deviation of between 5% to 6%. AFAIK the inductor has a tolerance of 10%. So,the deviation is fully OK. Regards, Andreas

Re: Speed on the 41 family
*Message #5 Posted by **Guillermo Castarés** on 24 Jan 2003, 7:39 a.m.,*
in response to message #4 by Andreas Müller(GER)

I remember some guys in the University that changed the resistor to get the HP-41C/V/X run faster.

Guillermo

Re: Speed on the 41 family
*Message #6 Posted by **Daniel Diggelmann** on 24 Jan 2003, 8:29 a.m.,*
in response to message #5 by Guillermo Castarés

Actually they lowered the capacitance of the L-C oscillator. One could also change the inductance but those aren't easy to find. If you like it switchable you can solder in a smaller C and another one switched in parallel to get the original C value. Cparallel = C1 + C2. As switches you may choose a microdip (needs mech works on the case) or a reed relais (operated with an little external magnet / keep away from magnetic cards!).

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HP 200LX Memory
*Message #1 Posted by **Larry Stipe** on 23 Jan 2003, 10:00 p.m.*

Just replaced my disfunctional (bad screen)HP 200LX 2mb RAM with one that only has 1mb RAM. Can I replace the 1mb card with the 2mb card? They appear to be pin compatible, but not sure if the firm ware can handle the added memory. Thanks for any help, Larry

Re: HP 200LX Memory
*Message #2 Posted by **Katie Wasserman** on 24 Jan 2003, 12:29 a.m.,*
in response to message #1 by Larry Stipe

The short answer is 'yes' the firmware can handle lots of memory and there are memory upgrade kits sold. I'm curious as to this "memory board" I thought that both the 1MB and the 2MB version of the 200LX had the memory soldered onto the motherboard. The upgrade kits add a daughter board and will allow up to 6 or 8 MB. Beyond that there is a service that will upgrade memory for you when you send them your palmtop.

Much, much more on this can be found here: http://www.palmtoppaper.com/store/asp/product.asp?product=72

Re: HP 200LX Memory
*Message #3 Posted by **Christof** on 24 Jan 2003, 12:47 a.m.,*
in response to message #2 by Katie Wasserman

IIRC, some of the models had 1meg onboard and a 1meg daughtercard.

personally, I'm looking for clear instructions on how to pop mine up to 8 meg.

Re: HP 200LX Memory
*Message #4 Posted by **Mike (Stgt)** on 24 Jan 2003, 10:22 a.m.,*
in response to message #1 by Larry Stipe

Just swap the whole motherbord from the bad screen LX to the other. Should work w/o problem. For details start here: http://www.daniel-hertrich.de/index_pt.shtml

Ciao.....Mike (on the way to a Palmtop User Meeting, 1730 CET this evening in Waiblingen, Hotel Koch)

Re: HP 200LX Memory
*Message #5 Posted by **Dave Huff** on 30 Jan 2003, 2:10 a.m.,*
in response to message #1 by Larry Stipe

I've got an old 200LX and if you get the PCMCIA card adpater from radio shack for $15 or so you can take advantage of the compact flash card technology---64MB digital camera medium adds a 64MB drive "a" to your 200LX. WOW!

Re: HP 200LX Memory
*Message #6 Posted by **Mike (Stgt)** on 3 Feb 2003, 11:07 a.m.,*
in response to message #5 by Dave Huff

I use a 128MB CF on my LX and it's to small. But I do all my eMails with it.

Ciao.....Mike

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HP-27S needs helps !
*Message #1 Posted by **Pyerre** on 23 Jan 2003, 1:22 p.m.*

Hello, This is a non working HP-27S (s/n 2820A02945).

- The case has been opened by someone before and the display does not properly get in contact with the PCB anymore. I have to firmly press the PCB against the LCD display (and with force) to make it shows something like "MEMORY LOST" on power up (which is normal with new batteries inserted)... Even with a small block of foam installed between the PCB and the back case can't give a satisfied result.

- About the serial number : The first (left-most) four digits date code are 2820(HP-22S) ... not the 2749 for HP-27S ?

Any ideas ? Thanks

Re: HP-27S needs helps !
*Message #2 Posted by **Raymond Del Tondo (Germany)** on 23 Jan 2003, 7:48 p.m.,*
in response to message #1 by Pyerre

Hi,

I can't help regarding the hardware, but a note about the date code: > 2820(HP-22S) ... not the 2749 for HP-27S ? > The first four digits have the format YYWW, where Year of production = 1960+YY, and calendar week of production = WW .

See also http://www.hpmuseum.org/collect.htm#numbers

Regards,

Raymond

Re: HP-27S needs helps !
*Message #3 Posted by **Randy Sloyer** on 24 Jan 2003, 10:31 a.m.,*
in response to message #1 by Pyerre

If it has been disassembled before, it is possible that the circuit board was not fully compressed onto the rubber zebra lcd strips before the twist tabs where turned, resulting in loose connections and missing lcd pixels. Or, one other possibility is that the zebra strips had been removed, then reinstalled upside down.

I would disassemble and carefully clean the zebra strips and lcd contacts with isopropyl alcohol, then reassemble. The zebra strips should be blue/black on older machines, white/black on newer ones. The black sides face the center of the lcd.

Straighten the tabs so the pc board drops on, center the board on the tabs and press in the center between the top and bottom row of tabs, then re-twist to seat. I always use this order for the tab re-twist:

Bottom left - Bottom right -Top center Top left - Top right - Bottom center

The order is important since the bottom left and right side tabs have small nubs that center the circuit board on the frame. Always press on the pc board below the tab you are seating.

Just be careful with the six twist-tabs. You'll only get about 5 or 6 tries before they fracture.

Good Luck

Re: HP-27S needs helps !
*Message #4 Posted by **Pyerre** on 24 Jan 2003, 7:54 p.m.,*
in response to message #3 by Randy Sloyer

Hi, Following instructions, I've carefully cleaned the zebra strips and the LCD contacts with isopropyl, put them back together & re-twisted the tabs with force.

Since the contacts of the three top twist tabs (used for ground connections) were not adequate made in touch with the PCB pads ... I have to add a wire directly from the battery (-) and the PCB pads where appropriate.

Powered it up & amazing, it works !

Even not a programmable, this is a wonderful algebraic calculator I've ever seen. A real

keeper.

Why they did not make this calc again ? :-(

Many thanks for all of helps,

Pyerre

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Now it's official: HP has issued a Press Release on the 9G and 9S.
*Message #1 Posted by **Michael O. Tjebben** on 23 Jan 2003, 11:13 a.m.*

http://biz.yahoo.com/bw/030123/230090_1.html

...and announces plans for further RPN!
*Message #2 Posted by **Michael O. Tjebben** on 23 Jan 2003, 11:21 a.m.,*
in response to message #1 by Michael O. Tjebben

I cannot believe I failed to mention that the release talks about additional RPN calculators!

Re: ...and announces plans for further RPN!
*Message #3 Posted by **Bill Wiese** on 23 Jan 2003, 2:23 p.m.,*
in response to message #2 by Michael O. Tjebben

Folks, Disappointed.

I have gone thru the HP9S & -G spec sheets. Nowhere is RPN mentioned. 9S is algebraic, and although 9G has an 'ENTER' key, it is probably just a line-end <RETURN> key for algebraic statements.

Furthermore, even if with RPN, **I WANT A WIDE-ASSED ENTER KEY, DAMMIT!** (Sorry, folks.)

I DO note the detailed spec sheet says HP9G uses an SPLB30A CPU, which is a 6502 derivative from Sunplus in Taiwan. It does allow serial SRAM to be interfaced so perhaps memory can be expanded. 2.7KRAM, 96K ROM. (Apparently mask ROM not EPROM/flash). This CPU is designed for personal databank applications (like small Sharp Wizard things). See:

http://www.sunplus.com.tw/products/htdoc/lcd/splb/lb30av03.htm

The cheaper HP9S uses a 'KI1724A' CPU. No docs around; this is prob from Kinpo in Taiwan, I'm guessing.

Given that two calcs use different CPUs & firmware trees, it'd be interesting to do math accuracy comparisons between the two.

Bill Wiese San Jose, CA

The HP9G is at:

http://www.shopping.hp.com/cgi-bin/hpdirect/shopping/scripts/product_detail/product_detail_view.jsp?BV_SessionID=@@@@0408127915.1043348865@@@@&BV_EngineID=ccdcadchggeiigjcfngcfkmdfondfgg.0&product_code=F2222A%23ABA&cat_level=3

and the cheaper HP9S is at:

http://www.shopping.hp.com/cgi-bin/hpdirect/shopping/scripts/product_detail/product_detail_view.jsp?BV_SessionID=@@@@0408127915.1043348865@@@@&BV_EngineID=ccdcadchggeiigjcfngcfkmdfondfgg.0&product_code=F2212A%23ABA&cat_level=2

I'll believe it when I see it
*Message #4 Posted by **Wayne Brown** on 24 Jan 2003, 7:34 a.m.,*
in response to message #2 by Michael O. Tjebben

It's nice to think that RPN has a future at HP; but at this point, if HP told me the sky was blue, I'd want it in writing -- notarized -- and even then I wouldn't rely on it.

Re: ...and announces plans for further RPN!
*Message #5 Posted by **hugh** on 24 Jan 2003, 10:45 a.m.,*
in response to message #2 by Michael O. Tjebben

the spec says 24 digit internal precision. this is the same as the 30S. does anyone know if the 30s has the same cpu? i found the 30s accuracy to be excellent. interestingly square root was less accurate than anything else, roots by taking logs beat it!

although for $50, they should improve the physical package. the 30s is almost unusable the buttons are so bad, but its cheap.

CPU's and Precision

*Message #6 Posted by **Joerg Woerner** on 24 Jan 2003, 11:57 a.m.,*

in response to message #5 by hugh

Dozens of years ago most calculator manufacturers purchased "calculator IC's" with preprogrammed algorithm. Think about the Texas Instruments TMS0100 family used in most four bangers or the Mostek MK50075 used with two ROM's in a lot of RPN-calculators. That time accuracy of calculators depended indeed from the choosen CPU and/or ROM.

But this is history !

Today you choose the CPU for a calculator the other way:

How many LCD-segments dots do I need ?

How many RAM for variables and/or program steps ?

How many ROM for operating system and algorithm ?

How big is the chip, is chip-on-board possible ?

Power supply ? 1.5V for solar calculators, 3V for battery operated.

Power consumpion vs. speed: Low and slow for solar, high and fast for battery operated.

That's why the HP9G uses a totally different CPU compared to the HP30S. The HP9G needs much more LCD-drivers and ROM.

Nevertheless, the algorithm / precision COULD be the same because the calculator is nothing else than a cake of software compiled for the choosen CPU. Most of the source would probably be C-code, some algorithm might be optimized assembler code (what I don't expect).

Don't think about all the Sunplus, Samsung... CPU designation. These are just 10% CPU core, remaining space is RAM, ROM and LCD-drivers. C language doesn't know the difference between a 6502, 8051, any-RISC. The CPU core is just an array of registers with some arithmetic... capability. We don't speak about 56bit registers of a Saturn or 52bit in a TMC0501. We speak about an array of 24 binary coded decimal memory cells put anywhere in the 2kByte RAM of the CPU. For the programmer just a pointer to an array...

Hope this email helps to avoid the confusion between CPU and PRECISION in modern calculators.

Regards, Joerg

Re: CPU's and Precision

*Message #7 Posted by **Bill Wiese** on 24 Jan 2003, 3:49 p.m.,*

in response to message #6 by Joerg Woerner

Joerg's right... HP's orig calc architecture took place at a time when memory space and transistor count was at a premium. Thus, we had a serial architecture, with instructions optimized for BCD floating-point arithmetic. Keyboard/display scanning was hardware-assisted so as not to burn up ROM code. IIRC, the whole HP35 took 1Kx10bit words of code, which is pretty phenonmenal, and the main CPU took 3000 transistors.

Nowaday, for low-cost products, mask ROM memory is cheap. (RAM does take a bit more area.) So any old 8-bit CPU will work, and even the overhead for using compiled code is tolerable. And speed is not an issue either for a hand calcuator, so selection of which CPU to use is largely by price and I/O/peripheral capabilities, as well as available tools (compiler, debugger, hardware/ software emulators).

On orig HP architectures, the hardware design, memory layout, registers, etc. was oriented around 56 bit BCD floating point values. It would be hard to do (or take quite a bit of extra coding), say, 14-digit mantissa BCD math on a Coconut architecture CPU. Saturns were widened to handle more precision & dynamic range.

On a byte-oriented processor, this isn't an issue, which is why you see some HP calcs w/24-digit precision.

(I really wonder about internal algorithms, accuracy, etc. though on these cheap calcs. Just because XxY is good to 24 digits doesn't mean the transcendentals are - or that exp(ln(x) = x doesn't mean that exp(x) and ln(x) are indeed that accurate: they could actually have symmetric defects.

I'll have to run the 30S against Maple results.

Bill Wiese San Jose, CA

Re: CPU's and Precision
*Message #8 Posted by **Chris Catotti (Florida)** on 24 Jan 2003, 5:52 p.m.,*
in response to message #7 by Bill Wiese

I called an HP Representative a couple of weeks ago, using his phone number listed on the Web (somewhere) that I got by following a link from an HP Museum posting in the forum.

I recall that he said that the new calculator line would be dual mode (RPN/AOS). He was very interested in wheter my interest was primarily business or science/engineering.

He was cautious that this was the "plan" and we would all see if it came to be. I asked him to please post anything that he could release to the HP Museum.

Re: CPU's and Precision
*Message #9 Posted by **Bill Wiese** on 24 Jan 2003, 7:44 p.m.,*
in response to message #8 by Chris Catotti (Florida)

Chris...

Marketing droids are always 'interested' in everything. S/he may not even know what RPN is! The new HP9G has specs listed under "Entry system logic:" as "Algebraic, or HP Basic". He may be confusing that with RPN+AOS.

Bill Wiese San Jose, CA

>called an HP Representative a couple of weeks ago, using >his phone number listed on the Web (somewhere) that I got >by following a link from an HP Museum posting in the >forum. >I recall that he said that the new calculator line would >be dual mode (RPN/AOS). He was very interested in wheter >my interest was primarily business or science/engineering. >He was cautious that this was the "plan" and we would all >see if it came to be. I asked him to please post anything >that he could release to the HP Museum.

Re: CPU's and Precision
*Message #10 Posted by **hugh** on 25 Jan 2003, 9:38 a.m.,*
in response to message #7 by Bill Wiese

your explanations makes sense. what started to interest me wrt cpus and precision is that now that the cpu itself is less relevant, the ip is essentially a virtual calculator, ie the software. so, you would expect to see pretty much the same answers to calculations where those functions are provided on models. but this is not the case.

you guys might be able to correct me here, because perhaps its not a pure virtual implementation. maybe it depends on certain hardware feature availability. like floating point?

the 30s is interesting because it definitely calculates in binary, which was a surprise. your point about symmetric defects is valid, however i have already checked to find it yields at least 20 correct decimal digits (except for square root!) on all scientific functions.

so now im thinking is this new 24 digit implementation to be standard on new machines eg 9g?

Re: Now it's official: HP has issued a Press Release on the 9G and 9S.
*Message #11 Posted by **Bill Hemphill** on 23 Jan 2003, 11:50 a.m.,*
in response to message #1 by Michael O. Tjebben

Just took a look at the Detailed Spec Sheet for the 9G. It Lists Program Memory: 400 Bytes. "Up to 10 paragraphs of program."

I'm just wondering - what's a "paragraph of program"??

Re: Now it's official: HP has issued a Press Release on the 9G and 9S.
*Message #12 Posted by **Ellis Easley** on 25 Jan 2003, 3:54 p.m.,*
in response to message #11 by Bill Hemphill

Maybe a paragraph in program memory is an individual program.

Good news but...
*Message #13 Posted by **Tom (UK)** on 23 Jan 2003, 12:48 p.m.,*
in response to message #1 by Michael O. Tjebben

Good news, and what I want to hear from HP. However I don't want to be too negative but read lower down where it says:

"This news release contains forward-looking statements that involve risks, uncertainties and assumptions. All statements other than statements of historical fact are statements that could be deemed forward-looking statements. Risks, uncertainties and assumptions include the possibility that the market for the sale of certain products and services may not develop as expected; that development and performance of these products and services may not proceed as planned;"

I know this is a legal disclaimer but we will have to wait and see what happens with RPN.

Re: Good news but...
*Message #14 Posted by **Steve (KY USA)** on 23 Jan 2003, 1:01 p.m.,*
in response to message #13 by Tom (UK)

Are these two models new?

I just hope they keep with tradition and keep the quality up!

Right now i am cautiously optomistic.

:-)
*Message #15 Posted by **Mike** on 23 Jan 2003, 1:04 p.m.,*
in response to message #14 by Steve (KY USA)

The business model for all companies is not "keeping quality up," it's "keeping cost down."

Re: :-)
*Message #16 Posted by **Steve (KY USA)** on 23 Jan 2003, 1:16 p.m.,*
in response to message #15 by Mike

Oh Yeah, I forgort for a split second there I lost my head but unfortunatly I woke up and realized its a new hp.

one can always hope!

Re: Good news but...
*Message #17 Posted by **David Smith** on 23 Jan 2003, 1:37 p.m.,*
in response to message #14 by Steve (KY USA)

Earlier posts indicated that these machines are just rebranded machines built by Casio.

Re: Good news but...
*Message #18 Posted by **Christof** on 23 Jan 2003, 4:10 p.m.,*
in response to message #14 by Steve (KY USA)

If these are built like the modern 30S (they look to be) then I can say they are better than no name drugstore calcs. hard plastic keys with some feel (nothing like a 41C, or even a late production pioneer) but nothing special. about the same quality as the lower end casio pocketables.

The case on the 30S is really really slim, this is nice. The LCD is pretty readable. Gone are slipcovers and lowered profile glass fronted LCDs. it's plastic and molded right with the rest of the body- easy to scratch, but attractive.

not bad- especially in modern terms, but not great.

At this point in history you'd expect to be able to get something built like this and within this price range to host at least 4KB!

Re: Good news but... (reply to Christof!)
*Message #19 Posted by **Bill Wiese** on 23 Jan 2003, 7:15 p.m.,*
in response to message #18 by Christof

Christof..

[Christof wrote:] > (snip...) At this point in history you'd expect to > be able to get something built like this and within > this price range to host at least 4KB!

The HP9G higher end calc chip from Sunplus has the ability to interface with external *serial* RAM. (This may have similar interface to the common 24CXX I2C serial EEPROMs used for PCI configuration, or the 93CXX Microwire serial EEPROMs or perhaps the Philips serial RAM.)

However, the firmware may not know how to deal with any extra RAM if installed.

Margins are REAL thin on products in this price range: a $48 calc is gonna be sold to the retailer for $23-$28 (depends on volume, co-op advertising, support, etc.) HP is going thru a distributor, so they're prob getting $5-$6 in the middle of the deal. So all HP is

gonna see is around $19-$21 for this calc: they have to have nice packaging, 800# support, advertising, etc. Not much left over for silicon!

Bill

Re: Good news but... (reply to Christof!)
*Message #20 Posted by **Christof** on 23 Jan 2003, 9:43 p.m.,*
in response to message #19 by Bill Wiese

and taxes... and tariffs...and.... well. :)

granted, it's hard to justify less profit simply to give the user more power when they've been trained to not want or be able to use it.

the notion that one could not produce and sell a $50 (or even $65) functional equivalent of the 42 - given the inexpensive packaging now used.... I dunno, it seems bizarre. your numbers make sense, though.

Re: Good news but... [this is just boilerplate legalese at bottom of announcement]
*Message #21 Posted by **Bill Wiese** on 23 Jan 2003, 2:06 p.m.,*
in response to message #13 by Tom (UK)

The PR announcement indeed states:

"This news release contains forward-looking statements that involve risks, uncertainties and assumptions... {SNIP}... that development and performance of these products and services may not proceed as planned;"

This is boilerplate text put in just about all of HP's PR announcments for any device, platform, etc. It's just there to stop lawsuits ("Hey, you promised to come out with an upgrade for the HP3000 and I based my planning on that").

This text was not included to indicate that the HP9 was on shaky ground - the HP9 series status is whatever it is with or without this legalese.

If they've gone this far though, to announce, etc. it WILL come out - there's a contractual relationship with Citizen (? - not Casio, I believe) that'd have to be broken, with repurcussions, to stop this.

Bill Wiese San Jose, CA

Re: Good news but...
*Message #22 Posted by **Tom (UK)** on 23 Jan 2003, 2:26 p.m.,*
in response to message #21 by Bill Wiese

Sorry, I meant the future of RPN being in question, not the HP9S/G.

Re: Good news but...
*Message #23 Posted by **GE (France)** on 24 Jan 2003, 3:35 a.m.,*
in response to message #22 by Tom (UK)

While searching for the new models (to test, not to buy), I came to talk about them with a long-time reseller and support of HP products. She said that she was seeing no interest in carrying this line of c*ap, sub-HP-standard calculators, since they retail for too low a price to justify quality support and advice at the point of sell. She'll probably take it in the end due to popular demand (??), but reluctantly. Everybody is already aware of the fact that this is supermarket, blister-pack, stop-gap products. The 6/6S, 30S and even 10BII were disposable products and I think we're heading in the wrong direction. Maybe in 2004 ? Waiting...

Re: Now it's official: HP has issued a Press Release on the 9G and 9S.
*Message #24 Posted by **Frank** on 24 Jan 2003, 11:44 a.m.,*
in response to message #1 by Michael O. Tjebben

It's interesting to note the 2 market segments HP sees. Education (perhaps Low end and Graphic and Business?) and Business (perhaps Business and Scientific, including Graphic.?) Perhaps they will further differentiate models in features. Some user categories span both, such as "professional user" high end educational and business user.

calc market segmentation comments..
*Message #25 Posted by **Bill Wiese** on 24 Jan 2003, 1:43 p.m.,*
in response to message #24 by Frank

Yeah, for HP a 'biz' calc just means TVM stuff, annuities, etc. They think that the professional & educational markets overlap. Perhaps to some extent they do, but I'd never use a 48 or 49 for a tough problem: I've got a PC w/Matlab, Excel, etc. A 42S or 41C kind of calc is the be-all/end-all for me: lets me fidget with numbers wherever I am.

I do NOT enjoy PalmPilot/WinCE palmtops: I want a REAL keyboard. (Sadly, today's calcs really don't have REAL keyboards.)

I do enjoy the new HP10B-II style/formfactor and keytop style. Wish the KB were better but it's liveable and no worse than 30S, etc. I'd live with a 42S-variant in that package.

I'd REALLY like a Woodstock w/backlit LCD :)

Bill Wiese San Jose, CA

[Frank Knight wrote:] interesting to note the 2 market segments HP sees. Education (perhaps Low end and Graphic and Business?) and Business (perhaps Business and Scientific, including Graphic.?) Perhaps they will further differentiate models in features. Some user categories span both, such as "professional user" high end educational and business user.

Re: calc market segmentation comments..
*Message #26 Posted by **Christof** on 24 Jan 2003, 7:15 p.m.,*
in response to message #25 by Bill Wiese

It's interesting to look at the way the market is perceived. I've seen a lot of leanings towards a "business educational" market- with less expensive calculators programmed to do some financial calculations.

the broader educational market space is filled with- quite honestly- gadget marketing. why someone hasn't put out a fully palmOS compatible machine with a keyboard in the size/shape of a ti89/hp48 is beyond me. (unless it is because most people and teachers don't really pay attention to the cheat sheet/note taking/ programmability factors of the 48s and 89s. I know most students are totally clueless about programming. and I've used my 42s on a "no programmables" test because the prof *knew* that nothing that size was programmable.)

and yeah- this harkens back to the cancleed wundercalc- but palm and wince are different enough that I think there's room for some *major* implementation and usability differences.

But there is no perceived high end business/professional market anymore? No room for an update (or combination of- there IS room in the case for it) to the 17 or 42? no perceived market for a $150 pocket programmable with real utility (and serial IO)?

That is the omission that boggles me. I can't blame TI- they never did grasp the concept of easy, "in the field" programming. And HP went just a bit (no puns) too far (IMO) with RPL.

I don't want another belly flop like the 49G ended up being. I also don't want to be limited to a 9G with no way for me to collect field stats, dig, or nav data and pipe it to a computer as ascii.

ah well, preaching to the choir- or a canonical college in this case.

Re: calculator cheat sheets
*Message #27 Posted by **Paul Brogger** on 30 Jan 2003, 9:54 a.m.,*
in response to message #26 by Christof

I suppose it's just a matter of time before some enterprising geek slides a fully-loaded PDA into a TI-30x (or whatever) case, runs a minimal emulator to convince the test monitor of its off-the-shelf behavior, and uses chording or an escape sequence to access the whole freakin' CRC handbook, a credible encyclopedia, *and* a symbolic math/calculus package . . .

And if (s)he pulls it off, kudos for resourcefulness!

100% real HP calculators ?
*Message #28 Posted by **Pyerre** on 24 Jan 2003, 7:17 p.m.,*
in response to message #1 by Michael O. Tjebben

Sounds like Citizen to me ! They may have the same manufacturer.

9G --> Citizen SRP-325P http://www.jcbm.co.jp/eng/consumer/calc/cpdf/srp325g.pdf

9S --> Citizen SG-2 http://www.kinpo.com.tw/English/Calculator.htm

Re: 100% real HP calculators ?
*Message #29 Posted by **Daniel Diggelmann** on 25 Jan 2003, 3:40 a.m.,*
in response to message #28 by Pyerre

I looked at the CITIZEN calcs and yes they seem coming from the same kitchen. Hey folks that's not what we really want. We want HP to make the best calcs of the world and in RPN - nothing else. Most of us are ready to pay for the quality. It just makes me angry if I see HP selling such low end stuff which has no quality, bad keys, bad manuals and no RPN. I'm not sure whether they will gain on the market this way and produce better calcs in the future. Although I'd love to see HP come back to this road. They could definitely make more $$$ if they'd reproduced let's say 11C;42S;32SII. These formfactors and keys are excellent. They could have tried to cut productions costs on these calcs and sell them cheaper and people would sill buy. But maybe I'm wrong and too much of a HP freak of ol' days.

Re: 100% real HP calculators ?
*Message #30 Posted by **Frank** on 27 Jan 2003, 12:54 p.m.,*
in response to message #29 by Daniel Diggelmann

Unfortunately for us old (OK, middle age) used to be manufacturing types, the make or buy decision is often "buy" and off-shore often these days in the US, I started working with International sourcing in the early 80's very early in my career and it's done noting but grown substantially since. Does make one wonder what true value added is in this world economy, and which of ideas vs goods vs. Natural resources create more value for countries over the long haul.

Re: 100% real HP calculators ?
*Message #31 Posted by **Robert** on 29 Jan 2003, 10:58 p.m.,*
in response to message #28 by Pyerre

It appears that the 9g is the SRP-400G.

see page 4 of this pdf: http://www.jcbm.co.jp/eng/consumer/calc/cpdf/npctlg0101.pdf

RPN Scientific calculators in '03
*Message #32 Posted by **Bruce** on 1 Feb 2003, 5:16 a.m.,*
in response to message #28 by Pyerre

On 31Jan03 HP Support told me on the phone that they have plans to release RPN Scientific calculators "later this year". I asked for some details but none were forthcoming. But I was assured that HP has RPN Scientific calculators in the works and was told to keep an eye on their press releases. I hope this is true.

Re: RPN Scientific calculators in '03
*Message #33 Posted by **Venancio Castañon** on 4 Feb 2003, 7:01 a.m.,*
in response to message #32 by Bruce

I've a HP-100LX, and is giving problems to me. I live in Spain. I would like to know if you have some people here to check it.

Otherwise, I would know if HP AFTER THE FUSION with Compaq will sell a PDA WITH RPN calculator.

Thank you in advance for your attention to this matter.

Sincerely,

VENANCIO CASTAÑON.

Re: RPN Scientific calculators in '03

*Message #34 Posted by **Bruce Layne** on 6 Feb 2003, 11:37 a.m.,*

in response to message #32 by Bruce

There have been rumors of new RPN calculators coming from HP soon. Here is some confirmation of those rumors.

My email to HP: How about a low cost RPN scientific calculator? The new 9S looks good, but apparently the ENTER key is actually an EQUALS key, and it's an algebraic operating system calculator. My HP 11 and 32SIIs are now collector's items. If people are paying almost $300 for a blister pack, mass marketed 32SII on eBay, you must know there is a decent market for a small RPN calculator.

The HP response: We do have calculators in development that are scheduled for sometime this year. Unfortunately, we do not have specifics on what they will be. However, we were told some of them will be RPN. In addition, we did let the engineers know that the 32sii was a very popular calculator. Sincerely, Alex HP Consumer e-Support

I suspect the new RPN calculators will be targeted to a more affluent market than the HP 9S, currently selling for $11.99 on the HP website and obviously marketed to students in grades 7-12. Other than the algebraic operating system, it does everything I want.

I'd like four RPN calculators - desk, electronics workbench, toolbox, and plane. Would you guys please stop collecting these calculators, so I can actually afford to use them? :^)

BTW - I just bought a new HP ze5185 notebook computer. Very nice. I didn't like its operating system, so I installed Xandros Linux. Also very nice. Too bad I can't change a calculator's OS.

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Using High-capacity NiCad/NiMH cells in Vintage Calculators
*Message #1 Posted by **Vieira, Luiz C. (Brazil)** on 23 Jan 2003, 9:39 a.m.*

Hi;

I bought some AAA-size NiCad and NiMH cells and I intend to use them in vintage calculators. I remember reading that the original NiCad cells were 250 mAh, 1mA max. recommend load current. The new AAA NicCad are 600 mAh (the lowest capacity I found) to 900 mAh, 300 mA to .5A, max. recommended load current. The recommended load values were suggested by the seller.

Well, I would like to know if vintage owners/users have changed their original battery cells for new ones. If so, did you also change the charging procedure? I'm using external charger to charge the batteries I'm using in an HP31E because I do not want to use it's internal charger with batteries with a capacity that is higher than the original ones. I do not know how does the Spices' internal charger work, so I am not sure about how long will the new batteries need to be in "active cycle" for their full charge (and this way avoiding batteries' charging known problems) and what consequences should be expected in charger circuitry if we are using batteries with different internal resistance. I did not even dare charging two NiMH, as I see some 3-hours, intelligent chargers do not specify charging times for NiMH, only passive chargers do. And in this case, NiMH batteries demand almost twice the time to charge.

Does anybody have better technical information than my suppositions? Maybe I'm wrong and there is no trouble, but I do not want to risk the power circuit of an HP25, an HP55 and an HP31E...

Thanks.

Re: Using High-capacity NiCad/NiMH cells in Vintage Calculators
*Message #2 Posted by **Art Litka** on 23 Jan 2003, 10:24 a.m.,*
in response to message #1 by Vieira, Luiz C. (Brazil)

I have rebuilt the battery pack for the HP 34C by using 2 Radio Shack NiCd, 600mAh cells in series. These fit nicely in the battery area and the solder tabs make good contact with the unit's tabs. I recently charged these in the calculator with the stock charger for about 1 1/2 days and it seems to be working well. Of course, there may be problems later but so far the batteries have held their charge in the calculator for about 1 week to 10 days now.

Typo! Wrong mentioned capacity!!!
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 23 Jan 2003, 10:45 a.m.,*
in response to message #1 by Vieira, Luiz C. (Brazil)

Hi;

please, forgive-me: in the first post, where you read:

I remember reading that the original NiCad cells were 250 mAh, 1mA max. recommend load current.

please, read:

*I remember reading that the original NiCad cells were 250 mAh, **100mA** max. recommend load current.*

Thank you and sorry.

Re: Using High-capacity NiCad/NiMH cells in Vintage Calculators
*Message #4 Posted by **Bill Hemphill** on 23 Jan 2003, 12:20 p.m.,*
in response to message #1 by Vieira, Luiz C. (Brazil)

Higher capacity rechargable batteries shouldn't hurt electronic equipment. The equipment will draw the current it always did, the charge would just last longer. If a piece of equipment would operate for 5 hours on 250 mAh, then on 500 mAh, they would operate about twice as long, assuming that the equipment draws a steady current.

Charging of higher capacity batteries is a totally different issue. The charging current to the batteries determines how fast they will charge. A rough rule of thumb to calculate charging time is to divide the battery capacity by the charging current and multiple by 50 percent. For example, a 250 mAh battery, charged at 100 mA would take about 3.75 hours to fully charge.

At a 50 mA current, it would take about 7.5 hours to fully charge. Using higher charge current on batteries not designed for it will result in the battery overheating during the charge cycle and shortened battery life. New high capacity batteries are designed to take the higher current of the fast chargers.

As to using higher capacity batteries in the calculator. It should be fine. The calculator will operate for a longer period of time on each charge. If the original HP charger is used to charge them, again no damage "should" occur - they will just take longer to achieve a full charge.

I would not recommend using higher capacity chargers to directly charge the batteries thru the calculator. I do not know if HP put a current limiting circuit in their equipment or not. If they did, then no harm would happen, since the circuit would limit the adapter to provide a set limited amout of current to operate the calculator and to charge the battery. Of course, in this situation, since the current is being limited, there would be no improvement in charging times.

Since HP makes a point of saying to limit the current to 100 mAh, I would think they did NOT provide a current limiting circuit and that a higher current adapter could harm the calculator.

To be safe with high capacity batteries, I would suggest either increase the charging times using the original HP adapter or remove the battery pack and charge it separately using a fast charger.

Hope above helps.

Maybe someone else here knows more about HP charging circuits used.

Re: Using High-capacity NiCad/NiMH cells in Vintage Calculators
*Message #5 Posted by **Bill Hemphill** on 23 Jan 2003, 12:27 p.m.,*
in response to message #1 by Vieira, Luiz C. (Brazil)

One other quick note. In calculating charge times, the current listed on the adapter may not be the current value to use. If the adapter is directly connected to the battery, then the current listed would be currect to use.

But if the adapter is connected to the equipment which houses the battery pack, then the equipment may very well limit the currect to a set value. In that case you'd need to know that value to calculated charging time.

One last note - some battery packs have built in limiting circuits. In these cases, even hooking a higher current adapter directly to the battery pack will not shorten the charge time.

Re: Using High-capacity NiCad/NiMH cells in Vintage Calculators
*Message #6 Posted by **David Smith** on 23 Jan 2003, 12:47 p.m.,*
in response to message #1 by Vieira, Luiz C. (Brazil)

I use NiMH cells in all my rechargeable calculators (classic, woodstock, spice, etc). The standard HP chargers works fine. Basically if you have a slow charge NiCad system like the HP calculators, NiMH cells will work just fine.

It takes a longer time to recharge the cells in direct proportion to their incrased capacity. Original AA cells were 600 maH. My 1800 maH cells take 3 times as long to fully charge. You do not have to worry about fully discharging/charging NiMH cells like you do with NiCads.

My Lithium Battery Experiment....
*Message #7 Posted by **Michael Meyer** on 23 Jan 2003, 1:56 p.m.,*
in response to message #6 by David Smith

I've discussed this in previous threads, but it seems a good time to bring it up again:

I've been rebuilding almost all of my calculator collection with AA lithium batteries. This allows me to pluck any calculator off the shelf and have it run well. (I still have some original (rebuilt) NiCd packs of course). Even my daily use HP 67 is still on its first set. (I build them to fit in the calculators without the original battery frame, so I can keep the original rechargeable for resale, etc.)

As I've been warned: you don't ever want to accidentally charge these batteries. (Not a problem... I don't even have the chargers near the calcs, and they always work right off the shelf.) There's also the concern about their leakage.

I found some halloween toys that used these batteries that were left on for at least two years. No leakage. In fact, I've still never seen this type of battery leak. Nor has anyone ever mentioned on the forum that they've seen this type of battery leak. With up to 5 times the capacity of alkaline batteries and at least a 10 year shelf life, they're still my preference in the calculators. Still... it's an ongoing experiment. At least the track record for leakage has been perfect, certainly better than NiCds or alkaline AA cells.

I'll let you know if anything bad ever happens, but so far I'm so happy with the results, that nearly all of my calculators now contain them. They're expensive, but I've found them at the office store for $8.99 a four pack, then up to half off with coupons. A little grinding and they pick up solder instantly, so I don't think heat has ever harmed them either.

Michael

Re: My Lithium Battery "I agree, BUT"
*Message #8 Posted by **Ron Ross** on 23 Jan 2003, 2:03 p.m.,*
in response to message #7 by Michael Meyer

Lithium cells are GREAT. And they are more durable. But that is because they are also more hazardous. A leak from a Li-ion cell is a nasty leak for health reasons as well. It is true they are packaged better, but that is because of this very reason. Would I use Li-ion? Of course, but bear in mind the extra precautions. Actually, a Li-ion cell can ignite in open air if cut open. Just some extra info on the subject.

Re: My Lithium Battery "I agree, BUT"
*Message #9 Posted by **David Smith** on 23 Jan 2003, 7:17 p.m.,*
in response to message #8 by Ron Ross

The lithium cells that Dr. Mikey uses are not rechargeables, but a lithium-manganese primary cell that produces 1.5V output... compatible with standard AA cells.

Cadmium (in NiCd) is also hazardous...
*Message #10 Posted by **Andrés C. Rodríguez (Argentina)** on 25 Jan 2003, 5:23 p. m.,*
in response to message #8 by Ron Ross

... and we used NiCd for years...

Re: Cadmium (in NiCd) is also hazardous...
*Message #11 Posted by **David Smith** on 26 Jan 2003, 6:11 p.m.,*
in response to message #10 by Andrés C. Rodríguez (Argentina)

The cadmium in NiCad batteries tends to stay put even when the batteries leak. The problem arrises when 6 billion people toss their old batteries in the land fill/ incinerator and spew it into the environment.

An intresting aside... my old company was supplying some electronics to IBM. Our contracts specifically stated that we would not use cadmium anywhere in the product (batteries, metal plating, etc). This was apparently their requirement for at least 30 years. Now the EU is trying to ban lead based solders. And don't forget that 6+ pounds of barium in every color CRT.

Re: My Lithium Battery Experiment....
*Message #12 Posted by **Bill Hemphill** on 23 Jan 2003, 6:17 p.m.,*
in response to message #7 by Michael Meyer

I have used lithium batteries for several years in all sorts of equipment. Never thought about the HP Calculators. What would be great would be to design a replaceable battery holder that would fit into the old classic series. Load it with lithium's and go forever on a set. We use lithium's in all our digital cameras at work and I'm really amazed how long they last.

I also have never seen one leak. Almost all the new rechargable battery packs are lithium now days. I remember when I first saw a rechargeable lithium pack. It was for an Amateur Radio Icon Handheld, the IC-02/03/04 series. The Canadian firm would only sell it as a kit, with the individual cells not installed. This was due to the potential explosion possibilty. I had to assemble the pac including the charging circuits. There was a disconnect piece to it that you were to remove if you flew on a plane since it was illega to fly with more than two cells connected together. Removing the piece opended the circuit between the cells. There was a fear that if the pack shorted out on the plane, it could explode. I never tested the theory out!!

Re: My Lithium Battery Experiment....
*Message #13 Posted by **Michael Meyer** on 23 Jan 2003, 9:14 p.m.,*
in response to message #12 by Bill Hemphill

Glad to hear support for these nice disposables.

It sounds like the "bottom line" is to treat them with respect and never attempt to charge or allow them to short. (I don't think this is a particular disadvantage, as NiCd's and NiMH batteries are also quite capable of doing nasty things when shorted!)

I'm waiting to hear if anyone's ever seen one leak. It makes sense that they're built better to prevent leaks, as a leak would be nasty....but maybe not TOO bad. I've seen devices unharmed with slightly leaky button-cell lithium batteries left in place. And again, no battery is without that risk.....

It is amazing to not have to charge my calculators and have them run for a LONG time (never had to even replace one yet). For this advantage of having them ALWAYS ready to run, I'm willing to take on some risks.... hopefully, with all the batteries sold for the digital cameras, they don't spontaneously combust. Either it's never happened, or Eveready does a nice job with covering up any incidents..... !

Re: My Lithium Battery Experiment....

*Message #14 Posted by **glynn** on 26 Jan 2003, 11:11 p.m.,*

in response to message #13 by Michael Meyer

Just to corroborate some of the info in this thread:

The cells Dr. Meyer is referring to are Energizer Lithium AA 1.5v cells. They are a specially constructed "consumer-driven" battery style-- the chemistry of prior cells using Li-Mn technology were 3v nominal primary cells. Energizer is the one manufacturer I know of currently making these 1.5v jobs: I believe they developed it or bought the exclusive rights to it. I'm told Panasonic do have a version, but I haven't seen it on shelves yet.

But Li-Mn 3.0v (and Lithium-chloride 3.6v) technology has been used by our calc community for a long time... if you have any devices using CR2032's or 2016's or many of the other "coin-cell" lithium batteries, that's what they are.

Other than an extremely fast discharging (a short), I can think of no condition that could arise in which these cells would ever cause damage to a calculator.

Note also that the "cmos" backup battery in your PC, laptop or PDA computer will almost always be a Lithium primary cell; a 3v coin cell, or, as in most Macs, a 3.6v "1/2 AA" short cylinder cell. These have proven VERY reliable for these low-drain applications.

Why a primary Lithium instead of a rechargeable NiCd or NiMH? Because rechargeables, even whether used-down regularly or hardly ever drawn upon, can only stand the pressures of constant trickle-charging for a limited time. The NiCd might last a few years; the NiMH is more charge-sensitive and might last MAYBE two years as a constantly-charged backup; but the ideal in a PC is a backup that doesn't even NEED a trickle, and lasts more like six to ten years. That's the Lithium primary.

Also, the 1/2-AA and AA-sized 3.6v (and sometimes the camera-sized cr-2 or cr-123) are used quite often in remote alarm systems for the glass-breakage detectors mounted on ceilings or high-walls. You only have to replace them after 5 years of use or so-- unlike akalines which would make you climb a ladder every 18 months.

I have never seen a corroded, leaky or bulging Li-Mn cylinder or coin-- never. Saft, Maxell, Tadiran, Sanyo, Panasonic, Sony, Renata, Ultralife or Energizer. I

handled lots of these, sold trays full of these-- they just don't have this failure mode, UNLIKE alkalines or silver-oxide cells, which do rupture/leak on occasion. Dr. Mikey is, in my opinion, on totally safe ground with these. I think, with his experience of their utility in calcs, he has convinced me to try some in my 33c, in fact.

True, a "short" CAN cause the LiMn batteries to occasionally explode in a most spectacular manner-- like a "black cat" firework-- and I have actually seen this happen once; I tossed a 2032 into a box of dead coin cells and it hit them just right. The result was a loud percussion and a black powder-mark on the wall just above the box. The battery was separated neatly in two like an oreo cookie-- but I'm glad I wasn't hovering my fingers over that box.

But a short is really a rare (maybe non-existent) thing if installed in equipment. I've never seen a Casio databank, for example, damaged by batteries (it uses 3 coin lithiums: 2 for display, 1 for data-backup). Chances are, if you have a car made in the last 5 years, you are carrying a remote keyless entry fob in your pocket. Most of them contain one or two coin-style lithium cells. They undergo real abuse, as you can probably imagine. They don't leak though, and I've never heard of one exploding.

While I was working at a Batteries Plus, I would occasionally tack-weld solder-tabs onto coin cells, mainly for laptop computer CMOS backup-battery replacements. The metal can on these is extremely thin, and so the pulse of the welder is set to a much lower level when working on these than, say, to weld tabs on a NiCd. I believe that the REASON the metal is so thin is for safety: if it DID become shrapnel, it would tear and deform and lose energy there rather than propelling sharp hard pieces... you gun-owners probably know that ammunition cabinets are made of soft containment metals for a similar reason.

Anyway, in tack-welding to them, a couple of times I melted through the thin metal can of a lithium cell (this'll wake you up during a long shift). It spits out a watery clear-grey substance which does not seem to be very corrosive, nor does it much irritate the skin-- BUT it SMELLS really nasty. So bad, in fact, that it'll take several minutes to get the icky sweet, metallic smell out of your nostrils. I have no doubt it is poisonous. Um, don't try it at home.

I have heard of R/C modellers and scale-racing car enthusiasts building pulsed rechargers from schematics on the internet so that they can recharge LiMn cells (CR-123 camera cells usually). This is dangerous-- though the camera-typs cr-2 and cr-123 are designed as wide-bodied and capable of handling large drains, they are NOT intended for recharge. If you are not extremely cautious, you will

cause them to develop a hot-spot inside, and then they MAY explode. Radio-control guys live on the bleeding-edge of battery performance, so they do risky things and experiment with all technologies-- which is fine, but is *no* guide to those of us who want reliable and SAFE power sources.

Now, what about Lithium-ION? Well, that is a slightly different set of technologies from the LiMn/LiCl primary cells we have been discussing. Unlike the primaries, Li-Ion CAN be charged and recharged for hundreds of cycles (typical lifetime: two years). It has the highest storage density of any rechargeable; it has a VERY small self-discharge rate; it can deliver to moderate loads without sagging; UNFORTUNATELY, it is still really expensive and requires a fairly sophisticated circuit around it, especially in packs, or it becomes unstable and can explode or catch fire. (Which is, I believe, the reason for the story related by Bill Hemphill earlier-- an early ICOM Li-Ion setup).

Currently, most laptops use them, and most handheld Videocameras, and some PDAs and digital cameras. They will ALL have an ABS fire-resistant plastic case, and ALL have a failsafe coulometry circuit inside them, which will DISABLE THE PACK if any anomaly develops in any ONE cell in the pack. So you may have a LiIon battery that works fine for months until suddenly, it is dead to the world-- this is the fail-safe circuit having done its job of protecting the user and his equipment.

You will see Li-Ion EVENTUALLY in AA and similar consumer sizes, I think, IF nothing better comes along in the meantime, and IF the cost of the cell INCLUDING the charge-limiting, delivery-limiting and failure-protection circuits can be made reasonably cheap. Right now a single AA made this way would cost about $10-15, with a $50-75 charger for it to go into... this hasn't really got the marketing guys all excited just yet.

Environmental note: all RECHARGEABLES (NiCd, NiMH, LiIon, lead-acid, etc) pose a potential problem when considered "en masse".

They all have Heavy Metals, that is, elements that exist in nature in trace quantities everywhere, but when you concentrate them for a purpose like making a battery, you are changing the way Nature decays and disperses their effects.

Lead was a terrible problem for years-- so useful in so many ways to us, but until

we got wiser, it was building up in biopotentially harmful ways. Now it's out of paints, fuels, eating utensils and landfills-- and so lead-poisoning is fairly rare now. The Battery Council International (a manufacturers coalition) is proud of statistics which show lead to be the most recycled material on earth-- some 97% of lead used in batteries is eventually returned for re-smelting.

After a heavy awareness set in on mercury's effects in fish and waterfowl, it was taken out of formulations of alkaline and other batteries. Now, mercury poisoning is rare-- except a few places in the world where agricultural chemicals are still allowed to contain the stuff.

Nickel, Cadmium, and Lithium are disposal problems in the making because they often DO end up in the landfill, and thus their concentrations in groundwater become a concern. While these elements play important roles in life-processes, too much of any of them has been shown to increase birth defects and stillbirths. Sterility is suspected to be one effect of excessive cadmium exposure. So communities would do well to support recycling efforts for these materials. You may have to call around in your area to find the proper place in your municipality for disposal of rechargeable batteries-- in some places, they classify them as hazardous waste and seal them in drums to be buried on the high side of the city dump.

(Batteries Plus, by the way, accepts all rechargeable batteries for recycling, and they ship them to a company that does metal-reclamation in a large-scale operation, which makes it economically feasible. This is something I was proud my employer supported so fully.)

Lithium PRIMARY coin-cells and camera batteries and the consumer-sized Li-Mn and Li-Cl have YET to be considered by the U.S. government for either hazardous status or for serious recycling. Some states say they are mere "household waste". A couple of states are of the opinion that they are hazardous, yet have no disposal guidelines for consumers, only industrial users. My personal advice is to put them in plastic bags for the time your locality invites hazardous waste disposal, and give it to them then. To drop it into the trashcan only is to put it eventually in your community's water-table; you don't really want that.

Re: My Lithium Battery Experiment....

*Message #15 Posted by **Michael Meyer** on 27 Jan 2003, 1:10 a.m.,*
in response to message #14 by glynn

Glynn,

THANK YOU for the wonderful, detailed information about these cells. Months ago I raised this topic and several respondents were uneasy about their use.

Even I didn't think about the huge user base of digital cameras and their track record of safety.

I feel even better about using these, thanks to your response. (And glad that I've collected every dead NiCd cell I've removed for recycling. Great reminder, though.

By the way: the positive terminal of these cells is a raised nipple (as in many user-device cells) and is thus pretty safe to solder, from my experience. The negative end is the bottom of the "can", so I'm hoping it dissipates heat well. When sanded, the solder sticks and flows instantaneously, and I've had no problem here, either.

One last thing I forgot to mention: I usually solder these cells together with a single strand of wire. Though probably "overkill", I figure the wires themselves would make a nice fuse should the circuit ever somehow short. They're short pieces and since calcs don't use that much current, I'm hoping they don't cause any resistance problems.

THANK YOU AGAIN! I can continue to feel confident as I pluck my "babies" (thanks to Luiz!) off the shelf and admire and play with all the wonderful machines without worrying about recharging, dead cells for many many years, and hopefully, leakage. The cells I've been installing lately say, "Use before 2012..."!!

Michael

Re: Your Lithium Battery Experiment....
*Message #16 Posted by **Tom (UK)** on 28 Jan 2003, 2:11 p.m.,*
in response to message #14 by glynn

That nasty metalic smell may be quite dangerous.

I read a story (only a story mind) in a camera mag about 10 years ago...

Some guy put some batteries in his shirt pocket along with some other metal stuff (keys, coins or something). He smelt something funny so put his nose to the pocket and breathed in. Some time later he suffered from all sorts of health problems (joints I think) and couldn't work etc.

Now this may have been a scare story, or today's batteries are much safer than they used to be. I can't immagine companies being allowed to sell batteries that (if shorted) would produce highly toxic gas. But on all batteries they do say not to tamper with them.

So in conclusion I don't think there is a problem using Lithium cells in a calculator but I would not risk messing about with them unless I knew the contents were mostly harmless. The cases are leak proof for a reason - this is likely to be costly for the manufacturer so they would not do it lightly.

Re: My Lithium Battery Experiment....
*Message #17 Posted by **David Smith** on 28 Jan 2003, 2:34 p.m.,*
in response to message #14 by glynn

One of my engineers came from an undersea project at TI that had long strings (like 300 volts worth) of lithium "D" cells loaded into steel tubes. One of these strings shorted out (oops, somebody forgot the liner). The building was uninhabitable for days. The lab was crispy critters.

Re: My Lithium Battery Experiment....

*Message #18 Posted by **Michael Meyer** on 29 Jan 2003, 7:36 p.m.,*

in response to message #17 by David Smith

AWESOME!!!

I can install a "self-destruct" on my calculators. If they should happen to fall into enemy hands, they could be programmed to self-destruct in 30 seconds!

Naah.

Watching too much Star Trek.

Michael

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HP-71X: HP-71B MicroCode Emulator for HP-48GX (Preliminary Info)

*Message #1 Posted by **HrastProgrammer** on 23 Jan 2003, 4:42 a.m.*

After many months of research and development I have a fully functional and working beta version of HP-71B Micro Code Emulator. Currently it is running on HP-48GX with one 128K memory card but it will be ported to HP-49G in the near future.

For the first time it is possible to write real HP-71B BASIC programs on HP-48. Perhaps it will be possible to write Forth and Assembler programs in the future, too.

There is just one picture of the emulator running on Emu48 under Windows on my homepage (http://hrastprogrammer.tripod.com) at the moment.

The emulator is based on the original HP-71B ROM so it behaves almost *exactly* like the real calculator with just a few differences caused by the different hardware. The screen looks the same and the HP-48 keyboard is accomodated to act like the HP-71B keyboard. Although the HP-71 display is 132 columns wide, the last column is rarely (if ever) used but, if needed, scrolling can be implemented in order to see all 132 pixels on the HP-48 display. And because the HP-71 keyboard has 55 keys and HP-48 keyboard has only 49 keys, some HP-71 keys have to be shifted with the additional shift key (I use Alpha key for this purpose).

It is very easy and joy to use the emulator on HP-48. Available memory is increased to 33.5K and can be increased to the maximum of 161.5K if needed. The emulator is about 3x faster than a real calculator.

In the current state the emulator isn't suitable for the public distribution so there is a lot of work left in this area. And, of course, a lot of testing, testing and testing ... Things which aren't working at the moment are annunciators and TIMER2. TIMER3 won't be supported because the third timer doesn't exist on HP-48. Anyway, TIMER3 isn't used too much in the HP-71 ROM, except for just 2-3 occasions which can be emulated in a different way. And keyboard repeat is very slow at the moment and this has to be improved but I don't know how. There are some problems caused by the TIMER1 resolution which is just 4 bits on HP-48. For this reason the DELAY is different than on the real HP-71 (0<=DELAY<=1 is the same, 1<DELAY<8 acts like DELAY 1 and DELAY>=8 is the same).

Another things which I plan to implement include MATH, Forth and HP-41 Translator ROM support. Perhaps another ROMs cane be supported (like JPC ROM) - I don't know at the moment.

If you want to get a demo then, please, send me a mail. If I got enough mails I will make a demo and send it to everyone who requested it. After this, if there would be enough interest I will make a full version. Details will be presented on my home page.

Best regards

Re: HP-71X: HP-71B MicroCode Emulator for HP-48GX (Preliminary Info)
*Message #2 Posted by **J-F Garnier (France)** on 23 Jan 2003, 7:05 a.m.,*
in response to message #1 by HrastProgrammer

Great!!

So it's the second HP-71B emulator (AFAIK) after my Emu71 for DOS ...

Of course, I would be pleased to test it!

I plan to improve my own emulator ...

Regards.

Jean-Francois

Re: HP-71X: HP-71B MicroCode Emulator for HP-48GX (Preliminary Info)
*Message #3 Posted by **Mike (Stgt)** on 23 Jan 2003, 7:38 a.m.,*
in response to message #2 by J-F Garnier (France)

Pls think about a switch for monochrome displays (HP200LX) when enhancing your emu71.

TIA.....Mike

Re: HP-71X: HP-71B MicroCode Emulator for HP-48GX (Preliminary Info)
*Message #4 Posted by **Daniel Diggelmann** on 24 Jan 2003, 4:44 a.m.,*
in response to message #2 by J-F Garnier (France)

Hi Jean Francois,

I'm often using your new EMU41 with HPIL PC card support. I'd love to see EMU71 supporting the HP82973A as well. The HP41 and HP71 always were my two favorite machines to control measurement equipment.

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HP67 charger
*Message #1 Posted by **Howard** on 23 Jan 2003, 3:15 a.m.*

Can anybody tell me which chargers are compatable with the HP67. I am in Australia which has 240vac. I believe the correct model is 82002A. Are there any others that will do the job. Next question - has anybody got a spare one they want to sell for a reasonable price?

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Help with 49G
*Message #1 Posted by **Roberto Flores** on 22 Jan 2003, 10:59 p.m.*

Hello !... I've just received a 49G (my backup) but most of the indicators on top of the screen (left/ right arrow, busy, port access, etc.) are always on, otherwise the calculator works fine. I've reset it several times and even reloaded the Flash ROM, but this seems to be a hardware problem. Any advise or help will be greatly appreciated.

Regards; Roberto

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HP-41C with silver trim
*Message #1 Posted by **Gordon Dyer** on 22 Jan 2003, 4:44 p.m.*

Hi, I saw this and wondered if the silver trim is original or has it been painted on by an owner?

http://cgi.ebay.co.uk/ws/eBayISAPI.dll?ViewItem&item=3001723069&category=11713

Re: HP-41C with silver trim
*Message #2 Posted by **Jürgen (CH)** on 22 Jan 2003, 4:53 p.m.,*
in response to message #1 by Gordon Dyer

My 41C looks exactly the same, and I'm not a painter ;-)

Re: HP-41C with silver trim
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 22 Jan 2003, 5:24 p.m.,*
in response to message #1 by Gordon Dyer

Hi, Gordon; (forgive-me talking too much...)

this silver trim is original and all 41C's have it; it's the same silver trim style that exists in many classical models and some new ones (except for the HP12C, all voyagers have it). I have an HP41C and it's also exactly the same. The golden trim exists only in the 41CV and 41CX.

Cheers.

This is quite normal [Was: HP-41C with silver trim]
*Message #4 Posted by **Raymond Del Tondo (Germany)** on 22 Jan 2003, 5:29 p.m.,*
in response to message #1 by Gordon Dyer

Hi,

all 41C's have a 'silver' trim. Even the front sticker shows 'silver' letters, and the HP logo is the older-style one, with sharper edges.

Regards,

Raymond

Re: HP-41C with silver trim
*Message #5 Posted by **David Smith** on 22 Jan 2003, 5:56 p.m.,*
in response to message #1 by Gordon Dyer

ALMOST all 41C's have the silver trim. I have one with the gold trim and label.

The reverse is true for the 41CV. almost all have gold trim and label. I have one with silver trim and a silver front label. Also one with gold trim and a silver front label. Final weirdo is a silver CV with the CPU card held down with internal nuts and the gold balls in the charger port.

All the CX machines that I have have seen are gold trim/label.

Re: HP-41C with silver trim
*Message #6 Posted by **Raymond Del Tondo (Germany)** on 22 Jan 2003, 6:26 p.m.,*
in response to message #5 by David Smith

Hi,

does your C with gold trim have a suitable golden 'C' label, or a 'CV' label? Does your CV with silver trim/label have a silver 'CV' label?

And the CV with the golden balls: Colud it be a very low serial number, or a machine with parts combined from other units?

Regards,

Raymond

Re: HP-41C with silver trim
*Message #7 Posted by **David Smith** on 23 Jan 2003, 12:49 p.m.,*
in response to message #6 by Raymond Del Tondo (Germany)

All the machines appear to be originals. The gold ball CV is a very early serial number. The silver trim CV's have silver labels. The gold trim "C" also has a silver label. It is a very late serial number. I got it from the original purchaser (with original receipt) so I don't think it is a put together machine.

Re: HP-41C with silver trim
*Message #8 Posted by **Gordon Dyer** on 28 Jan 2003, 2:43 p.m.,*
in response to message #1 by Gordon Dyer

Thanks to you all for pointing out my ignorance!
I have a 41CV and 41CX both with gold trim.

Re: HP-41C with silver trim and HP25C oddities
*Message #9 Posted by **David Smith** on 28 Jan 2003, 8:43 p.m.,*
in response to message #1 by Gordon Dyer

I also have two odd HP25C machines (with dates codes a couple of weeks earlier than the museum records). One has the "Continuous Memory" script on the keyboard, but no 25C on the front label. The other has no "Continuous Memory", but does have the 25C on the front label.

Re: HP-41C with silver trim and HP25C oddities
*Message #10 Posted by **Vieira, Luiz C. (Brazil)** on 28 Jan 2003, 9:02 p.m.,*
in response to message #9 by David Smith

Hi;

these are the ones I consider collectibles. Once I saw a coin with a deffective press (half the image) and I thrown it away. I mentioned this fact a few weeks later and I was told this sort of "deffective" serial product should not leave the factory, mostly if it's money. That would worth a lot of money for collectors.

I never thought about that!

When I was at the university (early 80's) I saw an HP11C with a 15C's logo. It was indeed an HP11C, and I thought that would also be a collectible. Now I know the logo is replaceable, and I have one HP15C that I did not glue the logo back, it is without it. Not so

strange...

But the [HEWLETT-PACARD 25] front label cannot be removed easily without being destroyed, so these rwo babes are, for me, to be collected. As that deffective coin of mine...

Keep them well, ahn?

Cheers.

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HP71B Planet LEX files
*Message #1 Posted by **andy** on 22 Jan 2003, 4:13 p.m.*

There are two LEX files for the hp71b called PLANETA and PLANETB (they can be found on this site's ftp site).

The details of the keywords for these lexfiles are listed below.

Does anyone know what #,#var,#var,#var are? Does anyone know if these LEX files were documented in any of the PPC or Datafile journals?

Thanks,

Andy

PLANETA 61/62 JUPITER #,#var,#var,#var PLANETA 61/63 MARS #,#var,#var,#var PLANETA 61/64 MERCURY #,#var,#var,#var PLANETA 61/65 MOON #,#var,#var,#var PLANETA 61/66 NEPTUNE #,#var,#var,#var PLANETA 61/68 PLUTO #,#var,#var,#var PLANETA 61/69 SATURN #,#var,#var,#var PLANETA 61/6A SUN #,#var,#var,#var PLANETA 61/6B URANUS #,#var,#var, #var PLANETA 61/6C VENUS #,#var,#var,#var PLANETB 61/65 MOON #,#var,#var,#var PLANETB 61/67 PLANET #,#,#var,#var,#var PLANETB 61/6A SUN #,#var,#var,#var

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HP 3ie
*Message #1 Posted by **Marco** on 22 Jan 2003, 3:31 p.m.*

Hi, I'm french and I have a problem with my calculator. It's a pretty old one and the battery broke all down. How could I open my calculator without breaking it ? It's a HP 3ie.

Re: HP 3ie
*Message #2 Posted by **Renato** on 22 Jan 2003, 5:38 p.m.,*
in response to message #1 by Marco

Supposing it is a 31E, there is repair information at: http://www.hpmuseum.org/repair.htm and at http://www.rskey.org/

Opening a 31E can be dificult, if you don´t know how to do it. Search the museum forum for instructions.

Re: HP 3ie
*Message #3 Posted by **marco** on 29 Jan 2003, 10:42 a.m.,*
in response to message #2 by Renato

You're right, my calculator is a 31E...

>Search the museum forum for instructions. Could you give me those instructions ? Thank you very much.

Re: HP 3ie

*Message #4 Posted by **Renato** on 29 Jan 2003, 12:14 p.m.,*
in response to message #3 by marco

There are instructions for opening a 34c (spice series) case at: http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/archv009.cgi?read=22660 - this works for 31E also.

After opening, you´ll see what should be done, but before that, let me ask:

1. The batteries leaked ? If they did, do you still have them ? 2. Are the battery terminals ok ? Or are they damaged ? 3. Do not connect the AC adapter without the batteries, or with bad batteries. Did you do it ?

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Identifying 82120a components

*Message #1 Posted by **Vieira, Luiz C. (Brazil)** on 22 Jan 2003, 12:23 p.m.*

HI;

I'm taking the 82120A wave and I'm repairing the rectifier/regulator board of mine, serial # 2309S80xxx. Battery leakage corroded part of some components terminals and, in some cases, the terminals are broken and I'll have to replace some of them. The problem is that the existing diodes had their ID's removed and I'm in trouble to identify them. One of our contributors offered himself to identify these components for me, and I believe this information is useful to all of us here. So, as I do not mention names in here prior to their authorization, if this friend agrees with, I'm expecting any information from someone at the Forum and I'll post any contribution sent to my e-mail about this particular subject, O.K.?

Dave, if there is any trouble regarding to copyright material, please, let us know. I'll expect e-mails only, in this case.

The general circuitry description for the 82120A is:

> from the AC input, four diodes connected as a bridge rectifier; the diodes connected to [+] pole are different of those connected to [-] pole. Is there any reason for that? Fast rectifiers will do the job? Which ones to use there?
> The first component after the [+] is an electrolytic capacitor, 100uF/25V, no trouble to identify
> Right after the capacitor there is a SOT-package regulator, 1826-0275 (output voltage?). The way it is connected lead to this conclusion: one terminal in the [+] pole, the mid terminal in the [-] pole, and the third terminal to the load through the following two components:
> A 10nF capacitor, parallel to load (opposite terminal to [-] pole)
> A series diode (anode to regulator, cathode to load), no identification too; is it a fast rectifier?

The other components are:
> Connected to the cathode of the last diode, a 365 ohms, 1% resistor (at least it seems to be), series with load; the opposed terminal goes to the [+] of the batteries
> parallel with the batteries a zener diode; working voltage? test current? max. dissipation power?

I'm sorry asking so many questions, but I prefer knowing these components' characteristics instead of risking and loosing the pack, the (external, test purposes only) NiCad batteries OR the calculator itself.

Thank you very much.

<:-)

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Converting HP-97 Programs to HP-41
*Message #1 Posted by **Bill Hemphill** on 22 Jan 2003, 8:54 a.m.*

Is there a program for the PC that will take a text file of HP-97 code and convert it to HP-41 code? I have a book called "Building Systems Design with Programmable Calculators". Program listings are included for both the TI-59 and the HP-97. I'd like to test some of the programs out on the HP-41 emulator.

Using the tables from Section 3 of the Card Reader Manual, it probally wouldn't be too difficult for me to write a conversion program. I was wondering if someone already had???

Thanks.

Re: Converting HP-97 Programs to HP-41
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 22 Jan 2003, 9:15 a.m.,*
in response to message #1 by Bill Hemphill

Hi;

does the emulator also emulates the card reder functions? The tables in the card reader's manual consider its existence. Except for a few functions AND situations (local labels), there is always a way to create an HP41's "version" for the HP67/97 program instead of a "translation", but it demands inspection, not only a single exchange.

But the task is very interesting. BTW, would you, please, specify some data about this book? Editors, authors, date... it seems to be a book from the good times...

I "lost" a book about Designning Switching Power Supplies and it had the listings of many programs for the HP41 and TI58/59 to help getting parameters.

Success!

Re: Converting HP-97 Programs to HP-41
*Message #3 Posted by **Bill Hemphill** on 22 Jan 2003, 9:53 a.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

I think one of the emulators might emulate the card reader functions. I'll have to check to see which one does. I normally use V41, which doesn't, as far as I know.

The book was by Sital Daryanani, PE, who was the Chief of Design at Syska & Hennessy Engineers in New York. The book is Copyright 1980, published by McGraw-Hill Book Company, Architectural Record Books. The book is hardback, 306 pages.

I had picked the book up in 1980 when I was working at EBASCO Engineers in New York and was doing several joint projects with Syska & Hennessy. I had forgotten that I even had the book and ran across it last week when I was unpacking some boxes that had been in storage for many years. I should unpack more boxes - who knows what I might find.

If I get some time this weekend, I may try to code a simple translation program. Depends on how good the Super Bowl game is.

Re: Converting HP-97 Programs to HP-41
*Message #4 Posted by **Bill Hemphill** on 23 Jan 2003, 8:46 a.m.,*
in response to message #1 by Bill Hemphill

Okay, I did a little review of the card reader manual to see how it converts 67/97 code to 41. The Card Reader Rom has additional functions, i.e., 7DSP7 to correspond to HP-67 DSP 7. It looks like the card reader does a direct function substitution on a step by step basis. It's fairly easy to enter the 67/97 program manually and make these substitutions and as long as card reader is inserted, then program should run fine.

Since the 67/97 uses a separate instruction step for each digit of a number, a good conversion program could consolidate them into a single instruction on the 41. So the program could use fewer steps. As long as the 67/97 code doesn't do anything tricky and only uses labels for all branches, a single pass parser could probally do the job. If the program contains indirect addressing, then a two pass would probally be needed to do some fixup on the addressing. That might get a little tricky.

I wonder if someone could scan pages 42 through 46 of the card reader manual which contains the Compability function List. I don't have a copy of the card reader manual and have been looking at the one on the Museum CDROM, but it's quality on these pages is not the best. A good scan at 300 DPI would really be appreciated.

Or if someone has an extra card reader manual they wouldn't mind parting with - just e-mail me the price.

I'll probally try this weekend to make a first pass at a conversion program. I'll let you know how it goes.

Re: Converting HP-97 Programs to HP-41
*Message #5 Posted by **Vieira, Luiz C. (Brazil)** on 23 Jan 2003, 9:38 a.m.,*
in response to message #4 by Bill Hemphill

Hi;

I'm scanning them for you right now. As soon as they are ready, I'm sending them to the e-mail you specified in your post, right?

Also, the reader's manual adds a lot of changes taht must be made to existing 67/97 applications programs in many pakcs; I'll add them, too, o.k.?

I'll make sure the scans are readable.

Best regards.

Re: Converting HP-97 Programs to HP-41
*Message #6 Posted by **Bill Hemphill** on 23 Jan 2003, 9:53 a.m.,*
in response to message #5 by Vieira, Luiz C. (Brazil)

Luiz, Thanks, I really appreciate it. Yes, use the bjh@vpes.com. Sounds good on the section on application packs. They may help me on items to look for during the conversion process.

Re: Converting HP-97 Programs to HP-41
*Message #7 Posted by **Vieira, Luiz C. (Brazil)** on 23 Jan 2003, 10:55 a.m.,*
in response to message #6 by Bill Hemphill

Hi, Bill;

I'm sending you a sample at this very moment so you can check for image preferences.

It took me a while because of the reasons I mentioned in teh e-mail.

Best regards.

Thanks to Luiz for Scans
*Message #8 Posted by **Bill Hemphill** on 24 Jan 2003, 9:03 a.m.,*
in response to message #1 by Bill Hemphill

I want to thank Luiz for providing scans of the HP-97 to Hp-41 compatibility pages - I can now read the information. Will be starting the program this weekend. I'm pretty ruty on coding but hope to throw together something in Turbo Pascal this weeked. I'll let everyone know how I make out.

Re: Thanks to Luiz for Scans
*Message #9 Posted by **Vieira, Luiz C. (Brazil)** on 24 Jan 2003, 11:16 a.m.,*
in response to message #8 by Bill Hemphill

Hello, Bill;

please, be my guest. It's a pleasure to do something to anyone who gives to our gesture the consideration you are giving now. As I always say, this is gold... Thank you for your feedback.

About your converting program, have you considered the possibility of having a final ASCII code that can be directly used by other converting programs? I mentioned this because there is a DOS-based program named HP41UC.EXE (UC = Universal Converter) that converts programs listed in almost any code (if not all) available for the HP41 to the other. You may input ASCII (text), RAW, LIF and other formats and generate an output file coded in any of these codes, or an extra, printable, HP41's barcode-compatible file. If your program reads an HP67/97 list and generate an ASCII file with the equivalent listing for the HP41 that can be directly read by HP41UC.EXE, than you may also have the converted output from the HP41UC.EXE, allowing the HP41's version of the original HP67/97 listing

to be directly loaded in an HP41 with HPIL connection (or recorder in a floppy) or printed as a barcode.

I do not remember were the HP41UC.EXE is available at the net for download, but I still have the original .ZIP file. In this file there is a .DOC (or .TXT, I don't remember) that describes how to perform any of the conversions and mostly how should the text be organized so that it can be read by HP41UC.EXE. As you are reading text and reordering and substituting strings, formatting the final text accordingly will not be so much trouble, right? I know it is another task and if you allow me to, I'd suggest trying one of both:
> focus this subject in the main program, what would lead you to two concerns, and would probably take a lot more of your development time, OR
> generate a first source as a first task, save it into a file, and slightly change it to an HP41UC.EXE compatible format and save it into another file (that's what I would do)

I hope you forgive-me being so nosy (as if I am not nosy...) but sometimes good suggestions may come form were we do not expect, right? This is just a guess because I think it can be done...

Best regards.

Luiz C. Vieira (Brazil)

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Tones on the HP48GX
*Message #1 Posted by **Maestro** on 22 Jan 2003, 8:50 a.m.*

I know that this is a ridiculous question, but I'll ask anyway.

What started out as a quick effort to write a small program to make my 48GX play a little tune (or even a short tone sequence) for the kids has turned into a quest. (You've got to start early if you want to get them hooked on RPN !)

Since the "manual" doesn't really elaborate on the use of tones, (at least I hadn't found it by midnight last night) what command should I be using ? I was trying to write a small subroutine which would play a tune, then run it.

I understand the need to use a frequency, like 1500 hz, and duration, like 0.5 seconds and the "BEEP" command. Putting it all together is the trick.

Maybe I was too tired, or maybe my knowledge of my 48 needs supplementing, but whatever help I can get, I would appreciate greatly.

Re: Tones on the HP48GX
*Message #2 Posted by **Tom (UK)** on 22 Jan 2003, 12:05 p.m.,*
in response to message #1 by Maestro

Try looking at:

http://www.hpcalc.org

or

http://www.hpcalc.org/hp48/utils/sound/

The program 'compose' looks like what you want. There are many other downloads on other pages covering most subjects from simple RPL programs to programming in machine code.

P.S. This is a wonderful site and deserves our support.

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A public "thank you" to TomD and Jürgen
*Message #1 Posted by **Dave** on 21 Jan 2003, 5:46 p.m.*

I just wanted to thank both TomD and Jürgen for their willingness to let me buy an item on e-bay that they had bids on. You guys were very nice to let me do that. I appreciate it very much! Thanks again.

Re: A public "thank you" to TomD and Jürgen
*Message #2 Posted by **Cr Toloss** on 21 Jan 2003, 9:55 p.m.,*
in response to message #1 by Dave

I echo the appreciation to Tom and I tip my hat to you Dave for saying loud. I Have dealt with TomD for a few years. I owe most of the hard to find HP Calc collection to him. Always there when I need him.

Say it ain't so...
*Message #3 Posted by **gifron** on 22 Jan 2003, 9:07 a.m.,*
in response to message #1 by Dave

Please say this is not in reference to bid suppression activities...

If two (or more) bidders agree not to bid against each other in an ongoing or future auction, they are engaging in bid collusion, and it is illegal - Not just "eBay illegal," but really illegal, as in against the law. The bidders may think they are just helping each other out, but it usually cheats the seller out of a higher price for his goods.

No doubt, these were "after the auction closed" agreements between the seller and the two bidders... Right?

Re: It ain't so !
*Message #4 Posted by **Dave** on 22 Jan 2003, 11:51 a.m.,*
in response to message #3 by gifron

I don't think I want to hash this out in the "forum of public opinion" any more than to say that I don't believe that any laws or even e-bay rules were broken. Turns out that the seller is trying to renig on the deal anyway, so e-bay will make a determination of whether their rules were violated.

Re: It ain't so !
*Message #5 Posted by **John K. (US)** on 23 Jan 2003, 5:35 a.m.,*
in response to message #4 by Dave

As I understand it, *any* "scheme" to manipulate prices in an acution is illegal, be it inflating prices through "shill" bidding, or supressing them through "ring" bidding.

The latter usually operates as an agreement between two or more individuals to bid no more than a given amount on an item, or to allow a specific individual to bid unopposed, and then to hold a private auction or exchange among the members of the "ring." The usual goal is to keep "public" prices low enough that such items don't attract speculators, or to keep items of a specific type within a small circle of "true" collectors.

Of course, the details probably vary by jurisdiction, and since I'm not a lawyer nor do I play one on TV, YMMV.

Re: It ain't so !
*Message #6 Posted by **David Smith** on 23 Jan 2003, 1:45 p.m.,*
in response to message #5 by John K. (US)

If you dig into the fine print on Ebay, they say that they are legally NOT an auction... just a name-your-own-price service. I don't know how or if the federal auction rigging laws apply, but Ebay does have policies against shilling, etc. I have also seen articles in newspapers about people being prosecuted for such things on Ebay... don't know how they turned out though.

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Non English Language Versions of Calculators
*Message #1 Posted by **Paul Sun** on 21 Jan 2003, 2:19 p.m.*

Other than the manuals and the box, is there any difference between the english and non-english versions of the HP calculators? Specifically, I am interested in the HP 32sii.

Re: Non English Language Versions of Calculators
*Message #2 Posted by **David Smith** on 23 Jan 2003, 1:48 p.m.,*
in response to message #1 by Paul Sun

On the older machines, the instruction labels on the back are in various languages. I have seen German, Italian, French, and Japanese.

Re: Non English Language Versions of Calculators
*Message #3 Posted by **Raymond Del Tondo (Germany)** on 23 Jan 2003, 7:57 p.m.,*
in response to message #1 by Paul Sun

AFAIK some of the Spice series were made in an U.S. and 'international' version, where the decimal point was replaced by a decimal comma. Maybe the 34C had a jumper to switch the decimal sign.

The 18C,17B(II), and 19B(II) were available as a U.S. and as international, where the international versions feature an additional ROM chip with messages and menues in different languages, and, for Germany, a calculating method called 'Staffelzinsmethode'.

I think the HP-32SII exists in an international version only.

Regards,

Raymond

Re: Non English Language Versions of Calculators

*Message #4 Posted by **Paul Sun** on 23 Jan 2003, 11:30 p.m.,*

in response to message #3 by Raymond Del Tondo (Germany)

Thanks for the responses thus far. Does the HP 48 and 49 have different language ROM's or is there only one language version?

Why are the manuals for some calculators available for downloading in Spanish or Portuguese but not English? If someone knows HP's reason, I would like to know.

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RPN Simulator Modules for TI-59 ?
*Message #1 Posted by **Pyerre** on 21 Jan 2003, 1:21 p.m.*

(since I've recently got a brand new TI-59 sealed in box) ... This sounds as an interesting alternative to the RPN experiences with this wonderful algebraic machine!

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3002385026&category=11713

Anyone has experienced with such device ? Many Thanks.

Re: RPN Simulator Modules for TI-59 ?
*Message #2 Posted by **Michael Meyer** on 21 Jan 2003, 1:42 p.m.,*
in response to message #1 by Pyerre

Dear Pyerre,

I have the RPN module, and it's a nice piece of history, but I've never used it. Even when I bought it, I thought it would allow RPN functioning. Not so.

The module assists in translating RPN programs (HP 67?) to TI-59 programs. That is all it does... and not easily at that. Bummer. I've thought about writing an RPN emulator for the 59. It probably wouldn't be blazing fast, and since there aren't user-definable keys other than to call them as subroutines, transcendental functions would be tricky to do.

There are some awesome RPN calculator programs for the HP-71B (an algebraic machine), including the HP-41 emulator module. But that's another story...

Michael

Re: RPN Simulator Modules for TI-59 ?

*Message #3 Posted by **Gene** on 21 Jan 2003, 2:58 p.m.,*

in response to message #2 by Michael Meyer

Correct. You must key in the HP-67 keycodes into the TI-59 while running the RPN simulator module program.

It thinks and thinks and thinks.

Then it prints out a TI-59 program listing that does something comparable to the original HP-67 program! You must then key this into the TI-59 to run it.

And, not all HP-67 instructions are emulated. I forget which ones, but they are not trivial. For example, HP-67 Flag 3 (numeric digit entry flag) is not emulated...so many HP-67 games that might be ported won't work.

Fun to have, perhaps. Useful? No.

However, it did/does show you how much TI wanted to get people off their HP-67s and into the TI-59. Of course, HP then introduced the HP-41C and the rest was history...TI had nothing with which to compete.

Give the TI-59 it's due, however. It had a wealth of features and 100 memories. Programming it was the pitts though!

Gene

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variables in other directories
*Message #1 Posted by **Jeffrey_G** on 21 Jan 2003, 12:55 p.m.*

I'm writing programs for the HP-48/49. My problem is that the directory I'm working in is cluttered with other programs and variables.

I wish to keep only a small set of programs in a given directory and all associated variables in a different directory. When running a program, how can I read from or write to a variable which is located in a directory other that the one containing the calling program?

Thanks,

Jeff

Re: variables in other directories
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 21 Jan 2003, 2:49 p.m.,*
in response to message #1 by Jeffrey_G

Hi;

this answer uses only user RPL techniques, O.K.? If there are better solutions with SYS RPL or Assembler, I do not know them.

The way I know to achieve this is by "going to" the directory at the beginning of the program and using an UPDIR at the end of it to get back to the original directory, provided that the variables' directory is a subdirectory of the program's directory itself. (is it clear?).

Say you face the following tree and [prog1] is your main program:

```
HOME                          (in other systems it may be called ROOT)
  PRGM1 [prog1] [prog2] ... [progn]
    VAR1  [v01] [v02] [v03] ... [vnn]
```

Consider the names without brackets as directory names and [name] as variables' names, programs included. If [prog1] uses any of the variables in VAR1 directory and you are sure it runs error-free

from the first to the last command, them [prog1] should look like this:

```
«
  VAR1

(program's body)

  UPDIR
»
```

All commands in *(program's body)* will store in and recall from variables existing in VAR1. The only BIG warning is that If you refer to any variable that does not exist in VAR1 directory and, for any reason, you have another variable with the same name in HOME or PRGM1, this variable will be reached by the program. This is because the HP48 O.S. searches for existing variables in the current directory AND, if it is not found, up in the directory tree till HOME. Then, if there are no variables with the same name, an error occurs. Even if it sounds awkward, this allows you to read the contents of any variable (even run a program) already existing in any upper directory from another program in a subdirectory. You cannot directly write on these variables without changing the current "path".

What I normally do is to use an input program that creates compiled local variables (the ones with names begining with <-), then I call a "subprogram" that switches to the "variable's directory", like the example above. This "subprogram" is completely safe, runs error-free, may access the compiled local variables and is the only program that will read and write in the variables that exist in the "subdirectory" . At the end of it, the necessary results are placed in the stack and the UPDIR command is executed. When the final » is found, the O.S. is working again in the original directory were the main program is stored. Then the program takes the results from the stack and shows them the way you like it. This structure is functional and applicable when you have many variables and extensive manipulation. Small programs and a few variables may be kept in "small boxes", too. Just a guess.

I hope this helps you.

Cheers.

Re: variables in other directories
*Message #3 Posted by **MikeN** on 21 Jan 2003, 6:06 p.m.,*
in response to message #1 by Jeffrey_G

Jeff

Glad you asked.

Your intention, placing variables (programs or other "fixed" objects?)in a different directory. To secure their integrity? To remove clutter from the "fixed" variables in the "application" directory. Or both?

Luis (I am hoping you will read this) The latter is simple, placing them in a directory above the "application" directory.

Can this directory be hidden, or the variables write protected?

I confess. The left shift key, pressed immedialely preceeding a softkey, has broken my heart on a number of occasions. Overwriting a program (which took hours to create) with just a moments distraction. OUCH! How easy it is to do.

Trusting a user, giving him immediate access to both the program and it's underlying lookups may be the issue. Any suggestions?

Re: variables in other directories
*Message #4 Posted by **Vieira, Luiz C. (Brazil)** on 21 Jan 2003, 9:06 p.m.,*
in response to message #3 by MikeN

Hi, Mike;

I agree with the upper position: a directory with the variables with a subdirectory with the programs. What bothers me is that you must pass through the variables to reach the programs, and it may not be wished, I don't know. Even so, deleting a filled directory requires the specific use of PGDIR, that must be "spelled-out" or assigned to a softkey in Custom menu. This is a relative protection, agree?

It seems to me you know how to recover from this unintentional variable erase, but let's mention it, as it may be not known by others. This is a very important resource available in any HP48: recovery from a deletion. The HP28S does not allow such recovery procedure. And many former HP28 users may not know it can be undone in the HP48.

Both S-series and G-series allow such a recovery, even if it happens from a PURGE or a left-shift key + softkey. You just need to recall the last ARGuments. BUT this feature is active

ONLY if Save Last Arguments flag, # -55, is CLEARED. If it is SET, last ARGument feature is disabled (inverse logic). If you are in doubt, [MODES] [FLAGS] and roll-down till you find flag 55 and you'll see:

```
  55 Save Last Args
```

If you press the check-mark softkey it changes to:

```
V 55 No Last Args
```

About protecting data, the only means I know is by generating a library with your original source code. I did it once for the HP48SX as soon as I got the Goodies Disks from EduCalc (1994, I guess). I do not remember how to do it, I must read the docs again, but I remember you could hide whatever you want when defined as hidden for the compiler, running on a PC. Otherwise, all I have no idea on to hide a variable or protect it from being overwritten or erased. All I know is that when you are transferring data from an external device to the calculator you can set overwrite or create a new name, usually *prevname*.n, were n goes from 1 to as many copies as possible from the original file. But I have not found a way to do it by the keyboard. I also remember this issue was discussed in here about one year ago, and the ones discussing this possibility came to the conclusion that we may not be able to activate it for keyboard entries because it may be more related to a Kermit resource than to an HP48's resource.

I believe this is all I can mention about it.

Sorry not helping the way I'd like to.

Success.

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HP Basic
*Message #1 Posted by **Jeff** on 21 Jan 2003, 12:54 p.m.*

A co-worker (who counts on me to know everything about HP calculators) said he had gone to the HP web site to check out their current offerings. He noted that "HP Basic" was listed as the entry system logic for some. He asked if I knew what that is. I checked the HP site, and found "HP Basic" listed for the 9G, 39G, and 48GX. I checked my 48G user's guide and found no mention of "HP Basic" in the index. I had to reluctantly admit my fallibility and tell my friend that I do not know what "HP Basic" is. Does anybody know?

By the way, the 48GX is still listed as in-stock, ready for same-day shipment, so you had better order while you can. The 49G is, as I believe has been noted by other Forum posters recently, conspicuously absent.

Re: HP Basic
*Message #2 Posted by **Howard** on 22 Jan 2003, 2:24 a.m.,*
in response to message #1 by Jeff

Maybe this was what your friend was referring to. I cut this from HP Museum atricle on HP71

HP-71

The HP-71 was a small handheld computer/calculator featuring both QWERTY and calculator/ numeric keypads. It was the first handheld to implement the (then proposed) IEEE floating point math standard which included such concepts as infinities and non-numbers.

Calculator Mode

Like the HP-75C, expressions could be entered in the BASIC environment for immediate evaluation. However, the HP-71B also provided a calculator mode. HP decided that an RPN calculator was inappropriate for a BASIC computer, but algebraic calculators hid too much of the mathematical process. For the HP-71B, HP provided an "operator-precedence parser with value substitution" system. This system took algebraic expressions but evaluated them as they

were entered rather than waiting for a final "=" key. For example to evaluate the expression 5*(5 +6), the user would enter 5 * (at which point the display would look like:

5*()

(The closing parenthesis was automatically added and the cursor was left over it for insertion.) The user would then type 5 + 6. As the user pressed), the subexpression 5+6 would be evaluated leaving

5*(11)

In the display. The user would then press End Line to display the final answer of 55.

In addition, the calculator mode had implied results. Wherever the user wanted to include the previous result in a new expression, an empty set of parentheses was typed. As the closing parenthesis was entered, the previous result immediately appeared between the parentheses. For example, after computing the previous example, pressing 5 + ( ) would display

5+(55)

The calculator also allowed backing out of any expression, for example after the user pressed the second) in 5*(4+5), the calculator would display 5*(9), but after pressing BACK, the cursor would move back into the parentheses and the display would show 5*(4+5). The user could undo as much of an expression as desired.

Finally, though it was algebraic, it had an input stack. The cursor up/down keys could be used to retrieve previous stacked expressions.

Automatic Dimensioning

Unlike most versions of BASIC, the HP-71B allowed (in BASIC or calc mode) automatic/ dynamic dimensioning. Thus a user could assign d(5)=10 without first dimensioning D. String variables were automatically dimensioned as well.

BASIC Features

Like the HP-85 the HP-71B provided a real time clock and timers with BASIC language support allowing it to be used as a small portable device controller. The language included subroutine calls to BASIC or assembly language with parameter passing and recursion.

Re: HP Basic
*Message #3 Posted by **Tom (UK)** on 22 Jan 2003, 3:34 a.m.,*
in response to message #1 by Jeff

There is a mention of how to program the HP49G in it's user guide. The language used in the examples is not RPL so perhaps this is what they mean as HP BASIC. I'm fairly sure the HP48GX, HP39G and HP9G use a different programming stlye and structure, so to lump them all together as HP Basic implies that HP Basic is not well defined.

The HP web site is not always the best place for descriptions of the features the current line up of calculators offer. e.g. they once posted that RPN stood for Reverse Polar Notation.

Re: HP Basic
*Message #4 Posted by **Holger Weihe** on 22 Jan 2003, 6:12 a.m.,*
in response to message #3 by Tom (UK)

I think the programming of the HP-49G is different if you are in RPN mode or in algebraic mode.

All the examples in the manual are written for algebraic mode, so that the programs look more basic like than on HP-48. HP calls this "HP Basic". Supposingly they are afraid to frighten someone away with complicated looking RPL. (I feel the other way).

When the HP-49 is in RPN Mode, programming is the same as on HP-48. :-)

I was also wondering about mentioned HP Basic programming of the HP-48. Maybe the webdesigners confused something when they removed the HP-49 from their site.

Don't have a 49G here in the moment, so I can't check: What happens if you enter a program in "HP Basic" and then switch over to RPN? Is the program converted, does it still function?

Holger

Re: HP Basic
*Message #5 Posted by **Veli-Pekka Nousiainen** on 27 Jan 2003, 7:37 a.m.,*
in response to message #4 by Holger Weihe

HP 49G only, using ROM 1.19-6 Any RPN program will work in Algebraic mode and show (when edited) with a new command RPL> _before_ the opening program delimiters <<. Like << DUP >> => RPL> << DUP >> Any Algebraic program will work in RPN mode and always show back-quotas outside the program `<< program >>`. Sometimes you see an empty tag :: (preventing the evaluation?) in front of the program, like this :: `<< program >>` If you try this one (keyed in in ALG-mode) << 5|>A ; A+A >> (the |> is an Algebraic version of STO) It will show up as `<< 5|>A ; A+A >>` but will EVALuate first to form << `5|>A` ; `A+A` >>` before finally EVALuating to 10 Go figure! And these can be used in your own programs as well. VPN

Re: HP Basic
*Message #6 Posted by **R Lion** on 27 Jan 2003, 10:11 a.m.,*
in response to message #5 by Veli-Pekka Nousiainen

Hi VPN! I miss you in comp.sys.hp48...

Kind regards from Spain. Raul

Re: HP Basic
*Message #7 Posted by **Raymond Del Tondo (Germany)** on 22 Jan 2003, 6:17 a.m.,*
in response to message #1 by Jeff

Hi,

at least the HP-48GX does *not* have HP-Basic.

AFAIK the latest incorporation of 'HP Basic' was in the HP-71B.

I don't know if the x9 series have something comparable...

Regards,

Raymond

Re: HP Basic
*Message #8 Posted by **HrastProgrammer** on 23 Jan 2003, 4:44 a.m.,*
in response to message #7 by Raymond Del Tondo (Germany)

Well, not quite true :-)

See the thread 'HP-71X: HP-71B MicroCode Emulator for HP-48GX (Preliminary Info)' ...

Re: HP Basic
*Message #9 Posted by **George** on 22 Jan 2003, 6:42 p.m.,*
in response to message #1 by Jeff

HP Basic and BASIC (Beginner's All-purpose Symbolic Instruction Code) are not the same language. The HP-71B is programmable in BASIC. The 38g, 39g, 40g, and 49g are programmed in HP Basic. The 49g is programmable not only in HP Basic but also in Assembly Language and RPL. The 48g series is not programmable in HP Basic but is only programmable in RPL. I used to have a 38g and a 39g but sold them. The program language allowed easier use of display screens. But since I already owned 48sx, 48gx, & 20s, at the time, I didn't take the time to become proficient at another language. Now its easier to just buy the card for the 48gx.

Re: HP Basic
*Message #10 Posted by **Raymond Del Tondo (Germany)** on 22 Jan 2003, 7:30 p.m.,*
in response to message #9 by George

You are right in this aspect, 'HP Basic vs. BASIC'.

When using the term BASIC, or more specific 'HP Basic', I think of the excellent and extremely powerful 'HP Technical BASIC' or 'Rocky Mountain BASIC' as used in the HP9000 Series 300, HP Series 80, and HP Series 70 computers, which I used to control external HP-IB and HP-IL devices in 'real time'.

This could be an analoguous name confusion as HP and Microsoft did with their 'WindowsCE H/PC Pro version 3.01' product, which suggested that it was WinCE 3.x , but in reality it was WinCE 2.11 for H/PC's, not for PPC's...

Regards,

Raymond

Re: HP Basic

*Message #11 Posted by **Chuck Ratliff** on 23 Jan 2003, 1:35 a.m.,*
in response to message #9 by George

Hello friends,

I'm probably stating the obvious to many of you but it appears that the BASIC programmable TI-74 has the look and feel of the HP-71B. TI's flavor of BASIC was no great departure from the many other BASIC flavors popular 'then'.

Perhaps these were competitive products?

www.datamath.org/Sci/Modern/TI-74.htm

Regards to all,

Chuck Ratliff Phoenix, AZ

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Re: HP 15C - broken key?
*Message #1 Posted by **Bob Fourney** on 21 Jan 2003, 12:08 p.m.*

I also let mine sit for awhile (maybe a year). Upon replacing the batteries, everything works EXCEPT the division key (upper right hand corner key). I've been using it for mundane household stuff since then, so the 1/x key has served me well. Now I might need to use it as a real calculator again, and might need the other functionality on that key. I have two questions:

1) This seems like it'd be easy to fix, if I knew what I was doing. I started to take it apart, and then chickened out (this was a year or so ago, I forget if I really got nervous or just realized that the 1/x key would do all I really needed to do). Is this something I can take apart, clean or bend something and put back together? Or is it more complicated?

2) I like the size of the 15C, I don't need graphics or a lot of programability. I also like RPN. Does anybody sell a modern equivalent? HP sure doesn't seem to.

Any other ideas?

Bob Fourney

Re: HP 15C - broken key?
*Message #2 Posted by **David Smith** on 22 Jan 2003, 6:09 p.m.,*
in response to message #1 by Bob Fourney

Most of the HP calculator keyboards have a small hole under each key contact.

If a key has problems making contact or causing double entries, etc. you can almost always fix the problem by making a tiny wire brush out of three bristles from a larger wire brush (I use one of those cone shaped brushes made to be chucked in an electric drill).

Mount the bristles in a razor knife holder or pin chuck.

Twist the bristles together.

Trim the end square with wire cutters.

Place a drop of alcohol (91% isopropyl) in the offending key's hole on the keyboard printed circuit. Be careful not to get alcohol on the display window or keyboard front... it can stain. Dip your tiny wire brush in more alcohol.

Gently scratch around in the offending keyboard hole with the brush. Be careful not to break a bristle off in the hole.

I have seen some woodstock machines with the holes under each key. I fixed one by carefully drilling a hole under the bad key, carefully avoiding the circuit etches on the other side of the keyboard.

Re: HP 15C - broken key?
Message #3 Posted by ***Vieira, Luiz C. (Brazil)*** *on 22 Jan 2003, 9:59 p.m.,*
in response to message #2 by David Smith

Hi;

voyagers are exactly like this: the holes are right under the center of the keys' contacts.

I cleaned the contacts for [2] and [3] keys of my HP15C in this very last weekend and I used the same procedure you mention. It is a lot efficient.

BTW, Bob, let me ask you a silly question (based on the facts you mentioned in your post): do you know how to open the calculator? If you have not done it before, there are four screws under each of the four rubber feet. And please notice that there are two small springs connecting the two upper bezels and the back label, vertically positioned. If you believe you will turn the calculator up while the back half of the case is removed, remove and keep the small springs in a safe place. One of them is right beside the batteries compartment and the other is in the middle of the keyboard, extreme right.

Success, Bob.

Re: HP 15C - broken key?
*Message #4 Posted by **Bob Fourney** on 23 Jan 2003, 3:27 p.m.,*
in response to message #3 by Vieira, Luiz C. (Brazil)

Thanks for the responses.

I have had the back off of it before, I don't remember the tiny springs, but must have gotten them back in since it still works (as well as it did before I opened it up).

I was reading a post here the other day, which sounded like I need to fabricate some shims to and crazy glue the pcb back onto the front of the calc when I'm done. That sounded like more than I want to attempt right now.

I'm teaching a class this semester that'll require the use of the trig functions and some basic vector stuff, so I can muddle by without the "divide", "solve" and x><y" functions (the functionality on the single broken key), but I don't want to break it and have to learn algebraic entry at my advanced age. I'll probably pop the back off one more time and see how far I can get without breaking something. A co-worker showed me her 32S ii today, and said "buy one of these instead", but I see that they are also no longer made. Arghhh. I'm not a marketting guy, but I'd think if you have people willing to pay $100 for a basic RPN calculator instead of $11 for an algebraic entry casio, you'd offer the RPN calculator?

Thanks again for the responses,

Bob Fourney

Re: HP 15C - broken key?
*Message #5 Posted by **David Smith** on 23 Jan 2003, 7:19 p.m.,*
in response to message #4 by Bob Fourney

If your problem is just a dirty key contact there is no need for any calculator surgery beyond removing the back of the machine.

Re: HP 15C - broken key? - an add to David's precise answer
*Message #6 Posted by **Vieira, Luiz C. (Brazil)** on 23 Jan 2003, 8:43 p.m.,*
in response to message #4 by Bob Fourney

Hi;

David is completely right: there is no need to remove the keyboard and reinstall it back.

I'l send you an image of the back of an openned calculator and I'll point out where to clean. So, please, read the very good explanation written by David Smith in his previous post in this same thread and check the image I'm sending you in a few minutes, right? Then you try the actual calculator.

I hope you have success.

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a non-HP RPN calculator
*Message #1 Posted by **Guillermo Castarés** on 21 Jan 2003, 8:19 a.m.*

In addition to collect HP calculators I decided to collect calculators made in my country Argentina. Of these I have models of the brands: microcifra, Magiclick and Norman.

Yesterday I buyed a "new" one: "microcifra 10" a scientific model that operates what I think is true RPN. It has an [E] (enter) key. It has a stack that can have up to 3 levels, a [x<>y] key and two erase keys:

[C] that acts as "drop": if you enter [1],[E],[2],[E],[3],[C] then you have only two levels ("2" is displayed) and if you press [C] again you have only one level ("1" is displayed).

[C*] erases all the stack. Then all you have is "0" in the first level (and the other two levels doesn´t exist). It also clear the memory register.

The calculator operates on 6 AA bateries and have a 8 digit led display.

You can see it in my site: http://ar.geocities.com/casta1967/calculadoras/coleccion/calc43.htm

I don´t know if this could be interesting in this forum but I couldn´t resist to share.

Regards, Guillermo

Re: a non-HP RPN calculator
*Message #2 Posted by **rudi** on 21 Jan 2003, 8:31 a.m.,*
in response to message #1 by Guillermo Castarés

does anyone know of any other non-hp rpn calculators?

Re: a non-HP RPN calculator
*Message #3 Posted by **Dave** on 21 Jan 2003, 8:40 a.m.,*
in response to message #2 by rudi

I suspect that there are several non-HP calculators that use RPN. I have one by Omron, model 12SR. It is scientific and has a 4-level stack. The display looks like vacuum florescent. It is larger than most HPs and the manual appears to be dated 1976.

Re: a non-HP RPN calculator
*Message #4 Posted by **John Smith** on 21 Jan 2003, 8:42 a.m.,*
in response to message #2 by rudi

Have a look at this URL:

Non-HP RPN Calculators

Re: a non-HP RPN calculator
*Message #5 Posted by **Christof** on 21 Jan 2003, 1:47 p.m.,*
in response to message #4 by John Smith

that list is good, I don't think it is exhaustive. I know there is at least one heathkit RPN (IIRC, it had a 5 level stack)

This also depends on how far you go in deciding what is RPN. is a ti59 (or ti89) with an rpn program a non-hp rpn?

Re: a non-HP RPN calculator
*Message #6 Posted by **Katie Wasserman** on 21 Jan 2003, 8:45 p.m.,*
in response to message #5 by Christof

We had a thread running on this topic not long ago:

http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/archv009.cgi?read=21316

http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/archv009.cgi?read=21318

Re: a non-HP RPN calculator
*Message #7 Posted by **Frank Boehm** on 28 Jan 2003, 2:56 p.m.,*
in response to message #1 by Guillermo Castarés

I assume this model has been manufactured by National Semiconductor (also known as Novus) - or at least uses NS parts. The design is very similar to other calculaltors made by them.

If it is (you would have to open it up), it is not considered a real RPN calculator, rather it is an approach to create a cheaper calculator with less logic.

A simpler model, with pseudo-RPN is this one: http://www.elektron.net/docs/calculators/novus/650.jpeg

Re: a non-HP RPN calculator
*Message #8 Posted by **db(martinez,california)** on 28 Jan 2003, 11:59 p.m.,*
in response to message #7 by Frank Boehm

many people would agree with you that the novus 650 in the web address you gave is not an rpn. as i remember; dave hicks once said that a 2 level stack is not true rpn. thats big guns on your side. i may be thick but i think that it is just rpn without a stack.

the microcifra that sr. castares was talking about is a novus mathmatician 4510 "calculator on a chip" in a made-in-argintina body. it is very definatly rpn, has a three level stack and novus had a programmable version too. it had no replicating t register but was more hp-like in operation than hp's first three calculators.

as far as we know; lukasiewicz would have prefered 3 or even 2 level stack type calcs to what we like to use and he might have called everything hp made after the 9810 a "psudo rpn". for me: if i stroke 2 enter 3 + and get 5 then it is rpn.

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Where can I find "N" cell batteries?
*Message #1 Posted by **Steve** on 21 Jan 2003, 8:17 a.m.*

It looks like Radio Shack is discontinuing their NiMH N cell battery. I also couldn't find them on the web (NiCAD Lady). It looks like N cells are going the way of HP calculators. I have a 41cx and I'm concerned that it may be difficult (if not impossible) in the future to find batteries for it. Has anyone found a reliable source?Thanks,

Steve

Re: Where can I find "N" cell batteries?
*Message #2 Posted by **Juergen** on 21 Jan 2003, 10:04 a.m.,*
in response to message #1 by Steve

Here are some N sized NiCd batteries I know of:

- Panasonic P-18N-FT
- Sanyo Cadnica N-150N
- Yuasa 150N
- VARTA 150RS

To rebuild a battery pack:

- Sanyo Cadnica N-50AAA

Note that I'm located in Europe. I don't know if these batteries are also available in the US, but perhaps the information helps you to find a supplier. I use the Sanyo Cadnica, and up to now, they work fine. I've heard that the Panasonic batteries sometimes leak.

I didn't found any N sized NiMH here in Europe. Does anyone know more about this?

Juergen

Re: Where can I find "N" cell batteries?
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 21 Jan 2003, 11:15 a.m.,*
in response to message #2 by Juergen

Hi;

N-cells, mostly alkaline type, are still used in some toys and medical equipment. I'm confident they will not disappear so soon, we can even find some in supermarkets... Maybe the rechargeable ones are hard to be found, specially the NiMH. Also, there are altenatives: if you do not use card reader or optical wand or HPIL that much, chances are we can "build" a pack of smaller 1.5 V cells inside an original 41's batt holder without destroying it.

Cheers.

Re: Where can I find "N" cell batteries?
*Message #4 Posted by **Renato** on 21 Jan 2003, 2:04 p.m.,*
in response to message #2 by Juergen

GP (www.gpbatteries.com.hk) also has N size NIMH - code GP50NH, rated at 500mah.

Re: Where can I find "N" cell batteries?
*Message #5 Posted by **Jürgen (CH)** on 22 Jan 2003, 1:29 p.m.,*
in response to message #4 by Renato

Do you know where to buy batteries from this manufacturer?

Re: Where can I find "N" cell batteries?
*Message #6 Posted by **Andreas Müller(GER)** on 22 Jan 2003, 5:37 a.m.,*
in response to message #2 by Juergen

Hi Juergen, there is a NiMH cell called NH GP 28AAA-1Z (GP is the manufacturer) available at www.reichelt.de. The cell is specified with 280mAh and the size is called 2/3AAA. This cell has a N sized length but is a bit taller (10mm instead of 11.5mm) and it is equipped with solder tabs. Removing the tabs carefully is quite easy; At least I have done that. And it fits very good in my HP-41. Hope that helps.

Kind regards, Andreas

Re: Where can I find "N" cell batteries?
*Message #7 Posted by **Jürgen (CH)** on 22 Jan 2003, 1:09 p.m.,*
in response to message #6 by Andreas Müller(GER)

Andreas,

great news! Thank you much for this valuable information. Just one minor drawback: the company ships to Switzerland, but the minimal order value is EURO 50.-.

Unfortunately, I bought NiCd cells a month ago, and they are not very eco friendly. I guess I have to sell them and get some NiMH batteries.

Regards, Jürgen

Re: Where can I find "N" cell batteries?
*Message #8 Posted by **Renato** on 21 Jan 2003, 2:00 p.m.,*
in response to message #1 by Steve

Some cordless phone battery packs *seem* to use N nicad cells. There are many manufacturers and pack options (2,3 or 4 cells). May I suggest you take a battery of yours and compare to the cells in the packs. You'll have to disassemble it, but it is not a big trouble.

n cells
*Message #9 Posted by **db(martinez,california)** on 21 Jan 2003, 11:46 p.m.,*
in response to message #8 by Renato

renato; if those n cells you are talking about are the ones in my sony cordless they are about the right legnth but a bit too fat. maybe with a bit of work.... try it and tell us. i looked and gave up

b.t.w.: way back in history, long long ago, in a galixy far far away, motorola used 3 n cells to power a tiny am transistor radio. i bet the owners of that radio were happy when the 41 came out.

Re: n cells
*Message #10 Posted by **Martin (England)** on 22 Jan 2003, 4:04 a.m.,*
in response to message #9 by db(martinez,california)

Duracell make N type alkaline batteries. My HP-41CV is running on them now, so I know they're the right ones! I got mine from Maplins, and I've seen them in Dixons.

Try the Duracell website.

Martin

Re: Where can I find "N" cell batteries?
*Message #11 Posted by **David Smith** on 22 Jan 2003, 6:14 p.m.,*
in response to message #1 by Steve

Cheapest place I have found alkaline "N" cells has been Home Depot. I hate going there because they always seem to stack bags of nasty smelling lawn chemicals and insectcides near the entry door. They also seem to only have one or two checkout stands open durung noon and evening rush... lines are needlessly long and slow.

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Will freezing temps hurt my calcs?
*Message #1 Posted by **erik** on 21 Jan 2003, 8:13 a.m.*

I've got to store my calcs for a while and am thinking about that attic. only, right now, it's freezing up there, if not a few degrees below freezing. is that going to cause me any problems?

Re: Will freezing temps hurt my calcs?
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 21 Jan 2003, 9:27 a.m.,*
in response to message #1 by erik

Hi, Erik;

I am almost sure all of the HP calculator's manuals specify storage and operating temperature ranges. Try to check for them, I am sure the old ones came with this information. I have the HP25 Manual in hands and in page 106 it specifies 32ºF to 113ºF (0ºC to 45ºC) for operation and -40ºF to 131ºF (-40º to 55ºC) for storage. Also, for the HP48, page A-4 in the User's Guide, we have the same range for operation and -4ºF to 149ºF (-20º to 65ºC) for storage.

You can't LITERALY go to h... with them, but you may surely store them in below 0ºC without trouble...

Hope it helps. Sorry for the kidding...

Cheers.

Re: Will freezing temps hurt my calcs?
*Message #3 Posted by **Randy Sloyer** on 21 Jan 2003, 9:47 a.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

At the risk of stating the obvious, while the calculators can take the extremes for storage, the batteries surely will not. Never store them with batteries installed, no matter what the battery type is.

Re: Will freezing temps hurt my calcs?
*Message #4 Posted by **Ellis Easley** on 21 Jan 2003, 11:14 a.m.,*
in response to message #3 by Randy Sloyer

Put the calculators in ziplock plastic bags to prevent humidity from condensing on them when the temperature cycles. If you store the boxes and accessories with them, put the whole package in a large ziplock bag.

Re: Will freezing temps hurt my calcs?
*Message #5 Posted by **Vieira, Luiz C. (Brazil)** on 21 Jan 2003, 11:17 a.m.,*
in response to message #4 by Ellis Easley

Hi;

better yet, keep a dehydrating gell pack inside the ziplock bag, too. Just in case.

Cheers.

Re: Will freezing temps hurt my calcs?
*Message #6 Posted by **Michael Meyer** on 21 Jan 2003, 2:12 p.m.,*
in response to message #5 by Vieira, Luiz C. (Brazil)

Be careful, though, storing the HP-41. This model, (both full and half nut's) are especially susceptible to damage by freezing.

This is often referred to as, "freezing your nuts."

(Sorry... couldn't resist. Just kidding.)

You are an insane man...
*Message #7 Posted by **Vieira, Luiz C. (Brazil)** on 21 Jan 2003, 2:30 p.m.,*
in response to message #6 by Michael Meyer

;-) Just kidding... I hope.

Re: You are an insane man...
*Message #8 Posted by **R Lion** on 21 Jan 2003, 3:31 p.m.,*
in response to message #7 by Vieira, Luiz C. (Brazil)

Hi Luiz: I'm still laughing of your frozen nuts :-D...

Well... seriously: I know the "blacknut" version of the 41, but what is "half nut" and "full nut"?

Thanks in advance and excuse my 41 ignorance

Raul

Re: You are an insane man...
*Message #9 Posted by **Vieira, Luiz C. (Brazil)** on 21 Jan 2003, 4:23 p.m.,*
in response to message #8 by R Lion

Hi;

I had a look at the Museum pages and I did not find the page were the differences are pointed-out. Externally you just have a different (some think it's a worst) key feeling in the newer halfnuts, and their LCD has rounded corners instead of the sharp-edged ones found in the fullnuts (earlier). Internaly the HW was reduced such the halfnuts do not have an extra mainboard as the earlier fullnuts, and you will find one PQPF-type mainprocessor directly soldered in the keyboard (inner face). RAM/ROM/Display drier are built in the LCD assy, and for the CX, and extra PCB will hold time and X-functions chips.

Despite these external and internal differences, both types are fully compatible with eachother.

Cheers.

Re: You are an insane man...
*Message #10 Posted by **Renato** on 21 Jan 2003, 4:30 p.m.,*
in response to message #9 by Vieira, Luiz C. (Brazil)

Luiz, if I understand this american slang,"nuts" in this case could be translated as "bagos", or "bolas"...

Re: You are an insane man...
*Message #11 Posted by **R Lion** on 21 Jan 2003, 4:59 p.m.,*
in response to message #10 by Renato

In spanish (not very polite) "huevos" (eggs)

Raul :-)

The things one learns from this web site... :-)
*Message #12 Posted by **Tom (UK)** on 22 Jan 2003, 7:10 a.m.,*
in response to message #11 by R Lion

The things one learns from this web site... :-)

Re: You are an insane man...
*Message #13 Posted by **David Smith** on 22 Jan 2003, 6:17 p.m.,*
in response to message #11 by R Lion

Can't forget them cojones either...

Re: You are an insane man...
*Message #14 Posted by **Vieira, Luiz C. (Brazil)** on 21 Jan 2003, 5:25 p.m.,*
in response to message #10 by Renato

Yes; it's the same!

I hope Dave does not cut us off...

Re: You are an insane man...
*Message #15 Posted by **R Lion** on 21 Jan 2003, 5:01 p.m.,*
in response to message #9 by Vieira, Luiz C. (Brazil)

Thanks Luiz: I saw those screen differences sometime ago...

raul

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Using the RS-232 HP/IL Interface

*Message #1 Posted by **Steve** on 20 Jan 2003, 10:38 p.m.*

So I gathered the required equipment (HP/IP, Ext I/O, RS-232) and now I'm trying to get it to work. I have been able to OUTP a program from the 41 to the PC, but I have not been able to transmit it back to the 41 (INP) for a full round trip. I'm using Windows Terminal to receive, and the type command to send. I've found some Linux utilities, is there anything for Windows that automates the process? I can't be the only one to attempt this, or am I?

Steve

Re: Using the RS-232 HP/IL Interface

*Message #2 Posted by **andy** on 21 Jan 2003, 9:34 a.m.,*
in response to message #1 by Steve

You're not the only one. I've attempted it with similar results. I was using HPVEE (a program that allows you to communicate with serial and HPIB ports).

I had similar results. I could upload a program easily. I could also download small programs, but I did not have success with larger programs. About that time I got an hpil/isa interface and an old 286 and am now using LINK+ for all my pc-hpcalculator comms.

I was thinking that the longer programs wouldn't transfer because the 82164's buffer fills up. The small programs don't fill the buffer so they go through. I think it may be just getting the settings right.

I am still interested in getting my 82164 to work though. You might try emailing Tony Duell (sp?). He programmed the linux versions. Please let me know if you learn anything new and I'll do the same.

Andy

Re: Using the RS-232 HP/IL Interface
*Message #3 Posted by **Hans Brueggemann [GER]** on 21 Jan 2003, 1:22 p.m.,*
in response to message #2 by andy

...i am currently working on a program that faciliates data transfers between windows PCs and HP41s that are interconnected via rs232 - HP-IL interface. if you are interested in beta-testing, you might like to give it a try. just drop me a mail and i'll be sending the program to you. i would be very happy to know that at least someone (except me)has some fun in using it. what you will need: 1)HP-41C, 2)X-IO module, 3)HP-IL-module, 4)82164A, PC with Windows 98 (that's the only O.S. that i have tested so far).

cheers, hans

Re: Using the RS-232 HP/IL Interface
*Message #4 Posted by **Steve** on 21 Jan 2003, 2:46 p.m.,*
in response to message #3 by Hans Brueggemann [GER]

I'd be happy to beta test it. What's your email address?

Steve

Re: Using the RS-232 HP/IL Interface
*Message #5 Posted by **andy** on 21 Jan 2003, 4:12 p.m.,*
in response to message #3 by Hans Brueggemann [GER]

Please count me in as a beta tester too.

I have an 82164a, an hp41cx, and an extended i/o rom.

Thanks,

Andy

Re: Using the RS-232 HP/IL Interface
*Message #6 Posted by **Michael Tjebben** on 21 Jan 2003, 6:37 p.m.,*
in response to message #3 by Hans Brueggemann [GER]

I, too, would love to be a beta-tester and would be willing to write comments or a review for you.

-Mike

Re: Using the RS-232 HP/IL Interface
*Message #7 Posted by **Michael O. Tjebben** on 26 Jan 2003, 8:53 p.m.,*
in response to message #6 by Michael Tjebben

Well, I couldn't resist putting in a public plug for Hans Brueggermann's HPILCOM program!

He was kind enough to email it to me to try, and I LIKE it very much! It has a very professional graphical interface which includes a "browser" window from which one can see programs that reside in a particular directory on the PC which are selectable for downloading to the HP41. What is especially nice, though, is that one really controls all of the transfers both to and from the HP41 from the HP41 itself. The HPILCOM program, runnning on the PC, simply facilitates the transfers to and from the HP41 and allows monitoring the progress of the transfer with a progress bar and status "LED's".

To send a program to the PC, one types in the name of the program on the HP41 into the alpha register and executes OUTP. That's it! The HPILCOM program receives the program, monitors the progress, displays the received program, and stores it to the PC.

To get a program from the PC, one first drags the program to a particular directory on the PC which can be viewed from the HPILCOM's "browser" window and then executes a small program on the HP41 called GETFL. GETFL prompts for the name of the program that is visible in the browser window and then gets it: the HPILCOM program does the "handshaking" with the GETFL program and sends it to the HP41 as initiated by the HP41 via the GETFL program.

He also has a routine built into the HPILCOM program that allows the HP41 to initiate getting the PC's time and date and transfering it to the HP41, from which another HP41 program that he provides will set the HP41's time and date to match! The programs on the HP41 are VERY short! You must have an EXTENDED I/O

module, however, though it looks like he has done some experimenting with the CCD module. I'm not so familiar with that module, so I may have misunderstood if it could be used as well.

He also has built-in "hooks" to the HP41UC.exe program, from within HPILCOM, such that one can translate from RAW to DAT mode by checking "radio" buttons withing HPILCOM. Furthermore, he has "hooks" for future enhancements, including character translations that, I believe, will be done on-the-fly during transfers.

Finally, he has radio buttons to allow auto-commenting for alpha characters, XROM numbers, and no-label tags for HP41UC compatibility.

VERY NICE! His program makes using the HP82164A to transfer programs to and from the HP41 as seemless as possible. THANK YOU, Hans!

-Mike (running HPILCOM on Windows ME)

oops... remove 'dumpsam' from my above mail address (n.t.)
*Message #8 Posted by **Hans Brueggemann [GER]** on 21 Jan 2003, 7:58 p.m.,*
in response to message #3 by Hans Brueggemann [GER]

sorry.

Re: Using the RS-232 HP/IL Interface
*Message #9 Posted by **Andreas Müller(GER)** on 22 Jan 2003, 5:47 a.m.,*
in response to message #3 by Hans Brueggemann [GER]

Hi Hans,

I, too, would appreciate of being a beta tester. I am happy to own all that stuff you listed, so, give me a try.

Kind regards, Andreas

Re: Using the RS-232 HP/IL Interface

*Message #10 Posted by **Daniel Diggelmann** on 22 Jan 2003, 5:52 a.m.,*

in response to message #3 by Hans Brueggemann [GER]

Hi Hans,

I'd actually also like to try your program and will sure write you my experiences.

Best Regards from Switzerland Daniel

Re: Using the RS-232 HP/IL Interface

*Message #11 Posted by **Tony Duell (UK)** on 21 Jan 2003, 7:05 p.m.,*

in response to message #2 by andy

Yes, feel free to e-mail me about INP and OUTP and using the 82164 for HP41->PC communications. However, please realise that all I can tell you is how __I_ did things, and how the HP41/82164 works. I can't help with PC operating systems other than the (ancient) version of linux I run. A few points, though. Firstly, the HP41's INP command is very 'picky' about what it receives. It will abort the transfer if it receives anything other than the right hex characters. This means no whitespace, no newlines, etc. Secondly, the 82164 buffer is fairly small, so you must use some kind of handshaking. I prefer hardware handshaking, using the RTS/CTS (etc) lines -- using XON/XOFF _will_ cause problems if you ever want to transfer binary data (where these characters can occur naturally in the file). This won't be a problem with the HP41, it could well be a problem with the HP71 (I wanted to be able to use both machines). Thirdly, the person who designed the 82164 never had to use one, and probably never used any other RS232 device. At least that's the only explanation I can give for the behaviour of the handshake lines. They are _crazy_. One pair is associated with the transmitter side, the other with the receiver. This means a normal null-modem cable will not work unless the serial port you're connecting to is equally crazy. Linux serial ports aren't! Forthly, ignore that DTE/DCE jumper inside the 82164, it does strange things to some of the handshake lines. Keep it in the DTE position, and wire the right external cable. . OK, how to get it working (at least the initial steps). (1) If your PC can use RTS/CTS for handshaking (as Linux does), make up the adaptor shown in my linux utils documentation. If not, then you'll have to read the 82164 manual and work out the right wiring (2) Enable hardware handshaking on the PC port. (3) Run the SETRS program (from my linux program docs again) on the HP41 to enable hardware handshaking on the 82164 (and set some other parameters). (4) Use OUTP on the HP41 to send a reasonably-long program from the HP41 to the PC, and capture it in a file. Then run INP on the HP41 and send the same data back again. Don't go any further until you've got this working. If it doesn't work, then you need to put an RS232 tester, breakout box, or datacomms analyser between the PC and the adapter cable (this is the point where the handshake lines should be relatively sane!) and see what's going wrong. (5) Either port my linux versions of INP41

and OUTP41 to your OS, or write your own versions (read the comments in my programs to get the data format, etc).

Re: Using the RS-232 HP/IL Interface
*Message #12 Posted by **Steve** on 22 Jan 2003, 9:43 a.m.,*
in response to message #11 by Tony Duell (UK)

I have not tried Han's program yet, but I do have a round trip transfer of a large program working with just some basic tools!

I used a shareware app called slurp to read bytes from COM1 and save them to a file. I then send the bytes from the file using "type filename >COM1". I enabled XON using the mode command, and set baud to 9600, parity to none, data bits to 8, and stop bits to 1. I did not make any configuration changes to the HP-IL/RS-232. To make things easier I changed the jumper on the RS-232 from DTE to DCE.

As Tony pointed out, this works for a HP-41, since the byte stream is ascii. If you use a 71 (I don't have one) you will need to use hardware handshaking and the DCE setting will not work.

I hope to try Han's app tonight, but for now I'm just happy I found a way to send/receive using the 41!

Steve

Re: Using the RS-232 HP/IL Interface
*Message #13 Posted by **Chris(FLA)** on 23 Jan 2003, 8:53 a.m.,*
in response to message #12 by Steve

I did not make any configuration changes to the HP-IL/RS-232. To make things easier I changed the jumper on the RS-232 from DTE to DCE.

As Tony pointed out, this works for a HP-41, since the byte stream is ascii. If you use a 71 (I don't have one) you will need to use hardware handshaking and the DCE setting will not work.

I used Tony's Linux utilities with my 71. I switched the jumper in the 82164 contrary to what Tony says in his directions and I ran the setrs utility and transfered programs to/from my 71 to my PC no problems. Maybe I'm lucky I don't know but I didn't need a null modem adaptor.

You definitly need hardware flow control set as he points out the 82164 has a small buffer and will easily be overun if you don't have this set.

My $.02 FWIW.

Re: Using the RS-232 HP/IL Interface
*Message #14 Posted by **David Smith** on 22 Jan 2003, 6:23 p.m.,*
in response to message #1 by Steve

The TYPE command puts in all sorts of formatting characters (line feeds, etc). Type the COPY /B file COM1... the /B says it is a binary file and not to mess with the contents. Some COPY commands have parameters that can control handshaking.

Re: Using the RS-232 HP/IL Interface
*Message #15 Posted by **Steve** on 23 Jan 2003, 8:34 a.m.,*
in response to message #14 by David Smith

The type command doesn't add formatting characters, but it is only for printable (ascii) characters, and therefore will only work with the 41. I used it to output a 400 byte file to the 41 and it worked flawlessly. If there was a CR or LF added the checksum would have been invalid and the INP would have failed with a data error.

Steve

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Spice battery flex circuit
*Message #1 Posted by **Renato** on 20 Jan 2003, 9:58 p.m.*

I got a flex circuit for a TV set - looks like I will be able to use this on my recently bought 34C. Has anyone tried something like this ?

Re: Spice battery flex circuit - built from scratch
*Message #2 Posted by **Renato** on 22 Jan 2003, 8:56 a.m.,*
in response to message #1 by Renato

Responding to myself. I abandoned the tv flex circuit and built a flex circuit from scratch - a "sandwich" with chomerics double sided copper laminated, and scotch tape as "bread". Not original, but much better that wire. Had some work soldering to the power supply board. The 34c is fine, survived surgery without consequences.

Re: Spice battery flex circuit - built from scratch
*Message #3 Posted by **Pyerre** on 22 Jan 2003, 12:55 p.m.,*
in response to message #2 by Renato

Hello Renato, There're various kind of flex cables can be stolen from old HDD's (used to connect the R/W heads to logic board). Those cables looked like the original one & could do the job. HTH, Pyerre

Re: Spice battery flex circuit - built from scratch - Battery contacts
*Message #4 Posted by **Renato** on 22 Jan 2003, 1:44 p.m.,*
in response to message #3 by Pyerre

Thank you. Nice idea - let's see if I can find a hard disk for this organ donation. Also - what do you use for battery contacts ? I am going to try the metal that protects the window of 31/2" floppy disks , but suggestions would be welcome.

Re: Spice battery flex circuit - built from scratch - Battery contacts
*Message #5 Posted by **David Smith** on 22 Jan 2003, 6:28 p.m.,*
in response to message #4 by Renato

Small Parts, Inc sells beryllium copper strip. It is IDEAL for making spingy contacts. For inferior results phosphor-bronze can be used. I use small aircraft rivets to attach the contacts. Small (#0) screws can also be used. Also SIG makes small brass eyelets that work well. You can get them at hobby shops that sell model aircraft parts.

As far as using flex circuits for replacing the original contact cable... way too much hassle soldering, etc. Just use small stranded wire. I get mine from the various motherboard connections to PC front panels.

Re: Spice battery flex circuit - built from scratch - Battery contacts
*Message #6 Posted by **Pyerre** on 22 Jan 2003, 6:33 p.m.,*
in response to message #4 by Renato

Hi Renato, About the battery contacts, the "metal spring" type used as ESD purpose, the ones found inside the computer cabinets, could do the good job as well. HTH, Pyerre

Re: Spice battery flex circuit - built from scratch - Battery contacts
*Message #7 Posted by **Renato** on 23 Jan 2003, 8:44 p.m.,*
in response to message #4 by Renato

David, Pyerre - thank you for your suggestions. I went to two hobby shops here in Brazil - they don´t carry rivets, eyelets or smal screws. I tried to find old computer cabinets, but had no luck yet. As for using wire in place of flex circuits. I have done that twice, but decided to try flex circuits, because I think that wire is too crude for these nice machines.

Re: Spice battery flex circuit - built from scratch - Battery contacts
*Message #8 Posted by **Christof** on 23 Jan 2003, 10:00 p.m.,*
in response to message #7 by Renato

I've got two 32E machines undergoin restorative surgery right now. If anyone has picture to help me trace (some of the paths at the battery side are eaten to the point of non recongnizability.....

I have considered tape and wire, but I think I may try using modeller's house elctrical wiring- which happens to be flat ribbon tape (with two copper conductors side by side)!

if you have a store that caters to hobbyists who work on model railroads and model houses (extravagant doll houses), you may find some.

for batteries, why not solder the leads from 2AAA cell srping holder? (assuming one will fit.) a pair or high cap aaa rechargables should work fine.

Re: Spice battery flex circuit - built from scratch - Battery contacts
*Message #9 Posted by **Pyerre** on 23 Jan 2003, 11:00 p.m.,*
in response to message #7 by Renato

Hi, Take a look at your PC at home. Many of them are so equiped with those ESD metal spring clips installed between the cabinet's edges & the cabinet's cover. They're looked & work nice in my HP-33E. HTH, Pyerre

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Batteries for 82120
*Message #1 Posted by **Renato** on 20 Jan 2003, 9:30 p.m.*

I read a *ancient* post stating that in a 9V nicad battery, there are 6 1/2N cells. Can anyone confirm this information - just before I crack open a US$10,00 battery ?

Re: Batteries for 82120
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 20 Jan 2003, 10:05 p.m.,*
in response to message #1 by Renato

Hi;

yes, many 9V "squared" pack I disassembled had 6 cells inside, BUT there are no guarrantees of what type/size/format. I mean ALKALINE batteries.

Once I oppened an already discharged 9Volts Ever(r)eady batt and I found 6 LR44-type cells, no brand. Four of them were stacked and the other two were lined with the stack. They perfectl; y fit in the 9V box. So, I bought a fresh, new 9V Eveready, externally the same type and oppened it. I found 6 thin batteries, one aside the other, as six sticks. I could not use them anywhere but in some experiences. Later, in another same Eveready-type, I found six bar-type, squared stacked cells. This one had no specific case for each cell, it was really a stack-type battery. Three different arrangement, three different cell types, same brand.

I do not know about the rechargeable ones (is yours a NiCad or an NiMH?), but I am "almost" sure there will be six cells, serial connection, ~1.5 (or ~1.28) volts each. About size and shape, I have no guess.

Success. And tell us about it, please!!!

Cheers.

Re: Batteries for 82120
*Message #3 Posted by **Renato** on 21 Jan 2003, 1:27 p.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

I opened the GP 9v (8.4V) nicad pack. It is a stack of 7 rectangular flat cells - very nice packaging, cells are housed in transparent hard plastic. Looks like four of them, in two stacks of two cells will fit 82120. Capacity is 150mah.

Very good news, indeed!
*Message #4 Posted by **Vieira, Luiz C. (Brazil)** on 21 Jan 2003, 2:37 p.m.,*
in response to message #3 by Renato

Hi;

it seems we have another NiCad supply... Would you specify the GP 9V brand?

Also, do you have an idea about how to locate the metal contacts inside the 82120A? The original ones are part of the rechargeable cells themselves.

Thank you a lot, Renato.

Cheers.

Not so good news
*Message #5 Posted by **Renato** on 21 Jan 2003, 4:24 p.m.,*
in response to message #4 by Vieira, Luiz C. (Brazil)

Oops. Don´t do this at home ! I separated two sets of two cells from the 9v battery - when I did this the cells came apart, exposing the chemicals - I know cadmium is dangerous. So end of story - I dropped cells at the battery disposal basket at the mall.

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I didn't understand this e-bay announcement
*Message #1 Posted by **Vieira, Luiz C. (Brazil)** on 20 Jan 2003, 7:28 p.m.*

Hi;

Am I seeing things?

Why is it reading Vintage HP 21 Graphing Calculator and Case!?

I cannot understand...

Re: I didn't understand this e-bay announcement
*Message #2 Posted by **Randy Sloyer** on 20 Jan 2003, 7:35 p.m.,*
in response to message #1 by Vieira, Luiz C. (Brazil)

Luiz,

You understand completely and without confusion. It is the seller that is confused.

Unless you want to discuss drawing graphics with the 7^2 possibilities of each digit the led display...

Re: I didn't understand this e-bay announcement
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 20 Jan 2003, 9:07 p.m.,*
in response to message #2 by Randy Sloyer

Hi, Randy;

How come he used an HP21 in the 70's and is not able to remove the battery pack and even know what sort of battery is inside there? Put this together with the claimed graphing capabilities and we have someone that has no idea of what he has in hands.

Teasing, isn't it?

Well, this is none of my business, instead.

Cheers.

Re: I didn't understand this e-bay announcement
*Message #4 Posted by **Dave** on 20 Jan 2003, 10:17 p.m.,*
in response to message #3 by Vieira, Luiz C. (Brazil)

Reality-

he opened up the batteries after being left in since the seventies - lots of corrosion and no chance of working. Just trying to get someone to bid an unreasonable amount. Must not have done so well in school if he couldn't figure out how to open the battery compartment!

Re: I didn't understand this e-bay announcement
*Message #5 Posted by **Scott Pritchard** on 21 Jan 2003, 9:08 a.m.,*
in response to message #1 by Vieira, Luiz C. (Brazil)

That comes under the heading of ignorance or creative advertising. Scotty

Re: I didn't understand this e-bay announcement
*Message #6 Posted by **David Smith** on 22 Jan 2003, 6:31 p.m.,*
in response to message #5 by Scott Pritchard

Or a bad case of rectal-cranial inversion...

...
*Message #7 Posted by **Vieira, Luiz C. (Brazil)** on 22 Jan 2003, 10:05 p.m.,*
in response to message #6 by David Smith

We're soon changing this forum's focus to anatomy... but it hilarious!

just kidding.... ;-) I hope... >>:-)

Re: I didn't understand this e-bay announcement
*Message #8 Posted by **Tom (UK)** on 23 Jan 2003, 1:00 p.m.,*
in response to message #1 by Vieira, Luiz C. (Brazil)

Now relisted as:

"Vintage HP 21 Scientific Calculator and Case!"

However it still says the battery cover has defeated their best efforts and the seller seems to have a problem with his memory as the text has changed FROM:

"This great little calculator got me through all my college Chemistry and Physics classes in the mid-seventies and having the ability to graph out equations with it was truly AWESOME back then!"

TO:

"It's been 25 years since I used this calculator, but it was a great little workhorse during my college Chemistry and Physics classes in the mid-seventies!"

Re: I didn't understand this e-bay announcement
*Message #9 Posted by **David Smith** on 23 Jan 2003, 1:28 p.m.,*
in response to message #8 by Tom (UK)

I have found that if you cannot open the battery compartment of a woodstock machine, it contains a wonderful surprise... the biggest crop of white powder and green fuzzies that you have ever seen has grown inside the machine. Probably your keyboard keys have a lovely crunchy feel also.

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HP omnibook2100 monitor Driver
*Message #1 Posted by **Jose** on 20 Jan 2003, 7:19 p.m.*

Hi!!

I had to format my Omnibook 2100 and reinstalled w98 second edition. I have not been able to configure the monitor that runs 640*480 and 16 colours. Also the systems does not use the complete screen size (only partially viewed)

I know that there might be drivers for this problem, but HP support center does not offer a solution. Also, I believe that there is a Driver used on a Toshiba Laptop that might work.

Any suggestion?

Thanks

Re: HP omnibook2100 monitor Driver
*Message #2 Posted by **Glen Kilpatrick** on 21 Jan 2003, 1:03 a.m.,*
in response to message #1 by Jose

This forum is for _calculators_ & similar. A better forum for your question would be the HP Forum for "notebook PCs - omnibooks" @ http://forums.itrc.hp.com/cm/CategoryHome/1,,410,00.html - you get maximal exposure to those inside HP who might know the answer, the postings you read are so volunteered, on their own dime and not off their salary, and nothing they say is officially supported. And hey, someone with a similar problem might even be reading your post.

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HP28C/S: Hardware I/O basics
*Message #1 Posted by **Christoph Giesselink** on 20 Jan 2003, 3:47 p.m.*

Hello together,

the MoHPC article "HP28S: Hardware I/O basics" has been updated by Dave. I fixed some flaws in it.

In addition I added "HP28C: Hardware I/O basics" to the MoHPC article section. This article describe some hardware fundamentals of the HP28C I used in the Emu28 emulator available at http://privat.swol.de/ChristophGiesselink.

I hope you enjoy it,

Christoph

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Re: Ebay feedback question
*Message #1 Posted by **Pocketcom Mania** on 20 Jan 2003, 1:26 p.m.*

It's meaningless to leave any neutral or negative feedback on the seller's a/c. No one will care! In your case, however, it's your responsibility to ask for more information from the seller before you bid. Failure to mention some cosmetic problems does not constitute an act of mispresentation.

Re: Ebay feedback question
*Message #2 Posted by **Don Davis** on 20 Jan 2003, 9:46 p.m.,*
in response to message #1 by Pocketcom Mania

Pocketcom Mania:

You are perhaps right that I should have asked, and that minor cosmetic problems should not be a big deal unless an item is listed as mint or near-mint. However, badly corroded terminals, missing feet, and other such defects which are not shown in the pictures go beyond this. If you have ever been in the position of being a buyer, you may realize that it is difficult to guess all of the ways an unscrupulous seller might try to cheat, and then ask about all of them specifically. Since I did offer to accept a partial refund, I think I was more than accomodating in my efforts to find a mutual solution. At any rate, having your viewpoint is valuable to me and other members of this forum. It may give valuable insight in future auctions.

Best regards, Don Davis

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RAMBOX-ROM-File for 41CX
*Message #1 Posted by **Simon Strach** on 20 Jan 2003, 12:34 p.m.*

Does anyone have the ROM-File for the RAM-Box the HP-41 CY?

It used to be produced by W&W-Software Wilfried Koetz.

XROM 30.XX

I need it to be run in emu41 to load RAM-Modules off old LIF-Disks previously stored via IL-9114, which I don't have any more.

Does anyone know additional ways to load those files to emu41 ? Example: "DIR" ABC ?? 640 DEF ?? 640

asf.

I appreciate any hint at s.strach@t-online.de

Re: RAMBOX-ROM-File for 41CX
*Message #2 Posted by **Emmanuel, France** on 20 Jan 2003, 3:45 p.m.,*
in response to message #1 by Simon Strach

Is it copyright?

Re: RAMBOX-ROM-File for 41CX

*Message #3 Posted by **Mike (Stgt)** on 22 Jan 2003, 5:31 a.m.,*

in response to message #2 by Emmanuel, France

AFAIK, yes. At least there was a routine what makes COPYPG and WRTPG fail for it.

Ciao.....Mike

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HP 82055A Charger
*Message #1 Posted by **Ken Delano** on 20 Jan 2003, 11:07 a.m.*

I have this charger, but I don't know what it goes to. It may be some other HP item and not a calculator. Does anyone know?

Re: HP 82055A Charger
*Message #2 Posted by **Ulrich Staudt** on 22 Jan 2003, 8:14 a.m.,*
in response to message #1 by Ken Delano

Hi Ken,

the 82055A is a DC/DC converter/ battery charger for the 21 (Woodstock) series.

Kind regards Ulrich

Re: HP 82055A Charger
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 22 Jan 2003, 9:17 a.m.,*
in response to message #2 by Ulrich Staudt

HI;

do you also know the input voltage/range? Would it be a car adaptor or something like this?

Thanks.

Re: HP 82055A Charger
*Message #4 Posted by **Ken Delano** on 23 Jan 2003, 6:12 p.m.,*
in response to message #3 by Vieira, Luiz C. (Brazil)

It is missing the input cord, but it is marked "use 10 - 16 V DC only" I wonder how it was used?

Ken

Re: HP 82055A Charger
*Message #5 Posted by **David Smith** on 23 Jan 2003, 7:20 p.m.,*
in response to message #4 by Ken Delano

It was the automobile charger/power pack... plugged into the cancer stick ignitor port...

Re: HP 82055A Charger
*Message #6 Posted by **Vieira, Luiz C. (Brazil)** on 24 Jan 2003, 12:04 a.m.,*
in response to message #5 by David Smith

... now with a much nobler utility.

>;-)

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"The quality will remain...
*Message #1 Posted by **Juergen** on 20 Jan 2003, 10:00 a.m.*

"The quality will remain long after the price is forgotten."

(Frederick Henry Royce)

I think this quote from one of the founders of Rolls-Royce Motor Cars also applies to the older HP calculators (sorry, I've no experience with the newer models). HP calcs were not cheap but they were (and still are) worth the money.

Just for fun, here is another citation from a Rolls-Royce brochure I have (unfortunately, I have only the brochure - without price list - but no car; perhaps you have one to trade against an HP-41CV):

A Timeless Pleasure

There is no devotion as deep or as pure as the devotion of the afficionado for his Rolls-Royce or Bentley. If he is not driving it, he is polishing it. He does not begrudge it his last penny or the last second of his spare time. He will heat its garage better than his house. [...]

He thoughtfully provides for its future in his will. He will travel hundreds of miles on the strength of a rumour (nearly always unfounded) that a specimen he covets lies dusty and forgotten in some distant barn.

He joins a club. To meet some of ten thousand others all over the world with the same madness. To gain access to technical and historical information. [...]

Today, most products are built for short-term usage; tomorrow, they are outdated or broken. But, for example, the HP-41 is still a perfect calculator nearly 25 years after his introduction, and it still looks very nice and modern. I like these things that are useful over such a long time. And you?

Re: "The quality will remain...
*Message #2 Posted by **Chris Randle (UK)** on 21 Jan 2003, 6:28 a.m.,*
in response to message #1 by Juergen

Hi Juergen,

Sentiments that we can all relate to.

Perhaps any motoring historians on this list can correct me, but I have a gut feeling that Henry Royce never made that statement. He died in 1933 shortly after the buy-out of Bentley by Rolls-Royce but before any Bentleys had been built by R-R (bar one prototype). Anyone know? Not that it's important!

As for "the quality will remain long after the price is forgotten", at 10mpg and $1,500 for a routine service, price can never be far from the mind of a Rolls-Royce or Bentley owner ;-) At least batteries are cheap!

Re: "The quality will remain...
*Message #3 Posted by **Juergen** on 21 Jan 2003, 9:33 a.m.,*
in response to message #2 by Chris Randle (UK)

The quote is from an official R-R brochure I've got twenty years ago at the Geneva International Motor Show.

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Practical "challenge" for the 42S
*Message #1 Posted by **Karl Schneider** on 20 Jan 2003, 2:51 a.m.*

All --

I didn't want to compete with Katie Wasserman's challenge regarding implementation of the MOD function on non-equipped RPN calc's ("A New Challenge"), but I'd say that Ed Martin probably nailed it ("A New Challenge - Improved").

Here is a small issue regarding the HP-42S that has puzzled me. Like the 15C, the 42S offers a full 4-element stack for complex numbers. Both machines have similar primary methods of entering complex numbers, basically combining real numbers in the X- and Y-registers into a complex-valued number.

A "challenge" lies in expediently entering a fourth complex number from the keyboard into the X-register without pushing off the contents of the Z-register. This can be done with the 15C -- to enter, e.g., 1+j2, one could do the following:

2 Re<->Im CLx 1

For the 42S, however, I can't figure out how to enter the fourth complex number without pushing the Z-register value off and without using named or numbered storage registers.

Can you?

HP42S' "practical challenge + stuff"...

*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 20 Jan 2003, 10:44 a.m.,*
in response to message #1 by Karl Schneider

Hi;

About one year before receiving my "diploma" (certificate) as an Electrical Engineer I wrote a program to compute Load Flow running in an HP42S (good old times...). The complex manipulation was extensive and the program dealt with complex numbers a lot. I remember that I had to assemble and disassemble complex numbers many times, and once I thought: "It's not possible to enter four different complex numbers in the HP42S stack as we can do in the HP15C". I tried a few times, but the needing to finish the program was a priority and I do not remember thinking of this again. I still believe it's not possible UNLESS we use a temporary variable OR L-register, that will not keep previous value. The mentioned procedure in the HP15C with CLX and Re<>IM does not change LSTx contents

The other lack in the HP42S is for the RE<>IM, not available. I used this routine:

```
CPX?
COMPLEX
X<>Y
COMPLEX
```

The CPX? tests if a complex is already in the X-Register. If so, dismantle it. This way, Y and X will contain real and imaginary parts. Swap them (X<>Y) and reassemble the complex number (COMPLEX), now with Real and Imaginary parts swapped. This also cause previous T-value loss, what does not happen in the HP15C. I think that as we have plenty of bytes in the HP42S in relation to the HP15C, there's always space enough to create a single variable and save one stack register... But I'd like to have a two-byte [Re<>Im] in the HP42S instead of the seven-bytes sequence above.

Another weird thing: since the first RPN-based calculators, the "natural" 2-numbers input sequence has always been

```
Y-value ENTER X-value [function].
```

This applies mostly to rectangular-to-polar conversion and its counterpart, and two-number statistics. Even in some original HP applications, this sequence is disregarded and we see X-value ENTER Y-value [routine]. I'm trying to figure out why did HP implemented the real-to-complex conversion in both HP15C and HP42S with a "reversed-input" sequence? The HP28 and the HP48 series is somewhat different, if we consider operator

```
[->]
```

, that acts uniformly as an operator, so

```
[->V2]
```

and

```
«-> a b « procedure »»
```

will cause values in in the stack to be used top-to-down , say,

level-2 contents to X (real part of V) or 'a' and
level-1 contents to Y (imaginary part of V) or 'b'.

I do not complain as it is an uniform relation.

But in both HP15C and HP42S we must think that, if we are working with real numbers, we must enter Y then X prior to compute its polar representation, what agrees with RPN "principles" and stack-registers' names. Otherwise, I have to enter X then Y to build (X+iY) number, disagreeing the same principle. It happens the same with polar representation.

Wow! Too much words for a not-so-complicated matter. My daughter says "You were born to be a teacher, indeed!" everytime she asks me a question and I take many minutes of her attention to answer. And she is 11 Y.O....

Cheers.

Re: HP42S' "practical challenge + stuff"...
*Message #3 Posted by **Karl Schneider** on 21 Jan 2003, 12:46 a.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

Luiz --

Thanks for the response. I suspected as much: On the 42S, it's impossible ro enter a new complex number from the keyboard without dumping the contents of the Z-register and without using a named or numbered storage register.

However, I learned something new while researching this: the numbered registers can be dimensioned to store complex-valued entries. Simply recall "REGS", then ENTER, COMPLEX, STO "REGS". Then, any stack contents through the Z-register could be

preserved during entry of the complex value a+jb as follows:

RDN, RDN, STO nn, RDN, RDN, (a), ENTER, (b), COMPLEX, RCL nn, RDN.

The lack of a Re<->Im function makes conjugation and other operations more cumbersome and stack-disturbing. It would be nice if "COMPLEX" on the 42S brought up a menu like that of the 28C/S.

Re: HP42S' "practical challenge + stuff"...
*Message #4 Posted by **Vieira, Luiz C. (Brazil)** on 21 Jan 2003, 9:16 a.m.,*
in response to message #3 by Karl Schneider

Hi, Karl;

you're right. In the HP42S, "REGS" is a matrix and, differently of the HP15C and the same as the HP28/48/49, matrices in the HP42S may be actualy real or complex. You can create any real-type matrix (NEW) and as it is in the X-register you can repeat the procedure you just mentioned and "convert" it inot a complex matrix. In this particular, I fell "manipulating" complex matrices easier with the HP42 than with the HP15C.

The only limitation I know about data in complex matrices is that either complex or real, any of "REGS" elements will only store six ALPHA characters each, same as the HP41 actual registers.

That's why I guessed a variable, because it is not "attached" to "REGS" numbered structure (you can keep storing and recalling to and from any available numbered register) and may contain real and complex data as well.

Wow! I have simply nobody to talk about this sort of HP, RPN, programming, usage subject except for you guys, at the museum. So, I beg you: forgive-me writing so much. I cannot control myself...

Cheers.

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TI Laugh from the Past
*Message #1 Posted by **Michael Meyer** on 20 Jan 2003, 1:29 a.m.*

Quote from the TI-58/59 "Personal Programming" manual:

"Storage-- If the calculator is stored unused for several weeks the battery pack will probably need recharging before portable use. THE BATTERY PACK WILL NOT LEAK CORROSIVE MATERIAL; THEREFORE, IT IS SAFE TO STORE THE CALCULATOR WITH THE BATTERY PACK INSTALLED."

Hmmm. Is that so!

Re: TI Laugh from the Past
*Message #2 Posted by **Michel Beaulieu** on 20 Jan 2003, 8:40 a.m.,*
in response to message #1 by Michael Meyer

Very funny, it's probably because they didn't think the TI-59 will last 2 or 3 decades! :-)

Indeed!
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 20 Jan 2003, 9:06 a.m.,*
in response to message #2 by Michel Beaulieu

No pun intended; mostly if we think that when computers became available, someone (i don't remember who) said: *No more than five of these machines will fit mankind needs forever.*, or something close to it. If they were powered by rechargeable batteries, this warning would not be added to their five "User's Guide"

;-)

No, it was because of the open nature of the batteries to the circuit board!
*Message #4 Posted by **Gene** on 20 Jan 2003, 9:22 a.m.,*
in response to message #3 by Vieira, Luiz C. (Brazil)

TI didn't put anything between the battery pack and the calculator circuit board.

HP put a barrier between then, but TI had nothing.

That always bothered me as one of the dumber TI choices. :-)

That and AOS, perhaps?

Gene

Re: No, it was because of the open nature of the batteries to the circuit board!
*Message #5 Posted by **Joerg Woerner** on 20 Jan 2003, 12:07 p.m.,*
in response to message #4 by Gene

Gene,

You should dismantle the original SR-50 (TI's answer to the HP35) and you'll find that plastic barrier, too.

TI always used one formula to make decisions:

"PROFIT" = ("SALES-PRICE" - "MANUFACTURING COSTS") * "SALES VOLUME"

In other words:

Money to survive in the calculator war is optimized by MISSING PLASTIC BARRIERS and AOS !

Greetings, Joerg

Ti did do some cool innovation

*Message #6 Posted by **Michael Meyer** on 20 Jan 2003, 2:18 p.m.,*
in response to message #5 by Joerg Woerner

I know this is an HP forum, but the history of this stuff affected the whole market.

TI did do some amazing things.... the modules for the TI-59's, the nearly 1000 program steps, and even the ability, figured out by users, to do synthetic programming. I also played yesterday with the speed, and it still blew away the 15C and other quite slow calculators.

I've also been able to resurrect almost all of the 59's I've bought. The SR-52's are so much tougher to get the drive roller right, but I've even gotten that down to a "science".. (using rubber faucet washers, "turning" them on the drive motor with a dremel to the correct diameter.)

Despite the lack of a plastic barrier, the corrosion doesn't seem any worse than the HP's, actually. I suspect that the plastic barriers did little to prevent the corrosive action of the gasses. Sometimes it even seems that the coated copper circuit boards survived better than the solder-traced HP's circuits. (Though the "clean" HP's are still a wonder to look at!!)

STILL, even with the fact that I programmed the 59 all through college (in fact, every program I wrote for class I duplicated on the 59 and it did alphanumerics), I HATE programming it, compared to the elegant HP-67. Sorry, even with years of AOS programming, it doesn't come as naturally to me as RPN.

It's fun to compare, though. And the history is understandable, but sad, why the HP's didn't survive. It's been discussed many times here.

As a collector, it's an amazing history.

Michael

Re: Ti did do some cool innovation
*Message #7 Posted by **Gene** on 20 Jan 2003, 6:51 p.m.,*
in response to message #6 by Michael Meyer

Yes, TI did do some fun things.

1) Used Indirect addressing for the first time on the SR-52. (which also had the two hidden memories (STO 98 and 99) on th e SR-52)

2) The TI-58/59 modules could be called at a specified STEP number. This was a great boon to programmers, since they could scour the module listing and find sequences of steps that did what THEY wanted to be used as a subroutine. Note that the HP-41 roms could NOT do this at any time using normal HP techniques. Took synthetic programming to do this.

3) TI users developed a "fast mode" and quite a few entry techniques to speed up program run times.

Without competition, advancements seldom come. Does not bode well for the future.

Gene

Re: No, it was because of the open nature of the batteries to the circuit board!
*Message #8 Posted by **Michel Beaulieu** on 20 Jan 2003, 8:49 p.m.,*
in response to message #4 by Gene

They can't put anything there because the connection for the PC-100 printer is locate at the same place as the battery contact. I have some TI-58/59 and none are "eaten" by corosion even if the battery pack is very "decompose".

Even with plastic there, gases can do their corrosive job by passing through the side of the plastic "barrier".

Re: No, it was because of the open nature of the batteries to the circuit board!

*Message #9 Posted by **db(martinez,california)** on 20 Jan 2003, 10:02 p.m.,*
in response to message #8 by Michel Beaulieu

the most common problem that i have seen in the 58/59 series is the cheesey spring contacts corroding (probably because of battery juice) and breaking. however; i have never seen a completely dead one.

i would rather use the worst rpn than the best aos but i will admit that the 58/59 was designed a lot better than the spice series. and while i would never take one to work (someone that i know might see me using it); the trig accuracy blows the doors off my 41 too.

Re: No, it was because of the open nature of the batteries to the circuit board!

*Message #10 Posted by **Michael Meyer** on 21 Jan 2003, 2:01 p.m.,*
in response to message #9 by db(martinez,california)

Duh. I didn't even think about the printer issue, though I have several, and again, used a 59 all through college.

The HP circuits were oh, so much prettier than the TI's, with their solder-coated traces. They still shine brightly if there's no corrosion. If there IS corrosion, the HP's suffer more damage, even, than the TI's with their ordinary copper circuits-- that are coated with clear sealant.

I still have a pile of TI-59 boards corroded well beyond any repair. It happens. But as I said, I've been able to restore a surprising number of 59's by just replacing the rotten foam under the keys and replacing the drive rollers. Oh, and the broken battery clips. I've had good luck using rectangular pieces from other battery contacts (spring steel).

Unfortunately, the darn things don't easily die..... <grin>. Since I can't afford to buy more HP's lately, I've been restoring some stuff from my junk pile. I got three more TI-59's to work perfectly. (Even their capacitors seem to work O.K...)

It was reality that I couldn't afford the HP at the time. I didn't know that I was contributing to the downfall of civilization as we know it!

Michael

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model 9820a
*Message #1 Posted by **john** on 19 Jan 2003, 10:15 p.m.*

Hi :

Does anybody have a non-functional example of this calc. that they are interested in parting out? I think I need a spare keyboard card, maybe more. Almost all of the keys give incorrect outputs on the display .

Regards...

Re: model 9820a
*Message #2 Posted by **Tony Duell (UK)** on 20 Jan 2003, 3:46 p.m.,*
in response to message #1 by john

Alas the 9820(and 9821) is the one series in the 98x0 family I've not worked on. But I believe it's similar to the 9810, and that machine I have pulled apart. My expeirience suggests that keyboard/display problems are often caused by logic problems on the I/O interface PCB in the processor section. In the 9810 and 9830, this is a 09810-66511 and has 2 brown handles. AFAIK the same PCB -- in fact the same 4 PCBs for the complete processor -- is used in the 9820 as well. I suspect this card can get easily damaged by plugging things into the I/O slots with the power on, etc. It certainly is directly connected to the I/O backplane. If you want to try some component-level troubleshooting, then I can possibly help you (you'll need a 'scope or logic probe and some experience, though). Take a look at the part numbers of the PCBs in your machine. If they start 09810 or 09830, then there's a good chance I'll know how to fix them. What exactly is the fault. You say some keys do the wrong things. Do they do the same thing as other keys, or do they behave strangely (I had a 9810 where pressing the mode select keys could randomly change the LEDs, for example).

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Internal HP 48G User's Guide ?
*Message #1 Posted by **John Smith** on 19 Jan 2003, 9:20 p.m.*

Hi, I've just found a thick manual titled "HP 48G Series - User's Guide", several hundred pages long. Not owning an HP-48 series machine, I don't know if this is the standard manual supplied with it (or available separately), or if actually there's any difference between this one and the 'regular' ones.

However, in the back cover, under the HP logo, I've just noticed a legend which reads:

"For HP internal use only: Part Number 00048-90126 00048-90104 (English) Edition 3 Printed in U. S.A. 7/93"

and this "internal use only" label had me thinking, so I would like to know if this is somewhat rare, if there are any differences between this particular guide and the 'non-internal' ones, or else it has the same contents and/or it's quite normal. Thanks in advance for any info or comments.

Re: Internal HP 48G User's Guide ?
*Message #2 Posted by **Randy Sloyer** on 19 Jan 2003, 9:55 p.m.,*
in response to message #1 by John Smith

Just checked my manual - it's the same. The internal HP use reference is in regard to the part number, 00048-90104. It must be some HP-ism, having two part numbers for the same manual.

Re: Internal HP 48G User's Guide ?
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 19 Jan 2003, 11:39 p.m.,*
in response to message #1 by John Smith

Hi;

I remember I read in other HP calculator's manuals that the reorder number is diferent of the part number itself. This suggests that the manual that comes with the calculators (Part Number) has a different number of the manual that's ordered separately. Maybe this "HP Internal use only" has something to do with it.

Just a guess.

Thanks to both of you
*Message #4 Posted by **John Smith** on 20 Jan 2003, 7:31 a.m.,*
in response to message #1 by John Smith

This answers my question, thanks to both.

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Re: pi sin() on HP-32S?
*Message #1 Posted by **Tomas** on 19 Jan 2003, 12:16 p.m.*

When I take the sin of pi on my HP 49g, in RAD mode, I get an answer of 0.But my 48gx gives me -2.067154E-13. My 49 has serial nr Cn1480xxxx, could it have been some software changes with my 49g?

Re: pi sin() on HP-32S?
*Message #2 Posted by **Ben Salinas** on 25 Jan 2003, 12:04 a.m.,*
in response to message #1 by Tomas

Yes, I have noticed severe innacuracies with the 32sII's Radian mode. It converts from degrees fine, but when you use trig functions, it seems to not give you zero when it should. I tend to convert radian measures to degrees for trig functions -ben

Re: pi sin() on HP-32S?
*Message #3 Posted by **hugh** on 25 Jan 2003, 9:44 a.m.,*
in response to message #2 by Ben Salinas

this isnt a bug. this actual case is explained in the manual (see faq)

the answer given is correctly, sin(3.141592654) != 0

i know this can be a bit confusing.

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Looking for HP-95LX connectivity Software
*Message #1 Posted by **Erwin** on 19 Jan 2003, 8:46 a.m.*

Hello,

I would like to connect my HP-95LX to my pc. Somehowe i can not get this done by Hyperterminal or Kermit.

Is there anyone with the software that came with the connectivity pack for the HP-95LX and whom is willing to email this program to me?

Thanks in advance,

Erwin

Re: Looking for HP-95LX connectivity Software
*Message #2 Posted by **Mike (Stgt)** on 20 Jan 2003, 4:04 a.m.,*
in response to message #1 by Erwin

Did you look here: http://www.palmtop.net/super95.html?

Ciao.....Mike

Re: Looking for HP-95LX connectivity Software
*Message #3 Posted by **Erwin** on 20 Jan 2003, 7:28 a.m.,*
in response to message #2 by Mike (Stgt)

Hello Mike,

Yes, i've checked that side to. But i could not find the pc <-> HP-95LX connection software.

Thanks for your reply

Re: Looking for HP-95LX connectivity Software
*Message #4 Posted by **andy** on 20 Jan 2003, 10:47 a.m.,*
in response to message #3 by Erwin

I use Kermit to transfer files between my 95lx and PC. you can find kermit on www. hpcalc.org. Its a dos program but still works in a dos screen on windows. Let me know if you have any questions once you get kermit. If you can't find kermit let me know.

Andy

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Is there still a "club"?
*Message #1 Posted by **Matthias Wehrli** on 19 Jan 2003, 3:27 a.m.*

Is there still a club like the old German Computer Club (CCD) or as PPC?

Matthias

Re: Is there still a "club"?
*Message #2 Posted by **Wayne Brown** on 19 Jan 2003, 10:31 a.m.,*
in response to message #1 by Matthias Wehrli

Here's one:

http://www.hpcc.org

Yes, HPCC is very much alive
*Message #3 Posted by **Tony Duell (UK)** on 19 Jan 2003, 2:03 p.m.,*
in response to message #1 by Matthias Wehrli

HPPCC (the UK HP Calculator club) is still very much alive (after 20 years). We hold a meeting in London every month, and publish 6 issues of DataFile (club journal) every year Last year we held a 2-day conference (to celebrate 20 years of HPCC), this year we expect to hold a 1-afternoon 'mini-conference. AFAIK, we accept members from all countries -- certainly we have a large number of members from outside the UK. I do not, however, 'speak for HPCC' -- I am just a somewhat active member, club librarian and 'hacker is residence'. For more details, therefore, poke around on the web site -- http://www.hpcc.org/

Re: Yes, HPCC is very much alive
*Message #4 Posted by **Christoph Klug** on 20 Jan 2003, 3:43 a.m.,*
in response to message #3 by Tony Duell (UK)

Dear Matthias, Dear Tony,

I was former member of German CCD Computer Club Deutschland. When this nice club closes any activities I changed to HPCC. This is the best you can do today :-)

Best wishes from Germany to Switzerland and United Kingdom - Christoph Klug

Re: Is there still a "club"?
*Message #5 Posted by **Mike (Stgt)** on 20 Jan 2003, 4:14 a.m.,*
in response to message #1 by Matthias Wehrli

Yes, there are the "HP-Oldies" (10 Swiss and me from Germany) meeting in Olten, rarely in Berne, or sometimes in Basle (and once since years in Stuttgart).

For more info pls contact me off-list. ;-)

Ciao.....Mike

BTW, meanwhile I got an HP1000CX (from the biggest reseller of used HP calcs in Switzerland - I assume you know him).

Re: Is there still a "club"?
*Message #6 Posted by **Masao Kinoshita** on 20 Jan 2003, 9:15 a.m.,*
in response to message #5 by Mike (Stgt)

Bill Hewlett is HPCC member #1. (I know - God rest his soul.) Richard Nelson (PPC and CHHU founder) is also an HPCC member, something after #1031.

Re: Is there still a "club"?

*Message #7 Posted by **Matthias Wehrli** on 20 Jan 2003, 1:18 p.m.,*

in response to message #5 by Mike (Stgt)

Wonderfull. I live near Basel (3km) and wellcome you all here.. Mike, can you send me this list with the german aund the swiss members? I subscribed the membership of the HPCC two minutes ago.. Well, I do know the biggest reseller of HPs in Switzerland very well. We meet us from time to time and are happy, that there are some collectors in Switzerland ....

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"Hybrid"HP15C lives and Rebuildin HP41broken posts

*Message #1 Posted by **Vieira, Luiz C. (Brazil)** on 19 Jan 2003, 3:02 a.m.*

Hi;

for those who remembered, I posted a few months ago a (some) question(s) about the ID codes for the chips used in two different HP15C's. At that time I had a broken HP11C that came back to life after being disassembled.

Well, I devoted this Saturday to the task, and I must tell you that the "hybrid" HP15C IS working, and is uses the following chips:

1LE2-0321 (RAM/ROM Display Driver, or R2D2)
1LH1-0302 (64 registers RAM and extra ROM)
1LM2-0001 (this is the original HP11C's KBD scanner, replacing the 1LE5-0301)

The last IC in the list is the one that was not supposed to be there. I posted the "correct" list for some Voyagers (except the HP10C that I do not have) about three to four months ago, but I did not stop to search for it.

After soldering the last terminal of the last chip I placed the LCD without much care and turned the calcualtor ON. A weak Pr Error was very welcome, and I slightly pressed the LCD's metal frame so I could see it better. Crystal clear! After testing a few features, I decided to "order" the [ON][×] test and. Everything fine EXCEPT for the PRGM annunciator and the "d" segment of the rightmost digit, that kept off. I slightly pressed the LCD's frame again but no results. OK, let's rebuild it.

I'm haveing a hard time with the LCD since then, because I reassembled it about four times and it comes better and worst, out of alignment. Sometimes some digits are not lit, sometimes only a few segments. What bothers me is that the first time I was lazy and it worked a lot better, only two segments did not turn ON. If it was BEGIN, or D.MY I would not care about it. But PRGM and one segment were enough to ask me for the disassembling.

If someone has any tip other then "Never disassembled the LCD's frame" I'm thanked. I decided to

disassemble it because I'b be removing and soldering components right "under" it and I was affraid of cracking it (preassure, temperature, fall). It is intact, but failling.

As soon as I get it in place and working, I'm scanning the keyboard and sending the image to those who want.

About the HP41 broken posts' photos: they are the sadest expression from someone that was not born to hold a photographic camera. At least three of them and part of a fourth picture will be enough to see the begining and the end of the task. I'll add the needing draws to "visualize" the mid steps so the ones who need to do it will not have difficulties understanding the process.

Best regards.

"Hybrid" HP15C fully operative!
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 19 Jan 2003, 2:47 p.m.,*
in response to message #1 by Vieira, Luiz C. (Brazil)

Hi;

the HP15C described in the first post of this thread is now working alright. The problem was not the alignment. The fact is that I have saved the LCD polymers and did not check them prior to mounting. One of them was dirty and a bad contact was enough. I did not notice because the dirty was visible only in certain viewing angles. I cleand both plymers carefully and it's fine, now.

For those who were expecting to know about the chipset "blend", excuse-me taking so long to get this subject back, because I did not want to loose the HP11C without knowing if the HP15C chipset was working fine. At the moment I decided to do the "transplantation" about two to three months ago, the HP11C was not working. And the task demanded full attention and dedication... and also a bit of "inspiration"!

Now I'm going to another step: reassembling the HP15C's keyboard. But that's another story...

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Day-Of-Week (DOW) in the HP48 series - challenge?
*Message #1 Posted by **Vieira, Luiz C. (Brazil)** on 18 Jan 2003, 11:03 p.m.*

Hi;

It's time for chalanges, and good challenges are teasing and their result is always helpfull.

I have an HP41CX and this was my first calcualtor with real time capabilities. Later I got an HP48SX, an HP48G+ and now an HP49G. Although the HP12C does not have a real-time clock, it can deal with date arithmetic, as all of the above.

The HP41CX (or its time module functions) has the DOW function, that returns the day-of-week reference for the date coded in the X-register. The HP12C also "shows" the day ofg week when a a date is computed.

Maybe many of you already needed this specific information any of the HP48 calcualtors and it is not available this "easy". The way I found was with the program below, that returns the DOW indicator for any date in Level 1 provided it's coded the same way we do in the HP12C or the HP41CX (or with the Time Module) and according to DMY or MDY set

```
« 0 TSTR 1 3 SUB »
```

I store it as 'DOW', and it returns a three letter string ID: "SUN", "MON" and so. The fact is that TSTR (Time STRing) does the trick.

Any other way to accomplish this? I'm not sure this is of any help, but as we do not have DOW directly availlable, it will allow others to focus in the problem and easily have this information without bigger routines.

Best hunting!

Vieira, Luiz C.

Re: Day-Of-Week (DOW) in the HP48 series - challenge?
*Message #2 Posted by **Christoph Giesselink** on 20 Jan 2003, 5:42 p.m.,*
in response to message #1 by Vieira, Luiz C. (Brazil)

My solution for 'DOW' on the HP48 is the unsupported entry

=DOWSTR EQU #0D2F0

instead of

« 0 TSTR 1 3 SUB »

[30 byte].

=DOWSTR can be used in different ways:

« # D2F0h SYSEVAL »

[33 byte]

or

```
ASSEMBLE
  NIBASC /HPHP48-E/


=DOWSTR          EQU     #0D2F0


RPL
::
  CK1NoBlame
  CK&DISPATCH1
  real DOWSTR
;
```

[22.5 byte]

or just as RPL pointer in SysRPL code

[2.5 byte]

Christoph

Re: Day-Of-Week (DOW) in the HP48 series - challenge?
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 20 Jan 2003, 9:16 p.m.,*
in response to message #2 by Christoph Giesselink

>>>:-0

Time to learn SYS RPL and 48's M-code... more than never!

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Just plain silly eBay records
*Message #1 Posted by **Randy Sloyer** on 18 Jan 2003, 9:10 p.m.*

I think that we can all agree that Matthias has purchased some great things at a fair price. I wish him well with his collection. But to change the direction of this thread, this is the kind of silliness I prefer and enjoy watching on eBay:

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3000350601

What I what to know is who paid "OVER $100.00 WHEN PURCHASED IN SEPTEMBER". Find that person and introduce them to our MoHPC team in and around Davis, CA. I'm sure they would be happy to sell some of those NIB 20S they bought last week for $20 to whoever this buyer may have been.

P.T. Barnum said it best...

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A New Challenge

*Message #1 Posted by **Katie Wasserman** on 18 Jan 2003, 7:03 p.m.*

Since at least a few people here seem to like my solution to the last challenge I thought that I'd pick up the gauntlet and propose another little challenge.....

I often find the need for a MOD function (remainder after division) on the HP calculators, but only a very few of the non-HPL machines have it (the 41C, 42S and 16C come to mind). How can this be done on a less-sophisticated RPN calculator in the fewest instruction steps?

Assume that the dividend is in Y and the divisor is in X and that you can only use the stack and last X register. One obvious solution using FP (Fractional Part) doesn't work because of rounding problems.

For example:

/, LAST X, X<>Y, FP, x

If you had the DUP2 function it would be easy:

DUP2, /, IP, x, -

But you don’t. On the 32S/SII you can do this trick for DUP2:

0, ENTER, CMPLX+, /, IP, x, -

But that's hardly a general solution and it's still 7 steps.

Is there a shorter way? (I don’t have an answer.)

-Katie

Re: A New Challenge
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 19 Jan 2003, 3:35 a.m.,*
in response to message #1 by Katie Wasserman

Hi;

wow, hard to achieve another "shorter" version. The one I developed sometime ago is one byte longer:

```
INT  (to save X-contents in L)
x<>y
LSTx
÷
FRC
×
```

I think it's gonna be hard to beat you, Katie...

Best regards

Re: A New Challenge
*Message #3 Posted by **Ed Martin** on 19 Jan 2003, 2:22 p.m.,*
in response to message #1 by Katie Wasserman

This problem is more tricky than it appears at first glance. One way to "cheat" is to use the RND function at the end of Katie's "obvious" FP solution to get rid of the rounding error, but that isn't a pure algorithm.

The best general (non-RND) solution I could come up with for RPN calcs is as follows. However, you need to make sure the "x" register (divisor) is not in entry mode (a quick x<>y x<>y will ensure that).

ENTER ENTER + x<>y - / LASTx x<>y INT * -

It's really long at 11 steps but avoids the rounding error and will work on any RPN calc with a 4 level stack that replicates the "t" register on a stack drop.

Surely someone can do better than this .....

Re: A New Challenge - Improved
*Message #4 Posted by **Ed Martin** on 19 Jan 2003, 5:53 p.m.,*
in response to message #3 by Ed Martin

OK, so this is only a minor improvement over my last post. It's one step shorter, and on top of that, it doesn't care if "x" is in the middle of entry:

x<>y ENTER ENTER RUP / LASTx x<>y INT * -

Re: A New Challenge - Improved
*Message #5 Posted by **Christof** on 20 Jan 2003, 4:21 a.m.,*
in response to message #4 by Ed Martin

after a lot more working it looks like both of our 10 step solutions are about the best that can be done without some really off the wall trick.

I've run through 7 various 10 step program variants now (all seem to end up being basically similar to either your 10 step or my 10 step "style" - the 4 step finish and fully loaded stack or the 6 step finish and partially loaded stack.) All are 18 bytes with program RTN statements and LBLs.

Re: A New Challenge
*Message #6 Posted by **Katie Wasserman** on 19 Jan 2003, 11:12 p.m.,*
in response to message #3 by Ed Martin

Ed, you and Luiz both mentioned using FRAC and the RND function. But if you use really big integers as input to the MOD function you'll get the wrong answer sometimes. For example: try 555,555,555,555 mod 333,333,333,333. Obviously the answer is 222,222,222,222 but using FRAC and RND you won't get that.

Stack manipulation seems to be the hard part of this problem, but there might be some clever technique that gets around all that. I wonder why HP left out the MOD function on its scientific calculators (for the most part) surely it’s more useful to most engineers and scientists than % is, for example.

Re: A New Challenge
*Message #7 Posted by **Christof** on 20 Jan 2003, 1:21 a.m.,*
in response to message #6 by Katie Wasserman

okay, my code for the 32Sii seems to be non original, but at least not entirely lame :)

here's another version that is still in the same realm of byte use, but uses a slightly different approach

x<>y enter rolldown swap / lastx swap ip * swap rolldown -

there doesn't seem to be a way to directly store to a stack register in the 32Sii, otherwise that could be cut down a bit with a x<>y STO-z x<>y STO-t / IP * -

Maybe there is something I'm not seeing -C

Re: A New Challenge
*Message #8 Posted by **Christof** on 20 Jan 2003, 12:52 a.m.,*
in response to message #1 by Katie Wasserman

I was working on this at lunch and am posting before reading all the other answers. So I will probably look dumb.

solution 1 takes 16.5 bytes (no rtn because I left it at end of program memory. cheating, yes.).

A01 LBL A

A02 ENTER

A03 ENTER

A04 R(UP)

A05 ENTER

A06 R(DOWN)

A07 x<>y

A08 /

A09 IP

A10 *

A11 -

R(UP) being roll up, etc. It's a lot of steps, 16.5 bytes, and can be duplicated on most calculators.

solution 2 is a bit longer, but interesting:

B01 LBL B

B02 x<>y

B03 ENTER

B04 ENTER

B05 R(UP)

B06 /

B07 LASTx

B08 x<>y

B09 IP

B10 *

B11 -

B12 RTN

and that is 18 bytes.....

Those are first thoughts, now I will read what is posted and see

Re: A New Challenge
*Message #9 Posted by **Ex-PPC member** on 20 Jan 2003, 5:20 a.m.,*
in response to message #1 by Katie Wasserman

Hi Katie, thanks for the interesting challenge, I've just read your post while in transit.

Using the HP-15C I always carry with me, I've come up with a 7-step solution with no rounding problems whatsoever, but it's still a little rough and perhaps I can improve it tonight, when I'll finally be able to allocate some free time to think about it.

Best regards.

Re: A New Challenge
*Message #10 Posted by **hugh** on 21 Jan 2003, 2:29 p.m.,*
in response to message #1 by Katie Wasserman

recently i had the urge to write a easter day program for the HP25. however the lack of accurate modding scuppered my plan. the following logic,

STO 1 1 9 / FRAC 2 0 9 * 2 0 4 - CHS 3 0 / FRAC 3 0 * 2 2 + 5 0 x<>y x<y GTO 32 1 - ENT RCL 1 + RCL 1 4 / INT + 7 / FRAC 7 CHS * 6 + +

is correct (enter y R/S) but the use of FRAC to make the mods causes round errors that give some years wrong. no good then. there's 1 spare step :-)

my theory of why MOD is scarce is because its not easy to implement. try 1e50 mod 9. what do you get?

Re: A New Challenge
*Message #11 Posted by **Katie Wasserman** on 21 Jan 2003, 8:37 p.m.,*
in response to message #10 by hugh

Good point! The method that I've presented here would give 0 as 1e50 MOD 9 which is wrong. But other (higher end) HP calculators get this right, like the 42S. It's not a hard problem when you can do it in assembly language you need only deal with an adjusted mantissa. It's much harder to do on the lower end calculators, but not impossible. Certainly HP could have found room in the 32SII ROM for this if they thought it was useful.

Re: A New Challenge
*Message #12 Posted by **hugh** on 22 Jan 2003, 6:49 a.m.,*
in response to message #11 by Katie Wasserman

yes thats right. adjusting the mantissa was the method i used recently implementing a working mod function. for a number `x', i had to scale it into y * 10^e where y is a n-digit integer and n is your calculator precision. eg 10 (i was using n = 30). this is especially important if `x' internally is binary. then you do, mod(mod(y,m)*mod(10^e, m),m) and 10^e is done by binary powering.

there's more. the second problem is you also need double-precision arithmetic. if you are 10 digit accurate, you need 20 internally. consider calculating a = 1e10, b = 3.141592654 (dont call this pi for another reason) and find mod(a, b) the right 10 digit answer is: 1.326632906, thats because internally you had to work with a/b = 3183098861.4222803693 in order to get 10 final digits correct.

even more amusing are mods truly involving pi or 2pi, like those required to perform sin, cos or tan. try sin(1e50), the right answer is: -.7896724934 because the problem is actually sin(mod(1e50,2pi)). these mods are even harder because you need a table of around 100 digits internally of 1/2pi to perform mod(10^n,2pi).

some time ago, i wrote a page on this, but its not very well explained.

http://www.voidware.com/modsecret.htm

Re: A New Challenge
*Message #13 Posted by **Katie Wasserman** on 22 Jan 2003, 4:19 p.m.,*
in response to message #12 by hugh

Hugh,

Your web page on this is very understandable and makes total sense. HP must have been quite aware of this and designed their trig functions to work differently when the calcualtor is in "degrees" mode. The 32SII (and all the other HP's I've cheked so far) do the mod 360 degrees correctly before computing the trig function values.

Computing MOD does require double precsision when you do it as: y - x*floor[y/x], but not if you're computing it in assmebly langauge (or doing long division explicity on the calculator); the remainder after the division is likely just sitting around in a register (if you divide the obvious way).

-Katie

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OT: Name Chg: Raymond Hellstern -> R. Del Tondo
*Message #1 Posted by **Raymond Del Tondo (Germany)** on 18 Jan 2003, 3:50 p.m.*

Hi all,

just in case someone wonders about that new poster 'Raymond Del Tondo'. It's me.

My girl and me got married yesterday, and since we didn't want a double name, nor two separate names, I took the name of her family.

Regards,

Raymond (Del Tondo [former Hellstern])

Re: OT: Name Chg: Raymond Hellstern -> R. Del Tondo
*Message #2 Posted by **R Lion** on 18 Jan 2003, 4:09 p.m.,*
in response to message #1 by Raymond Del Tondo (Germany)

Hi Raymond: Sincerely, congratulations.

Raul

Re: OT: Name Chg: Raymond Hellstern -> R. Del Tondo
*Message #3 Posted by **Daniel Diggelmann** on 18 Jan 2003, 6:04 p.m.,*
in response to message #2 by R Lion

Hi Raymond,

Congratulations!!! This is great news. I wish you both all the best and many children. I hope you collected a HP calc for each of them ;)

Best Regards from Switzerland Daniel

Re: OT: Name Chg: Raymond Hellstern -> R. Del Tondo
*Message #4 Posted by **Glen Kilpatrick** on 18 Jan 2003, 6:37 p.m.,*
in response to message #3 by Daniel Diggelmann

What They Said! It's heartwarming to see hope and love joined, I wish you two the best.

Glen from California

Re: OT: Name Chg: Raymond Hellstern -> R. Del Tondo
*Message #5 Posted by **Katie Wasserman** on 18 Jan 2003, 6:42 p.m.,*
in response to message #4 by Glen Kilpatrick

Congratulations!

It's very nice to see couples choosing to keep the woman’s last name once in a while.

Re: OT: Name Chg: Raymond Hellstern -> R. Del Tondo
*Message #6 Posted by **Matthias Wehrli** on 19 Jan 2003, 3:17 a.m.,*
in response to message #1 by Raymond Del Tondo (Germany)

Congratulations also from me... hope, she will like your collection as much as my girlfriend does.. I wish you all the best...

Re: OT: Name Chg: Raymond Hellstern -> R. Del Tondo
*Message #7 Posted by **Vieira, Luiz C. (Brazil)** on 19 Jan 2003, 9:26 a.m.,*
in response to message #1 by Raymond Del Tondo (Germany)

Hi;

I waited a bit more so the thread will last for a little longer. As you are in a honeymoon for now, you'll probably read these messages later

I wish you both the best. In every sense. Even the best calcs you can have...

Happiness for you.

Vieira, Luiz C.

> **Re: OT: Name Chg: Raymond Hellstern -> R. Del Tondo**
> *Message #8 Posted by **Juan J** on 19 Jan 2003, 10:34 p.m.,*
> *in response to message #7 by Vieira, Luiz C. (Brazil)*
>
> Congratulations and my best wishes for you and your loving wife. And may your children grow up "the right way" learning RPN and liking HP calculators as much as we all do.
>
> Live long and prosper (no pun intended.)

Re: OT: Name Chg: Raymond Hellstern -> R. Del Tondo
*Message #9 Posted by **Steve (Australia)** on 19 Jan 2003, 10:38 p.m.,*
in response to message #1 by Raymond Del Tondo (Germany)

Congrats from down-under.

Re: OT: Name Chg: Raymond Hellstern -> R. Del Tondo
*Message #10 Posted by **Christoph Klug** on 20 Jan 2003, 3:49 a.m.,*
in response to message #9 by Steve (Australia)

HI Raimund

Best wishes for your and your wife ! Behind the long list of responses from the whole world now also an answer from Hildesheim to Hannover - for the international readers : The distance is only short 40 KM.

Have fun and a long live - Christoph Klug

OT: Raymond Del Tondo
*Message #11 Posted by **Mike (Stgt)** on 20 Jan 2003, 4:26 a.m.,*
in response to message #1 by Raymond Del Tondo (Germany)

Congratulations! :-)

Your name now sounds very impressive and implies: "most respected Esquire!"

My best wishes, 'mille kilo de merde' (ask s.o. else about the meaning), andauerndes Glück - Wohlbefinden - langes Leben.

Ciao.....Mike

Re: OT: Raymond Del Tondo
*Message #12 Posted by **GE (France)** on 20 Jan 2003, 4:35 a.m.,*
in response to message #11 by Mike (Stgt)

Congratulations, and contrary to others I wish your interests shift from calculators to your wife and, as their time comes (as luck permits) your child(ren).

Re: OT: Name Chg: Raymond Hellstern -> R. Del Tondo
*Message #13 Posted by **Paul Brogger** on 20 Jan 2003, 9:18 a.m.,*
in response to message #1 by Raymond Del Tondo (Germany)

Did you consider "Del Stern" or "Hell Tondo" or . . .

No, I guess you made a wise choice! (An associate pastor at a church I know finally took her husband's name after almost 20 years of marriage when she realized that, as a result, she'd be automatically seated next to him on airline trips -- a very practical benefit of sharing a surname.)

Congratulations, and may your marriage be even more enjoyable, durable, serviceable and rewarding than have been your (classic) HP calculators!

-- Paul B.

DEL "instruction" in your new family name
*Message #14 Posted by **Andrés C. Rodríguez (Argentina)** on 20 Jan 2003, 11:19 a.m.,*
in response to message #1 by Raymond Del Tondo (Germany)

Congratulations!

It seems that the very HP-like DEL instruction in your wife's last name had the effect to "delete" your previous family name ...

:-)

Many thanks for your replies and wishes!
*Message #15 Posted by **Raymond Del Tondo (Germany)** on 21 Jan 2003, 4:56 p.m.,*
in response to message #1 by Raymond Del Tondo (Germany)

My wife has highest priority, of course. Since she knows me for a long time, and she also knows about my crazy hobby, the RPN calcs, there shouldn't be a problem for both worlds being happy;-)

Best Wishes,

Raymond

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HP 15C Quadratic Equation II

*Message #1 Posted by **jb** on 18 Jan 2003, 2:36 p.m.*

Sirs,

I have having a deuce of a problem getting the 15C Quadratic Equation II program to work (http://www.hpmuseum.org/software/15quad2.htm). I have tried reloading and rerunning it multiple times but must be doing something fundamentally wrong.

For the equation: x^2 – 3x – 10 = 0, x should equal 5, -2.

I put 1 on the stack and hit enter, -3 on the stack and hit enter, –10 on the stack and hit enter, then hit GSB 0, it gives an answer something like –1.67 and –3.

What do you think I am doing wrong?

Thank you.

Re: HP 15C Quadratic Equation II

*Message #2 Posted by **R Lion** on 18 Jan 2003, 2:52 p.m.,*
in response to message #1 by jb

If you press ENTER before the last number, then this is the stack:

T: 1

Z: -3

Y: -10

X: -10

and this is not wich the prg needs, and it should give error 0 in this case. Symply do: 1 enter -3 enter -10 GSB 0

Raul

Re: HP 15C Quadratic Equation II
*Message #3 Posted by **jb** on 18 Jan 2003, 3:11 p.m.,*
in response to message #2 by R Lion

Ho Ho! I knew it was something simple like that. Thank you for your quick response.

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HP-20S CIRCONIX
*Message #1 Posted by **George** on 18 Jan 2003, 10:26 a.m.*

I recently purchased a "new" hp20s off ebay. The manual is still shrink-wrapped and the thing looks new as described. But beside the Hewlett Packard logo, in capital letters is the word CIRCONIX. Looks like it came this way from HP. Anyone know why this is? Is Circonix a large company that would have ordered a large number of hp20s with the company name on them??

Thanks for any insight,

George

Re: HP-20S CIRCONIX
*Message #2 Posted by **Glen Kilpatrick** on 18 Jan 2003, 12:08 p.m.,*
in response to message #1 by George

http://www.google.com/search?hl=en&lr=&ie=UTF-8&oe=UTF-8&q=circonix&btnG=Google +Search 1 to 10 of about 96 hits suggests they *were* "a premium manufacturer of control and drive systems specialized for coating and laminating machines for the converting industry, and is the exclusive supplier for Polytype", but alas sometime in December A.J. Willner Auctions did "Circonix - Office Furniture" (as it's in the past, A.J. Willner wouldn't properly display for me).

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Just to share happiness
*Message #1 Posted by **R Lion** on 18 Jan 2003, 3:06 a.m.*

I've just agreed with another calculator's fool a trade, so I'll put my hands in a 42S in *very* good condition soon I've completed an ace's poker: 15c, 32SII, 42S and 48GX...

Raul

Re: Just to share happiness
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 18 Jan 2003, 11:21 a.m.,*
in response to message #1 by R Lion

Hi, Raul;

good news, indeed!

I see you have no HP41 in your list. Have you already dealt with an HP41 before? If so, if you know how to deal with an HP41, you already know about half of the resources of the HP42S and about 85% of its operation.

Success!

Best regards.

Re: Just to share happiness

*Message #3 Posted by **R lion** on 18 Jan 2003, 12:54 p.m.,*

in response to message #2 by Vieira, Luiz C. (Brazil)

Hi Luiz: No, I don't have the 41. Many years ago (first 80's) I used a 34c and learn RPN (but I didn't own it)... Now, the "four aces" are the calcs I have -when the 42 arrives. I'm reading the 41 software library yet...

Raul

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HP-15C faceplate logo / emblem?
*Message #1 Posted by **Bryan** on 18 Jan 2003, 12:03 a.m.*

I have a HP-15C that has lost its logo (the little square chip in the upper right hand corner that says "hp 15C")

Is there a source for this type of thing? I'd like to return it to its former glory...

In advance, thanks!

~ Bryan

Re: HP-15C faceplate logo / emblem?
*Message #2 Posted by **ToddG** on 18 Jan 2003, 1:17 p.m.,*
in response to message #1 by Bryan

Put an ad asking for one on the classifieds. Also, they come up on eBay every so often.

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Displaying calcs
*Message #1 Posted by **Larry Smith** on 17 Jan 2003, 4:20 p.m.*

I got myself a knick-knack display case with a slot running along the back of each shelf just in front of the mirrored back. I'm sure the slot was meant for dishes or other stuff, but it serves to hold the calc upright for display, and the case keeps out the dust. It's in my library. Even my wife thinks it's kind of cool, though about 2 times out of 3 people ask me why I collect remote controls... =)

regards, Larry

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HP-29C
*Message #1 Posted by **Larry Smith** on 17 Jan 2003, 3:50 p.m.*

My HP-29C went dead recently. When turned on all the LED segments would flash dimly, with just one digit near the right end being a somewhat brighter 0. Randy Sloyer noted that this often indicates a blown battery pack, but I swapped packs with my HP-25 and the 25 is happy with both of them. He recommended David Smith as someone able to repair woodstocks. Anyone here know how I can get in touch with him?

regards, Larry Smith

Re: HP-29C
*Message #2 Posted by **Larry Corrado** on 18 Jan 2003, 7:41 a.m.,*
in response to message #1 by Larry Smith

I've often had those same symptoms with my HP-21 and 25's. In all cases it was the battery pack, or battery connection. Sometimes just applying finger pressure to the outside of the pack would fix the problem. I think you have a battery problem, either with a bad pack or a bad connection.

If you feel comfortable doing it, I'd try powering it up from a regulated power supply. Or if you don't mind a bit of damage, carefully cut open the battery pack and try a new pair of AAs.

Good Luck!

Larry

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17Bii is Algebraic with Hierarchy?
*Message #1 Posted by **Glen Kilpatrick** on 17 Jan 2003, 1:19 p.m.*

I'm reading about the "calculator line" under the subheading "Algebraic (With a Stack)", and puzzling over the lines:

<<<<<

For example if the user pressed 1+2*3, the calculator would show that expression in display. On pressing +6, the calculator would evaluate the part that it now could and display 7+6.

>>>>>

This suggests to me that 17Bii's do algebraic with hierarchy (1+2*3 -> 7, what I associate with scientific calcs) rather than algebraic without (1+2*3 -> 9, what I've heretofore seen on business calcs, _e.g._ on a 10B).

Might someone confirm that, and also advise about other HP Algebraic Business Calcs (are they with or without hierarchy)?

Some good tests might be:

1+2*3 ---> 7 (multiply over add, this is hierarchy)

1+2*3 ---> 9 (no hierarchy here)

1+2*3^4 ---> 163 (power over multiply over add, definitely algebraic hierarchy)

1+2*3^4 ---> 6,561 (you can guess this one)

Re: 17Bii is Algebraic with Hierarchy?
*Message #2 Posted by **Ron Ross** on 17 Jan 2003, 1:38 p.m.,*
in response to message #1 by Glen Kilpatrick

No hierarchy, operates just like 10B.

However its solver does have precidence(I believe, I do not have one to check with at moment). I believe Hp could have provide hierarchy, but chose not to so as to market and not differentiate from all the other business calculators on the market. Only the BA-II offers a choice, all other business calcs operate without hierarchy (that I know).

Re: 17Bii is Algebraic with Hierarchy?
*Message #3 Posted by **Glen Kilpatrick** on 17 Jan 2003, 2:34 p.m.,*
in response to message #2 by Ron Ross

So the example from MoHPC is false-to-fact? I'd suspect that no hierarchy would result in:

Type See

1 1

+ 1

2 2

* 3 ---> or 2 with hierarchy

3 3

+ 9 ---> or 7 with hierarchy, and the MoHPC example shows 7 (that's my question)

6 6

= 15 ---> or 13 with hierarchy

Re: 17Bii is Algebraic with Hierarchy?
*Message #4 Posted by **Gordon Dyer** on 17 Jan 2003, 3:14 p.m.,*
in response to message #1 by Glen Kilpatrick

I have a 17BII (1D71305695) and it gives the following answers to your examples:
In direct entry algebaic mode the pressing of a second operator causes an intermediate result to be displayed and the second operator then uses that result:
1+2x3=9
1+2x3^4=6,561

In the solver:
1+2x3=7
1+2*3^4=163
Operator presidence is applied as expected.
I hope this helps you.

Re: 17Bii is Algebraic with Hierarchy?
*Message #5 Posted by **Glen Kilpatrick** on 17 Jan 2003, 4:28 p.m.,*
in response to message #4 by Gordon Dyer

Hah! NOW I understand. The 17Bii uses no hierarchy on the "command line", but standard algebraic hierarchy in the Solver.

And one reason our university now uses the BAII Plus
*Message #6 Posted by **Gene** on 17 Jan 2003, 4:57 p.m.,*
in response to message #5 by Glen Kilpatrick

Rumor has it that HP is developing a new line or revisions to their financial calculators.

Perhaps they will make them work like we all learned in the 3rd grade - multiplication and division FIRST.

At least.

The competition was betweent the HP-10B (actually, the less pleasing HP-10BII) and the TI BAII Plus.

The TI won in many respects.

More functionality (the thing not only does trigonometry, but hyperbolic trig too in addition to more business functions).

Use of "worksheets" (these allow you to enter data and then revisit the data to correct something after the fact - the 10B has nothing like it at all...it's similar in some ways to the 17BII and 19BII's use of lists, but I think I like the worksheets better).

and it can do 1+2x3 and get the correct answer without parentheses.

Who would EVER have thought that an HP calculator would REQUIRE parentheses to work a problem correctly?

Amazing.

Gene

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The HP Cable Table by Joe Horn
*Message #1 Posted by **Glen Kilpatrick** on 17 Jan 2003, 12:07 p.m.*

I see a couple different threads that are concerned with the proper cables. Perhaps Joe Horn's research results will be of use:

http://pweb.jps.net/~joehorn/cable.htm

Re: The HP Cable Table by Joe Horn
*Message #2 Posted by **Christof** on 18 Jan 2003, 4:51 a.m.,*
in response to message #1 by Glen Kilpatrick

Okay- use at your own risk, I suppose.

the *same* cable I use for my 48 works with my 95LX.

(the 4 pin connector one, the 95LX is a 4pin serial machine, while the 200LX is a 10 pin. totally different birds.)

PC and mac versions both!

Now, to find the pinout for the 200LX, since I am not paying $40 for a straight serial cable when I cna make one :)

Re: The HP Cable Table by Joe Horn
*Message #3 Posted by **Raymond Del Tondo (Germany)** on 18 Jan 2003, 10:57 a.m.,*
in response to message #2 by Christof

Hi,

I have the ultimate solution with only *one* cable.

It's the F1015-80002 cable (10pin fem. - 9pin fem. on PC side), along with the 5181-6643 adapter (10pin male - 4pin fem.), the F1212-80001 Y-style adapter (10pin fem. and both 4pin male and 10pin male on the other end). On the 9pin end, I use a 6181-6639 null-modem adapter, if need arises, like connecting a 200LX to the PC and exchanging data via interlink and intersvr.

This way I can connect the HP-48, 38G, 'butt-series' (39,40,49), 95LX, 100LX, 200LX, to a PC with only one cable;-)

And the adapters are very small, so they don't take too much room.

Regards,

Raymond

Re: The HP Cable Table by Joe Horn
*Message #4 Posted by **Christof** on 19 Jan 2003, 2:00 a.m.,*
in response to message #3 by Raymond Del Tondo (Germany)

I was thinking of something like that with the addition of some 25 pin adaptors and rj45 adaptors. (I use a lot of Sun made servers and various networking hardware.)

I don't think I can afford to buy all the various (no longer produced??? glen?) parts individually, alas.

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HP-41 Card Reader always runs

*Message #1 Posted by **Chris Murphy** on 17 Jan 2003, 8:22 a.m.*

I got a card reader (via e-bay) that had the gummy wheel problem. Using Dave the "lost rabbit"'s excellent instructions on repairing the hp 82104A card reader, I removed the gummy problem and put it all back together. However, when I pluged it back into my HP-41, it started running immediately and did not stop until I pulled it out of the slot. BTW, I had the calculator off at the time of putting it in and taking it out. I placed the reader back in again and tried to turn on my calculator, but nothing happened. Anyone have any thoughts or suggestions?

Re: HP-41 Card Reader always runs

*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 17 Jan 2003, 9:08 a.m.,*
in response to message #1 by Chris Murphy

Hi;

just a hint: remember those golden plated contacts along the card path? They are "activated" by the card itself. If, by any means, one of them os missaligned and permanetly ON, the circuit will "sense" a card and try to pull it in, switching the motor to ON, too. In this case, the power supply will be almost directly connected to the motor. This may cause the calculator not to turn ON . Verify if those small plastic actuators are assembled correctly OR the metal lids are inverted or bent.

Success.

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Strange HP48GX keyboard
*Message #1 Posted by **Patrick Rendulic** on 17 Jan 2003, 7:29 a.m.*

Please have a look at the HP48GX at the following link:

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1950695413&category=20335

What's up with this keyboard? Any idea? Patrick

Re: Strange HP48GX keyboard
*Message #2 Posted by **Massimo Gnerucci (Italy)** on 17 Jan 2003, 8:27 a.m.,*
in response to message #1 by Patrick Rendulic

It has an overlay on it, probably goes with an expansion card fitted in.

Greetings, Massimo

Re: Strange HP48GX keyboard
*Message #3 Posted by **Emmanuel, France** on 17 Jan 2003, 1:53 p.m.,*
in response to message #2 by Massimo Gnerucci (Italy)

I think so too...

Re: Strange HP48GX keyboard

*Message #4 Posted by **Patrick Rendulic** on 17 Jan 2003, 1:57 p.m.,*
in response to message #3 by Emmanuel, France

You have convinced me.

Thanks!

Patrick

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dismantle 48 series
*Message #1 Posted by **Mike** on 17 Jan 2003, 2:16 a.m.*

I have a 48 series calculator that is on the blink, sometimes it works then it sort of resets itself or turns its self off. I have 2 questions, 1) has anyone had this happen to them before? and 2) how do you dismantle one without damaging the case??

Thanks Mike

Re: dismantle 48 series
*Message #2 Posted by **Randy Sloyer** on 17 Jan 2003, 9:20 a.m.,*
in response to message #1 by Mike

Does it come back to life with a "Try to Recover Memory" message? Or does it retain memory and display the stack as it was before dying?

Anything been spilled into the keyboard? Most probable cause of what you describe.

Opening a 48 is best done by prying open at the appropriate locations. There are 10 heat stake posts that can be "popped" and 6 side catches that must be defeated. Pops open in few minutes and they snap back together like a Lego set. Don't try to peel the bezel off - it's a disaster and the "cutting method" is a total hack job.

Re: dismantle 48 series
*Message #3 Posted by **Paul Brogger** on 17 Jan 2003, 7:05 p.m.,*
in response to message #2 by Randy Sloyer

I've found the "cutting method" to work fine -- I've opened a few that way.

Instructions for the "cutting method" may be found here.

Regarding the other method described, I wonder how one gets enough grip on the front & back to pop the heat stakes.

Can anyone point us to instructions for the other method?

Thanks, (and good luck!)

Paul B.

Re: dismantle 48 series
*Message #4 Posted by **Mike** on 17 Jan 2003, 10:26 p.m.,*
in response to message #2 by Randy Sloyer

It comes back to life and displays the stack as it was before dying. As far as has anything been spilled on it I don't know, I bought it second hand so it may have. I will look over which way may be the easiest way to open it.

Thank you to Randy and Paul.

How I open a 48
*Message #5 Posted by **Randy Sloyer** on 17 Jan 2003, 9:06 p.m.,*
in response to message #1 by Mike

Having tried both cutting the stakes from inside the calculator and peeling the bezel off a dead 48G with a heat gun, I was less than satisfied with either method. I was ruminating on this weeks later, thinking the 48 was just a big pioneer with more heat stakes when I found this article: http://www.hpcalc.org/details.php?id=4701 I stumbled a bit with the language, but the concept was clear. They can indeed be popped open. I tried the method and it was deceptively simple, it became a matter of finding a tool to do the job without marring the calculator.

I found that tool in the form of a wooden craft stick. I use the ones that are approximately 1" wide, 6" long. The wood is typically (and should be) softer than the plastic, so it does not leave

marks like metal tool suggested in the article.

Using the craft stick, I cut one end off straight and shaved one side to form a chisel. It slides right under the top lip of the case. The long stick is a great lever to pop the heat stake mushrooms out. The top four stakes are easy. Just slide the stick in and lift up. The two stakes on each side pop right open. I then take another craft stick that has been cut on a 45° angle and shaved again to be an angle chisel. This can then be slid down the side of the case to release the three catches on each side. Back to the straight chisel and slide it in and pop the six bottom heat stakes and it's open. Do the bottom six in a set of two topmost then the remaining four. Once the outer bottom left and right are free, the center two can be popped like pulling the back off a pioneer machine.

You may bend the keyboard plate a bit at the end on the last two stakes, but it is easily straightened. I have found the G and G+ easier than the GX due to the expansion connector limiting access to the bottom six stakes.

When reassembling, straighten the top plate, especially at the top corners as these are usually bent upward. I then use a pair of flat jawed "duck bill" pliers to bend the seven locking tabs of the keyboard plate into the proper position so they relock into the case bottom. Prepare the stakes, using the same pliers, grab the top of a stake and twist 360° repeatedly, using a light pressure to compress the mushroomed end of the heat stake into a cylinder about the same size as the hole into which it is being inserted. Repeat for all ten stakes. I trim a small amount of the flash from the top of the stake so it does not extend too far and deform the keyboard bezel. I do not shave down the sides of the heat stake as you want the mushroom at the top of the stake to lock back into the keyboard plate.

Place the two halves together, start at the top and squeeze each stake area with just finger pressure. The whole thing snaps back together with a satisfying click. A drop or two of plastic welding solvent cement on each stake can be used if you want a really tight case. If you chose to do this, tightly tape the whole thing together and leave overnight to allow the solvent cement to do its thing and really lock the two halves together.

You can still disassemble in the same manner after gluing. I had one unit I must have popped open three or four times until I found the bottom tab of the positive battery clip was shorting out on the keyboard plate once the batteries where installed. That one is still tighter than many cases I see on new units. It's the same G+ that I installed a black on gray screen in from a dead 49 :-)

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HP-75 EPROM Programming Info Needed
*Message #1 Posted by **Mike** on 16 Jan 2003, 9:00 p.m.*

I have come across a dozen or so EPROMS for the HP-75. But I don't have much info on these. They are marked "CMT - FOXCONN" and the EPROM itself is marked 27C256 (32K x 8). Anyone have any info on these?

Does anyone have any plans for an eprom programmer for these? I notice that there is a 3 pin access on the back. I assume that is for programming.

(picture unavailable) (picture unavailable)

Re: HP-75 EPROM Programming Info Needed
*Message #2 Posted by **Richard Freeman (Australia)** on 17 Jan 2003, 12:50 a.m.,*
in response to message #1 by Mike

I dont have any info on the module but the 27C256 is a fairly common EPROM a Data sheet can be found at : http://www.rigelcorp.com/doc/8051/27C256.pdf

presumably the three pins at the back are for providing the 13V programming voltage to burn it

Regards Richard Freeman

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hp-95
*Message #1 Posted by **Mike N** on 16 Jan 2003, 5:57 p.m.*

I recently bought a HP-95 on a nostalgic whim. Having learned something about HP calculators during a recent bout with the 49, I marvelled at how powerfull and easy to use the calculator (HP19) provided with the 95 really is. It's performance in handling algebraics,using the solver feature is nothing short of phenominal. And they are selling on ebay at criminally low prices!

Now for the hard part.

Software I cast away my HP 95 connectivity software many years ago. I do own a HP Calculator connectivity software for linking up my HP 49, and I still own a connectivity kit for the 200 series.

Hardware I've found an old cable for connection of the 95 to my pc, and th34 HP 48 adapter that came with the new HP Calculator connectivity kit seems to fit as well.

Question Not being able (intestinal fortitude) to just hook it up and see if it works, I must ask. Will either of the connectivity packages I own allow me to transfer files from my pc to my 95.

Re: hp-95, qualified maybe
*Message #2 Posted by **Bill Smith** on 16 Jan 2003, 9:45 p.m.,*
in response to message #1 by Mike N

i too have been the recent beneficiary of really low auction prices. the cable should work just fine, assuming the connectors match up OK. my 95lx came with an HP-48 cable adaptor, which is identical to my 200lx cable plus plug adaptor for the calculator.

i would be willing to bet that the 200lx connectivity software works with the 95lx also, but have not verified that. the IR transfer mechanism is detailed in the 200lx manual; only the binary file formats differ.

if you cannot get the HP software to work, consider some of the software on the SUPER Palmtop site, or the DOS interlink software...it works but the file sizes are kinda large for a

512k 95lx. if all else fails, email me RE: 95lx ConnPack.

best of luck... \bs

Re: hp-95, qualified maybe
*Message #3 Posted by **Christof** on 17 Jan 2003, 3:39 a.m.,*
in response to message #2 by Bill Smith

I keep thinking my cable connections look different... the 200LX and 49 have 10pin connectors, the 48 and 95LX have 4 pin connectors.....

okay, that aside, the 95LX can do serial transfer. just basic, everyone can do it, serial connection. The connectivity pack software is great, but you don't need it to just push bits from one place to another.

Re: hp-95, qualified maybe
*Message #4 Posted by **Bill Smith** on 17 Jan 2003, 12:31 p.m.,*
in response to message #3 by Christof

yes, just to re-state: the cable that came with my 95lx has both the 10-pin connector, and an adaptor to change the 10-pin to a 4-pin (HP48). the adaptor is not needed without an HP48.

just to transfer files, any terminal program should work for serial port transfers. an advantage of the ConnPack, and some other programs allow one to access drives and other resources on host PCs. someday, i hope to get my 200lx on the web via my home LAN(it has been there briefly using a modem), just for the heck of it...maybe the 95lx too!

good luck /bs

CORRECTION
*Message #5 Posted by **Bill Smiith** on 17 Jan 2003, 11:47 p.m.,*
in response to message #4 by Bill Smith

CORRECTION: i just got around to actually testing the 95lx and, lo and behold, the 4-pin adaptor is required for the 95lx as well. my apologies if i've mislead anyone.

/bs

some test results

*Message #6 Posted by **Bill Smith** on 22 Jan 2003, 3:38 p.m.,*

in response to message #2 by Bill Smith

having finally caught up with work, i got to messing with my new 95lx. i tested it with some of the following configs:

95lx --> 200lx Conn.Pack this works just fine. 95lx --> w32filer (a SUPER site download) did not work, though it works well with the 200lx. 200lx w/ 95lx cable (w/o 4 pin adaptor) works fine.

it appears that the base serial cable is universal through the lx series, providing the proper adaptors are available. i have a small assortment of PCMCIA cards that i will also test for compatibilty between the 95-100-200 lx series.

best luck, /bs

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HP handheld (old) calculator 41cv
*Message #1 Posted by **bob** on 16 Jan 2003, 4:23 p.m.*

can anyone tell me how to clear my calculator read out?.. I have an old HP 41cv

Re: HP handheld (old) calculator 41cv
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 16 Jan 2003, 6:52 p.m.,*
in response to message #1 by bob

Hi;

my first answer was a bit vage, so I decided to rewrite it.

What do you want to: clear display contents or physically clear the display for dirty?

If you want to reduce display contents to 0.0000, simply press

`[<-]`

or

`[SHIFT] (yellow key) [<-].`

If you want to remove dirty from inside the LCD display, meaning you have some sort of dirty on it, the best way is by openning the calculator and using air. People from this very site have exhaustively discussed this particular subject many times, and many of them can guide you to accomplish this task. Do you ned assistance on this?

Best regards and success.

Luiz C. Vieira - Brazil

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HP-200LX serial cable
*Message #1 Posted by **David Ramsey** on 16 Jan 2003, 1:26 p.m.*

I'm looking for a serial cable for an HP-200LX-- one with the 10 pin HP plug on one end and a DB-9 on the other.

Does anyone know where I could get one of these?

Re: HP-200LX serial cable
*Message #2 Posted by **Christof** on 16 Jan 2003, 1:57 p.m.,*
in response to message #1 by David Ramsey

or a pinout? It's going to be fairly easy to make provided with that. (the connector will fit if you cut down some two row connector blocks to 2x5)

Re: HP-200LX serial cable
*Message #3 Posted by **David Ramsey** on 17 Jan 2003, 1:20 a.m.,*
in response to message #2 by Christof

Would the cable for a 38/39/48/49 series calculator work? Looks like the same connector...

Re: HP-200LX serial cable
*Message #4 Posted by **Jeffrey_G** on 17 Jan 2003, 8:10 a.m.,*
in response to message #3 by David Ramsey

Serial cables for the HP-200LX and HP-49 are not interchangeable. I attached a HP-200LX serial cable between a PC and an HP-49 and the HP-49 immediately shut down. There must be a pin-out difference between the two cables.

Jeff

Re: HP-200LX serial cable
*Message #5 Posted by **Mike (Stgt)** on 17 Jan 2003, 9:43 a.m.,*
in response to message #3 by David Ramsey

Look here: http://www.rundel.net/palmtop/hp200/accessories.htm

Thomas offers a free trade list too, so you may finde a used one too.

Alas, cables for HP-38/39/40/48/49 and HPLX Palmtops are NOT interchangable. If you take a closer look they are a little bit different, only a little bit but sufficient :(

Ciao.....Mike

Re: HP-200LX serial cable
*Message #6 Posted by **Philip** on 17 Jan 2003, 9:13 a.m.,*
in response to message #1 by David Ramsey

A brand new one can be purchased at www.palmtoppaper.com or they pop up on ebay sometimes. The price is 39.95 new.

Re: HP-200LX serial cable
*Message #7 Posted by **David Ramsey** on 17 Jan 2003, 8:23 p.m.,*
in response to message #6 by Philip

Thanks! The link to the Palmtop Paper was what I needed. It's expensive, sigh, but it's the best solution for what I need.

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Re: HP41 - PC Gateway & Emulator
*Message #1 Posted by **Renato** on 16 Jan 2003, 11:29 a.m.*

There have been requests for a PCI card. May I suggest investigating a USB to HP-IL adapter - IMO this would be equivalent, more flexible and maybe less expensive.

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A little HP-15C challenge

*Message #1 Posted by **Ex-PPC member** on 16 Jan 2003, 11:20 a.m.*

Hi, everybody.

To cheer the forum up a little, here's a nice challenge I've come up with for all you fans of the awesome Voyager Series' HP-15C calculator. Take yours from the safe and use your time-proven ingenuity to try and solve this challenge:

Initial conditions:

1. Assume a newly reset machine (i.e.: no specific angular or display mode, no specific contents in any register or program memory)

2. Start with the value of PI (3.141592654) displayed in the X-register

The Challenge:

You must try and get the value PI/10 (i.e: 0.3141592654) in the X-register, subject to these

Conditions:

1. you cannot use *any* numbered registers (R00 thru R65)
2. you cannot use number-entry keys (0,1,...9, ., EEX, CHS)
3. you cannot use arithmetic operators (+,-,*,/)
4. you must try to *minimize* the byte-count for the operations performed

If you find it too hard, I suggest you first try to solve it subject to a subset of conditions 1,2,3,4 above. For the full challenge (all four conditions simultaneously met), unlikely as it seems, there's a solution in as few as *two bytes* !

The first solution posted will get an autographed jpeg of my 'hero' HP-15C :-)

[By the way, does your solution work for values other than PI, such as e (=2.718281828...) or the square root of 5 ? ;-)]

Wondering about it: I'm stuck.
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 16 Jan 2003, 3:18 p.m.,*
in response to message #1 by Ex-PPC member

I'm stuck.

What makes the HP15C elected for the task instead of the HP11C? Complex Mode, Matrices, SOLVER and Numerical Integration.

Let's verify initial conditions: Pr Error and [f][PI].

Cannot be Matrices, because the simple access to any element demands matrix creation and number entering. But if we create a 1X1 matrix with [f][MATRIX]1... Oops, R0 and R1 are used. SOLVER and Numerical integration demand programming and number entering as either starting roots or upper and lower limits, despite the fact that the program itself is byte consuming.

Activating complex mode uses at least 1 byte ([f][Re<>Im] or [f][I]) unless you burn the two bytes with [g][CF][8]... Oops, numbers not allowed.

Based in the fact that there is a two-bytes solution, this leads us to a single one-byte instruction to solve the problem! Well, this is true only if I am correct in my reasoning, otherwise everything else in the HP15C, under the conditions above, is also available in the HP11C.

I want to know how to do it!

Still stuck.

Re: Wondering about it: I'm stuck.
*Message #3 Posted by **Katie Wasserman** on 16 Jan 2003, 5:28 p.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

Here's a 3 byte solution that will work on almost any RPN calculator for any number:

ENTER, %, SQRT

Re: Wondering about it: I'm stuck.
*Message #4 Posted by **Dave Shaffer** on 17 Jan 2003, 6:07 p.m.,*
in response to message #3 by Katie Wasserman

Why does Katie's solution work?

I don't have a manual handy, but the operation of the % key seems very strange (at least in RPN). As near as I can tell from trying several examples on a '41CX, if you ENTER a number, then enter a second number, and then do "%", you get the product of the two numbers times 0.01. I wouldn't call that a per cent operation. (Given that this is what happens, then taking the square root of the 0.01 factor gives Ex-PPC's desired factor of 0.1) If the second number you enter happens to be 100, then the % operation makes sense - but not otherwise. Am I missing some fundamental math here?!?! I would have expected the % key to give what per cent the X register is of Y (or vice-versa).

Re: Wondering about it: I'm stuck.
*Message #5 Posted by **Vieira, Luiz C. (Brazil)** on 17 Jan 2003, 10:07 p.m.,*
in response to message #4 by Dave Shaffer

Hi;

if you compute X% of X, you have:

```
x × x
   ---
   100
or


x^2
---
100
```

Think of 10% of 10:

```
10 × 10
     ---
     100
or
```

$$\frac{10^2}{100} = 1$$

The square root of X% of X is:

$$\frac{x}{10}$$

It took me a while to figure it out, too. A very good demonstration of knowledge from our dear contributor.

Thank you, Katie.

Cheers.

Re: A little HP-15C challenge
*Message #6 Posted by **Stephan (Germany)** on 16 Jan 2003, 3:49 p.m.,*
in response to message #1 by Ex-PPC member

Long solution:

Starting with PI in x register

x<>y 10^x 10^x g %

Re: A little HP-15C challenge
*Message #7 Posted by **Gene** on 16 Jan 2003, 4:51 p.m.,*
in response to message #6 by Stephan (Germany)

First stop:

Assuming PI is in display.

ENTER SIGMA+ 10^x %

four steps, but I haven't given up.

Re: A little HP-15C challenge
*Message #8 Posted by **Vieira, Luiz C. (Brazil)** on 16 Jan 2003, 4:56 p.m.,*
in response to message #7 by Gene

Hi, Gene;

Ex-PPC asked not to use registers... and [Sigma+] uses them. Just a reminder. Anyway, if he did that, he already knows he can't.

Cheers.

Re: A little HP-15C challenge
*Message #9 Posted by **OJM** on 17 Jan 2003, 11:04 a.m.,*
in response to message #8 by Vieira, Luiz C. (Brazil)

One answer is:

STO RAN#

RCL RAN#

I think this is unique to the HP15C in how it stores a seed number for the next random number generation. It will do this for any number, not just Pi. For example, 5.235 in the x-register becomes 0.5235.

Re: A little HP-15C challenge
*Message #10 Posted by **Ex-PPC member** on 17 Jan 2003, 11:26 a.m.,*
in response to message #9 by OJM

Congratulations !! :-)

This is the the *exact* answer to my challenge.

I've always found it somewhat curious that such infrequently used instructions as STO #RANDOM and RCL #RANDOM are *one byte* in length, instead of two-byte. I guess this is because all actual two-byte instructions in the set are of the 'prefix' kind, i.e: STO+, STO-, CF n, SF n, INTEGRATE a, SOLVE b, etc., so there were no candidates to use these two remaining one-byte codes.

By the way, STO #RANDOM and RCL #RANDOM do **not** divide by 10 numbers in the range [0..1), they come out unaltered. So, this internal register can be perfectly used to store constants in that range, thus saving a valuable register (numbered or allocated from the pool) or 7 program bytes, at no cost ! This works fine as long as no random numbers are needed in the routine. I've used this technique in some of my programs for the 15C, and sometimes it was the *only* way to fit the program in the available memory :-)

Your correct entry is the first one which meets all four requirements, while minimizing the byte count, so I will be ***very*** pleased to send you the 'prize' via e-mail, if only I had some e-mail address of yours ... :-)

Re: A little HP-15C challenge
*Message #11 Posted by **OJM** on 17 Jan 2003, 11:51 a.m.,*
in response to message #10 by Ex-PPC member

Keep the picture - send me the calc! ;-)

Re: A little HP-15C challenge
*Message #12 Posted by **Nenad Vulic (Croatia)** on 18 Jan 2003, 2:19 a.m.,*
in response to message #10 by Ex-PPC member

I don't have a solution, but analysing the above proposals (regardless of that weird store/recall random#) I must say:

Katie, you are simply the best!!

IMHO, the solution she has given is the most elegant one...

Hear! Hear!
*Message #13 Posted by **Larry Corrado** on 18 Jan 2003, 7:55 a.m.,*
in response to message #12 by Nenad Vulic (Croatia)

I agree with Nenad Vulic: Katie's solution was the most elegant.

I tried to do it by subtracting 1 from the log, but couldn't do it within the constraints of the problem.

LC

I agree!
*Message #14 Posted by **Vieira, Luiz C. (Brazil)** on 18 Jan 2003, 7:56 a.m.,*
in response to message #12 by Nenad Vulic (Croatia)

;-)

(Hi, Nenad!)

Re: I agree!
*Message #15 Posted by **Katie Wasserman** on 18 Jan 2003, 12:54 p. m.,*
in response to message #14 by Vieira, Luiz C. (Brazil)

Thank you all!

That's high praise, coming for the likes for such HP fanatics as yourselves, really!

-Katie

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Re: Petroleum Fluids Pac unt conversion
*Message #1 Posted by **Juan J** on 16 Jan 2003, 12:38 a.m.*

David:

Do you have or can you get an AME Design Port-X-Tender? It allows you to switch between several modules without the hassle of plugging and unplugging them. They appear every once in a while on eBay and are not expensive, so you could try one.

On the other hand, I have been trying to get a ROM image of the Petroleum Fluids Pac using the HEPAX module but have not pursued it seriously. Could be an interesting project if possible. I can give it a try these days and keep you posyed.

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Re: HP-41 internal upgrade. ????
*Message #1 Posted by **David Smith** on 15 Jan 2003, 6:19 p.m.*

Yes, it is a speedup circuit. Some used some keyord commands to turn it on and off (you should see some wires going to the keyboard). Others used a magnetic reed switch and an external magnet to control them. Finally some used a tiny pushbutton mounted in the charger port.

The connection to the CPU card is not a diode, but the timing capacitor. The chips on the speedup board are usually a CMOS flip/flop and an analog switch.

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HP-71B HP-IL Interface Module Versions

*Message #1 Posted by **Gordon Dyer** on 15 Jan 2003, 5:34 p.m.*

I have 2 82401A interface modules. One is software version 1A (8529) the other is software version 1B (8628).
Can anyone tell me what the changes are in the modules, or the software bugs that were fixed?
Thanks...

HELP! Re: HP-71B HP-IL Interface Module Versions

*Message #2 Posted by **Gordon Dyer** on 17 Jan 2003, 3:00 p.m.,*
in response to message #1 by Gordon Dyer

Are there no HP-71B experts here who can help with this??

Re: HP-71B HP-IL Interface Module Versions

*Message #3 Posted by **J-F Garnier** on 18 Jan 2003, 5:48 a.m.,*
in response to message #1 by Gordon Dyer

Hi Gordon,

I have an addendum page (in french) for the HP-IL manual with bug workarounds for the 1A version. Here is a sort summary (translated by myself, sorry ...):

1 - ENTER: if an under/overflow can occur during numeric input, then use an alpha variable and use the VAL function, OR make sure that flag -1 is clear and don't place other variables after the numeric variable.

```
e.g. replace
  ENTER 2;A,B
with
  ENTER 2;A$,B$
  A=VAL(A$) @ B=VAL(B$)
or
```

```
F=FLAG(-1,0)
ENTER 2;A
ENTER 2;B
F=FLAG(-1,F)
```

2 - OUTPUT and PRINTER IS: Avoid risk of Memory Lost during OUTPUT and PRINT by using one of these actions:
* use ENDLINE to define the end-of-line sequence with zero or three characters,
* or use OUTPUT and PRINT instructions that don't send end of line sequence (end the instructions with ';') and define an infinite width for PRINT

3 - CAT and CAT$: avoid Memory Lost condition during CAT operations by using one of these actions:
* don't press any key when the mass storage is busy (LED on)
* or make sure that the first file is not deleted (immediatly PACK if you delete the first file)

4 - PACK and PACKDIR: avoid Memory Lost condition during packing of a medium by NOT using a user defined function in the unit identifier.

Bugs 2 and 3 were the most serious ones. I remember that in these old good days I always used a 3-character end-of-line sequence: ENDLINE CHR$(13)&CHR$(13)&CHR$(10) (bug 2). It was also a good practice to create a dummy first file just after disc initialisation to protect against bug 3.

Regards.

J-F

Re: HP-71B HP-IL Interface Module Versions
*Message #4 Posted by **Gordon Dyer** on 19 Jan 2003, 3:59 p.m.,*
in response to message #3 by J-F Garnier

Thanks for the help!

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HP41CX scary moments (or: There is a Poltergeist with my calculators)
*Message #1 Posted by **Vieira, Luiz C. (Brazil)** on 15 Jan 2003, 4:29 p.m.*

Hi, folks.

A few days ago I posted a message about an HP25 with a strange behavior. Now it's the time to try to figure out what happened with my HP41CX's time module.

I took it yesterday night and turned it on. [MEMORY LOST], no matter. But no switching to OFF; instead, an annoying, persisting [MEMORY LOST]. Last time I saw it, my HP41C was sent to repair at HP Service Center and returned with a new 1LA701 (RAM chip with first 16 registers, the ones used by the system to store the stack registers, ALPHA characters and those well-known synth regs: "a", "b", "d", "Q",...). And the HP41CX was with the same symptom. If this is the cause, I can test a spare 1LE701 I have in a broken HP41C motherboard, but my 41CX is a halfnut... I cannot se a way to transplant organs from a fullnut to a halfnut.

The [MEMORY LOST] also had a brief flashing, about 1 sec. span, and the BAT annunciator lit after a few seconds. I remember I read about time module crashes and that it needed to be removed for a few minutes and then reinserted. In an HP41CX? How could I do that???

Well, remove batteries and wait for a while. I decided to change the batteries in the pack for new ones and tested the removed pack in an HP41CV, halfnut too, and the BAT annunciator stood still: did not lit on. Batteries O.K.

LBL 01 I inserted the batteries back in the HP41CX and the [MEMORY LOST] remained, but this time the [<-] cleared it. Wow! Let's put my heart back in my chest. And for a last test: [SHIFT] [ON] and... blank display! No watch display, no turn ON, no nothing. Remove batteries, remove the heart from the chest and keep in hands again, wait for a while (I stop smoking about 8 years ago, and I'm lucky not smoking today...). RTN XEQ 01; this time, instead of [SHIFT] [ON] I tried [CLOCK] and... There you are, my dear; where have you been for the last hour?

Well, what to conclude? For me, a possible bad contact BUT complete isolation from the battery connector caused the time module to behave erratically. The system interruption caused by [SHIFT]

[ON] was not successful to bring it back from this condition, but [CLOCK], as a function, takes a different route. Maybe if I left the calculator for a couple of hours without the batteries it would get back O.K., but I was in a hurry to know what was going on. I hope this experience is useful to someone else.

Cheers.

Re: HP41CX scary moments (or: There is a Poltergeist with my calculators)
*Message #2 Posted by **Ernie Malaga** on 15 Jan 2003, 5:18 p.m.,*
in response to message #1 by Vieira, Luiz C. (Brazil)

Luiz:

If you decide to get your HP-41CX exorcised, we'll all pray for it.

Last time something unexplainable happened to me, it was on a borrowed HP-65. I had one devil of a time explaining to its owner that I hadn't broken it!

-Ernie

Re: HP41CX scary moments (or: There is a Poltergeist with my calculators)
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 15 Jan 2003, 5:29 p.m.,*
in response to message #2 by Ernie Malaga

Hi;

Literaly, God bless you, Ernie. And all of you who want too...

I'm not a skepticle guy, I do not play with religious stuff, but there are moments we can sit back and laugh about some strange facts. Mostly when they are in the past...

Once a friend asked me to use my HP41C. He took four weeks to give it back to me. I was completely pissed off, and he was a little shy. I forgot the byte-jumper assigned to the [Sigma-} key and the calculator was in USER mode. Not necessary to say the calculator almost freaked him out.

Sometimes things happen.

Cheers. And thanks.

Re: HP41CX scary moments (or: There is a Poltergeist with my calculators)
*Message #4 Posted by **David Smith** on 15 Jan 2003, 5:54 p.m.,*
in response to message #1 by Vieira, Luiz C. (Brazil)

On the halfnut machines, if you are testing them with a battery pack clipped across the main capacitor then you will see the BAT indicator on. Apparently you have to bring power in through the legitimate route to get the machine to properly monitor the battery voltage.

I have seem machines with good batteries indicate BAT because of (often invisible) contamination between the contact assembly and the keyboard. They function normally except BAT comes on (and often times the card reader will not work properly).

Re: HP41CX scary moments (or: There is a Poltergeist with my calculators)
*Message #5 Posted by **Michael Meyer** on 15 Jan 2003, 11:37 p.m.,*
in response to message #4 by David Smith

Luiz,

I've often said that using my HP's is a, "religious experience." (I mean, have you ever just sat and LOOKED at an HP-19C? or an HP-67? or 97... or 25....)

You've given this a new meaning.... I will pray that your "higher power" wins the day!

Michael

Re: HP41CX scary moments (or: There is a Poltergeist with my calculators)
*Message #6 Posted by **Vieira, Luiz C. (Brazil)** on 16 Jan 2003, 12:20 a.m.,*
in response to message #5 by Michael Meyer

Hi, Doc;

thank you for "comming" so fast...

Hey, a few months ago, one of the contributors passed an interesting "prescription" to another, desperate contributor: "Take two HP33 and call me in the morning". If the "medicine" was other than the HP33, I am sure they were "equivalent". That made me remember you.

We must not forget the good moments, too. The ones I'm celebrating everytime I look at them are related to an HP55 and an HP41C.

This particular HP41C was my first Hewlett-Packard calculator, and it had, till last December, two RAM IC's soldered "upside down", meaning they were rotated 180 degrees by this insane writer. Yes, I did this in the mid 80's, I'm not sure about the year (in one previous post I wrote the year, but I am not quite sure about it). After seeing another HP41 with the same mainboard, I tried to kill myself but decided that I should first undo that stupidity. It worked perfectly and I kept my soul untouched. The HP55 was given to me by a friend and it was dirty, with bad contacts and had a dead battery. After a first "surface cleannign" I reassembled it and the display was erratic. I thought it was lost, but once again I messed the stuff up: the contact lids were upside-down, too. Stupidity undone and my only one Classic is running as hell. And the battery was "revived" after a few sparky capacitve restauration.

Interesting calculator: the only one I have were I can place two numbers in the stack (X and Y), perform any of the two available conditional tests with keystroke sequences (x<=y nn and x=y nn) and verify that they are executed! I think a few other classics have the same conditional tests' functionality. When I first read the HP55 User's Manual and I saw it mentions that the only operations that perform different tasks in RUN and PRGM mode are [GTO] and [R/S] I thought: "What about the conditional tests?". I was surprised when I verified that the conditional tests in the HP55 perform the same task either in direct keystroke or in a running program.

I was used to see the HP41's YES and NO, or the complete disregard of any Voyagers with the conditional tests performed in RUN mode as direct keystrokes, that I felt amazed with this particular 55's feature. Too bad the only merged codes in its program structure are [GTO]nn, [x<=y]nn and [x=y]nn.

Wow, too much words. Sorry, guys.

Thank you for your "spiritual" support.

Best regards, Doc.

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Re: EXCEL2002 Forensics
*Message #1 Posted by **Gordon Dyer** on 15 Jan 2003, 1:16 p.m.*

I just tried :
=degrees(asin(acos(atan(tan(cos(sin(9*pi()/180))))))
on EXCEL2002 and got a very good result of 9.000000000000010
Well done Microsoft!

Re: EXCEL2002 Forensics
*Message #2 Posted by **Karl Schneider** on 15 Jan 2003, 8:54 p.m.,*
in response to message #1 by Gordon Dyer

I got the same result of 9.000000000000010 on Excel 97.

BTW, Gordon omitted one close-paren. The formula should read:

=DEGREES(ASIN(ACOS(ATAN(TAN(COS(SIN(9*PI()/180)))))))

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HP42S programming (text editor)
*Message #1 Posted by **Christof** on 15 Jan 2003, 12:55 p.m.*

Well, I'm working on some text editor and "file utility" fucntions for the 42S, limited to what I cna code on the machine (menaing I'm not doing simulator and saturn assembly..... yet.)

So far I've got two systems running side by side- one uses an x row by 8 column array to hold the alpha data in groups of 6 letters per element. one problem with this is that you need to somehow control the display of empty elements to prevent excessive numerics. (I generally have my machine set to fix 5 and end up with 42 0s in the alpha register if I have a >7 character string, for example)

The other method is to make an x by 44 matrix and use individual character codes, but this seems to just add a problem of taking more memory (not everyone has ~31500 bytes to play with)

I also have not found a way around the need to use the r/s key after doing alpha entry. The best I've done (and found int he programming guide that this is what they do as well) is:

AON PROMPT AOFF

anyone have anyhting better? There are two main uses, one is to type in the [programmer restricted] 6 character "filename" with then gets ASTO 40 (I use registers 40-49 thus far to prevent overwriting other regs, we shall see) the other main use is the actual editing and entering of textual data (44 character line limit) which then gets stored in 6 character chunks into the various columns of the current row of a matrix.

I'm doing this all fairly conventionally, using the 42S manual and the PDF of the Programming guide as references. If I'm missing anything important, someone holler up :)

The matrix system for forming "text files" seems to be the only way I can do this given the 42S system...

the other functions I'm working on (or in a few cases have done) include newfl (making a new "file"), cat (straight concat file x into file y), merge (take files z and y & create a new file x), list (list

matrixes identified as "files"), copy (done within TXTED to keep the file listing straight), delete (same reason), and I've got the menu hooks for an encryption and decryption method for fun (but that is lower priority than the rest and not started beyond having blank labels.)

-C

Re: HP42S programming (text editor)
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 15 Jan 2003, 2:03 p.m.,*
in response to message #1 by Christof

Hi, Christof;

have you thought about a running program that would stop and scan the keyboard with GETKEY? This way, everything will be automated, you will not insert characters directly to ALPHA register, instead ALPHA contents would be "re-assembled" each time a key is pressed. You should terminate the "writing" process if an specific key is keyed in. Each key has a code for GETKEY, and you need to convert the code to ASCII and use XTOA to add the keyed-in character to ALPHA. You can simulate the ALPHA input already existing in the HP42S or create your own. Also, you would verify ALENG (ALPHA Length) for each key pressed and when it reaches 22 you would ASTO ST X and ASHF (ALPHA shift).

Many things can be done out of the ALPHA environment and you would simulate an actual editor, even with specific softkeys. And the HP42S is fast enough to allow the program to run and build the LCD fastly.

I thought about an editor for the HP42S, but I remember at that time I thought it would be a lot usefull if the HP42S had I/O capabilities to save and retrieve matrices with ALPHA data.

As you asked about suggestions, my US$ 0.05

Cheers and success.

Luiz C. Vieira

Re: HP42S programming (text editor)

*Message #3 Posted by **Christof** on 15 Jan 2003, 2:58 p.m.,*

in response to message #2 by Vieira, Luiz C. (Brazil)

Luiz-

not a bad idea...

I/O would help a lot, I started out just looking for something to keep some notes with when I'm out.

And I had thought of doing something that would allow for straight alpha entry, though I'd have to make some sort of overlay to know which keys were which in "alpha keyboard mode"

Typing with the two level alpha menu isn't really that slow for notes once you get used to it, though. (I bet I could make an easily memorizable system that would use only the first 12 keys in combinations of two, which is a 144 character space.Btu that is another topic entirely.)

I'll look at a getkey based system for entry, if I am manually drawing the display from user code it might get a bit large as a codebase for a stock 42S..

could be *really* useful if we get to a point where we can add in a rom on that second pad, though....

I'll look at the getkey based possibilities this afternoon.

Would people be willing to muck with their keyboards to have a "proper" alpha input system?

(and how best to handle lower case when you need the shift key to handle numbers and such)

Re: HP42S programming (text editor)
*Message #4 Posted by **Vieira, Luiz C. (Brazil)** on 15 Jan 2003, 4:38 p.m.,*
in response to message #3 by Christof

Hi, Christof;

If you use GETKEY, you can use a flag to signalize shifted (lower-case) letters, so you would not need to keep [SHIFT] keey pressed, it would act as a toggle key. The problem is that the [SHIFT] key itself does not generate a code, instead it shifts the code for the next key (if I am not wrong). Also, if you think the keyboard is not good for signaling all keys, you can use [^] (up) and [v] (down) keys to build two keyboards in the same key set, each one with half the keys in the alphabet.

Jus ideas...

Success.

Re: HP42S programming (text editor)
*Message #5 Posted by **Christof** on 15 Jan 2003, 6:41 p.m.,*
in response to message #4 by Vieira, Luiz C. (Brazil)

I was htinking more of the need to use the numeric and "4 banger" keys for parts of the alphabet, so needing to shift to do numeric and other symbols.

Simulating shift keys with the arrows is possible... I'm going to start worrying about how many changes to the "normal" interface that creates. (functionally having 3 shift keys gives you an insane amount of keyspace that it is possible to assign keys to- 165 in the most efficient double shifting combination, 99 with only single shifting)

I think ideally I would like to keep the standard alpha entry mode, though. At leas tin one version. it's scary to think of modifying the keyboard on these even to just add in alpha characters in paint.

But who knows which answer will work best in the end?

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16C 68 bit index reg: what for?
*Message #1 Posted by **Alexander Supalov** on 15 Jan 2003, 9:23 a.m.*

Hi!

I've got a pretty esoteric question: why does HP-16C index register have 68 bits when all normal registers can be at most 64 bit long? What those 4 extra bits could be used for, bar writing (nearly) endless ISZ loops, I mean.

Best regards.

Alexander

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HP-41C/CV/CX display contrast
*Message #1 Posted by **Don Davis** on 15 Jan 2003, 9:13 a.m.*

I have an older 41C (also a 41CX) on which the LCD display is a little faded compared to some others. Is it possible to open these up and boost the contrast a bit - may a resistor change or something?

thanks, Don

Re: HP-41C/CV/CX display contrast
*Message #2 Posted by **Dave** on 15 Jan 2003, 9:22 a.m.,*
in response to message #1 by Don Davis

Newer half nut HP-41 calcs display is not as good as original designs. do not know how to change this though.

Re: HP-41C/CV/CX display contrast
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 15 Jan 2003, 11:57 a.m.,*
in response to message #1 by Don Davis

Hi;

I have an HP41C, earlier fullnut, that has a faded display, too; also, it fades a bit more when one of the four toggle keys is used (almost vanishes some segments). I tried to use foam to keep it without movements and even resoldered the contacts, but I got no positive results.

About the newer hafnuts, their LCD allows contrast control/adjust, but with the use of specific internal commands and registers, available in some extra modules (if I am not wrong, CCD ROM and HEPAX allow it, I am not sure about PPCC ROM). Also, the halfnuts LCD's allow all lower-case characters to be shonw, instead of the known basic "a" to "e" in the earlier fullnuts.

Cheers.

Re: HP-41C/CV/CX display contrast
*Message #4 Posted by **Don Davis** on 15 Jan 2003, 2:56 p.m.,*
in response to message #3 by Vieira, Luiz C. (Brazil)

This is very interesting about the internal commands to adjust contrast of halfnut models. I do not have Hepax nor CCD. Is there any way to manipulate the required registers otherwise?

Don

Re: HP-41C/CV/CX display contrast
*Message #5 Posted by **Vieira, Luiz C. (Brazil)** on 15 Jan 2003, 4:47 p.m.,*
in response to message #4 by Don Davis

Hi;

Unfortunately I do not have any of these dream little boxes, I only have and know the X-Functions and the standart perypheral devices (82143A, 82153 and 82104) plus the HPIL module. If I have any of these modules, I would for sure dig them to hell, so I could find a way to answer you.

About synthetic coding, I'm not sure there is any specific code to access these guys. And remember that only the halfnut models allow this sort of control. I have the map with lower case letters and the internal registes used to control them. This map was sent by one of the contributors in here. I surely know who is he, and I'm a lot thanked, but I do not mention names prior to ask for their authorization, O.K.?.

If I know something more about it, I'll post later.

Best regards and success.

Re: HP-41C/CV/CX display contrast
*Message #6 Posted by **Don Davis** on 15 Jan 2003, 5:01 p.m.,*
in response to message #5 by Vieira, Luiz C. (Brazil)

Thanks very much! I do have the extended functions module, so if there is a way to control with that, I could use it.

best regards, Don

Re: HP-41C/CV/CX display contrast
*Message #7 Posted by **David Smith** on 15 Jan 2003, 5:59 p.m.,*
in response to message #1 by Don Davis

The fullnut display was optimized for viewing straight on. The halfnut was optimized for viewing at an angle like when the machine was sitting on a desk or held striaght out in the hand parallel to the ground. Fullnuts have a wider viewing angle than the halfnuts.

Low contrast displays can be caused by a faulty temperature compensation circuit. Unfortunately halfnut displays are not serviceable. See the HP41 service manual on the HPMUSEUM CDROM set for fullnut info.

Re: HP-41C/CV/CX display contrast
*Message #8 Posted by **Juan J** on 16 Jan 2003, 12:21 a.m.,*
in response to message #7 by David Smith

Earlier fullnut 41s' displays had no means of adjusting the contrast. Halfnut 41s not only had adjustable display contrast, but also an extended character set, which can be accessed using M-code.

The HEPAX module uses a bug in the 41's operating system to squeeze some extended multi-functions, as the manual calls them, that are executed with the HEPAX nnn function. Incidentally, [XEQ] HEPAX 005 regulates display contrast on halfnuts using a number in the X register (the number must be entered befores executing the function.) The default is, if I remember correctly, 5, and the contrast can be changed from 1 to 14.

Now there's something I've been wondering about lately. WOuld it be possible to plug an HEPAX into a halfnut, set the contrast, and then unplug it? If applicable, could be a way to adjust the contrast on newer (halfnut) 41s. I only have a fullnut 41C and a halfnut 41CX and cannot try this. Perhaps anyone outthere with an HEPAX and two halfnuts?

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Re: Another eBay price record?
*Message #1 Posted by **Pyerre** on 15 Jan 2003, 8:14 a.m.*

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&category=361&item=2500065765

Don't beleive it ! I've got the whole nice working HP33E kit for under $40 few weeks ago.

:-)) USD610,00
*Message #2 Posted by **Daniel Sancho** on 17 Jan 2003, 3:39 p.m.,*
in response to message #1 by Pyerre

http://cgi.ebay.de/ws/eBayISAPI.dll?ViewItem&item=3000008123

No coment :-)

Greetings

Re: :-)) USD610,00
*Message #3 Posted by **Matthias Wehrli** on 17 Jan 2003, 6:49 p.m.,*
in response to message #2 by Daniel Sancho

Just place your comment.. you are allowed to do.. Last HePaX (boxed) was sold last year for arround $680 (I think texaspro has it).. So it's getting cheaper.. But: If you think I pay prices that are to high: Why don't you sell me your stuff? I want do get a big collection..

Matthias

Re: :-)) USD610,00

*Message #4 Posted by **A well wisher** on 17 Jan 2003, 9:30 p.m.,*
in response to message #3 by Matthias Wehrli

Life is not fair, for what I have for sale, I am sure you would not be want.

What you have bought, I would want, but cannot afford.

Enjoy your purchase.

My enjoyment is only vicarious.

Re: :-)) USD610,00

*Message #5 Posted by **Daniel Sancho** on 18 Jan 2003, 9:40 a.m.,*
in response to message #3 by Matthias Wehrli

My dear friend Matthias: Don´t worry be happy.

I said NO Coment, this means: NO Coment. If you understand more than this two words is your problem.

I will not judge you or the other people who buys modules or other items like empty boxes for much money. I am not Judge. I think everybody is free to spent his money freely. I make also not judgements if anybody buys a Ferrari.

However I can not avoid to astonish when I see some things. Is not Judge, the word is astonishment. Other beautiful word used in this bids is "Fair price". The price is relative 10 persons will have 10 different fair prices. The word "fair" :-) make me laugh. People can use other words: "caprice", "desire", "wish",...

Sell my Stuff?: I don´t understand. I´m happy with my stuff. I dont need to sell anything. But if you like I can swap ;-)

Mattias, remember my initial words. There was nothing more.

Greetings.

Re: :-)) USD610,00

*Message #6 Posted by **Juan J** on 23 Jan 2003, 11:11 p.m.,*

in response to message #3 by Matthias Wehrli

Last HEPAX last year was bought by me (I beat Matthias for about 10 minutes :-) by $560. So the price keeps going up, or so it seems...

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Re: 41 emulator
*Message #1 Posted by **John K. (US)** on 15 Jan 2003, 4:10 a.m.*

> If you like PalmOS try to find the emulator from Bernd Abel.

Unfortunately, Coconut (Bernd Abel's excellent 41CX emulator for Palm OS) doesn't seem to be around any more. I was interested in registering a second copy, but his web site simply states that the site has been suspended and that his products are no longer available, and PalmGear no longer lists either the Classic or Connected versions of Coconut.

There is another one out there called P41CV by Charles Lee (also available through PalmGear.com) which is less expensive than Coconut, but I haven't had a chance to try it out yet.

Re: 41 emulator
*Message #2 Posted by **Bill Hemphill** on 15 Jan 2003, 10:59 a.m.,*
in response to message #1 by John K. (US)

I agree that the Coconut 41XC emulator for Palm is excelent. Too bad it's no longer available.

Charles Lee's P41CV is also very good. The nice thing about P41CV is that the registered version includes a Rom Manager which allows you to change the 41CV Modules on the Palm - 12 modules are included including the Advantage and PPC modules. Unforturnately, it doen't include the Extended Functions or Timer Modules. Hopefully, he'll update it to a CX one day.

Another nice feature on P41CV is that you can select a keyboard image that does not include the alpha characers (a, b, c..etc). This allows for a cleaner looking keyboard. Since you can grafiti the alpha characters, it's not a problem not having them on the image.

There's also a high resolution Sony Clie keyboard image that looks great!

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Replacement batteries for 82120A
*Message #1 Posted by **Randy Sloyer(US)** on 14 Jan 2003, 9:48 p.m.*

Sorry if this has been covered before, but I'd like to rebuild a ni-cad pack for a recently acquired 41C. Everything cleaned up okay and is functional. I've read Katie's notes in the articles section on replacement cells for the pack. She states the 1/3AA cells from Digikey fit with room to spare. That's where I would like to double check with the group at large.

The original 1/2N cells are approximately 0.50" x 0.60" including the heat shrink cover. The Digikey catalog lists the 1/3AA's as 0.57" x 0.69". I'm just a bit unsure of "having room to spare" as it looks like the internal max length of the case is 0.685" and at that dimension, there are case bosses in the way. This is not taking into account the welded tab thickness as well. I'm either going to have to cut away part of the case, or perhaps Panasonic has changed the dimension specs since Katie wrote the article last year.

Can anyone explain the seemingly obvious lack of volume to me?

not an answer, but a question Re: Replacement batteries for 82120A
*Message #2 Posted by **Christof** on 14 Jan 2003, 10:21 p.m.,*
in response to message #1 by Randy Sloyer(US)

HAs anyone looked into rebuilding one of these entirely to use a pair of 3v Lithium Ion betteries?

-Christof

Re: Replacement batteries for 82120A
*Message #3 Posted by **Renato** on 14 Jan 2003, 10:56 p.m.,*
in response to message #1 by Randy Sloyer(US)

1/3 AA from SAFT and from Vinnic do not fit - i tried both. 1/3 AAA *should* fit, I have two and will get more. 1/3 AAA are smaller than 1/2 N, but are available.

Re: Replacement batteries for 82120A
*Message #4 Posted by **Randy Sloyer** on 14 Jan 2003, 11:08 p.m.,*
in response to message #1 by Randy Sloyer(US)

Sorry all, I see now Katie did say 1/3AAA, not 1/3AA. The Digikey catalog no longer lists 1/3AAA, only 1/3AA. My mistake.

Ah, to now turn over a few rocks to find the elusive ni-cads in question...

Re: Replacement batteries for 82120A
*Message #5 Posted by **Bill Smith** on 15 Jan 2003, 1:26 p.m.,*
in response to message #4 by Randy Sloyer

I also have a nicad pack to rebuild. please continue to post the results of your efforts.

a couple questions; what's best to use to cut the case with, and are there any particular places to cut better than others, or perhaps more importantly, places to avoid cuts?

thanks

Re: Replacement batteries for 82120A
*Message #6 Posted by **Randy Sloyer** on 15 Jan 2003, 5:31 p.m.,*
in response to message #5 by Bill Smith

I have found that Gold Peak makes a 1/2N ni-mh 180mah battery. This is an exact physical replacement and 2X the capacity of the 1/3 AAA mentioned earlier. I'm still trying to track down a distributor with stock. I hope I can find some as it is a 1000 pc order direct from the factory. I'll post here when I know more. I also have to check that the HP charge rate will be okay for the ni-mh cells. Spec sheet says (slow rate) 18ma for 14hrs.

As for opening the pack, I used a plastic hot knife, fitted with an x-acto #11 blade. The case at it's thickest point is only 0.075" thick. There is a divider between the charger

circuit board and battery area, so only go as deep as necessary with the knife to part the halves. It's not at all difficult.

Re: Replacement batteries for 82120A
*Message #7 Posted by **Bill Smith** on 15 Jan 2003, 6:02 p.m.,*
in response to message #6 by Randy Sloyer

Thanks for the info...i'll wait to hear regarding the batteries.

Re: Replacement batteries for 82120A
*Message #8 Posted by **Raymond Hellstern** on 15 Jan 2003, 4:55 a.m.,*
in response to message #1 by Randy Sloyer(US)

Some years ago I got a 82120A with replaced cells from Richard Taylor (www.taytec.com ; rick@taytec.com). The cells are *smaller* than the original ones, but have higher capacity. It still works very well.

Maybe you could ak him for more info on this.

Raymond

Re: Replacement batteries for 82120A
*Message #9 Posted by **Dave Mabry** on 15 Jan 2003, 6:54 a.m.,*
in response to message #1 by Randy Sloyer(US)

I have used Sanyo N-50AAA batteries, recently purchased, to rebuild one of the 41C packs. They are rated at 50mah. I'm not sure the rated capacity of the original batteries but these work fine. They are physically smaller than the originals, and that probably helps to make the installation easier. My only problem was that I received the batteries without solder tabs on them so making them into a pack meant spot welding tabs onto them. Soldering directly to the battery buttons would have heated them up too much, I think.

BTW, the Sanyo N-50AAA cells are NiCad.

Re: Replacement batteries for 82120A
*Message #10 Posted by **David Smith** on 15 Jan 2003, 6:07 p.m.,*
in response to message #1 by Randy Sloyer(US)

You can open the pack by slicing around the three sealed sides with a single edge razor blade. It can be tough going but does not risk damaging the case with a hot knife. I start at the back/side seam joint and try to cut into the corners. Then I work along whatever joint seems to be going easiest. Sometimes a little tapping with a hammer helps. Wear safety glasses and keep your fingers in one piece. I use el-cheapo 2 cent razor blades from harbor freight and usually break a couple on each pack.

Opening the 82120A battery pack
*Message #11 Posted by **Randy Sloyer** on 15 Jan 2003, 7:17 p.m.,*
in response to message #10 by David Smith

I started with the x-acto knife much the same way. I tried braking corners to part the seam, but it was really fused together. I knew sooner or later my fingers would pay the price, so I switched to the heated version of the same blade.

The resulting gap is perhaps a bit fatter in places than the ideal, but I figured I would stick the whole thing back together with household "goop", a sort of rubber cement on steroids. Fills the gap fine and the pack will not be any thicker than it started out due to the internal divider acting as a spacer to set the height. May not be the prettiest pack around when I'm finished , but it sure beats spending $60 on a battery pack for a $40 calculator.

Re: Opening the 82120A battery pack
*Message #12 Posted by **Vieira, Luiz C. (Brazil)** on 15 Jan 2003, 7:52 p.m.,*
in response to message #11 by Randy Sloyer

Hi;

I have an 82120 pack already oppened, but I was not lucky enough to find rechageable batteries that small to replace the original ones. The ones I found are big and "fatty" and do not fit in place. There is no number, they came from an assembly pack with three, to form a (almost) AA-size pack. But they are biger than the third part of an AA-size battery.

What I observed is that the pack has a small freedon of side movements (at least mine has), what leades me to think of a small, thin plastic sidewall to recompose the gaps after cutting. Did anyone observed this fact and/or tried to do something like this?

Just reasoning about it.

Cheers.

Re: Opening the 82120A battery pack
*Message #13 Posted by **Renato** on 16 Jan 2003, 7:25 a.m.,*
in response to message #12 by Vieira, Luiz C. (Brazil)

Luiz, I will get 1/3 AAA batteries soon, and will be happy to send 4 to you. Renato

Re: Opening the 82120A battery pack
*Message #14 Posted by **Vieira, Luiz C. (Brazil)** on 16 Jan 2003, 10:33 a.m.,*
in response to message #13 by Renato

Hi, Renato;

I'm sending you an e-mail, but I must say "Yhank you very much" right now.

Best regards.

Batteries for 82120A
*Message #15 Posted by **Randy Sloyer** on 17 Jan 2003, 2:12 p.m.,*
in response to message #1 by Randy Sloyer(US)

The hope of finding the 1/2N in ni-mh seems pretty slim. I checked with the master distributor for Gold Peak and the problem is lack of demand. It is a very low volume part and nobody wants to get stuck with a case quantity (1440 cells!). He does have about 10 original replacement 1/2N ni-cad packs made up for the 41 series machines if anybody wants them. Cost is $29.50/pack. Email me for his phone # if you want it, I don't want to post it.

On a more positive note, The Battery Station (listed under the battery section here) has Gold Peak ni-mh cells in 1/3AAA size which will fit fine. They are 120 mah, which is better than the original 70 mah ni-cads. I've ordered enough for 3 packs. That will leave me with some spares if anybody wants them. Cost was $2.50/cell.

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Re: Another eBay price record?
*Message #1 Posted by **Michel Beaulieu** on 14 Jan 2003, 9:20 p.m.*

http://cgi.ebay.ca/ws/eBayISAPI.dll?MfcISAPICommand=ViewItem&item=1950582388

Is is for the box only??? It's unbelivable!!!! What about the calculator itself!!!

Re: Another eBay price record?
*Message #2 Posted by **Raymond Hellstern** on 15 Jan 2003, 4:25 a.m.,*
in response to message #1 by Michel Beaulieu

But the seller is right: The 16C box seems to be very hard to find. I'd given not exactly that much, but a reasonable amount for that box, regarding the good shape it's in.

Raymond

Re: Another eBay price record?
*Message #3 Posted by **Randy Sloyer(US)** on 15 Jan 2003, 6:56 a.m.,*
in response to message #2 by Raymond Hellstern

Looks like another for him? I know the ZENROM's are worth a few bucks, but $565.00 ? Take out the $200 or so for the CX and reader and that's an awfully expensive module and manual.

Looks like he put in a really high proxy bid, and someone else wanted it almost as much as him... ouch.

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=1950611294

Re: Another eBay price record?
*Message #4 Posted by **John Smith** on 15 Jan 2003, 7:22 a.m.,*
in response to message #3 by Randy Sloyer(US)

It's not just 'take out the $200 or so for the CX and reader and that's an awfully expensive module and manual'.

First of all, a mint, like-new HP-41CX is worth more than $200 by itself. Then, a similar card reader is worth a lot, too. And further, they're not the only items included in the deal, you also get an Advantage ROM, all manuals, several extra, valuable books, and a lot of mag cards.

Assuming everything works Ok, just by the sheer quantity and quality of the items and their looks, I think it's a bargain. Just reselling the items individually could get you much more than $565 right now, who knows how much more in a near future, IMO.

Re: Another eBay price record?
*Message #5 Posted by **David Smith** on 15 Jan 2003, 6:13 p.m.,*
in response to message #3 by Randy Sloyer(US)

I have seen ZENROMS sell for $400. They are VERY rare and only one or two show up in a year. Still it is a lot of bucks for the package...

Re: Another eBay price record?
*Message #6 Posted by **David Smith** on 15 Jan 2003, 6:24 p.m.,*
in response to message #1 by Michel Beaulieu

Actually that is a reasonable price for a 16C box, etc. The bare machine with manual can be found for around $250 in like new shape. Rarely do really nice boxed machines sell for less than $400. I have seen them bring well over $500. Never underestimate the value of a pretty package.

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HP41C on the Shuttle
*Message #1 Posted by **Chris(FLA)** on 14 Jan 2003, 8:14 p.m.*

Look closely at this picture. This is something that we won't see anymore, Or even hope to see from HP.

(picture unavailable)

This is both interesting and depressing.

Chris

thanks for the Shuttle pic
*Message #2 Posted by **db(martinez,california)** on 14 Jan 2003, 8:42 p.m.,*
in response to message #1 by Chris(FLA)

i coppied it to show people when they ask why do you use that "old school" thing?

Re: HP41C on the Shuttle
*Message #3 Posted by **olivier** on 14 Jan 2003, 8:47 p.m.,*
in response to message #1 by Chris(FLA)

Hi,

This picture is absolutly impressive in terms of its power to remind us the level at which these machine were appreciated.

nice finding!

How did you get it , is it possible to get it with a better resolution? (I would like to do a poster with it!)

Olivier

Re: HP41C on the Shuttle
*Message #4 Posted by **Daniel Kekez** on 14 Jan 2003, 11:46 p.m.,*
in response to message #3 by olivier

I'm sure this link has been posted here before, but it seemed relevant to repost. It includes a photograph of Sally Ride and HPs on the flight deck of the space shuttle, and it describes how important these calculators were to the Shuttle Program:

http://www.nasm.si.edu/nasm/dsh/artifacts/GC-hewlett-.htm

Re: HP41C on the Shuttle
*Message #5 Posted by **Chris(FLA)** on 15 Jan 2003, 8:31 p.m.,*
in response to message #3 by olivier

How did you get it , is it possible to get it with a better resolution? (I would like to do a poster with it!)

I grabed the image with my TV card in my PC. The largest picture I can grab with it is what you see (640x480). Sorry I can't get better resolution.

I grabed the image from a 12" laser disc(anyone remember those?) from the IMAX movie "The Dream is Alive".

I setup my player the other night and was watching the disc and spotted the 41's in 2 shots. The other shot I grabed is darker and you can't see the 41's as well. I grabed a bunch of shots of each one.

If anyone wants to keep the pic grab it soon as I will have to take it off my web page soon. I don't know how many hits I will get on it and I have a cap on how many I am allowed.

I am happy you liked it. I was happy to see them. When I pointed it out to my wife she gave me a look and said. "Only you would see that" :)

Chris

Re: HP41C on the Shuttle
*Message #6 Posted by **Johnny Bjoern Rasmussen** on 15 Jan 2003, 9:19 a.m.,*
in response to message #1 by Chris(FLA)

Very nice picture. I would also like to have som more pictures like this...

Re: HP41C on the Shuttle
*Message #7 Posted by **Renato** on 15 Jan 2003, 3:54 p.m.,*
in response to message #1 by Chris(FLA)

I remember seeing a exposition of a HP calc from NASA at Washington DC Smithsonian Museum. Did anyone take a picture of this ? I didn't (or did I ? I have to dig old photos). Even better: anyone at DC area would be willing to pay admission at the Smithsonian, take a picture and post it here ? Of course I can't assure the exposition is still there...

Re: HP41C on the Shuttle
*Message #8 Posted by **S. Martin** on 15 Jan 2003, 8:17 p.m.,*
in response to message #7 by Renato

The National Air and Space Museum in Washington DC does in fact have a 41CV in a display case in the exhibit 'Beyond The Limits'. This is a permanent exhibit that depicts the role of computers in the development of aviation and space flight. The 41 and a picture of Sally Ride make up the display which I took pictures of several years ago (but I was there just two months ago and the exhibit has not changed). If I can get them uploaded to the hpmuseum I will provide links in a response to this thread.

By the way, on the entrance to the exhibit you can see a very used looking HP35 (ver.2).

Re: HP41C on the Shuttle
*Message #9 Posted by **Michael Meyer** on 15 Jan 2003, 11:43 p.m.,*
in response to message #8 by S. Martin

I'll have to look, but I have pictures of the HP calcs, both at the Air and Space Museum, and at the computer display at the Smithsonian.

I actually began collecting calculators after spotting some HP's on eBay and my subsequent visit to the Smithsonian.

It was what made me want to collect!!!

Michael

Re: HP41C on the Shuttle
*Message #10 Posted by **S. Martin** on 16 Jan 2003, 7:27 p.m.,*
in response to message #8 by S. Martin

As promised, here are two pictures of the HP 41 display at the National Air and Space Museum in Washington, DC:

(picture unavailable)

(picture unavailable)

Re: HP41C on the Shuttle
*Message #11 Posted by **Renato** on 16 Jan 2003, 9:43 p.m.,*
in response to message #10 by S. Martin

That´s it ! Just like I remember. IMO it deserves an article at the forum archive. If we can have a panorama view of the exposition at the museum it would be useful for those who have never been to the Smithsonian. The environment is remarkable (space suits, rockets, space modules,etc), and it provides a sense of how HP calculator technology is related to the space technology. The HP-35 exhibit would be a nice addition to the article? I would do it myself, but the Museum is not exactly around the corner for me ;-). Great pics - are they digital or scanned ?

Re: HP41C on the Shuttle
*Message #12 Posted by **Renato** on 16 Jan 2003, 10:30 p.m.,*
in response to message #11 by Renato

This has been posted before, I know : http://www.nasm.si.edu/nasm/dsh/artifacts/GC-hewlett.htm

It tells the history of this calculator (the very one at the museum) and how NASA used HP-41. Also, it tells the history of the 41C time module, which makes this module *the* most significant module in historical importance.

There is a reference to: Keith Jarett, "HP 41 in Orbit," Personal Computing (October/November 1984), pp. 50-54. PC August 1998

Does anyone have access to this magazine ?

Re: HP41C on the Shuttle

Message #13 Posted by ***Vieira, Luiz C. (Brazil)*** *on 16 Jan 2003, 10:33 p.m.,*
in response to message #11 by Renato

Hi;

I'd like to see, I've never been at the Smithsonian... In fact, I have never been anywhere but a few Brazilian cities. But this is not the subject, here. I'd like very much to "see" what's going on out there.

Cheers.

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Web clock display link
*Message #1 Posted by **David Smith** on 14 Jan 2003, 6:00 p.m.*

A while back somebody posted a link here to a web based clock display where a person was drawing the digits by hand. I did some archive searching but could not find it. Does anybody know where it is?

Re: Web clock display link
*Message #2 Posted by **Daniel Kekez** on 14 Jan 2003, 6:21 p.m.,*
in response to message #1 by David Smith

http://www.yugop.com/ver3/stuff/03/fla.html

But this requires flash.

Re: Web clock display link
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 14 Jan 2003, 6:38 p.m.,*
in response to message #1 by David Smith

Hi;

This is weird! The clock shows our computer's watch...

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HP-41CX Extended memory and card reader

*Message #1 Posted by **Chris Murphy** on 14 Jan 2003, 1:54 p.m.*

I just obtained a card reader for my 41-CX. I also have quite a few programs saved in my x-memory modules. Does anyone know of a way I can store my programs in x-memory directly to a card instead of having to load the program into memory and then run the card reader?

Thanks

Re: HP-41CX Extended memory and card reader

*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 14 Jan 2003, 2:54 p.m.,*
in response to message #1 by Chris Murphy

Hi;

there is no "conventional" function that allows data already recorded in magnetic cards to bypass user RAM and go straight to extended memory in the HP41 or the opposite. At least there is no such possibility neither with the X-functions nor with the card-reader's functions set. If other extra, non-conventional modules such HEPAX, CCD ROM, PPC ROM or any other allow this operation, I do not know about it.

I have both X-Functions module and card reader, I never saw this sot of allowance. unfortunately.

Cheers. Sorry for the bad news.

Luiz C. Vieira - Brazil

Re: HP-41CX Extended memory and card reader

*Message #3 Posted by **Chris Murphy** on 15 Jan 2003, 8:46 a.m.,*

in response to message #2 by Vieira, Luiz C. (Brazil)

Thanks Luiz for the information. I suspected as much, but I was kind of hoping that someone had written a little routine for doing the file switching. I haven't had the time lately to look into trying to write something because I haven't fully read the card reader manual yet. Plus, I need to re-read the section on extended memory in my HP-41CX manual.

Regards,

Chris M.

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Re: HP 42S Owners Manual of the future...
*Message #1 Posted by **Tom (UK)** on 14 Jan 2003, 12:48 p.m.*

A future HP manual has fallen back through time and the text has now been reduced to:

"The calculator has been designed. We added examples to use this calculator"

(The above is only a sick joke because it's [almost] true)

Re: HP 42S Owners Manual of the future...
*Message #2 Posted by **Christof** on 15 Jan 2003, 1:09 p.m.,*
in response to message #1 by Tom (UK)

Well, the new 30s manual isn't quite that bad. it would even be useful if it was at least a stapled leaflet instead of a 14 x 17 inch sheet of tissue paper.

I find that about equally disturbing as poorly written docco is impossibly presented docco.

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Re: HP 42S Owners Manual
*Message #1 Posted by **Howard** on 14 Jan 2003, 3:33 a.m.*

I am willing to take either (or both) off your hands for a reasonable price.

Re: HP 42S Owners Manual
*Message #2 Posted by **Gordon Dyer** on 15 Jan 2003, 12:53 p.m.,*
in response to message #1 by Howard

er.....
Did you misread my message?? ;-)

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Re: I don't believe it
*Message #1 Posted by **Paul Brogger** on 14 Jan 2003, 1:38 a.m.*

I think the thickest things in the 48G/G+ are the batteries and the capacitor. I've been meaning to make a low-profile mock-up by moving those to a tube along the left side of the calculator, and installing a homemade back. (Like lots of things, easy to talk about, something else to get around to.)

I've often mused that HP could make a few extra $$ simply by putting out a "landscape mode" HP-48. Move the keys in the trig row & below to the right of the screen, use a slim lithium ion rechargable, max out the memory, and maybe speed things up a bit. (The HP-48GII . . .) Minimal investment and a whole new batch of sales?

But of curse (pun intended), no such thing is to be . . .

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Re: HP-41 internal upgrade. ????
*Message #1 Posted by **Andreas Müller(GER)** on 13 Jan 2003, 6:18 p.m.*

Hi Daniel, what can be seen on the picture you linked to is in deed a Speedup circuit. The speed is switched up or down by a combination of two keys. I assume 'User and Alpha' or 'User and Prgm'. The unit you have was AFAIK never produced commercially. Regards, Andreas

Re: HP-41 internal upgrade. ????
*Message #2 Posted by **Daniel Sancho** on 14 Jan 2003, 9:44 a.m.,*
in response to message #1 by Andreas Müller(GER)

Thank you very much. Andreas

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You should not be able to
*Message #1 Posted by **Mike** on 13 Jan 2003, 5:36 p.m.*

You should not be able to run the tape off, no matter how many times you try.

Re: You should not be able to
*Message #2 Posted by **Richard Freeman (Australia)** on 13 Jan 2003, 6:07 p.m.,*
in response to message #1 by Mike

It appears the Drive has a few problems.

when I hit the rewind button the motor runs for maybe 1 Second and then the display comes up with Error 43 (unexpected beginning of tape or end of tape marker or tape transport failure).

Covering the photo transistor with my finger (and pressing the tape sensor in) I can get the motor to keep running so it looks like I will probably have to strip the deck down and figure out how the light is leaking in. I did not have time to pull it to bits last night.

Regards Richard Freeman

The way it's supposed to work
*Message #3 Posted by **Mike** on 13 Jan 2003, 6:19 p.m.,*
in response to message #2 by Richard Freeman (Australia)

Assuming the tape is properly threaded, and there are no problems with the drive, you should not be able to run the tape off.

The way it is supposed to work is that the light shines on the tape. Because the tape is not transparent, the light is blocked and the motor continues to turn. When the tape holes pass over the light, the light passes through the tape and and the light is reflected to the sensor. That will be the signal to shut the tape off.

"unexpected beginning of tape" is an error that I usually associate with old tapes. Old tapes often have missing oxide and hence it looks like many holes where they are not supposed to be. But you say these are new tapes. Have you inspected the tapes to verify that there is no missing oxide or transparent spots on the tape?

Re: The way it's supposed to work

*Message #4 Posted by **Richard Freeman (Australia)** on 13 Jan 2003, 6:31 p.m.,*
in response to message #3 by Mike

Yep I Have had a look at the tapes when reloading them on the spool visably they seem to have plenty of coating on them and the tape seems to be aligned on the rollers etc. and it also happens with four different tapes (all new.. well they have been sitting in storage for a while unused might be a better description)

there seems to be a lot of light coming from around the tape head (from the lamp used to sense the motor movement I think) and I was suspicious that this was reflecting off the case. is this normal ? how sensitive is the photo-transistor ?

Regards Richard Freeman

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hp-41 molecular weight calculator
*Message #1 Posted by **Geoff Leargent** on 13 Jan 2003, 4:10 p.m.*

Would anyone happen to have the barcode for this program? Thanks for any potential helpers. I think it was originaly coded by Dave Conklin from HP, 00326C

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Re: I don't believe it
*Message #1 Posted by **Frank** on 13 Jan 2003, 2:42 p.m.*

Not to mention the size savings by use of SD/MMC or next gen memory cards!

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The other eBay price records...
*Message #1 Posted by **Daniel Sancho** on 13 Jan 2003, 2:18 p.m.*

OK. I don´t like to read this records because is so.. There is people with much money (or without responsabilities like family, without mortage, ...) that can pay much money for a box with 30 keys and few chips inside.

I also have my own collection/museum, but I don´t like to pay so much money.

I whould see here THE OTHER EBAY RECORDS, like this: http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=2077335358

These are really records but I have my own record: 2 HP-97, 1 HP-67 with cover and 40 magnetic cards, 1 HP-45, 3 adapters. All for 8 Euro :-)))

I like the HP-25, HP-25C, but I'm still waiting because I will pay less than 25 Euro.

Greetings

Re: The other eBay price records...
*Message #2 Posted by **Frank B. (Germany)** on 13 Jan 2003, 7:45 p.m.,*
in response to message #1 by Daniel Sancho

Hi all,

sorry to disappoint you, but this deal didn't come through. I was the winner of this auction. The seller (although not new to Ebay) in some way confused the "Buy now" option with the "Start price". He wrote me an email, apologized, and even offered a few Euros for compensation. For me the apology was sufficient because it was obvious that this was a mistake.

But: I once got a like new HP-48GX or SX (I can't remember) for 2 Euros on Ebay ...

Frank.

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41-CV repair help
*Message #1 Posted by **Jim Kimes** on 13 Jan 2003, 1:24 p.m.*

Hi. About three years ago I bought a 41-CV from a friend of mine. The unit was not in good shape. I re-soldered one of the battery springs and cleaned the corrosion from the inside battery terminals and it worked fine for three years. Now, it has conked out and will not turn on. I tried another battery holder; it's not that. Is there anyone who feels qualified and is willing to repair this unit for me for a reasonable fee? I would like for the candidate to be someone who is a regular poster. There seems to be a number of knowledgeable people out there. I'm afraid if I rip into it, never having gone that far with one, I will ruin it forever. Heaven forbid, right? Let me know. Jim Kimes

Re: 41-CV repair help
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 13 Jan 2003, 2:29 p.m.,*
in response to message #1 by Jim Kimes

Hi;

I am almost sure you'll find someone closer to you than I am, but have you been in trouble enough and want to give it a try, contact me and I'll even try to guide anyone you feel confident enough to open the calculator in your own citty (town?). Do you know any electronic technician close to you that is skilled and trusteable enough to deserve a try-out?

Let me (us) know. It's not that hard for an average technician with precise, specific guidance. Anyway, if anyone alse offers to do the job and you believe it's better, go for it. I just gave a sugestion, I am a lot more interested on having your calculator in good shape.

Success.

Re: 41-CV repair help

*Message #3 Posted by **Woody** on 14 Jan 2003, 11:19 a.m.,*

in response to message #1 by Jim Kimes

It sounds as though the corrosion that was on the battery contact points might have caused a loss of continuity by deposits or by eroding the copper contact strip on the module bar. This was my problem as well. The dissassembly of the calculator and reassembly is not the difficult part. The real trick is finding the battery contact/module bar to replace the failed part. They are few and far between.

Another issue that I found when I took mine apart was that the corrosion had leaked down onto the PCB. Although it did no damage to the circuits, it left deposits and could have caused a short. I used the process I always use when cleaning a cell phone or calculator to remove deposits. Toothbrush, alcohol, and WD-40 used properly followed by a proper drying period seemed to work well.

Anytime you open a case you are also liable to find cracked posts, detached/failed screw bosses, and age-embrittled parts. Good luck with your repair.

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Re: 41 emulator
*Message #1 Posted by **Jim Kimes** on 13 Jan 2003, 1:17 p.m.*

Hi. I want to thank everyone for your inputs re my emulator question. I still run some DOS stuff but I will likely pursue Windows first and then when I purchase a modern PDA, I will look at the OS emulator unless I decide to get an IPAQ. Does anybody have any idea about what language programmers would use to build an emulator? Thanks. Jim

Re: 41 emulator
*Message #2 Posted by **Mike (Stgt)** on 14 Jan 2003, 8:13 a.m.,*
in response to message #1 by Jim Kimes

I did an emulator in FORTRAN. Works, alas currently only an interface to VM/CMS ("my" OS on the IBM mainframe). See here: http://ourworld.compuserve.com/homepages/nutem/

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HP 15C memory
*Message #1 Posted by **Awni Hallak** on 13 Jan 2003, 1:02 p.m.*

Hi I lost the manual of my HP 15C calculator. I can't store in memory 2,3,.. memory 1 is OK. I get error 3. Also X-av. and s , sigma -, sigma+ don't work. Anybody can help? Thanks

@@@@@

(Moderator repost from HP Articles Forum)

Re: HP 15C memory
*Message #2 Posted by **R Lion** on 13 Jan 2003, 1:14 p.m.,*
in response to message #1 by Awni Hallak

If you want to use till R7 (ie:for statistics) do: 7 DIM (i) Regards Raul

Re: HP 15C memory
*Message #3 Posted by **Vieira, Luiz C. (Brazil)** on 13 Jan 2003, 2:35 p.m.,*
in response to message #2 by R Lion

Hi;

this is just to add a bit more info to Rauls precise answer.

if you want to start from the default, you can do what Raul sugests with 19 instead of 7, say,

```
19 [f] [DIM] [(i)]
```

The default number of initial available registers for the HP15C is 20, i.e., R0 to R19. R0 and R1 are always available, because they are needed to address matrix elements (R0-row#, R1-column#)

Cheers

Re: HP 15C memory
*Message #4 Posted by **Renato** on 13 Jan 2003, 4:18 p.m.,*
in response to message #3 by Vieira, Luiz C. (Brazil)

And, if you want to make sure that all memory is clear (be careful - you'll loose all program and register contents), just turn it on while holding '-' (minus) key.

Re: HP 15C memory
*Message #5 Posted by **Glen Kilpatrick** on 13 Jan 2003, 5:44 p.m.,*
in response to message #4 by Renato

Ahhh, this must be because the 15C keeps a "pool" of unallocated registers. I'd thought it was a "sliding curtain" between memories and program steps, but then where would storage for matrices go? Thanks, I better understand this myself now.

Does anybody know if this was the first such HP calc to have "unallocated memory"?

gk :)

Re: HP 15C memory
*Message #6 Posted by **Vieira, Luiz C. (Brazil)** on 13 Jan 2003, 6:05 p.m.,*
in response to message #5 by Glen Kilpatrick

Hi, Glen;

the HP15C is the only Voyager able to do that. You can "define" a "partition" with (N+1) registers, provided that N is in X-register as you execute [f][DIM] [(i)]. The other (65-N) registers are for:

Imaginary part of the complex stack, if complex mode is activated: 5 registers
SOLVER: 5 registers
INTEGRATION: 23 registers
MATRIX elements, one register for each defined element

The only exception is when you use SOLVE with INTEGRATION at the same time, what needs 23 registers and not 28, as expected. The maximum available registers for a minimun register number (N=1 is minumun, even if you try 0 [f] [DIM][(i)]) is 64, what gives you enough space to store an 8X8 matrix.

Before the HP15C the only calcualtor that allowed this sort of user controlled partition was... guess? Yes, the old HP41.

Cheers and best regards, my friend.

Re: HP 15C memory
*Message #7 Posted by **Glen Kilpatrick** on 13 Jan 2003, 6:22 p.m.,*
in response to message #6 by Vieira, Luiz C. (Brazil)

Thank you, friend Luiz. Yeah, it figures (so to speak), the 41 community seems the biggest here, and the 15 & 42 are the most popular shirt-pockets.... These are all three _very_ good calculators.

Re: HP 42S memory
*Message #8 Posted by **Randy Sloyer(US)** on 13 Jan 2003, 7:25 p.m.,*
in response to message #7 by Glen Kilpatrick

Yes, as mentioned, the 42S can do the same. After a memory clear, it defaults R00 to R24 as storage registers. You can enlarge this to a maximum of available memory with [shift] [mode] [√] [SIZE] [number] [enter], Where [number] is the number of registers you want. Anything beyond R99, you must use indirect addressing.

Makes a 15C memory space seem small when it reports 6977 bytes free, or if you've installed 32k, 31533 bytes free. One can never have enough free memory...

HP 42S: the last one with User-Defined allocation?
*Message #9 Posted by **Vieira, Luiz C. (Brazil)** on 13 Jan 2003, 9:54 p.m.,*
in response to message #8 by Randy Sloyer(US)

HI;

I was wondering about the subject (thanks, Glen) and I can only remember these three "amigos" (in order of appearance: HP41, HP15C and HP42S) as the only ones with user-defined "allocatable" memory.

Is there any other HP that does this "trick"? All of the other Pioneers are one of both: financial or less-powerful scientific. All other

scientifics after the HP42 (28, 48, 49) have automatic allocation and work with objects, not numbered registers.

Am I missing someone? Any vintage? I read something very peculiar about the HP95C program memory, but its registers segment has a fixed number of registers, right?

As I am always curious bout this sort of subject, this is another "Just curiosity.".

Cheers.

Re: HP 15C memory
*Message #10 Posted by **Hallak** on 14 Jan 2003, 1:48 a.m.,*
in response to message #8 by Randy Sloyer(US)

Thanks. The problem is solved.

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Re: Another eBay price record?
*Message #1 Posted by **Eddie Mabilllard** on 13 Jan 2003, 9:28 a.m.*

An another good one 3000481964 !!

Could not see this item...
*Message #2 Posted by **Vieira, Luiz C. (Brazil)** on 13 Jan 2003, 12:40 p.m.,*
in response to message #1 by Eddie Mabilllard

Hi, Eddie;

I tried to consult this item and I was not successful. Is it possible to post the complete address?

I'm sorry asking for this, but I'm not much acquainted to e-bay... I only see the suggested auctions.

Thank you.

Re: Could not see this item...
*Message #3 Posted by **Paul Brogger** on 13 Jan 2003, 4:45 p.m.,*
in response to message #2 by Vieira, Luiz C. (Brazil)

Follow one of the other links to eBay (or go directly to http://www.ebay.com/), then enter the suggested item number in the "search" box . . .

Thank you, Paul...

*Message #4 Posted by **Vieira, Luiz C. (Brazil)** on 13 Jan 2003, 6:18 p.m.,*
in response to message #3 by Paul Brogger

Hi;

I just copied and paste the subject # directly in the page address... duuh! It would never worked that way.

It worked alright by using the SEARCH: an HP15C MINT... US$ 260,00 so far... and we still have 1 day and 19 hours to finish. Wow!

Thanks...

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Re: Pile of 48GX found
*Message #1 Posted by **GE (France)** on 13 Jan 2003, 3:37 a.m.*

Thank you all, yes this doesn't look like a bargain, but I'll probably get one, just because... I must !

I'll report here in case of anything remarkable.

Regards.

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Re: Quality of new HP48GX?
*Message #1 Posted by **Christof** on 13 Jan 2003, 1:59 a.m.*

I'll chime in some agreement. the high contrast display is *awesome* compared to anything I've seen on any multiline pioneer or saturn based HP. The keys aren't that bad, not quite like on my 48SX, but not anything like as bad as any other current production hp. (hell, the modern 30s is better than the 49g in key feel.)

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Re: fixes for HP-45 and HP-55 simulators
*Message #1 Posted by **Peter Monta** on 13 Jan 2003, 1:40 a.m.*

I've added PDFs of the two relevant patents to the web page.

Cheers, Peter Monta

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Re: Another eBay price record?
*Message #1 Posted by **Christof** on 13 Jan 2003, 1:29 a.m.*

ack, and to think I've been thinking about adding a 19 to my collection and finding the parts I need for the 75d. I may have to work another year or two to save....

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Re: prices & gossip
*Message #1 Posted by **christof** on 13 Jan 2003, 1:24 a.m.*

hrm... do I need another 20S?

the 12c seems to still be floating around a few places, and I've recently seen a couple 19bii machiens still in retail.

the 39 I never owned, I'm not sure if I need that... of course, there's need and there's need.

Re: prices & gossip
*Message #2 Posted by **Scuba Diver** on 13 Jan 2003, 10:25 p.m.,*
in response to message #1 by christof

I live in Toronto and I have found quite a few 19BIIs although I must admit that the Indonesian-built units cannot compare to the older US, Brazilian or Singaporian (sp?) ones. Most big box stores are selling 12Cs, although I am not surprised, since it appears that they are still being manufactured.

On the weekend I was walking up Yonge St. (where all of the small electronics stores are) and I found some NIB 17BIIs. The boxes were green, which told me that they were from around '95-'96, so I was hoping that one of the boxes would say 42S or 32SII but alas, it was not to be.

:(B.

Re: prices & gossip
*Message #3 Posted by **Christof (Davis, CA)** on 14 Jan 2003, 5:03 a.m.,*
in response to message #2 by Scuba Diver

alas, now even that 17bii is hard to find- especially the older green boxes.

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I like the new HP10B-II
*Message #1 Posted by **Bill Wiese** on 13 Jan 2003, 1:01 a.m.*

I've been using the new HP10B-II financial calculator over last few months for figuring mortgage stuff. Too bad it's not RPN :-(

Wonder what CPU this machine is using.

The KB is pretty tolerable to me but of course not up to Woodstock/etc. quality standards - but I do like it better than that of the "new" HP12Cs being sold despite its "Carlyization". Display is OK, could be brighter (or should I say, offer a tad more contrast). The keytops look pretty good, not sure if they're painted but double-shot injection molding is prob too expensive.

But overall feel and formfactor are good. I'd love to see a 42S or 41C-derivative in this package.

In fact for what I'm doing these days I can almost get away with nonprogrammability given there's a PC around. Perhaps a reincarnation of the orig HP27 (*not* 27S) plus some HP16C features would be great - that is, a nice RPN sci calc plus some finance features (not necessarily a whole 12C) plus a fair set of base conversions, etc.

Bill Wiese San Jose, CA

Re: I like the new HP10B-II

*Message #2 Posted by **Gordon Dyer** on 15 Jan 2003, 1:00 p.m.,*

in response to message #1 by Bill Wiese

I also have bought a 10BII recently and find it 'acceptable'. They have made an attempt to keep the traditional good look and feel of the old calcs, but not quite managed it! The dosplay bezel is a tacky cheap stick on which is so thin it ripples. The 'grippy' edges just prevent it slipping into its cheap looking slip case. The blue colour doesn't have enough contrast. The keys are not reliable as the "click" occurs just before contact is made, so I have to push it through the click harder than is natural.
I sincerely hope that HP read these messages and ensure that these problems are sorted on any new calculators as I am sure it affects sales and is preventing a new generation of calculator users from converting to HP for their quality.

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Re: Try agreements first
*Message #1 Posted by **Don Davis** on 12 Jan 2003, 11:16 p.m.*

I'd like to mention that my first step was to contact the seller politely, state my concerns about the unit in a very non-confrontational way, and ask for a refund MINUS shipping charges and $10 for his trouble. I was turned down.

The problems with the calculator are: (1) Burn/melted spot on the plastic case (not the overlay, which could easily be replaced). (2) Two missing feet. (3) The inside of the battery compartment is badly corroded. One battery terminal is nothing but a large solder-blob which was apparently put there after the terminal corroded almost completely away.

This guy is not a regular calculator seller, I do not believe. It's possible he's entirely justified in his own mind, but I believe that anyone should be willing to make a refund in this situation. He's not.

Re: Try agreements first
*Message #2 Posted by **Pyerre** on 13 Jan 2003, 8:46 a.m.,*
in response to message #1 by Don Davis

If the seller gets the negative feedback from you, you'll get one back from him too...as usual :-(

One day, when you'll buy other things on there (not the calculator related, a vintage radio, for example) or even put the calc up for auction as a parts machine (Jeff's suggestion, which is excellent). The radio & the calc guys do not care about your previous problems about the calculator in details. They just want to see the red mark (negative feedback) on your ebay's account...

Suppose that we've got a calculator from another source, unsatisfied with it, the agreements do not work and the feedback's system does not exist ?

All efforts have now been made without success. Since this is the calculator related issue, just let the calculator people (forum, newsgroup,...) knows who's, to be aware with and a neutral feedback on ebay.

IMHO thought (worth 2 cents)

Re: Try agreements first
*Message #3 Posted by **R Lion** on 13 Jan 2003, 9:36 a.m.,*
in response to message #2 by Pyerre

"Don't put a neg for not recieving a neg"...ummmmh: That's the reason becuse the ebay feedback is NOTHING. I think that if the seller don't decribe what he is selling, he is not being honest. Neg feedback is what I'd put.

[OT]Last sunday I've "lost" a 42s in ebay: I didn't bid more, becuse the seller didn't answer three emails in five days...

Raul

Re: Try agreements first
*Message #4 Posted by **David Smith** on 13 Jan 2003, 6:06 p.m.,*
in response to message #3 by R Lion

Actually, I have found Ebay feedback to be a fairly reliable indicator of a sellers quality... as long as they have a reasonable number of sales under their belt. A person who has 100 transactions without any problems is probably OK. If he has 20 percent negatives, you know to watch out.

Since most people are fairly reluctant to give negative feedback, a person with more than a percent or two negatives may be less than desireable, but I have done several deals with people with less than perfect feedback without problems. Some people rack up negatives for slow shipping or poor email contact but still deliver. I have only been actually defrauded on Ebay once (person is now doing federal time). I figure mayby 2 percent of the items that I have bought on Ebay had significant problems that were not properly disclosed.

A couple of hints: a good photo is worth 1000 words and never buy Spice machines from strangers in dark alleys... too many corroded batteries, broken contacts, cracked cases.

Re: Try agreements first

*Message #5 Posted by **Charles Dickson** on 13 Jan 2003, 11:26 p.m.,*

in response to message #1 by Don Davis

Don, If you paid with a credit card, and not too much calendar has past, you might try someone who makes money from YOU ie. your credit card company. eBay requires that you try resolution through your credit card company first. I wrote my seller with a list of undescribed defects and told him I wanted part refund or return for full price. He asked what I wanted. I told him again, and he asked what I wanted. I decided that he was delaying. I told him a third time and tried to get refund from credit card company (28 days are now past, and I had paid the bill.) Credit card company said call bank. I did. (Got humans at both places.) The bank guy said send it back and have paperwork we will need it. Heart in throat I returned it and emailed seller that it was coming, and he should sign for it. Bank sent me formwork, and I returned completed forms and a pound of printed emails and photos at 60 days. At 90 days I received credit on my card statement. At 100 days eBay asked why I did not notify them!!!(But I had done what they said to do ie. go to the credit card company first.) Now is day 125, So far it has worked. Bank has cautioned that there may be counter claims.

The seller had 26 trades, and has not made a deal since. I left him negative feedback because he was delaying to use up the calendar. Do note it took more than 2 months to get my money back. He had other negative feedback, but it was one of those minute to go and get a price in and then I checked his feedback ~ 10% negative.

I understand that you have 90 day limitation to accomplish a documented complaint. (I'm not a lawyer.) I hope you have your emails saved somewhere.

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