

HP Forum Archive 05

Welcome!

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HP12C

Message #1 Posted by [Joseba Langarika](#) on 11 May 2001, 5:49 a.m.

I have recently bought a HP12C and I am really in love with it. But I have been trying to get the ACCESORIES FOR THE HP 12C FINANCIAL CALCULATOR, and I could not get any of them neither in Spanish nor in English. Please if you can help me, contact with. Specially I AM interested in THE HP 12C SOLUTIONS an HP 12C TRAINING GUIDE; if it is not posible in Spanish it coul be OK in English.

PLEASE HELP ME THANK YOU

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Collectors meeting in Europe (Vienna) ???

Message #1 Posted by [Reinhard Hawel \(Austria\)](#) on 10 May 2001, 11:47 a.m.

Hi friends.

If you'd be interested in a meeting in Vienna, then please send a short email to hawel@teleweb.at .

I'd also be interested, what you'd be ready to pay for a hotel, or what quality you'd like and when it should take place. When you'd like to stay longer (Vienna is really nice), this would be of interest too.

If somebody would be willing to organize a meeting in another European city, I'd also like to help, but my capabilities would be limited.

I want to note, that I have no experience with organizing such a meeting, so if anybody has some tips for doing that I'd be happy to hear them.

I work at the University of Technology Vienna, so there should be no problem with getting a room, if somebody would like to hold some lectures (would somebody ?).

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Continuous memory

Message #1 Posted by [Bo Kristoffersen](#) on 10 May 2001, 8:04 a.m.

The 10-16C series calculators run almost forever on a set of batteries preserving the content of the memory.

However, it appears that my series 20 and 30 calculators use a charge, when turned off, in a few months time. Also the 41 appears very power hungry when turned off.

Is this normal?

Regards, Bo Kristoffersen Copenhagen/Denmark

Re: Continuous memory

Message #2 Posted by [Dave Hicks](#) on 10 May 2001, 12:32 p.m.,
in response to message #1 by Bo Kristoffersen

NiCds have a much shorter self-discharge time than the silver oxides used in the 10c series. With no load at all, a NiCd will typically be empty in a few months.

Alkalines have much longer shelf lives than NiCds but less than silver oxides. Most of my 41Cs run for years on a set of Alkalines but there are a few that have developed a fault that keeps them from powering down completely. These can run down the batteries in a month or so.

I've heard that due to environmental regulations (in the US at least), the new silver oxides won't last as long as the old ones but I haven't verified this myself.

Re: Continuous memory

Message #3 Posted by [Tom \(UK\)](#) on 10 May 2001, 12:54 p.m.,
in response to message #1 by Bo Kristoffersen

I spoke to a guy here at work some time ago about the HP10-16 series (he has an HP11C). He worked in semi-conductor design in the US in the late 70's and was aware of the HP design. He still works with me so may be able to fill in the details (or correct my understanding of what he said) if anyone is interested.

He said the HP10-16 series used an unusual semiconductor process that had many features to reduce leakage current as HP went all out to improve battery life (leakage current is the current that drains the batteries when the calc is 'off'). He said that HP realized they had 'gone over the top' and had used a more standard (and cheaper) semiconductor process for later designs as this gave acceptable results and was much cheaper.

The above could explain why the pioneer series batteries don't last as long even when the same type of batteries are fitted.

While I agree that Dave's answer is true the above may be the reason why the battery life of the HP10-16 is better than any other electronic device I have come across.

Re: Continuous memory

Message #4 Posted by [Glynn](#) on 10 May 2001, 10:59 p.m.,
in response to message #3 by Tom (UK)

I read an article recently touting IBM's newest semiconductor advance-- silicon on insulator. Lots less leakage, therefore much more frugal with power "to run tomorrow's sophisticated lineup of handheld internet appliances"...

Seems they figured out a way of using silicon oxide-- itself an insulator-- as a physical interface to a glass chip substrate, so they can arrange the electron pathways in a more contained way, less stray fields, and so you can get better circuit densities and smaller features that work as well as the standard cmos processes.

But something was tugging at me while I was reading that... and I remembered that HP had been experimenting with silicon-oxide barriers in a modified cmos process, many years before. And they were doing it for one reason: saving microwatts.

I'm pretty sure that was their rationale; to isolate each gate so it didn't have the "leakdown" of typical cmos. Believe it was a bit LESS dense and more prone to manufacturing glitches than typical cmos; certainly it involved many more steps in fabrication, which meant it was

more expensive and yields would naturally be lower without extraordinary care taken to assure good results. But HP at that time was one of the few companies that would go out on a limb for a new technology and MAKE it work. I believe the results were incorporated into the Saturn cpus.

Now, of course, IBM hasn't just reinvented the wheel, by any means; their contribution-- to lay a consistent uniform film of oxide down (in a vapor-deposition process) so that silicon and glass "stick" and meld where they wouldn't before... that's really cool, and totally NEW. And it calls for a sort of "inverted" topology of cmos gate structures too. We can look forward to lots of battery-powered fun in the future, stuff that runs on a AA or two and outruns your current Pentium-class coffee-warmers.

But it IS kind of a reminder of the trailblazer HP has been over the years, that they were grappling-- and solving-- problems for themselves (like power consumption) A QUARTER OF A CENTURY AGO that still hold significant technical promise today.

May HP/Agilent continue that legacy always.

Re: Continuous memory

*Message #5 Posted by [Bill Duncan](#) on 11 May 2001, 1:37 a.m.,
in response to message #4 by Glynn*

I ran my HP-16C for something like 15 years on the original set of batteries. It wasn't heavily used, but nevertheless it was pretty amazing.

I remember one of the original C-MOS manufacturers coming out with a new type of C-MOS called SOS (silicon on sapphire) in the late 70's I think. RCA also made the 1801 and 1802 static C-MOS CPU's which were used in space quite a bit.

They were static, so the clock could actually be stopped on them. Single stepping through a program was done in hardware! And, although nobody really recognizes it as such, it's my belief that it was probably one of the first RISC cpu's. (Every instruction ran in either one or one and a half clocks I think, and they were extremely simple instructions. Much simpler than most 8 biters at the time. And lots of registers compared with others.)

Not that this has anything to do with calculators...

OT: RCA Cosmac trivia

*Message #6 Posted by [Glynn](#) on 11 May 2001, 3:15 a.m.,
in response to message #5 by Bill Duncan*

You are absolutely right Bill. The RCA CDP 1802 and its brethren were neat chips--made for RCA's space development unit at one time; eventually finding their way into toaster-ovens and dishwashers, as well as aboard satellites. Intersil still has the chip in their inventory list (!) at:

<http://www.intersil.com/design/parametric/productinfo.asp?pn=CDP1802ACD3>

and I think (but can't be sure) that the "high-reliability" chip they mention is indeed the military "space-hardened" version of it that Sandia National Labs developed from RCA's IP.

Welllll.... if you could FIND a strict definition of RISC, the Cosmac chip isn't really it. But it IS darn simple and memory efficient; and that's enough for a lot of applications.

But believe it or not: MOST of the popular eight-biters were static single-step capable; as long as you kept power to the chip itself, the "clock" could be 0 Hertz! This was easily true of the TTL chips (the Zilog 8400, old venerable "Z80", is a GREAT single-stepping TTL chip), but also designed to work on a lot of CMOS cpus as well. Look for the min clock spec = "DC" on datasheets.

The reason (well, one of them) was called "static testing". You tied lines high or low and stepped one clock cycle (pushed a button) to see that it did what you expected with those inputs. Handy in the days before in-circuit emulator pods and heavy-duty breakpoint-tracing facilities. Not so handy after dynamic ram and internal clock-doubling and other intervening cpu and peripheral features appeared.

If all this seems Way Off Topic, it is... (spank, spank)...

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hp 9114

Message #1 Posted by [Ulisse Quadri](#) on 10 May 2001, 5:34 a.m.

It is possible to read, with a pc disk drive, the data in floppy produced by the hp-il disk drive 9114 connected to the hp41 calculator?

Thanks

Ulisse

Re: hp 9114

Message #2 Posted by [Wayne Brown](#) on 10 May 2001, 7:37 a.m.,
in response to message #1 by [Ulisse Quadri](#)

Yes, it is possible, and several of us have done so. There is a lot of good information right here at the Museum to help you. Dan McDonald has written a good article with lots of details, which you can find at:

<http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/articles.cgi?read=24>

Also, Leo Duran has written another good article on the subject, along with some software to use in converting the files into different formats. His article is at:

<http://www.hpmuseum.org/software/41uc.htm>

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HP Calc site

Message #1 Posted by [Thibaut.be](#) on 10 May 2001, 2:54 a.m.

Do you know these people ? <http://www.internationalcalculator.com/calculators.html>

They pretend they can repair most HP 41's, and provide service for defective power supplies and batteries. But quite dear actually !

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Continuous Memory TM?

Message #1 Posted by [Tom \(UK\)](#) on 9 May 2001, 7:10 a.m.

Who had 'continuous memory' first?

I have seen a TI-44 (BAII) calc manual (from about 1984) where it says:

'continuous memory TM'

HP had the 25C (in 1976) which had 'continuous memory' printed on the case. Was this an infringement of TI's trade mark or did HP forget to trade mark this name and TI 'stole' the phrase??

TI used "Constant Memory"

Message #2 Posted by [Gene](#) on 9 May 2001, 5:21 p.m.,
in response to message #1 by Tom (UK)

AFAIK, HP was first with the HP25C.

TI used the term Constant Memory on their models, including those that just saved the contents of one memory! (Like the LCD TI-50). The biggest one they made in terms of utility was the TI-58C (the first calculator I ever bought with my own \$\$). It kept 480 program steps or 60 memories when turned off.

TI never made a constant memory TI-59, which contributed to their marketing problems in the early 1980s.

Hard to believe but TI essentially gave up the calculator market to HP and casio, etc., at the time.

My, my how things have changed! Gene

Re: TI used "Constant Memory"

*Message #3 Posted by [Michael \(Australia\)](#) on 10 May 2001, 6:07 p.m.,
in response to message #2 by Gene*

So there is still hope then!

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HP-10BII

Message #1 Posted by [Paul Brogger](#) on 9 May 2001, 12:12 a.m.

In case no one has noticed and someone cares, a picture of the new HP-10BII is at <http://www.trend.ro/moravia/hp10b.htm> .

I've seen it at Office Depot (for \$29.95, I think). Racy styling unlike any of their other models. As far as I can see, not much else.

I wonder if the 32SII will be recast in this mold?

Re: HP-10BII

Message #2 Posted by [Tom \(UK\)](#) on 9 May 2001, 2:31 p.m.,
in response to message #1 by Paul Brogger

It is nice to see the 'gold' function on the slanted key front and some sensible colours for once! Not so sure about the 'curved' key line for the lower row of keys. Is this calc meant to kill off the HP12C?

Styling wise not one of HP's worst calculators in recent history (and that is a compliment).

I just wonder if the manual - sorry user guide is worth the paper it is written on.

I hope that HP realises engineers also like a sober (but not somber) looking calculator - unlike the HP6/30/49.

Re: HP-10BII

*Message #3 Posted by [Thibaut.be](#) on 10 May 2001, 2:27 a.m.,
in response to message #2 by Tom (UK)*

I would have bought it.... if it was a RPN calc ! By the way, I appreciate the former's keys style...

Re: HP-10BII

*Message #4 Posted by [Wayne Brown](#) on 10 May 2001, 7:49 a.m.,
in response to message #1 by Paul Brogger*

It isn't as ugly as a 49G (nothing is!) but I still don't like it. The old 10B style is much better, IMO. I don't have any use for any algebraic calculator, though.

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Card Reader

Message #1 Posted by [Juan J](#) on 7 May 2001, 10:19 p.m.

I have a couple of HP 41 card readers. Both started having trouble recently. The cause is that rubber wheel that disintegrates with age. Two cards I used came out with rubber stuck to them.

Can anybody out there supply me with spare rubber wheels? I would appreciate it.

Thanks.

Re: Card Reader

Message #2 Posted by [Victor](#) on 8 May 2001, 2:07 p.m.,
in response to message #1 by Juan J

Take a look at the article below. It talks about how to fix this problem.

<http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/articles.cgi?read=57>

Re: Card Reader

Message #3 Posted by [Juan J](#) on 9 May 2001, 9:42 p.m.,
in response to message #2 by Victor

Victor:

Thanks a lot.

Re: Card Reader

*Message #4 Posted by [Ron K](#) on 9 May 2001, 11:47 p.m.,
in response to message #3 by Juan J*

Juan.

I recently repaired my card reader, had the same problem with "gummy wheel". I first put (2) #006 O-rings, and the reader would not read a card. So I replaced them with #005 O-rings and it works as good as the day I bought it.

Regards Ron.

Re: Card Reader

*Message #5 Posted by [Juan J](#) on 10 May 2001, 11:05 p.m.,
in response to message #4 by Ron K*

Ron:

Thanks. One of the readers gave up after 20 years, the other after 18 years. Lasting value, as HP liked to say.

I still have to sit and repair them.

I'll keep you posted on my progress.

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Speculation:Hp12c vs. Ti30. Total sales.

Message #1 Posted by [Ron Ross](#) on 7 May 2001, 9:18 a.m.

I am curious and the information is either nonexistent or speculative at best. The Ti-30 (not the newer morphed calc variations) was the most sold ever calculator for its time and may be the most sold calc ever, but then again maybe not. No calc compared or ever has for its two to three year reign as the most popular, most sold calc of all time (only because they were cheap, and actually I had to buy two (helping Ti's #'s), since the keyboard wore out quickly, then after a worn out ti-55, I switch to a quality hp).

However, the Hp12c has been on the market for nearly 20 years. Perhaps it can lay claim to being the most sold calc in calculating history of sales?

Opinions or facts, anyone? Just a curious question.

Re: Speculation:Hp12c vs. Ti30. Total sales.

Message #2 Posted by [Luca Passaggio](#) on 7 May 2001, 11:56 a.m.,
in response to message #1 by Ron Ross

I think that the success of the HP12c is due to the fact that it is the best everyday's calculator for people involved not only in finance but also in general business such us sales and marketing managers . I personally find great to have three dedicated keys (no prefix before) for %, Delta % and %T . And the design is still the best to impress your cow-orkers ! For special calculations I still use my beloved HP41c but the HP12c is the calculator that I have everywhere with me. Regards to everybody from Lugano, Switzerland.

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Re: Strange

Message #1 Posted by [Thibaut](#) on 7 May 2001, 8:19 a.m.

This buyer seems to have bought a 11C mint in box for \$405 !

and got feedback for that...

I would be tempted to think according to the purchase prices of the items he usually bids on, that this was no fake sale...

Re: Strange and crazy

Message #2 Posted by [Dane](#) on 7 May 2001, 8:21 p.m.,
in response to message #1 by Thibaut

Check out the reserve, \$200 and you don't even get to see a picture of the calc! This one is crazy as well: <http://cgi.ebay.com/aw-cgi/eBayISAPI.dll?ViewItem&item=1234392374> \$137.50 for a Handbook! Could have picked it up from the museum cd and had money left over, I hope the poor bidder didn't think he was buying a 15c too!

Re: Strange and crazy

Message #3 Posted by [thibaut](#) on 8 May 2001, 4:38 a.m.,
in response to message #2 by Dane

Quite funny !

Re: Strange and crazy

Message #4 Posted by [Massimo \(Italy\)](#) on 8 May 2001, 5:46 a.m.,
in response to message #2 by Dane

azarashi@courante.plala.or.jp recently started bidding wildly high on several items on eBay... I think sellers enjoy his way! Let's hope he won't settle new, higher, price tags. :(

Massimo

Re: Would you sell yours?

Message #5 Posted by [Joe](#) on 8 May 2001, 9:09 a.m.,
in response to message #4 by Massimo (Italy)

Say you have a MINT (unused still in shrinkwrap) ADVANCED FUNCTIONS HANDBOOK.

Would you sell yours for, say, a reasonable amount of \$40.00?

What IS your reasonable price? Would YOU sell it for that?

I agree that this is too high BUT... most collectors simply are living in a dreamworld, if they think supply/demand fit the old model. With the internet and eBay, the supply is still approximately the same but the demand is much higher. You may see 2 or 3 items and hundreds or thousands of people who are interested in it from all around the world.

Remember, this bidder was not the only one to bid that price!

Re: Would you sell yours?

Message #6 Posted by [Jim L](#) on 8 May 2001, 11:04 a.m.,
in response to message #5 by Joe

I don't think ebay has changed demand but really just gives that illusion. People think the one they see on ebay is the last one they'll ever see so they massively overbid. I've seen online dealers have products sitting on their websites unsold for months and then they move them to ebay and they auction for many times the price that they were ignored at :-)

Over time collectors can catch on. I remember when some high-end but common

slide rules first auctioned on ebay for over \$400 but they're now back down in the \$20s and \$30s as people realized that there's always another one.

Re: You are oversimplifying this... Incorrectly

*Message #7 Posted by [Joe](#) on 8 May 2001, 2:56 p.m.,
in response to message #6 by Jim L*

Show me ONE (1) single dealer in the US that has:

HP-65 sitting on a shelf unsold HP-55 sitting on a shelf unsold HP-15C Mint
Manuals sitting on a shelf unsold HP-15C Calculators sitting on a shelf unsold

For that matter, show me one that even has them, sold or unsold.

If you want to make comments on this, why don't you use realistic facts.

Re: You are oversimplifying this... Incorrectly

*Message #8 Posted by [Mike Martin](#) on 8 May 2001, 5:02 p.m.,
in response to message #7 by Joe*

Well Joe, I actually have at least one of everything you mentioned sitting on the shelf unsold :). Granted, I could sell them all within an hour (at considerably more than I paid for them). I only sell locally to people I know have a true appreciation for what they are buying (even though I could get MUCH more on EBAY) and even under these conditions I have MUCH more demand than supply. I could probably find a home for every 41C/CV/CX sold on EBAY and there are a LOT of them.

Quality NEVER goes out of style or demand and prices for items in near mint condition will almost certainly keep going up. Even well used items fetch top dollar and will probably continue to do so. They just don't make these things anymore (12C's don't count).

Probably half the people buying old HP calculators are people who used them when they were first released and the other half are people who were not even born at the time.

Re: The point was...

*Message #9 Posted by [Joe](#) on 8 May 2001, 8:28 p.m.,
in response to message #8 by Mike Martin*

Ok since your point was that eBay is overcharging AND you say you have these items UNSOLD, I will give you

\$100 for the 65 \$40 for the Mint HP-15C manual \$100 for the HP-15C

Ok?

It is really disingenous of you to say the prices are over priced, when you won't sell at the lower prices yourself.

Think about what you're saying

*Message #10 Posted by [Jim L](#) on 8 May 2001, 9:03 p.m.,
in response to message #9 by Joe*

I'm a collector. I am not a dealer. I've done some trades and a few giveaways but I don't recall ever selling a HP calc. By your logic this makes the correct selling price of an HP calculator infinite!

Go ahead, multiply your prices by 50 and watch me still not bite.

Multiply them by 5000 and you'll make me think twice. OK the going rate for an HP65 is 500,000 dollars :-)

Sorry Joe, but I'm not in it for the bucks so your argument falls apart. However you CAN find other people who ARE in it for the bucks who WILL take \$100. Many dealers just mark things up to twice what they paid.

"It is really disingenous of you..."

Has insulting people generally been productive for you in the past?

Also, I never said ebay was overcharging. Ebay's fees were quite low last time I looked. Do you understand that ebay isn't actually selling calculators? ebay only sells the auction service.

Re: Look at the title of my thread

*Message #11 Posted by [Joe](#) on 8 May 2001, 10:34 p.m.,
in response to message #10 by Jim L*

I responded to the guy who felt that eBay prices were too high.

I responded that they were not too high because the supply is limited and the demand is higher with the internet.

You, then, chimed in that there is plenty of supply, to which I responded "ok, show me some that I can buy cheap" (or rather I suggested that your notion was incorrect.

It is still disingenous to suggest that there is plenty of supply but simply cannot point to any.

Bottom line: If people are willing to pay the higher prices, then that is the real value. QED!

The fact that you won't sell for that OR can't point to a single source "where someone can walk in and buy", then your price is NOT-REAL.

My entire calc collection just vanished in a puff of joe-logic!!

*Message #12 Posted by [Jim L](#) on 8 May 2001, 10:52 p.m.,
in response to message #11 by Joe*

Darn. Now I have to go rebuild my calculator collection at much higher (but real) joe-prices.

Gee thanks Joe.

Please don't make any of my other possessions vanish. OK joe? I'll be good if you promise not to logic them out of existence.

REAL and NOT REAL makes no sense

*Message #13 Posted by [Mike Easton](#) on 8 May 2001, 11:34 p.m.,
in response to message #11 by Joe*

LAZY and NOT LAZY prices or BUSY and UNBUSY prices or SKILLED and UNSKILLED prices or GOOD AREA and BAD AREA prices... Any of these distinctions would make sense but calling some prices NOT REAL whether high or low is just burying your head in the sand. The idea that if some people will pay a high price and others a low price, then that makes the high price the "real value" and the low price "not real" makes no sense to me.

Re: The point was...

*Message #14 Posted by [Mike Easton](#) on 8 May 2001, 10:38 p.m.,
in response to message #9 by Joe*

>It is really disingenous of you to say the prices are over >priced, when you won't sell at the lower prices yourself.

That's like saying that only an oil company is allowed to complain about high gas prices. Or if you tell someone that the gas is cheaper in your state, that makes you responsible for shipping it to theirs.

This whole "if you can get it for less than you must sell it to me for less" reasoning strikes me as something you might hear from someone who had just taken microeconomics 101 and thought he now understood how everything works. Basic microeconomics does not explain collector or auction behavior very well at all. For starters the participants rarely fit the classical definition of a rational consumer. (In reality nobody does but it's worse there.)

By the way I think the word disingenous looses a lot of its impact when it's misspelled. I normally hate spelling flames but this one cried out for it :-)

Re: Who said anything about...

*Message #15 Posted by [Joe](#) on 9 May 2001, 8:30 a.m.,
in response to message #14 by Mike Easton*

"if you can get it for less than you must sell it to me for less"

The point was "IF YOU ABSOLUTELY WON'T", then you are fixing the absolute price. If you say I won't sell my widget for less than \$100, you are setting the price for widgets. That is the point.

The people who are complaining about the high prices are only doing so because they can't find lower prices. If they could, what is there to complain about? What is there to talk about?

The fact is that, sure, it is possible to stumble across an HP-65 for \$5.00 but that does not mean that the value is only worth \$5.00 to the collector community at large.

Calculator values are worth "what people are willing to pay". It is as simple as that. With the exposure of the internet and eBay, it won't be long before everyone who has ever seen a calculator will realize that they are worth far more than their garage sale prices.

What gets me are people who say that calculator X is only worth \$50 and that anyone who pays more, is paying too much but would NEVER in a million years sell it for \$50, if an when they eventually sell it. That is the pure definition of disingenous.

That would be you

*Message #16 Posted by [Mike Easton](#) on 9 May 2001, 9:50 a.m.,
in response to message #15 by Joe*

You offered to buy someone's calculator. He said that he wouldn't for 50 times that price but had given some away. Based on that you defined the price to be whatever you wanted.

Don't you think it's also disingenuous

*Message #17 Posted by [Dave Hicks](#) on 9 May 2001, 11:44 a.m.,
in response to message #15 by Joe*

to be using that word while posting under an alias? I can see from your feedback rating and recent auctions that you're a large ebay dealer and I have a hunch that you're looking for new sources for your business. I have no problem with that. I even think it's clever to try to insult someone into revealing his sources :-)

However I would like to keep the insults off this forum as much as possible and if you really feel the need to insult someone, I would prefer that you take credit for your words.

Re: Don't you think it's also disingenuous

*Message #18 Posted by [Tom \(UK\)](#) on 9 May 2001, 12:52 p.m.,
in response to message #17 by Dave Hicks*

Well said Dave.

My 2 cents worth:

I would gladly give away some of my HP calcs if:

- 1) The person would value it as much as me
- 2) They would not sell it and make a quick buck out of me
- 3) It would engender interest and enthusiasm in HP calcs

If some of the above did not apply I would not sell any of my calcs - unless for silly money which would allow me to expand my modest collection. I think this is the difference between collectors and dealers.

Why do you say this?

*Message #19 Posted by [Jim L](#) on 8 May 2001, 5:07 p.m.,
in response to message #7 by Joe*

The dealer I was thinking of was Dan Dotson. AT ONE TIME he was rather well stocked with multiple 65s and 55s at low prices. He also had an 80 or two, some obscure woodstocks and lots of other stuff. Conditions ranged from fair to near mint. Some of it was dirty but it was just dirt and dust. I picked off some the best stuff.

Then he discovered ebay. After that a lot of his stuff was on ebay and stuff that wasn't was priced like it was. A lot of stuff that I had left behind and had been sitting there for months sitting through several price reductions sold for a LOT more than his highest prices after he moved it to ebay. I hold no grudge against him but I haven't bought from him in years either. I can think of many other people I've bought from who now sell on ebay but I can still find new sellers.

Paxton Hoag was good for a while too. He used to have dozens of HPs sitting in his junk store/warehouse. He moved to ebay too. I got my blanknut and some spare 67s from him. He had a big can of 41C modules labeled "four for a dollar". Those were the first thing he put on ebay and I think he got \$50 for one in his first auction. The store disappeared about that time but I'm not sure that's causal.

Dan and Paxton are some of the bigger examples that most collectors know about. Many of my calcs have been purchased one or two at a time from much more obscure sources.

Please tell me how I'm being unrealistic Joe. I have at least one each of every model and I've never bought from ebay. If you mean doing a little work to find good prices is unrealistic, then lets just say that our collecting styles are different. I enjoy the hunt and don't have hundreds of dollars to spend on old calculators with little intrinsic value. If that doesn't describe you that's fine. I feel no need to call you incorrect or unrealistic -just different.

Re: You are oversimplifying this... Incorrectly

*Message #20 Posted by [Chris Catotti](#) on 9 May 2001, 2:43 p.m.,
in response to message #7 by Joe*

I hate it when someone says you can't!

Don at:

**International Calculator & Computer 2916 CORRINE DR ORLANDO
FL 32803 U.S.A.**

(407) 898-0081

<http://www.internationalcalculator.com/>

has at least one of each of these on his shelf for sale right now. He has had his store in Orlando since the 1970's, and has been open ever since. I have no idea what his prices are these days, what condition they are in and really no interest.

The point is, the HP things are still out there.

{**Dave Hicks**, send me an e-mail if I should delete this from here and put it in the classifieds, it just seemed to fit here.}

Re: Would you sell yours?

*Message #21 Posted by [thibaut](#) on 8 May 2001, 11:08 a.m.,
in response to message #5 by Joe*

you have to consider dealing with calculators on ebay not as the perfect competition, but as a monopoly or sometimes an oligopoly.

Therefore the demand will most often reach the offer price, hence the crazy prices we seem to see.

I consider that USD40 for a new manual is very well paid : I recently sold to one of our mates a lot of stuff amongst which many new manuals for USD 80 !

Re: Would you sell yours?

Message #22 Posted by [David Smith](#) on 8 May 2001, 1:31 p.m.,
in response to message #5 by Joe

Once must always remember that when buying something on EBAY or at auction one is quite literally paying more for that item than anyone else in the world.

I have paid anywhere from 5 dollars to over 500 dollars for an HP-65. The difference? One was in almost new condition from a garage sale seller who didn't know what he had. The other an absolutely mint fully accessorized unit on EBAY. I think either unit was well worth the money and would gladly repeat the purchases if given the chance.

Re: Would you sell yours?

Message #23 Posted by [Chris Catotti](#) on 9 May 2001, 1:21 p.m.,
in response to message #22 by David Smith

Well, I think I will weigh in on this thread ...

I have a couple of generally defined goals in collecting

Goal 1. Archive all of the software functionality of the HP-41, both in ROM application pacs and in paper listings and bar code

Goal 2. Archive all of the club journals and magazines related to the HP-41

Goal 3. Archive all of the Hewlett Packard manuals, quick reference cards, etc. for the HP-41 and HP-IL devices in all eight (?) languages (English, German, Japanese, French, Dutch, Portuguese, Spanish, etc.). **THIS GOAL IS THE CRAZIEST** (I only understand English), and at times the costly, because I really do think *It may be the only one* I will see. By the way, if you have a foreign language manual, I probably want it.

If you need one, check with the HP Museum on CD-ROM, and if it's not there and I have it I will scan it and give a copy to you and Dave Hicks (maybe he can put it on a CD-ROM) free of charge (This offer is only if you need it to use, and is with the understanding that further distribution will be without profit.)

Goal 4. Continue enjoying using and learning with the **HP-41** for another 60 years

Goal 5. Keep my family first, and especially not drive my wife crazy with file

cabinets of "stuff".

To achieve these goals, I continue to sell on ebay and buy on ebay. And I will usually sell anything without a reserve price and usually start it at \$0.41 or \$9.99. If I had an HP-65, I would sell it on ebay for \$0.65 or whatever extra the world was willing to pay.

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Re: Manuals for 48GX

Message #1 Posted by [Y. Samuel Arai](#) on 6 May 2001, 7:47 p.m.

The 48G Series manual covers the G, G+ and GX. There were no special manuals specifically for the GX. You can still order them from www.hp.com. You'll see there that the manuals for the 48G, G+, and GX are all the same part numbers.

Sam

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HP41 card reader (82104) ROM

Message #1 Posted by [Bernard Corwin](#) on 6 May 2001, 3:26 p.m.

How do I determine the ROM version of my HP-41x card reader (82104A)?

Thank you.

Re: HP41 card reader (82104) ROM

Message #2 Posted by [David Smith](#) on 6 May 2001, 4:17 p.m.,
in response to message #1 by Bernard Corwin

Do a CATALOG on the peripherals (fn CATALOG 2). The rom version is displayed in the name of the card reader catalog. The first version of the ROM just says "CARD READER". The later ones say things like "CRD RDR 1F" where 1F is the version number.

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Best glue for HP41

Message #1 Posted by [Unstuck](#) on 6 May 2001, 4:56 a.m.

I have an HP41 with a broken plastic post in it.

Wheat is the best glue to use to repair this?

Re: Best glue for HP41

Message #2 Posted by [db\(martinez, california\)](#) on 6 May 2001, 1:41 p.m.,
in response to message #1 by Unstuck

i made a post on 4/15 about the 2 best glues that i found here. if you happen to live near me (la tierra prometida) you are welcome to use my leftover glue. i had to buy a bottle of the thin and a tube of the thickened stuf; enough to fix a couple of hundred 41's.

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Help... need HP-67 card reader part

Message #1 Posted by [Brad Tritone](#) on 5 May 2001, 7:29 p.m.

I managed to lose one of the irreplaceable parts of my HP-67 card reader while replacing the pinch wheel. 10 points if you guess which one before I tell you! That's right... the little plastic roller that sits under the pinch wheel... the the one with the little axle that was built by Keebler elves.

Anybody have an extra I can buy, or a suggestion for a replacement of some kind?

Re: I do

Message #2 Posted by [Mike](#) on 5 May 2001, 10:21 p.m.,
in response to message #1 by Brad Tritone

I don't have one to buy but I have one you can have for free.

I have a whole rug full. I'm sure I can find one on the floor, if I ever need one again:-)

Mike

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HP85 printer drive belt

Message #1 Posted by [Cliff Carrie](#) on 5 May 2001, 1:06 a.m.

The toothed belt which moves the print head on the HP85 seems to be the same "guaranteed to rot" rubber as the tape drive capstan tire. Mine is still working, but the printer makes alarming noises at times and the belt is very gummy.

Any suggestions for a replacement?

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HP85 tape drive capstan

Message #1 Posted by [Cliff Carrie](#) on 5 May 2001, 1:02 a.m.

I have an HP85 with the usual disintegration of the rubber tire on the tape drive capstan. I believe it no longer has the original outside diameter due to multiple cleanings. The drives works but is noisy at high speed and occasionally unthreads the tape in the cartridge (rewinds past the beginning of the tape).

Can anyone tell me the original OD (and possibly the ID so I don't have to take it all apart before I find a replacement)?

I plan to use the rubber tubing trick or possibly a VCR replacement tire for the repair.

Any other suggestions gratefully received.

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Where can I find a circuit diagram of the HP-65?

Message #1 Posted by [Juergen Hofstaedter](#) on 4 May 2001, 7:12 p.m.

Please help, I have some problems with my HP-65. I could find a solution if I had a circuit diagram. Thank you!

Re: Where can I find a circuit diagram of the HP-65?

*Message #2 Posted by [Erik Wahlin](#) on 5 May 2001, 11:03 p.m.,
in response to message #1 by Juergen Hofstaedter*

You might try looking in the HP Journal article written around 1974 for more info. They don't have actual circuit diagrams but alot of useful info.

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HP42S vs HP48G+

Message #1 Posted by [Bill](#) on 4 May 2001, 4:46 p.m.

HP42S vs HP48G+

I would like to buy a HP48 to replace my late HP42S but I have a few questions. Can the HP48... Can variables (MVAR) have more than one letter? · Does an equation have to equal 0 in the Solver mode? · In the non-graphing mode, is the speed similar to the HP42S? · Does the stat function include “best fit” in curve fitting? · What is the learning curve for non-graphing function? · Last, can the variables be set up as soft keys like the HP42S?

Thank you

Re: HP42S vs HP48G+

Message #2 Posted by [Ron Ross](#) on 4 May 2001, 5:21 p.m.,
in response to message #1 by Bill

Yes to nearly all your questions. The 48 is a step up from the 42s. Actually a big step. It has all the features of the 42 plus the ability to download gobs and gobs of software for whatever branch of work you may be in. It is superior to the 42 in every way but ONE.

The 48 doesn't fit in your pocket quite as nicely as a 42.

A 48 sits on my desk only because it has multitudes of conversions and easily downloadable programs. My 42 stays home where it is safe. If I had to choose one over the other, weeeell, my hp42 is home safe and my 48 lays out where someone could concievably upgrade from a four function calc.

If you don't need trig functions or matrix capabilities, the Hp17bII is RPN/algebraic selectable with a clock and 7 K RAM with HP solve (in algebraic, just key in eq like textbook). It does have stat and linear forecasting similiar to 42s and is in the same type case.

The Hp19B also has trig and units conversions plus everything the Hp17b has.

\$ wise the Hp48G+ is the best buy for functions and capability, but it is bulky (so is the Hp19 but not quite as much).

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82143A Printer

Message #1 Posted by [Hugh Wong](#) on 3 May 2001, 11:03 p.m.

Does anybody know what is the AC stepdown transformer rating for the HP82143A thermal printer should be ? It looks like a AC/AC step down, or its not ?

Re: 82143A Printer

Message #2 Posted by [Steve \(Australia\)](#) on 3 May 2001, 11:06 p.m.,
in response to message #1 by Hugh Wong

Yep, 8VAC.

The original item is rated as 3VA (about 375mA)

However they also cope quite well on DC.

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Classic chargers and cords

Message #1 Posted by [John Beckwith](#) on 3 May 2001, 1:43 p.m.

I have had my HP-45 since my days in college (purchased Spring of 1974 I believe). I still use it every day at work. The only problem that I have had over the years, other than batteries, has been with the charger. After several years I seem to develop an intermittent in the cord at the plug where it goes into the charger.

Has this been a common problem or am I just too rough on them? I now have 3 good chargers with bad/intermittent cords. I might consider getting a "bad" charger or two somewhere if possible and changing out the cord(s) but in my experience it is not the charger proper that is the problem but the cord.

Any thoughts?

Re: Classic chargers and cords

Message #2 Posted by [Erik Wahlin](#) on 3 May 2001, 2:35 p.m.,
in response to message #1 by John Beckwith

The problem you describe is very common to these chargers. I have found a way to fix them but please do not hold me liable if anything goes wrong. Carefully slice the top of the plug off along the ridge line with a utility blade. I usually slice right above the three wires. The next step involves cutting out the black rubber over the three holes where the wires connect to the contacts. This is the hardest part. Once you have cleared out the rubber from the wires, you can resolder the wires to the connectors. I then use some epoxy and glue the top back on. If you do a good job, it is hard to tell that the plug was repaired.

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9825a paper-feed

Message #1 Posted by [Andreas Stockburger \(germany\)](#) on 3 May 2001, 9:10 a.m.

Hi,

The paper-feed of my 9825a do not work :-(The printer-head prints all characters in one "pixel"-line.

If I feed the paper by hand, I can see the text correct.

Any sugestions ?

Best regard

Andreas Stockburger

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HP 65 & 67 card legend slot

Message #1 Posted by [Matt Kernal \(US\)](#) on 2 May 2001, 7:12 p.m.

On the 65 and 67, if you insert a memory card into the card legend slot, it will cover the white labelled key functions 1/X VX Y^X RV X<>Y which are printed directly above the top row keys A B C D E.

If HP had put placed these labels on the front face of the A B C D E keys (similar to what they did on the second row of keys), then the functions would've been accessed with the black-shift key and the card legend slot would've blank such that nothing would be obstructed by an insterted card.

Granted, I'm certainly no rocket scientist, so obviously I'm missing what they had in mind with the top row labels. Any rocket scientists out there care to clue me in?

Thanks, Matt

Re: HP 65 & 67 card legend slot

Message #2 Posted by [Victor](#) on 2 May 2001, 7:41 p.m.,
in response to message #1 by Matt Kernal (US)

Those functions printed above the A-E keys are accessible on other shifted keys (for example, 1/x can be accessed by the 'h' key followed by the '4' key). Its just that these functions are fairly commonly used, and HP figured that if you haven't yet entered a program it would be convenient for you to have access to these functions without having to press a shift key first. Once you have entered a program, however, you cannot use the A-E keys for this function and must use the equivalent shifted functions (at least this is true on an HP-67).

What I wonder is why the shifted functions for the HP-67 and HP-97 are printed BELOW the keys, and for every other calculator the shifted functions are printed ABOVE they keys. This gets confusing if for example I switch between using an HP-67 and using an HP-34C.

Re: HP 65 & 67 card legend slot

Message #3 Posted by [Matt Kernal \(US\)](#) on 3 May 2001, 12:27 a.m.,
in response to message #2 by Victor

Ah, I see... how redundant ;-) I'm afraid I can't comprehend why they didn't use the front face of the A-E keys for these functions in the first place? This "real-estate" isn't used for anything at all!

Instead, they printed the functions in the legend slot where they KNEW the functions could/would be covered by a magnetic card. This resulted in having to find space to reproduce the SAME keys elsewhere.

From the company who gave us our beloved, efficient RPN entry, it doesn't sound too efficient to print function labels twice.

If they felt they HAD to print them twice, wouldn't it have made more sense to print the "legend slot" functions on the face of the SAME A-E keys? That way the keys would still be in their same relative location (ie. no need to remember "now where's that second square root key?", because it would've still been found on the same "key" as always -- but now "shifted").

Just my 2 cents, Matt

Re: HP 65 & 67 card legend slot

Message #4 Posted by [Ernie Malaga](#) on 3 May 2001, 2:14 a.m.,
in response to message #3 by Matt Kernal (US)

Matt:

I think you are missing the point Victor made. You either use the pre-printed functions (e.g., square root) or the label (e.g., A), but never both.

On the HP-65, the CPU wrote five programs to program memory immediately after turning on the calculator. You can actually switch to W/PRGM and SST through them. You'll see that they're nothing but a LBL, the function specific for each A-E key, and a RTN.

To write your own programs, therefore, required you to press [f] [CL PRGM] before doing anything else.

On the HP-67, however, HP took a different approach. When you turn on the HP-67,

program memory is empty (OK, actually it is full of R/S instructions). When you press an A-E key that has no corresponding LBL in program memory, the HP-67 executes the function printed on the mag card slot. Since [f] [CL PRGM] clears all program memory, pressing that key ENABLES the preprinted functions (instead of disabling them, as it happened on the 65).

What it all amounts to is the same, however: To have SOME useful function available in the A-E keys, whether it's a program or a built-in function. For example, the square root function is available as [A] (I think; I'm typing this from memory) or as [f] [9]. When you turn on either calculator, [A] executes the square root... by pressing ONE key only. [f] [9] takes two, so [A] is more convenient.

As soon as you use [A] for your programs (whether or not they're recorded on mag cards), [A] executes the program at LBL A. If you need the square root, you MUST press [f] [9]. Also, you MUST press [f] [9] when writing a square root step into a program; if you press [A], the calculator inserts a "go subroutine A" instruction instead.

Clear as mud? :)

-EM

Good info guys, thanks!

*Message #5 Posted by [Matt Kernal \(US\)](#) on 3 May 2001, 12:19 p.m.,
in response to message #4 by Ernie Malaga*

I knew there was some logic behind the placement of these functions.

>Victor: these functions are fairly commonly used... it would be convenient for you to have access to these functions without having to press a shift key first.

>Ernie: When you press an A-E key that has no corresponding LBL in program memory, the HP-67 executes the function printed on the mag card slot...

This is why these are functions are white (unshifted) like the A-E keys.

>Ernie: Also, you MUST press [f] [9] when writing a square root step into a program; if you press [A], the calculator inserts a "go subroutine A" instruction instead.

I understand what you're getting at (from a programming standpoint). This shifted function could have just as easily been [h] [A] if the function had been reproduced

on the front face of the A key (or maybe not when you throw PGRM mode into the mix. See Tom's thoughts below).

>Tom: Having the 'short cut keys' requiring the black shift (or not) depending on the state of the program memory may have been a step too far for the calc to cope with... we are blinded to some of the problems of early electronics.

I appreciate your insights, guys.

Thanks, Matt

Re: but...

*Message #6 Posted by [Mike](#) on 3 May 2001, 4:21 p.m.,
in response to message #3 by Matt Kernal (US)*

You typically don't have a card in the slot unless these keys are reprogrammed. If they are reprogrammed, these hidden labels are not needed. Why do you need to see something that is not needed?

Had they put these labels anywhere else, then people would try to use them. So, HP figured: you load a program, you want to see the labels on the keys new definitions; not the labels on buttons that are no longer functional.

Re: HP 65 & 67 card legend slot

*Message #7 Posted by [Tom \(UK\)](#) on 3 May 2001, 8:09 a.m.,
in response to message #2 by Victor*

I think HP did not have the 'short cut keys' available when the HP67 was designed because as theys keys are already different to the rest of the keyboard (they already act differently if the calc is programmed or not). Having the 'short cut keys' requiring the black shift (or not) depending on the state of the program memory may have been a step too far for the calc to cope with. (I think we are blinded to some of the problems of early electronics because now one can put millions of transistors on one chip rather than a few thousand).

Victor: I think the functions are below the keys because of the way the designers used the A-F keys. Because the programming card goes above those keys it forced them to put the gold a-f (second prog keys) below. So then all the second functions were below the rest of the keys.

However if they had put the a-f functions in black on the slanted area they could have then

put the gold/blue functions above the other keys :-). This would have increased the cost very slightly (A-F keys with extra letters).

It is very easy to look back with knowledge of what happened later. The HP67 (and even more so the HP65) is a very good calculator and it says something that they still compare well with other calcs that came DECADES later. (I still use my HP67 for every day calculations at my desk.)

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Batteries

Message #1 Posted by [Melody](#) on 2 May 2001, 5:38 p.m.

Can anyone help me? I need to find out what size of batteries that a HP-19B uses. HELP ASAP!!

Re: Batteries

Message #2 Posted by [Ron Ross](#) on 2 May 2001, 6:00 p.m.,
in response to message #1 by Melody

N-size 1.5 Volt not 12 volt (some 12 volt are very similar in size.

Re: Batteries

Message #3 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 3 May 2001, 12:33 p.m.,
in response to message #1 by Melody

N size, 1.5 Volt alkaline batteries. Some models are Eveready E91, Duracell MN9100. If you have access to a Radio Shack store, they usually have N-size batteries. There may be other brands, such as Varta; availability vary by country.

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HP48SX Not Working

Message #1 Posted by [MVu](#) on 2 May 2001, 12:34 p.m.

I have an HP48SX and it is not working. There is no display on the screen. I tried to reset, change new batteries and it still displayed blank.

Does anyone have any suggestion on what should I do/

Is there a service center that I could send the calculator in to fix? I live in Seattle, WA.

This calculator is old, but it has sentimental value to me. Therefore, I wish that I could get it to work again.

Any suggestions for the fix would be gladly appreciated. Thanks.

Re: HP48SX Not Working

Message #2 Posted by [Y. Samuel Arai](#) on 2 May 2001, 4:28 p.m.,
in response to message #1 by MVu

I think HP is still fixing them for a fixed charge. Go to www.hp.com, and go to the support for calculators. Sam

Re: HP48SX Not Working

Message #3 Posted by [Ignacio Moratinos](#) on 2 May 2001, 6:28 p.m.,
in response to message #1 by MVu

Have you tried the old trick?

Leave the batteries out and shorten the battery contacts with something metallic like a paper clip. Let it rest one or two days.

Old HP use to come back to life, doing this!

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HP28S transferring to PC

Message #1 Posted by [Th. Allender](#) on 2 May 2001, 4:39 a.m.

Where could I find informations for transferring directly datas from HP28S to PC (by the IR ports) ?
Thanks

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Re: HP-67 Repair Success!

Message #1 Posted by [David Smith](#) on 1 May 2001, 6:38 p.m.

I have a piece of silicone rubber tubing from around 1970 installed in a piece of test equipment. Still looks and works fine even though it has seen some nasty environments.

I have never had much success with the o-rings. They generally seem to pinch the card too tight. Also you need to use two of them and the little "rolling pin" seems to want to work its way between them and push them apart so that they drag on the side of the mechanism.

Silicone fuel line is the way to go... you just have to be careful to find some that is round and has a round, well centered hole. This can be difficult. Of the 10 different types available in local hobby shops all were oblong or off center.

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HP-41 Fullnut question

Message #1 Posted by [Steve \(Australia\)](#) on 1 May 2001, 12:08 p.m.

I have a reasonably old fullnut HP-41C. It was rattling a little and I discovered it had a broken post. However, on closer examination I find that there may be something else missing, and one more detail that I am curious about.

Here is the calculator. The red bits are the things I'm interested in:

(picture unavailable)

The first thing are the connections to the display at the top left corner:

(picture unavailable)

Note that one of these appears to be missing.

It looks like the solder joints are broken, but the calculator appeared to work correctly. Is there normally a link here?

I've fixed a couple of calculators with really weird display faults that turned out to be a poor joint in these jumpers, but I can't remember if they had three or four links in this position.

If it is, then I am amazed that this calculator appeared not to have an obvious display fault. If it's not, then the pads sure do look like they've been used!

The other thing is:

(picture unavailable)

Note that the two boards appear to be held together by nuts on the lower posts.

Do all fullnuts have these nuts? I know that the older C's I've repaired do, but do they all?

Re: HP-41 Fullnut question

Message #2 Posted by [John Robinson \(Australia\)](#) on 1 May 2001, 8:13 p.m.,
in response to message #1 by Steve (Australia)

Steve,

The answer to your questions are :

1. Three wires in the left hand group of display connections is normal, I have never seen four used on any fullnut, old or new.
2. Only early C and CVs had the nuts on the lower posts(~1979 - 1980/1). Newer ones used a slightly different case back such that the case back itself applied pressure to the CPU board to ensure good connection.

Cheers, John

Re: HP-41 Fullnut question

Message #3 Posted by [Erik Wahlin](#) on 1 May 2001, 10:54 p.m.,
in response to message #2 by John Robinson (Australia)

John is right, there are only three attachments at the left LED side. This had me confused once too. As far as the nuts are concerned, these work alot better than the pressure from the case trick. I wonder why HP did not do them all this way. I had thought that it was a later mod rather than an earlier one.

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HP10C

Message #1 Posted by [Thibaut](#) on 1 May 2001, 3:01 a.m.

Everybody's fighting for the 10C for sale on ebay... Funny :-)

Re: HP10C

Message #2 Posted by [Y. Samuel Arai](#) on 1 May 2001, 2:00 p.m.,
in response to message #1 by Thibaut

Forget the 10C, what about the 10!

Re: HP19C

Message #3 Posted by [Mike](#) on 1 May 2001, 9:07 p.m.,
in response to message #2 by Y. Samuel Arai

I have a 19C. I have been having problems getting it to work. The printer runs "open" and the display does not light. It is in pretty nice condition but it does not run.

Have not given up on fixing it yet, just running out of things to try.

Re: HP19C

Message #4 Posted by [stefan \(sweden\)](#) on 6 May 2001, 3:53 p.m.,
in response to message #3 by Mike

Hi Mike

I bought a hp19C today in a second hand market for one \$. The charger was missing so i dont know if it works. Now to my question: What is the output from the charger. Is it AC or DC. Whitch of the kontakts is +. And most important what skall i try to do to awake it (if its not running) I have my doubts. stefan

Re: HP19C

*Message #5 Posted by [Erik Wahlin](#) on 7 May 2001, 3:12 p.m.,
in response to message #4 by stefan (sweden)*

The HP-19C used the same charger as the HP41, HP-97 and HP-82143A printers. I believe it was 8V AC.

Re: HP19C

*Message #6 Posted by [Viktor Toth](#) on 8 May 2001, 4:32 a.m.,
in response to message #3 by Mike*

Mike,

Make sure you don't try to run your 19C from a charger with no battery pack present. On the other hand, if you have a stabilized 5VDC power supply (NOT a cheap adapter that puts out unregulated DC!!!) you can hook it up directly to the battery contacts in order to test your calculator.

Viktor

OT: It's GREAT to hear from you Viktor!!

*Message #7 Posted by [Matt Kernal \(US\)](#) on 8 May 2001, 2:06 p.m.,
in response to message #6 by Viktor Toth*

Viktor,

Just this week I was thinking "I sure wish Viktor was around again". I was even going to write to you and ask how you're doing (since it's been a while since we've had the privilege of your technical knowledge.. Am I sucking up too much? :^).

Now, here you are in person! (so to speak). I just want to encourage you to stop by as often as you can. Your posts are always professional and helpful, with a little humor to boot!

Later Viktor, Matt Kernal

Re: OT: It's GREAT to hear from you Viktor!!

*Message #8 Posted by [Viktor Toth](#) on 9 May 2001, 12:39 a.m.,
in response to message #7 by Matt Kernal (US)*

Matt,

Thanks for the kind words, much appreciated.

I still lurk, I was just far too busy over the last month or two, and then I was away on a trip, so only now do I have a chance to settle back to my normal ways. But (just to keep this post on the topic of calculators) my trip was fruitful: I was lucky enough to find a nice condition HP-85 in a second-hand electronics shop in Hungary, and it survived the trip back to Canada intact. This was a machine I dreamed about as a kid... imagine, a real computer on your desk :-)

Now I joined the ranks of those who're looking for a replacement drive belt for that HP-85 printer...

Viktor

Re: OT: It's GREAT to hear from you Viktor!! - collectors meeting in Europe ???

*Message #9 Posted by [Reinhard Hawel \(Austria\)](#) on 9 May 2001, 9:29 a.m.,
in response to message #8 by Viktor Toth*

I just saw, you were in Hungary in the last time.

There was a diskussion years ago to arrange a collectors meeting in Europe (maybe in Vienna, where I live :-)

If any of the European collectors would be interested I could try to find out, what's to arrange for this time, where the meeting should be and when ...

Anybody interested ? Ouch, another project with much work and no income from it :-)

Please note, that I've never done the organisation of such a meeting before, so it could be, that I even don't know how much work this is... I'd just like to test, if anybody's interested...

Any help for such a project would be more than welcome.

Reinhard

Re: OT: It's GREAT to hear from you Viktor!! - collectors meeting in Europe ???

Message #10 Posted by [thibaut.be](#) on 9 May 2001, 11:04 a.m., in response to message #9 by Reinhard Hawel (Austria)

Yes, this would be a great idea.

But as far as I saw we are less than a dozen...

I mean that if you want to organize such a meeting, the first thing would be to ask for how many people are concerned...

Anyway this is a great idea and I'd be delighted to participate to such an event...

Re: OT: It's GREAT to hear from you Viktor!! - collectors meeting in Europe ???

Message #11 Posted by [Raymond Hellstern](#) on 9 May 2001, 4:59 p.m., in response to message #10 by thibaut.be

Hello,

maybe if all HP collectors interested in a meeting write an email to a specific person, maybe Reinhard? ;-) So it would be possible to check how many people would join.

Regards,

Raymond

**Re: OT: It's GREAT to hear from you Viktor!! -
collectors meeting in Europe ???**

*Message #12 Posted by [jim](#) on 10 May 2001, 5:14 p.m.,
in response to message #11 by Raymond Hellstern*

please send me info if this will happen..jim

Re: HP19C

*Message #13 Posted by [stefan](#) on 9 May 2001, 12:43 p.m.,
in response to message #6 by Viktor Toth*

hi viktor

just for the record it works printer and calc. stefan

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HP-67 Repair Success!

Message #1 Posted by [Brad Tritone](#) on 30 Apr 2001, 7:17 p.m.

Thanks to all who replied to my "Waterlogged HP-67" post and offered suggestions for proceeding, as well as to the countless posters and authors of repair articles on the MoHPC. I took the "easy" way out and used Formula 409 to clean the inside of the case, the keys, and the circuit boards as well. There was no major visual damage... just some minor discoloration possibly due to the soft drink that had never been cleaned off. The battery pack had no visual corrosion or leakage and had a slight voltage charge still on it (after 13 years!) After reassembling the calc, I charged the batteries for about 4 hours and "risked" turning it on. It worked! I checked out all the keys, wrote a simple program, and the dang thing still works. HP knows how to make a Calculator, don't they?

I will have to rebuild the battery pack... it doesn't hold a charge very long. I've gotten lots of good advice off the forum and through public and private replies, and I have the NiCd batteries in-hand.

All is not completely well, however, as the card reader definitely needs repair. The reader did pull a card through, but got an Error every time. After a couple more times through the slot, the card came out "gummy" so I know the little wheel will have to be replaced.

The latest post I read suggested using silicone rubber tubing. Is this still the preferred material? Will this rubber eventually become gummy like the original? I'm not crazy about the fuel tubing that needs the stretched-in-the-oven technique. O-rings might be easy to try, also.

Again, thanks to everyone who shares their stories and methods here. This is a great forum! I would have never considered tackling my own repair in 1000 years if I hadn't stumbled upon this forum by accident (still don't remember how I got here). My stomach used to churn everytime I thought about "losing" the 67 so many years ago, and the thought of never having it work again.

Brad

P.S.... is there a "self-test" mode on the HP-67? I seem to remember there was, and I can't seem to locate the box and manual at the moment. I've exercised all the keyboard functions, shifted and non-shifted, but I would like to give it a thorough workout if that's possible.

Re: HP-67 Repair Success!

Message #2 Posted by [Mike](#) on 1 May 2001, 9:16 p.m.,
in response to message #1 by Brad Tritone

I have used the silicone tubing and have never had to use any "oven" technique. I have not even had to use any glue. I use pink silicone tubing that I get from a model shop and it fits perfectly.

It comes almost exactly even with the metal shoulder and its inside diameter is just small enough to fit on without any need for glue.

I have fixed many dozen 67, 97 and 41 readers using this technique.

Works for me...

Re: HP-67 Repair Success!

Message #3 Posted by [David Smith](#) on 2 May 2001, 6:12 p.m.,
in response to message #1 by Brad Tritone

Another thing to check very carefully for when you replace a gummy wheel is the state of the "clutch" in the worm gear that is connected to the motor. This clutch is a piece of nylon tube that is glued or press fit in the end of the worm gear. The motor shaft press fits into the hole in the nylon tube. In well over half the calculators that I have seen this clutch is also disintegrating causing the worm gear drive to slip. The purpose of this clutch is to provide some slip in the worm gear mechanism if a card jams.

Fixes involve either: a) find a suitable replacement nylon tube. I have not found any stock parts of the right dimensions... if anybody has I'd love to know where. b) make a new clutch. This requires a good mini-lathe and wire drill. c) fold a small thin piece of tape over the motor shaft and jam the old worm gear/clutch on it. More times than not this just breaks up the remains of the old clutch and you are now in worse shape than before. d) place a small drop of rubbery CA (superglue) in the worm gear / clutch and stick it on the motor shaft. The clutch will no longer be a clutch, but this seems to be the most reliable fix. If your drive wheel rubber is not glued down, you will still have some clutch action, but silicone rubber is soft enough that you can extract a card even if the drive rubber is glued. Be careful not to get glue into the motor bearings.

Re: HP-67 Repair Success!

*Message #4 Posted by [Brad Tritone](#) on 2 May 2001, 11:44 p.m.,
in response to message #3 by David Smith*

David,

Thanks for the reply. This is exactly where I am in the process now... addressing the crumbled nylon clutch. I could never quite imagine what a "clutch" looked like or exactly where it was from the other repair articles... now I know.

The reason I found the clutch (by accident) was because my wormgear had "black gunk" in the gear teeth and I felt like I needed to clean it off. The gunk was only on one side of the gears... presumably on the bottom where the teeth lay idle for the last 13 years. So I removed the motor from its mount. While cleaning the gears, the wormgear housing literally fell off the motorshaft, leaving half the nylon on the shaft and the other half inside the wormgear housing. When I tried to carefully remove the nylon from the motorshaft, it continued to crumble into pieces. There is still a little bit of nylon left inside the wormgear... I'll probably leave that there and use the gel-like superglue to bond the housing to the motorshaft, trying NOT to get any on the motor (as you pointed out).

I wondered if you could use some putty-like 2-part epoxy to stuff into the wormgear, let it setup for a minute or two, then press the motorshaft into the epoxy but remove it until the epoxy hardens. I don't know if the epoxy will shift or swell enough to give a tighter fit when reinserting the motorshaft. Or it could shrink and I'd be in worse shape.

Concerning the black "gunk"... I don't think this was from the disintegrated pinch wheel. The rubber wheel had a decidedly molasses-like color and texture, while the gunk is, well, black. I'll clean it off the wormgear and the plastic gear, but should I oil the gears a tad with something?

I've also seen several mentions of adjusting the white plastic "pin" with the slotted end. How does one adjust this without reassembling the calculator+reader, trying it out, completely disassembling the calc+reader, twisting the pin slightly, reassembling etc.?

I bought some o-rings from Lowes, and two kinds of fuel tubing from my local hobby shop. Both are made by Du-Bro and one is bright yellow, and the other is light blue. I believe the light blue is actually a silicone tubing so I will probably try that first.

Re: HP-67 Repair Success!

*Message #5 Posted by [David Smith](#) on 3 May 2001, 5:48 p.m.,
in response to message #4 by Brad Tritone*

Almost all epoxies shrink just a smidge when they cure.

You can try what you mentioned but getting the shaft centered and square can be a problem. That's why I recommend finding a person with a nice small lathe or mill.

I have noticed the black stuff on almost all HP worms. It might be some kind of lube or just the worn off plastic from the roller gear.

I would recommend cleaning out all the clutch parts from the gear, otherwise the shaft might not seat fully. I have had to shim the motor back about 1/32 inch with plastic sheeting after fixing some partially disintegrated clutches with superglue. I recommend the black rubberized superglues because they are not as brittle when they dry and have less tendency to shear loose.

Re: HP-67 Repair Success!

*Message #6 Posted by [Angus](#) on 4 May 2001, 4:30 p.m.,
in response to message #3 by David Smith*

Out of curiosity, is the 'clutch' actually a clutch, or simply a flexible coupling - the main clutch action seems to be set by adjusting the friction between the card and the rubber roller.

Re: HP-67 Repair Success!

*Message #7 Posted by [David Smith](#) on 4 May 2001, 5:24 p.m.,
in response to message #6 by Angus*

I don't know if HP actually intended this to be a clutch or just a friction fit coupling to the motor shaft. Most people here call it a clutch. I tend to call it things best not printed in polite company...

Also in answer to how to tweak the tension on the eccentric cam pin that serves as the roller wheel shaft... I try to get it close before reassembling the whole calculator by inserting a card and feeling how tight it is when it hits the rubber wheel. You should be able to insert and remove the card without too much force. It should not be overly loose though. A little experience goes a long way here.

Once the keyboard, etc are screwed down but before replacing the back, I turn the machine over to let it rest on a battery pack and try a few cards. You can still adjust the

pin tension by inserting a small flat bladed screwdriver in the slot in the cam pin's head as long as the slot is relatively vertical. If the slot is horizontal I use a right angle dental pick to get into the cam pin slot and make adjustments... it's a little tricky at first but fairly easy once you've done it once. The tension goes from minimum to maximum with about 1/2 revolution of the cam pin.

Re: HP-67 Repair Success!

*Message #8 Posted by [Nick](#) on 4 May 2001, 11:44 p.m.,
in response to message #7 by David Smith*

I did not realize there was an adjustment to the roller after the card reader was reassembled. I thought the nylon pin was just an axle.

I just finished rebuilding a '67 card reader, using Permatex, a silicone adhesive sealant. It seem to be replacing the "clutch" quite nicely, but the magnetic card keeps giving me an error when I push it through the reader. I now suspect it is too tight and will try to adjust it by turning the pin to loosen the adjustment.

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hp85 tape drives

Message #1 Posted by [jim](#) on 30 Apr 2001, 6:46 p.m.

I have a hp85b that is expiring trouble reading from the tape drive. The problem is hit or miss, will one time read the tape or tapes correctly and the other times gives me the no tape error or error reading. I have cleaned the drive and it shows no excess wear. Any help??

Jim

Re: Do you have any of these symptoms

Message #2 Posted by [Mike](#) on 1 May 2001, 9:02 p.m.,
in response to message #1 by jim

I have found 3 problems on these old tape drives:

1) Bad capstan (dissolved) 2) End of Tape light 3) Bad tapes.

Have you had problem indicating "at end of tape"? Have you had problems when simply rewinding?

If so, you probably have a bad tape. Old tapes tend to lose their oxide. Most of my old HP 200 tapes are bad or have bad spots.

Do you have this problem with a new tape?

Have you checked to see that the rubber is still in good shape?

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hp-20s

Message #1 Posted by [Peter Cerutti](#) on 30 Apr 2001, 9:02 a.m.

Can anyone help me out?!

I've acquired a hp-20s. On the back of the calculator it says 1987 Singapore. I thought production of this calculator didn't start till 1989 or 1990 at the earliest. Can someone tell me what's going on?

Re: hp-20s

Message #2 Posted by [Y. Samuel Arai](#) on 30 Apr 2001, 3:03 p.m.,
in response to message #1 by Peter Cerutti

All of the Pioneer series (20S, 10B, 17B, 17BII, etc.) has that identical HP Copyright date on the back. Your date of manufacture is in the serial number. Take the first two digits of your serial # and add it to 1960, and you get the manufacture date. E.g., my 20S has 3452S84XXX on it, so $1960 + 34 = 1984$.

Sam

Re: hp-20s

Message #3 Posted by [Y. Samuel Arai](#) on 30 Apr 2001, 5:40 p.m.,
in response to message #2 by Y. Samuel Arai

Ok I can't do math... $1960 + 34 = 1994$, NOT 1984!

Good thing I have HP calculators to do my math for me... :-)

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Catalog of HP-71B ROM Routines?

Message #1 Posted by [Philip Reagan](#) on 28 Apr 2001, 4:10 p.m.

Is it possible to get a "catalog" of the various ROM routines in a 71B? Similiar to the HP41 CAT 1 or 2 commands? I have a ROM that I'd like to get a listing of the routines in the ROM.

Thanks for the help.

Re: Catalog of HP-71B ROM Routines?

Message #2 Posted by [CJ](#) on 28 Apr 2001, 8:57 p.m.,
in response to message #1 by Philip Reagan

Hi Philip,

Download this LEX file.

<ftp://ftp.hpmuseum.org/lif/swap/chhu03/>

helplex.l71

After downloading the file into the 71 run the command "help" the program will list all of the current functions in the 71 at the time. Including LEX file functions in ram.

Chris

Re: Catalog of HP-71B ROM Routines?

Message #3 Posted by [Philip Reagan](#) on 30 Apr 2001, 10:57 a.m.,
in response to message #2 by CJ

Thanks. I'll give it a try.

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HP-67 Battery Pack Question

Message #1 Posted by [Brad Tritone](#) on 28 Apr 2001, 4:01 a.m.

I'm about to embark on an HP-67 repair job, and the first I want to do is rebuild... or purchase... a new battery pack. The pack I have is the original, which was in use for about the first 10 years I owned the calc... but after an accident which left my '67 "waterlogged" I left it idle for about the last dozen years. There doesn't appear to be any corrosion on the battery pack or its silver terminals, but I haven't opened the pack yet. I've read the various articles at this website on battery pack repair and/or replacement, but my question is this...

Q: does anybody still sell a ready-made drop-in-and-go battery pack module for the HP-67? I mean, something I don't have to cut open, solder, or transplant into my existing battery pack "shell".

Re: HP-67 Battery Pack Question

Message #2 Posted by [Y. Samuel Arai](#) on 28 Apr 2001, 3:06 p.m.,

in response to message #1 by Brad Tritone

You might find one on EBAY. Otherwise, you can have it professionally rebuilt by any one of the several NiCad rebuilders listed below.

<http://www.hpmuseum.org/repair.htm>

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HP-41 Synthetic Programming Conspiacy Theory

Message #1 Posted by [Steve \(Australia\)](#) on 27 Apr 2001, 4:54 a.m.

I was thinking today (Yeah, dangerous, I know).

If we think back to the release of the HP-41C and how this was reported in PPC, it seems possible to me that HP lent a hand in the "discovery" if not the creation of synthetic programming.

Some time ago I thought I would re-read PPC articles just to see how HP-41C synthetic programming was discovered and developed. Imagine my surprise to find that quite detailed knowlege of it was evident right from the first review of the calculator.

As I think back to that time, it was a point when TI and HP were going hammer and tong (as were their users) to prove that they had the better calculator.

Calculator owners back then were pretty technically minded, a bit like the first computer owners, the first internet users, etc. What better way to attract them than provide a host of interesting and dangerous features? What better way to make them the subject of cult following by officially denying, if not their existance, certainly any support.

But did they REALLY deny support? It would have been quite easy for HP in one of their ROM revisions to make many of these synthetic functions (such as RCL c, or STO M) result in a NONEXISTANT error, but they didn't.

Some calculator bugs were fixed quite soon. But these were ones that could cause strange (and perhaps destrucive) behaviour in normally written code. These included the STO IND, and SF/CF IND bugs, and the non-decompiling when switching out of program mode. But those bugs that gave access to synthetic programming (Deleting program lines in CAT mode and strange key assignments were never touched.

So, I wonder.... Who was it who made the policy decision? Who in HP either briefed users as to what these instructions were, or who provided information in such a way as to allow its easy "discovery"?

Hmmmmmmmmmmmmmmmmmmmm.....

Re: HP-41 Synthetic Programming Conspiacy Theory

Message #2 Posted by [Gene](#) on 27 Apr 2001, 5:59 p.m.,
in response to message #1 by Steve (Australia)

Well, in the August 1979 issue of PPC, HP published (if my memory is correct) the HP41 Byte Table with a discussion of how functions were formed.

Surely, it must have occurred to some of our PPC forefathers that if these two bytes came together to form STO Y, then if they went down the line they might get other STO d type functions.

All that remained was finding out how to put the bytes together.

Also, since bug 2 allowed arbitrary storage of data into program registers (and more), strange functions showed up there too.

The most-fun bug, IMO, was the bug 3 allowing a SF IND 01 to turn on someone's BAT indicator. Quite fun for a high school student to do that to someone's HP41..."Darn it! I just put new batteries in this thing yesterday..." :-)

Re: HP-41 Synthetic Programming Conspiacy Theory

Message #3 Posted by [Ernie Malaga](#) on 29 Apr 2001, 12:29 a.m.,
in response to message #1 by Steve (Australia)

What I would like to know is how the SP pioneers discovered just WHAT those odd byte combinations did. Creating the combinations was a feat all by itself, but finding out the meaning of the new instructions is way more complicated.

Consider, for example, how they found out that register c had a '169' smack in the middle, and that messing with it was a sure-fire way to get MEMORY LOST. And this knowledge seems to have come really early in the game.

On the other hand, there were odd "catalogs" full of mysterious functions (remember eG0BEEP?) that were never fully understood.

If Richard Nelson or Roger Hill are lurking, how about commenting, pretty please?

-EM

Re: HP-41 Synthetic Programming Conspiracy Theory

*Message #4 Posted by [Steve \(Australia\)](#) on 29 Apr 2001, 2:20 a.m.,
in response to message #3 by Ernie Malaga*

I think discoveries like eGOBEEP were the "real" discoveries of synthetic programming.

The rest were pretty much known from the release of the first HP-41. Hence my initial posting.

Re: HP-41 Synthetic Programming Conspiracy Theory

*Message #5 Posted by [Ernie Malaga](#) on 29 Apr 2001, 11:40 p.m.,
in response to message #4 by Steve (Australia)*

Just out of curiosity, do you know if the HP-42S recognizes SP instructions? That machine was advertised as being able to run HP-41 programs. I have never as much as seen a 42, so I don't know from personal experience.

Regards, -EM

HP42S and synthetic instructions

*Message #6 Posted by [Gene](#) on 30 Apr 2001, 9:52 a.m.,
in response to message #5 by Ernie Malaga*

The HP42S will recognize only a limited number of "synthetic" instructions.

By entering the Debugger on the 42S, you can actually type in the exact byte sequences that you want to construct any HP41 synthetic instruction.

Unfortunately, for most of them, the HP42S will reset them to "normal" type instructions when you exit the debugger.

What CAN you do synthetic-wise on the HP42S?

Well, one of the last issues of HPX devoted most of it's space to this topic. My memory is that you can make long labels LBL 'ThisIsAnExampleOfALongLabel' and other things, but nothing overly useful. No STO d, etc.

That's one reason why investigations into it on the 42s died off.

Gene

Re: HP42S and synthetic instructions

*Message #7 Posted by [Raymond Hellstern](#) on 3 May 2001, 3:57 p.m.,
in response to message #6 by Gene*

On early HP-42S revisions, you could change the 'speed constant' (or delay) to a different value. This way the machine worked faster until the next shutdown. On those machines, you could write a program to speed it up, and call it whenever you needed it. On newer machines, you had to change the value inside the memory browser by hand, and every time you needed it.

AFAIK, the program for changing the constant uses some kind of X<> IND xx with an illegal value for xx, which doesn't work on the newer machines.

Regards,

Raymond

Re: HP42S speed

*Message #8 Posted by [Tom \(UK\)](#) on 4 May 2001, 9:00 a.m.,
in response to message #7 by Raymond Hellstern*

What was the advantage of running the HP42S at anything slower than maximum speed?

Was this a way of HP equalising the performance of different machines or making sure they worked over the full temperature and voltage range?

Anybody know the instructions for speeding the HP42S up?

HP42S speed up on my site...URL included

*Message #9 Posted by [Gene Wright](#) on 4 May 2001, 9:59 a.m.,
in response to message #8 by Tom (UK)*

Here it is:

<http://members.aol.com/hpgene/hp42fast.htm>

Other useful stuff there too.

Gene

Re: HP42S speed

*Message #10 Posted by [Chris Randle \(Lincoln, UK\)](#) on 5 May 2001,
9:28 a.m.,
in response to message #8 by Tom (UK)*

Would a speeded-up machine would take a hit in battery life, too?
Perhaps HP chose a balance? Perhaps the test labs had a mother-in-law
going, "That's too fast! Slow down!!"?

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11C with no serial number!?

Message #1 Posted by [Y. Samuel Arai](#) on 27 Apr 2001, 12:56 a.m.

I just obtained an 11C which appears to have no serial number anywhere. Also, it differs from two other 11Cs I have in that the keyboard overlay has a matte (nonreflective) finish rather than glossy. The 11C logo on this unit has a bright silver (mirror) finish. My other 11C has a more of a matted silver 11C logo (the third one is missing the logo).

Does anyone know where I can find the serial number on this unit? It does not appear to be altered. I've inspected the area where I'd normally find the serial number carefully, but it looks clean and uniform throughout with no signs of alterations or tampering. The rest of the body appears the same (clean, uniform, no signs of tampering if serial# has been somehow erased).

This unit is very clean overall (maybe a 9.6) so it would seem it "should" be easy to find signs of tampering... but I don't see any.

Has anyone seen such an 11C (or any other Voyager series calculators with similar features)?

Thank you in advance, Sam

Re: 11C with no serial number!?

Message #2 Posted by [Wayne Brown \(Alabama\)](#) on 27 Apr 2001, 9:08 a.m.,
in response to message #1 by Y. Samuel Arai

My guess is that this was a replacement unit sent out in exchange for one that was returned to HP for repair. I've heard that some of the calculators HP used for these exchanges didn't have serial numbers. It would also explain the other differences you mentioned, since HP often manufactured replacements even after the "for sale" units had gone out of production. Slight changes might be made after the regular production stopped, and so these differences would only be seen in the replacements, which would be less common than the production units.

Re: 11C with no serial number!?

*Message #3 Posted by [DIV](#) on 30 Apr 2001, 8:24 p.m.,
in response to message #2 by Wayne Brown (Alabama)*

I am looking for a users manual for my HP 12C??

HP12C manual

*Message #4 Posted by [Thierry Allender](#) on 2 May 2001, 4:08 a.m.,
in response to message #3 by DIV*

I am looking too a users manual for my HP12C. This manual is always sold by HP, but the price in France is prohibitive : # 35 \$..... So, if you find solution, I'm interested...
Regards

Re: 11C with no serial number!?

*Message #5 Posted by [Tom \(UK\)](#) on 1 May 2001, 7:07 a.m.,
in response to message #2 by Wayne Brown (Alabama)*

Could it also be possible that the HP serial number stamping machine spat out a few calculators with no serial number and quality control did not pick this up until some units had gone out?

If so I wonder how many 'escaped' with no serial number?

Re: 11C with no serial number!?

*Message #6 Posted by [Alex](#) on 27 Apr 2001, 11:57 a.m.,
in response to message #1 by Y. Samuel Arai*

I have a HP16C with no serial number. I got it from its original owner and he didn't mention anything about it being a repair unit. Cosmetically it looks just like the other HP16C I've got, with the exception of no serial number stamped anywhere on the unit.

I'd also be interested in hearing if others have seen this on other Voyager models.

Regards, Alex Knight The Electronic Calculator Museum Web Page <http://www.calcmuseum.com>

Re: 11C with no serial number!?

*Message #7 Posted by [Raymond Hellstern](#) on 3 May 2001, 3:48 p.m.,
in response to message #6 by Alex*

Hi,

for the mirror-like logo: These were used on the older machines. Later machines have the matted logo.

For the missing serial numbers: I have an HP-41C with no serial number, and an HP-41 card reader with no serial number, too. Their cases were replacement parts which certain companies could buy from HP for their special hardware extensions (W&W RAM boxes, etc.) Empty printer plug cases w/o date code were available, too.

Regards,

Raymond

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HP71 Voltages

Message #1 Posted by [Andrew Hart](#) on 26 Apr 2001, 6:08 p.m.

My HP71B appears to have a failed internal voltage regulator it shows sign of high heat and there is no output voltage. It appears to be a standard type TO220 style three pin voltage regulator. To replace it I need to know what the regulated supply output was. Does anyone have any idea of what it should be.

The chip (Motorola) is marked with the following 407M 4-0932 and elsewhere a date code.

For interests sake, the serial number of the unit is 2514A00662

Any help would be appreciated.

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Opening the 32s calculator

Message #1 Posted by [sevski](#) on 26 Apr 2001, 9:46 a.m.

Just poured a cup of Lipton's finest tea into my 32s. Trying to open the case and have a look. Prying seems to be the way but it won't pop. Any suggestions, it can't be hurt any more than it already is! There was a touch of honey in the tea. Hummm....

Re: Opening the 32s calculator

Message #2 Posted by [Paul Brogger](#) on 26 Apr 2001, 11:20 a.m.,
in response to message #1 by sevski

Under the MoHPC "Repairs and Batteries" link you'll find my article on "Pioneer Repairs" (sorry, I still don't know how to enter a simple hyperlink into a Forum response . . .) In there, you'll find all the detail that I know of. If you've any questions, post them here or email me.

Good luck!

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HP41 Parts

Message #1 Posted by [Hugh Wong](#) on 26 Apr 2001, 7:33 a.m.

Are Hp41 components still available, such as its Data Storage D/S ICs, can these ICs be substituted by generic D/S ics ?

Re: HP41 Parts

Message #2 Posted by [David Smith](#) on 26 Apr 2001, 3:30 p.m.,
in response to message #1 by Hugh Wong

The only way you are going to find any HP calculator chips is by salvaging another unit. I think just about every one was a custom chip made by/for HP. No off the shelf fixes here...

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HP41 CX indicators on display only shown in alpha modus

Message #1 Posted by [Dieter \(Germany\)](#) on 25 Apr 2001, 5:47 p.m.

On the display of my HP41 41 CX the indicators for bat, shift, first 5 flags, prgm only shown when I'm in alpha-modus. The function of all bars on the HP are ok. What can I do? Is the display not ok?

If you can help me, mail@dieter-raudzus.de.

Best regards

Dieter

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calculator key bounce

Message #1 Posted by [Nick](#) on 23 Apr 2001, 9:05 p.m.

What can be done with my old HP-35 that double enters a digit when I press the key. This happens for about half of the number keys. The 2 seems to be the worst, and the function keys seem to be ok. Any ideas as to how to fix something like that? Thanks.

Re: calculator key bounce

Message #2 Posted by [Tom \(UK\)](#) on 24 Apr 2001, 3:38 a.m.,
in response to message #1 by Nick

I'm fairly sure there was an article about servicing 'classic' HP calcs on this web site. The last method it suggested for improving key bounce was to use very fine sand paper _wiped_ (NOT rubbed) between they key contacts. I would try using some contact cleaner long before sand paper.

Although I have not seen key bounce, I've noticed that the keys on my HP67 seem alot more 'snappy' with fully charged batteries.

Re: calculator key bounce

Message #3 Posted by [nick](#) on 24 Apr 2001, 2:19 p.m.,
in response to message #2 by Tom (UK)

Interesting. When I put the AC adapter on the calculator, the key bounce diminished. I would never have guessed that. But after overnight charging of the battery pack the seven key still gave double entry. The two is now perfect.

I read Steve Loboyko's article about classic calculator repairs. He mentioned using fine grit sandpaper to repair non-functioning keys. I did use 600 grit sandpaper and got the decimal point working on another calculator. (an hp-67) I don't think the sandpaper solution applies to key bounce. Whatever happened to Steve Laboyko anyway?

Re: calculator key bounce

*Message #4 Posted by [David Smith](#) on 24 Apr 2001, 5:08 p.m.,
in response to message #3 by nick*

I have had good luck wetting a thick thread or thin string with 91% isopropyl alcohol (available at most supermarkets and drug stores, avoid the diluted 70% stuff) threading it under the silver metal dome of the offending key on the keyboard circuit board, and working it back and forth to clean out the gunk. Repeat with a clean and dry string. I use a broken sewing needle to get the string under the key contact.

This technique does assume you are comfy opening up and working on the guts of your prized baby...

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Probability Concepts & HP17BII limitations

Message #1 Posted by [Michael Burns](#) on 23 Apr 2001, 7:42 p.m.

Hi! I'm interested in two particular concepts of probability. I found these concepts in a book by John Allan Paulos "Innumeracy". Concept #1. How many random people must be in a room to have a 50% chance of two people having the exact same birthday. Let specify this before hand as being April 20th. Below Concepts #1 are my examples ? $(364/365)^{253} \times 100 = 49.95\% - 1 = 50.05\%$ Therefore; the answer is 253. You have two decks of playing cards=104. How many cards must you draw at random to have a 50% chance of getting two Ace's of Hearts. $(103/104)^{72} \times 100 = 49.87\% - 1 = 50.13\%$ Final example. You have one deck of cards=52 How many cards must you draw at random to have a 50% chance of getting two Ten's? First you have to know what the chances are of not getting it. As was done in the first two examples. Therefore: $(49/52)^{12} \times 100 = 49.01\% - 1 = 50.99\%$ Concept #2. How many random people must be in a room to have a 50% chance of any two people having an unspecified exact same birthday? $(n!/[n-k]!)/(n^k)$ $(365!/[365-23]!)/365^{23} = .493 - 1 * 100 = 50.73\%$ Therefore; the answer is 23 You have two decks of playing cards=104. How many cards must you draw at random to have a 50% chance any two unspecified cards matching exactly $(104!/[104-13]!)/104^{13} = .4575 - 1 * 100 = 54.25\%$ Therefore; the answer is 13 You have one deck of cards=52 How many cards must you draw at random to have a 50% chance of any two unspecified face, number, or suit cards matching? $(49/[49-7]!)/52^7 = .4211 * 100 = 57.89\%$ Therefore; the answer is 7. For a suit $(40/[40-3]!)/52^3 = 1 - .4216 \times 100 = 57.84\%$ Therefore; the answer is 57.84%. Finally Re: $n!/(n-k)!$ I know this is a shortcut to factorial a number down to a specific amount e.g. $365 * 364 * 363 * \dots * 343$ I can put this equation into my HP17BII but the highest number it will do is 253. Is there another equation I can use as a shortcut due to the limitation of my calculator? . Is there a book you can recommend with probability questions & answers & equations that can be used in every day life situations? Any help you can offer will be appreciated. Thanks! Regards, Michael Burns

Re: Probability Concepts & HP17BII limitations

Message #2 Posted by [Rich](#) on 23 Apr 2001, 8:10 p.m.,
in response to message #1 by Michael Burns

He's baaaaack!!!

:~)

Re: Probability Concepts & HP17BII limitations

Message #3 Posted by [Michael Burns](#) on 24 Apr 2001, 8:12 p.m.,
in response to message #2 by Rich

Yes I'm really baaaaack! but I failed to state that based on these two concepts are my other two examples right In each case? Anybody out there know if all four of my examples are right am I missing something? Thanks

Re: Probability Concepts & HP17BII limitations

Message #4 Posted by [Rich](#) on 24 Apr 2001, 9:37 p.m.,
in response to message #3 by Michael Burns

We're glad you're baaaaack! Your messages always bring a chuckle. :)

Seriously, I don't know if concepts are correct or not. We need someone with more math background than me!

Re: Probability Concepts & HP17BII limitations

Message #5 Posted by [Michael Burns](#) on 25 Apr 2001, 5:59 p.m.,
in response to message #4 by Rich

Hi Rich Thanks for welcoming me back I'm sure about the two concepts and I think my 1st examples are right but, I would really like to verify if my 2nd examples are correct since I made them up myself. I hope some bright person out there can confirm if I understand both concepts correctly by use of the examples given

Re: Probability Concepts & HP17BII limitations

Message #6 Posted by [Juan J](#) on 24 Apr 2001, 8:12 p.m.,
in response to message #1 by Michael Burns

What about Stirling's approximation? For large numbers the error is about 10%.

Re: Probability Concepts & HP17BII limitations

Message #7 Posted by [Michael Burns](#) on 24 Apr 2001, 8:18 p.m.,
in response to message #6 by Juan J

Hi Juan J Could you please explain Stirling's approximation? For large numbers the error is about 10% I have no idea what this means.Thanks

Re: Probability Concepts & HP17BII limitations

Message #8 Posted by [Juan J](#) on 25 Apr 2001, 11:42 a.m.,
in response to message #7 by Michael Burns

Michael:

Stirling's approximation is a method to estimate the factorials of large numbers. As you know, $n!$ is defined as $n!(n-1)(n-2)...3*2*1$ but this is often unpractical for large numbers. So Stirling came up with an approximation: $\ln(n!) = ((0.5)*\ln(2*\pi)) + ((0.5)*\ln(n)) + (n*\ln(n)) - n$ When comparing results, the difference (i. e., error) is about 10%.

For your example, the above equation yields 1790, so the factorial you are looking for is equal to $\exp(1790)$. Still out of range for a calculator, but a solid number to work with.

The approximation can be keyed into the Equation Solver. Worked in my 48s and 28, and will surely work in a 17B and 19B.

Regards,

Re: Probability Concepts & HP17BII limitations

Message #9 Posted by [Michael Burns](#) on 25 Apr 2001, 6:57 p.m.,
in response to message #8 by Juan J

Juan J: Re: $\ln(n!) = ((0.5)*\ln(2*\pi)) + ((0.5)*\ln(n)) + (n*\ln(n)) - n$ If you let $n=365$ I got 48,694,519.18 Here is what I put in my problem solver $ANS = ((.5 * \ln(2 * \pi)) + (.5 * \ln(n)) + (n * \ln(n)) - n)$ I had to put a) at the end otherwise it would be an invalid equation in my HP17ii Please let me know where I went wrong. Your help is much appreciated. Thanks

Re: Probability Concepts & HP17BII limitations

Message #10 Posted by [Juan J](#) on 25 Apr 2001, 7:43 p.m.,
in response to message #9 by Michael Burns

Michael:

Your expression, $ANS = ((.5 \times n \times (2 \times \pi)) + (.5 \times n \times (n)) + (n \times n \times (n)) - n)$, seems to have missing natural logarithm operators. Note that the formula should be something like this: $ANS = ((.5 \times LN(2 \times \pi)) + (.5 \times LN(n)) + (n \times LN(n)) - n)$. I assumed "ln()" would read as "LN()". This corrections should make your formula work.

A brief but good discussion on factorials properties, including the above formula, can be found in Appendix C of "Thermodynamics, Kinetic Theory and Statistical Thermodynamics," by Francis W. Sears and Gerard L. Salinger, published by Addison Wesley Publ. Co., Inc. Give it a try.

Regards,

Juan

Re: Probability Concepts & HP17BII limitations

Message #11 Posted by [Michael Burns](#) on 28 Apr 2001, 6:51 p.m.,
in response to message #10 by Juan J

Juan I'm going to check the library re:Thermodynamics, Kinetic Theory and Statistical Thermodynamics," but I,m still having a problem I let $n=365$
 $ANS=1790$ I solved for LN and it came out .0162 So the equation works.
How do you know what to put in for LN ? What do you mean by this "The approximation can be keyed into the Equation Solver. Worked in my 48s and 28, and will surely work in a 17B and 19B"? Thanks again for your help.
Regards Michael

Re: Probability Concepts & HP17BII limitations

Message #12 Posted by [Juan J](#) on 30 Apr 2001, 7:07 p.m.,
in response to message #11 by Michael Burns

Michael:

Your calculator must have a natural logarithm function. It is usually spelled as LN() on most HPs. Naturally, its inverse function is exp(), usually spelled EXP(). The formula has a couple of logarithms.

The result is the logarithm of the factorial, LN(n!), so the factorial is equal to the exponent of the result. Both functions should be in the same menu on your calculator.

The Equation Solver is the equation solving utility of the 48 series. I guess it has the same name on your 17B.

Again, the formula in your calculator should look like this: ANS=
 $((0.5 * \text{LN}(2 * \text{PI})) + (0.5 * \text{LN}(N)) + (N * \text{LN}(N)) - N)$

Regards,

Juan

Re: Probability Concepts & HP17BII limitations

Message #13 Posted by [Michael Burns](#) on 1 May 2001, 7:45 p.m.,
in response to message #12 by Juan J

Hi Juan I'm not as math savvy as you. I'm lucky I got through Algebra. I now successfully put in the equation and it works ANS=
 $((0.5 * \text{LN}(2 * \text{PI})) + (0.5 * \text{LN}(N)) + (N * \text{LN}(N)) - N)$ I needed it spelled out exactly. Ans=1792.33 I'll have to read up on logarithms. Now that I got this far I'm not sure what I do next? If your in the mood to teach me more I'm a willing student. Thanks for all your help so far.
Regards, Michael

Re: Probability Concepts & HP17BII limitations

Message #14 Posted by [Juan J](#) on 2 May 2001, 10:02 p.m.,
in response to message #13 by Michael Burns

Michael:

Going thru algebra with not-so-much success is not a thing to be ashamed of. I hated algebra too. But math is not so dreary, really. If only there would be more good teachers out there...

Ok. A logarithm is a number to which another number, referred to as base, is raised to obtain a given result. Any number can be used as a base, but for the sake of simplicity, two numbers are commonly used: 10 and e (which equals to 2.718283.)

Since logarithms are powers, the algebraic rules that apply to powers apply to logarithms as well. This enables us to apply logarithms to multiplications. Say we have $A*B$. If we take the logarithm of this, it would be $\text{LN}(A*B)$. This can be further split into $\text{LN}(A)+\text{LN}(B)$. The logarithm of the product is therefore the sum of the factors logarithms. Then we want to know how much is $A*B$. For this we find the antilogarithm of $\text{LN}(A*B)$.

Same thing with Stirling's formula. It provides $\text{LN}(N!)$, so $N!$ is the antlogarithm of it.

I've oversimplified this matter for a quick explanation. Drop me an e-mail for a more comprehensive one.

Regards,

Juan

Re: Probability Concepts & HP17BII limitations

Message #15 Posted by [Michael Burns](#) on 3 May 2001, 8:19 p.m.,
in response to message #14 by Juan J

Juan check your email. Please. If you want to respond on this web site instead that's OK I like comming Here

Re: Probability Concepts & HP17BII limitations

Message #16 Posted by [Chris Randle \(Lincoln, UK\)](#) on 3 May 2001, 6:01 p.m.,
in response to message #13 by Michael Burns

Michael,

You sound like me. Not a maths whizz, but you enjoy learning more. I really love this site: <http://forum.swarthmore.edu/dr.math/>

I'm sure you'll find answers to most of your questions there, with explanations aimed at the layman.

Chris

Re: Probability Concepts & HP17BII limitations

Message #17 Posted by [Mike Burns](#) on 3 May 2001, 7:44 p.m.,
in response to message #16 by Chris Randle (Lincoln, UK)

Chris, I have made four attempts at getting a response to my question on this web site since April 17TH I have yet to get a response. If you find another web site let me know please . Since I got my HP17BII math has become much more interesting to me. I have the equation for wind-chill factor and always on the out look for new equations that I can incorporate into my calculator. If you want to share useful equations with me let me know.

Re: Probability Concepts & HP17BII limitations

Message #18 Posted by [Chris Randle \(Lincoln, UK\)](#) on 4 May 2001, 3:56 p.m.,
in response to message #17 by Mike Burns

Mike, I didn't answer your question to me a while back about further explanations of probabilities because my knowledge stops at simple things like permutations and combinations.

Did you look at the Dr Math site? I can't believe you want more links. There's enough there to keep most people busy

for the rest of their lives! It is composed of three major "sections". One is a home-grown explanation of a particular topic. Two is loads of links to other sites covering that topic. Three is a (searchable) forum of questions and answers on that topic. The "level" starts at primary school and goes up to stuff that makes my head swim (secondary school?!). I end up reading there for hours once I start. For probability stuff, start here:

<http://forum.swarthmore.edu/dr.math/faq/faq.prob.intro.html>

and then just follow your nose!

However, if you want solver equations but don't know how to write them, then that is a pity. One of the beautiful things about a solver is that you don't need a program written by someone else, you just "translate" an equation from a book or web site. Perhaps someone else has a reference to help you to learn how to get the most from your solver? My favourite solver is on my 200LX. You just type in the equation as you see it and off it goes.

Re: Probability Concepts & HP17BII limitations

Message #19 Posted by [Michael Burns](#) on 4 May 2001, 9:27 p.m.,

in response to message #18 by Chris Randle (Lincoln, UK)

Thanks Chris I'll go back to <http://forum.swarthmore.edu/dr.math/faq/faq.prob.intro.html> and ckeck it out more thoroughly. I noticed on some of their explanations that sometimes they don't give enough information or skip a step and find it frustrating. I'm more interested in the process than the actual answers. I like to pick up on a concept and make up my own examples to ensure I understand it. Regards, Michael from Canada

Re: Probability Concepts & HP17BII limitations

*Message #20 Posted by [Michael Burns](#) on 4 May 2001, 9:33 p.m.,
in response to message #18 by Chris Randle (Lincoln, UK)*

Hi Chris Re:My favourite solver is on my 200LX. You just type in the equation as you see it and off it goes. I'll have to see if its available in Canada. Thanks for the tip.

200LX Solver and 17BII

*Message #21 Posted by [Chris Randle \(Lincoln, UK\)](#) on 5 May 2001, 9:22 a.m.,
in response to message #20 by Michael Burns*

Mike,

Unless Canada is even more blessed than it appears to be, you'll find that the 200LX was discontinued in Nov '00. They are available used, but tend to command quite high prices, such as US \$ 400. For that you get a PIM and DOS based PC and a calculator very similar to a 19BII albeit with a bigger screen.

Having said that, there's a thread here about 42S vs 48G+ where Ron Ross describes the 17BII's solver as sounding (to me) quite like the 200's, so it's probably not worth it. Using the 42's solver, for example, is not as simple as typing in an equation, but it's not rocket science either.

I've never seen a 17BII so I don't know the solver. If, for example, somebody showed you the physics equation for distance (s) in terms of initial velocity (u), time (t) and acceleration (a) as ' $s = ut + (a * t^2) / 2$ ' would you know how to put that into your solver? If not, perhaps you could start another thread asking for resources to learn how to use it. Is the manual any good on that subject? Once you're happy "programming" the solver, it opens

up all sorts of avenues of exploration in maths and physics.

Re: 200LX Solver and 17BII

*Message #22 Posted by [Ron Ross](#) on 6 May 2001, 8:44 p.m.,
in response to message #21 by Chris Randle (Lincoln, UK)*

Nice of you to reference my message. The solver on your 200LX is identical to the solver released by the 19bII and thus is 99% similar to the 17 bII solver. The other 1% is lack of trig functions and no trig functions to use in the solver of the 17. In fact the calculator mode of the 200Lx explains that it is a 19 bII calculator with the ability to integrate into the lotus 123. The 200 Lx is a great all around system.

The look and feel of the 17 is identical to the 200 LX otherwise (aside from having to use softkeys to key in alpha characters, but the 17 B is a calculator and not a 200Lx).

Re: Probability Concepts & HP17BII limitations

*Message #23 Posted by [Chris Randle \(Lincoln, UK\)](#) on 25 Apr 2001, 9:13 p.m.,
in response to message #1 by Michael Burns*

Michael,

I'm not familiar with the 17BII, but I thought about how you might solve this on the 200LX or 42S (two HPs that I do have) and it may give you some ideas.

As you rightly point out $n!/(n-k)!$ can be expanded to $n*(n-1)*(n-2)*...*(n-k+1)$. In your 365 and 23 example, it's $365*364*...*343$. You might be able to program the calculator to perform this function and thus solve for values of n far higher than your calculator can return factorials.

I'm ignoring the fact that both calculators have a perm function that returns a permutation of k items from n items, which is what the above expression calculates. If the 17BII has one then your problem's solved. Both machines return $\sim 4.22e58$.

On the 200LX's solver, there's a SIGMA function which takes arguments thus: $\text{sigma}(cv,c1,c2,s,$

alg) where cv is the counter variable, c1, c2 and s are begin/end/step values and alg is the expression to sum. You could use this as a sort of loop. The L function allows an assignment to be made for each iteration of the loop. Try something like:

```
sum=sigma(x,n,(n-k+1),-1,L(perm,if(x=n,n,perm*x)))
```

Set values for n & k, solve for sum and read off the value of perm.

The 42S has a handy loop construct where a register containing a number in the form bbbb.eees (e.g. 365.34301 means begin at 365 end at 343 and step by 1 (the default)) can be incremented or decremented.

The prog below took the values N=365 and K=23 and returned the same answer as the built-in perm function, only slightly more leisurely.

The comments in line below are based on my dim understandings of the HP-41.

Hope you can adapt these ideas to the 17BII in some way.

```
00 { 34-Byte Prgm }
```

```
01 LBL "PERM"
```

```
02 INPUT "N"
```

```
03 INPUT "K"
```

```
04 -
```

```
05 3
```

```
06 10^X
```

```
07 / [Divide]
```

```
08 RCL "N"
```

```
09 +
```

```
10 1
```

11 LBL 01

12 RCL ST Y [May be RCL Y on your calc?]

13 IP [May be INT on your calc?]

14 x

15 DSE ST Y [May be DSE Y on your calc?]

16 GTO 01

17 END

Re: Probability Concepts & HP17BII limitations

*Message #24 Posted by [Michael Burns](#) on 28 Apr 2001, 6:15 p.m.,
in response to message #23 by Chris Randle (Lincoln, UK)*

Hi Chris Thanks! I tried your method but it didn't on my HP17BII. If you ever get a hold of a HP17BII and find a way to do it Please let me know. By the way if you have a good understanding of Probability Concepts could you please let me know if my examples are right After each concept I made up 2 examples. Please confirm if the two examples are correct. I want to know if my understanding of both concepts are right and if both equations are done properly. Thanks

Concept #1. How many random people must be in a room to have a 50% chance of two people having the exact same birthday. I specify this before hand as being April 20th. $(364/365)^{253} \times 100 = 49.95\% - 1 = 50.05\%$ Therefore; the answer is 253.

Example#1 You have two decks of playing cards=104. How many cards must you draw at random to have a 50% chance of getting two Ace's of Hearts. $(103/104)^{72} \times 100 = 49.87\% - 1 = 50.13\%$

Example#2 You have one deck of cards=52 How many cards must you draw at random to have a 50% chance of getting two Ten's? First you have to know what the chances are of not getting it. As was done in the first two equations. Therefore: $(49/52)^{12} \times 100 = 49.01\% - 1 = 50.99\%$

Concept #2. How many random people must be in a room to have a 50% chance of any two people having an unspecified exact same birthday? $(n!/[n-k]!)/(n^k)$ $(365!/[365-23]!)/365^{23} = (.493-1) * 100 = 50.73\%$ Therefore; the answer is 23

Example#1 You have two decks of playing cards=104. How many cards must you draw at random to have a 50% chance any two unspecified cards matching exactly $(104!/[104-13]!)/104^{13} = (.4575-1) * 100 = 54.25\%$ Therefore; the answer is 13.

Example#2 You have one deck of cards=52 How many cards must you draw at random to have a 50% chance of any two unspecified face, number, or suit cards matching? $(49/[49-7]!)/52^7 = (.4211-1) * 100 = 57.89\%$ Therefore; the answer is 7. For a suit $(40/[40-3]!)/52^3 = (.4216-1) \times 100 = 57.84\%$ Therefore; the answer is 3.

Re: Probability Concepts & HP17BII limitations

Message #25 Posted by [Michael Burns](#) on 28 Apr 2001, 7:10 p.m.,
 in response to message #1 by Michael Burns

Hello any body out there with good understanding of Probability Theory:After each concept I maked up 2 examples. Please confirm if the two examples are correct. I want to know if my understanding of both concepts are right and if both equations are done properly. Thanks

Concept #1. How many random people must be in a room to have a 50% chance of two people having the exact same birthday. I specify this before hand as being April 20th. $(364/365)^{253} \times 100 = 49.95\% - 1 = 50.05\%$ Therefore; the answer is 253. Example#1 You have two decks of playing cards=104. How many cards must you draw at random to have a 50% chance of getting two Ace's of Hearts. $(103/104)^{72} \times 100 = 49.87\% - 1 = 50.13\%$ Example#2 You have one deck of cards=52 How many cards must you draw at random to have a 50% chance of getting two Ten's? First you have to know what the chances are of not getting it. As was done in the first two equations. Therefore: $(49/52)^{12} \times 100 = 49.01\% - 1 = 50.99\%$ Concept #2. How many random people must be in a room to have a 50% chance of any two people having an unspecified exact same birthday? $(n!/[n-k!])/(n^k)$ $(365!/[365-23!])/365^{23} = (.493-1) \times 100 = 50.73\%$ Therefore; the answer is 23 Example#1 You have two decks of playing cards=104. How many cards must you draw at random to have a 50% chance any two unspecified cards matching exactly $(104!/[104-13!])/104^{13} = (.4575-1) \times 100 = 54.25\%$ Therefore; the answer is 13. Example#2 You have one deck of cards=52 How many cards must you draw at random to have a 50% chance of any two unspecified face, number, or suit cards matching? $(49/[49-7!])/52^7 = (.4211-1) \times 100 = 57.89\%$ Therefore; the answer is 7. For a suit $(40/[40-3!])/52^3 = (.4216-1) \times 100 = 57.84\%$ Therefore; the answer is 3.

Re: Probability Concepts & HP17BII limitations

Message #26 Posted by [Andre' Wilhelmus](#) on 29 Apr 2001, 7:18 a.m.,
 in response to message #1 by Michael Burns

To calculate $P = N!/(N-K)!$ on a HP17BII using the Solver: $P=0*L(P:1)+0*\Sigma(I:N-K+1:N:1:L(P:G(P)*I))+G(P)$. See "HP-27S/19B Technical Applications" for an explanation of L() and G().

Re: Probability Concepts & HP17BII limitations

Message #27 Posted by [Michael Burns](#) on 29 Apr 2001, 9:12 p.m.,
in response to message #26 by Andre' Wilhelmus

Hi Andre' I tried your equation right after the SIGMA(It flashed INVALID EQUATION something beyond SIGMA appears to be wrong. Here is exactly what I did: $P = O \times L(P:1) + O \times \text{SIGMA}(I:N-K+1:N:1:L(P:G(P) \times I)) + G(P)$ I have tripple checked everything Please let me know what's wrong Thanks

Re: Probability Concepts & HP17BII limitations

Message #28 Posted by [Andre' Wilhelmus](#) on 1 May 2001, 7:14 a.m.,
in response to message #27 by Michael Burns

You have to use the Greek capital letter for Sigma, not "SIGMA" in characters.

Re: Probability Concepts & HP17BII limitations

Message #29 Posted by [Michael Burns](#) on 1 May 2001, 8:16 p.m.,
in response to message #26 by Andre' Wilhelmus

Andre' Your extremely math savvy. Using the example $104! / (104-13)! = 7.62E25$ Re: variables diaplayed P 0 N K What do I substitute for 0 N K the answer does not come out right Why? Thanks for Your Help Regards Michael

Re: Probability Concepts & HP17BII limitations

Message #30 Posted by [Andre' Wilhelmus](#) on 2 May 2001, 3:10 a.m.,
in response to message #29 by Michael Burns

The "O"s must be "0"s (zeroes). The menu keys will be P, N and K. Type in the number for N, press menu key N, Type in the number for K, press menu key K, to get the answer P (number of Permutations or N over K), press menu key P. So to calculate 5 over 3, press 5 N 3 K P.

Re: Probability Concepts & HP17BII limitations

Message #31 Posted by [Michael Burns](#) on 2 May 2001, 7:41 p.m.,
in response to message #30 by Andre' Wilhelmus

Andre' You are a super terrific person. You made my day. Thank you so much. You make being on the internet a really worthwhile experience. Thanks again for sharing your excellent knowledge. Regards, Michael

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HP Forum Archive 05

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Here's some heartening news...

Message #1 Posted by [Matt Kernal \(US\)](#) on 23 Apr 2001, 1:52 a.m.

Even if today's Hewlett Packard company isn't making the groundbreaking calculators that used to stir such intense loyalty and pride within their owner's (while also being so devastating to the competition), I am encouraged that an HP executive has "flat out denied any knowledge that the calc division would be shut down", according to an HP insider named David C. Jones.

See the following URL for more info about Mr. Jone's reassuring conversation: <http://groups.google.com/groups?hl=en&lr=&safe=off&th=762e96552a9e043d&ic=1&seekd=897854975#897854975>

Not to be naive, but as long as HP continues to manufacture calculators, I am still hopeful that something exciting can emerge from somewhere within HP; especially if the right person/people were to spearhead a move to provide the resources and backing to rekindle the spirit within HP's engineers to "Invent" a new machine that would blow away anything in it's path, just as Mr. Packard foresaw in the HP 35.

It's OK to dream, Matt

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HP Forum Archive 05

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Can I use a HP 12C display as a replacement for a broken HP 15C display?

Message #1 Posted by [Heather Hansson](#) on 22 Apr 2001, 5:25 p.m.

Sorry for putting this question in the Classified Ads section. Did not see the link to the discussion forum.

ANSWER IF YOU KNOW ONLY :)

I know I have asked this question before but the answers I have gotten so far goes in all directions and no one have yet told me that they have actually seen it work for themselves.

So please only answer if you are a HP technician (working with repairs) or if you have actually done this operation yourself and seen it work.

As far as I know there are several hardware versions out there. Mine does not resemble the one featured at the HP museums (<http://www.hpmuseum.org/tech10.htm>) though. To me it looks like the board of an HP 11C.

If anyone of you have done it yourself, please submit a scan/picture of the inside or process if possible. (1MB no problem)

Thanks Heather

Contact Heather@Hansson.ms

Re: Can I use a HP 12C display as a replacement for a broken HP 15C display?

Message #2 Posted by [Joe Evans \(USA\)](#) on 22 Apr 2001, 9:04 p.m.,
in response to message #1 by Heather Hansson

Sure, why not? I believe the 12C display has all the 15C annunciators (C, RAD, GRAD, etc.). Why not try it and find out? Be adventurous!!!

Are you still looking for parts? I may have a source.

Joe.

Re: Can I use a HP 12C display as a replacement for a broken HP 15C display?

Message #3 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 1 May 2001, 10:44 p.m.,
in response to message #1 by Heather Hansson

While it may be possible (the displays have all the same layout and indicators), I remember somebody here who bought a current 12C (still available at stores) to fix an 11C (I think it was so, just from memory), and find out that the displays were not electronically compatible. You may give it a try, but it is not a sure move. If you may find a calculator from the same manufacturing time, even a different model, it is quite possible that the displays are the same type.

HP Forum Archive 05

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HP9100A question?

Message #1 Posted by [Andreas](#) on 22 Apr 2001, 9:13 a.m.

Hello all,

does anybody know how many HP9100A were produced ever and during which time periode?

I appreciate any hints!

Best regards Andreas

-- a proud HP9100A owner :-)

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HP Forum Archive 05

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Calculators for Palm devices

Message #1 Posted by [Jonathan](#) on 21 Apr 2001, 11:59 p.m.

Does anyone know of or have a good RPN calculator (with 3-D graphing) program for a Palm or Pocket PC device? I guess I'm thinking about something of the order that's equivalent to the functionality of an HP 48g+ (only, and hopefully, faster). I'm probably dreaming but just curious anyhow. I'd be interested in hearing about ANY good programs out there. Thanks!

Re: Calculators for Palm devices

Message #2 Posted by [Marx Pio](#) on 22 Apr 2001, 11:26 a.m.,
in response to message #1 by Jonathan

I know you want because it is just what I wanted. The all in one device called Cassiopeia E-125 can run a 49G or a 48GX, play mp3, OnSite view, a PocketCad, fax, email, color screen, 32 Mb ram and much more. I changed onto it. For calculator emulator go <http://web.jet.es/leobueno/emu48.htm> and choose the appropriate calculator and download it's free including the hp rom image. Hope it help. Marx Pio

Re: Calculators for Palm devices

Message #3 Posted by [Dale Richmond](#) on 22 Apr 2001, 12:31 p.m.,
in response to message #1 by Jonathan

What processor is Hp using in their version of the pocket PC?

Re: Calculators for Palm devices

Message #4 Posted by [Marx Pio](#) on 22 Apr 2001, 10:51 p.m.,
in response to message #3 by Dale Richmond

My Cassiopeia works with a MIPS 150Mhz processor and the HP Jornada works with a 133 MHz 32-bit Hitachi Processor. Marx Pio

Re: Calculators for Palm devices

Message #5 Posted by [Todd Garabedian](#) on 22 Apr 2001, 3:11 p.m.,
in response to message #1 by Jonathan

I don't use any Palm or PocketPC device. I use a Psion Series 5mx, which is powered by the EPOC operating system. There is an excellent RPN calculator for that platform, called dCalc, written by a computer programmer in Australia. I use it all the time, and it's just like the HP calculators of old!! I love it!

You can look at it here:

<http://users.bit.net.au/~bhepple/dcalc/psion/>

Best of luck,

Todd

Re: Calculators for Palm devices

Message #6 Posted by [Jan](#) on 1 May 2001, 6:15 a.m.,
in response to message #5 by Todd Garabedian

Excellent advice. I bought it and it works really very well on my 5mx. Now I do not have to carry a separate HP calc with me all the time. Thanks. Jan

Re: Calculators for Palm devices

Message #7 Posted by [shinji-ben](#) on 22 Apr 2001, 10:51 p.m.,
in response to message #1 by Jonathan

Try MathU Pro 2.0.9 by Creative Creek (www.creativecreek.com). This is a RPN programmable scientific and financial calculator for the Palm Platform.

I've tried it and found it to be very good indeed!

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Re: HP 200 LX

Message #1 Posted by [Philip Reagan](#) on 21 Apr 2001, 9:47 p.m.

Check out www.palmtoppaper.com and www.palmtop.net.

Lot's of good stuff there.

Re: HP 200 LX

Message #2 Posted by [Walter L. Lockhart](#) on 23 Apr 2001, 3:06 a.m.,
in response to message #1 by Philip Reagan

Thank you for the information. Walterwalt

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HP41 GMAC module

Message #1 Posted by [Hugh Wong](#) on 21 Apr 2001, 10:56 a.m.

I recently purchase two 41cv(s) which does not work. However, it came with two GMAC (General Motors Acceptance Corp.) financil modules which probably come from a General Motors dealership. This financial module works something like TVM on my other HP41. Does anybody have any manual for it ? Is this module a HP41 standare accessory ?

Re: HP41 GMAC module

Message #2 Posted by [Y. Samuel Arai](#) on 21 Apr 2001, 4:49 p.m.,
in response to message #1 by Hugh Wong

I think that's a custom module given to GM dealers to calculate financing rates/payments, before they all got upgraded to PCs. It probably did come with a customized manual for the dealers as well.

Re: HP41 GMAC module

Message #3 Posted by [Jerry Doctor](#) on 23 Apr 2001, 10:25 a.m.,
in response to message #2 by Y. Samuel Arai

Back in 1985 I purchased a Pininfarina Spider (Upscale Fiat 124 Spider sold in the US after Fiat pulled out.) from the local Buick dealer. The dealer had picked up the Pininfarina line and thought he was going to be the sports car king of Omaha, Nebraska. (Funny thing - no one came into the Buick dealer looking for sports cars!) Anyway, as we negotiated price, he used his HP-41C with the GMAC module to figure the monthly payment. It seemed too high so I pulled out MY HP-41C with the PPC module and calculated a much lower payment. The rather surprised salesman said he had "assumed" I would also want the credit life insurance! <g>

Dueling module

*Message #4 Posted by [Steve \(Australia\)](#) on 23 Apr 2001, 5:52 p.m.,
in response to message #3 by Jerry Doctor*

Ahh, the PPC Dueling module :-)

(HP 41C's at 10 paces)

Re: HP41 GMAC module

*Message #5 Posted by [Hugh Wong](#) on 24 Apr 2001, 10:17 p.m.,
in response to message #3 by Jerry Doctor*

Who's a car salesman here ? My GMAC module may worth a lot of money to you. Yes, from the key templet, I can see it has build in Life insurance programs. Contact me for these GMAC modules. I garantee you easily make all your money back.

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Re: HP printer

Message #1 Posted by [Hugh Wong](#) on 20 Apr 2001, 7:21 p.m.

Thank You Dave

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HP Calculators - not what they should be !

Message #1 Posted by [Dean L. Miller](#) on 20 Apr 2001, 1:28 p.m.

What is HP doing? The 6S and 30S are cheap TI imitations. The 49G is not expandable (like the 48GX). It's like the people who were in charge of creating and developing calculators at HP suddenly became brain-dead!

HP needs to create a new calculator (maybe a 50gx or 52rx) with RPN and algebraic (similar to the 48GX), with 5MB of memory, backlit super crisp screen, much faster processor, able to read PC cards, infrared port, USB port, and maybe a "hot-sync" type cradle for PC connection.

Anyway... I have many HP calcs (old and new and sometimes more than one): 10c, 11c, 12c, 15c, 16c, 27s, 42s, 45, 41c, 41cv, 41cx, 71b, 17b, 951x, 1001x, 14b, 10b, 32s, 32sii, 38g, 6s, 30s, 21s, 22s, 34c, 38c, 33c, 25c, 20s, 8c, 28c, 28s, 19bii, 48gx, and 48sx.

I have many other TI, Sharp, and Casio calcs too.

I remember buying an 11c when it first came out. I thought it was the "Mercedes" of calculators.

And when I got a 41cx (cost about \$200 at the time) I was thrilled to death! It was the coolest calc I ever saw.

I just don't get that same feeling anymore when I look at the calculators on the market today. Maybe it's the use of computers and Palm Pilots that has diminished the impact of new calculators. But, I think it's that new calculators have nothing unique or surprising anymore. Have we seen everything there is? I think not!

So, HP, get off you lazy butts and listen to the users of your calculators, and stop imitating the competition.

Re: HP Calculators - not what they should be !

Message #2 Posted by [Dave](#) on 20 Apr 2001, 2:41 p.m.,
in response to message #1 by Dean L. Miller

The calculator business is not what it used to be....

Re: HP Calculators - not what they should be !

Message #3 Posted by [db \(martinez, california\)](#) on 20 Apr 2001, 8:20 p.m.,
in response to message #2 by Dave

the 32 is not bad for what it is.

Re: HP Calculators - not what they should be !

Message #4 Posted by [Jonathan](#) on 20 Apr 2001, 11:55 p.m.,
in response to message #1 by Dean L. Miller

I think where the problem lies is that HP IS making good calculators, unfortunately they're NOT putting priority in the scientific calculators. Their financial calculators are pretty nice (and use the classic casing). At least we have the 32sii, but it's no 42s or 15c. The 48g series have great functions, but they're too bulky, slow, and fragile. I want to see something solid like the 15c. If they use that casing for their financial models, why not the scientific?

Re: HP Calculators - not what they should be !

Message #5 Posted by [Glynn](#) on 21 Apr 2001, 2:13 a.m.,
in response to message #4 by Jonathan

Just some random musings:

Financial calcs are pretty well-defined. Even when you think of ALL potential users and uses, you can STILL come up with a set of functions that pretty well please the lot. Indeed, that's what HP did years ago-- and why the dang things still sell after all this time.

Sci uses and users are more slippery. Each niche of the scientific market is small and sees needs and roles for their tools other niches do not. Some require graphing; others heavy matrix manipulation. Some want data-logging; others low power. PC communication for a few; programmability for most; lots of embedded functions and conversions for others. Programmers and surveyors and nuclear-reactor specialists and math teachers do not all desire the same calc. But they ALL want it cheap and easy to operate.

(How cheap and how easy? Now THOSE things can be pinned down. Because you don't

operate in a vacuum. If Palms can sell for \$150, a utilitarian "sci" calc can't sell for \$250 and come with an inch-thick binder of programming instructions. Not anymore.)

Back in the day, HP VERY nearly accomodated everyone they could have, especially with the protean 41 series. It was NOT cheap, but still sold well, up until alternatives like full computers were attainable by the professional crowd.

The 41s and 71s and so on could be made to do ANYTHING, with enough effort. But this is no longer a selling point. Indeed, the Palms and laptops have made this moot.

So calculators, by which I mean handheld button-based computing devices, might well have evolved into MORE SPECIALIZATION... an educational/theoretical calc, a surveyor's calc, a programmer's calc, an astronomer's calc....

And some of this has come to pass, in a limited way. But a specialized calc has such a small market, by itself, it may well not pay for its own development. (This is, in my opinion, where Xpander got sniffed. The Product development group says yes, this is good technology that people will love us for. Marketing says no, it won't sell to enough people to be worth making, and we're not working for love.)

Some smaller companies, not needing so much volume, are in fact marketing such things as Surveyor's calcs and Astronomer's calcs. But you the consumer pay high prices to make up for low volume.

It's been obvious for some time that HP has de-emphasized development of new "sci" models, in favor of following the large and proven market for student and "swiss-army" tools: replete with built-in functions to attract the casual calc user, but not really expandable or utilitarian as the 41 series was. But within a student's budget, or as an impulse purchase in a WalMart or a BestBuy.

Hmmm, "swiss-army" calcs made cheap and comfortable for mass marketing-- that's what HP is possibly aiming for. Looks like they are doing it as well as they know how.

That they abandoned a tiny demand for well-built but expensive professional tools... well, lament it, but as Dave said, the calculator market is not what it used to be, and if HP brought out a calc that cost like a Palm but didn't offer all the same amenities for its size, and still had to be expanded to serve a part of its audience, well...

You'd have in fact a 48GX, and expect to serve your diverse audience with vertical-market Application Modules, which you would expect to develop over time.

If THAT methodology bombs in the marketplace, you'd timidly stick to whatever the largest

identifiable mass market is buying. You would make a 6s, for example. And a 39G.

And a packload of your hoary-old financial calcs, which still bring home their bacon.

As I say, just some musings. Nite-nite. :-)

Re: HP Calculators - not what they should be !

*Message #6 Posted by [Nick](#) on 21 Apr 2001, 12:36 p.m.,
in response to message #5 by Glynn*

I can understand HP not developing new calculators. But why discontinue a very popular calculator like the 42s? Or are they so popular because they aren't being made anymore? Hmm... I wonder if anybody has information on whether HP42s sales were down the year they discontinued the calculator.

Re: HP Calculators - (times change)

*Message #7 Posted by [Bryan](#) on 21 Apr 2001, 11:16 p.m.,
in response to message #1 by Dean L. Miller*

I think HP is fighting for a share of a market that has changed. The demographic that they used to cater to was the scientist, engineer and college/grad students in those fields -- that group has, in the main, abandoned the hand-held calculator in favor of the readily available and more user friendly software on personal computers.

Sure, we all still grab for our old favorites (the 41 or 42) when it comes to some simple number crunching.....when we put it back into the desk drawer, we experience a bit of a "blast from the past" and remember fondly our first calculator programs and how much easier these great tools made our work.....

But when it's all said and done -- for the big jobs -- it's time to put the PC to work.

NOW -- today's calculators -- the 49G.

Without a thought, I grab the 49G for things I'd have spent hours programming a calculator to do back in 1980's. We take that for granted sometimes. I admit, it lacks the old HP styling -- I wish they'd done anything BUT made it new-wave blue and moved the ENTER bar. Bottom line, though, it and the 48 series do more out-of-the-box (no programming) than any of the old calc's I hear lamented here. The hours spent programming Taylor series expansion algorithms and other time-saving functions....they're there for you at the press of a button.

Analogy: The muscle cars of our youth give way to mini-vans and pick-up trucks. A few

cherished history-pieces sit in the garage awaiting the weekend drive. One can't help lament the passing of 'the good ol' days'. So to, the land of HP calculators. Maybe that's why we visit this museum...?

~Bryan

Re: HP Calculators - (times change)

*Message #8 Posted by [Marx Pio](#) on 22 Apr 2001, 11:30 a.m.,
in response to message #7 by Bryan*

HP calculator dept. has suicidal tendencies... So, like chess playing, it's my move and I moved to WinCE platform. HP Calculators should be kept for our personal museum. B. Dylan said sometime ago, "the times they are a-changin'". Marx Pio

Re: HP Calculators - not what they should be !

*Message #9 Posted by [Ion Abraham \(New Mexico USA\)](#) on 22 Apr 2001, 7:46 p.m.,
in response to message #1 by Dean L. Miller*

Hello,

I just thought I'd throw in my two cents worth. I agree with pretty much everything the other people have been saying in response to this posting, especially Glynn's well thought out musing.

I'd just like to point out that HP isn't the company it used to be. Consider the fact that they recently spun off their entire test and measurement division, and gave it the silly name of Agilent (all it suggests is agitated slowness to me, but nevermind). HP is now basically a computer and printer maker for the slightly upscale mass market. It would not surprise me if they somehow divested themselves of the whole calculator division altogether.

It's sad, but hey that's business. What the suits decide really can change a company in fundamental ways. I agree with Glynn that HP no longer makes the hardcore professional tools that used to be the pride of the company. It started when they went from EduCALC to OfficeDepot, but don't get me started on that rant.

They'll have to pry my 41CX "from my cold dead hands."

Cheers,

Ion Abraham Albuquerque, New Mexico

Re: HP Calculators - not what they should be !

*Message #10 Posted by [db \(martinez, california\)](#) on 22 Apr 2001, 9:37 p.m.,
in response to message #9 by Ion Abraham (New Mexico USA)*

dam little is made like it used to be. thats the way it is. has anyone else seen the RetroCalc Programable Calculator site? he sounds like he is doing what Glynn and others were discussing and building the perfect beast. mabye you tech types should all get together and do it so i can buy one. or two. and if you need someone in the testing dept (lets see if this can survive a real bonehead using it), just call.

Re: HP Calculators - not what they should be !

*Message #11 Posted by [GE](#) on 23 Apr 2001, 6:34 a.m.,
in response to message #10 by db (martinez, california)*

Regarding the HP42S, I read somewhere that their sales plummeted at the end of the life of the product. Actually, I bought my HP28S only 6 months after getting the 42, and the 28 was such a new and powerful concept at the time that I felt cheated with the poor little 42. Fortunately, the bin and my wallet were full then. Probably the same happened to many, and the 42 had to fight uphill with gorgeous, large-screen, symbolic capable machines from HP itself.

Regarding the newest machines, keep in mind the incredibly low list price of the 6 or 30, to keep things in perspective. Yes, low-end and cheap, but the price is right.

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HP12C Case + Handbook

Message #1 Posted by [Thierry Allender](#) on 20 Apr 2001, 2:49 a.m.

I bought last week an old HP12C with any case and non handbook. Do somebody know how I could find that (case & handbook or copy). Thanks.

Re: HP12C Case + Handbook

Message #2 Posted by [Todd Garabedian](#) on 20 Apr 2001, 8:46 a.m.,
in response to message #1 by Thierry Allender

Since the 12C is still made, you can order a case and manual from HP directly. Their parts telephone number is 1-800-227-8164 in the US.

Re: HP12C Case + Handbook

Message #3 Posted by [Th Allender](#) on 2 May 2001, 4:23 a.m.,
in response to message #2 by Todd Garabedian

For the case, I phone to the detailer in France, and they didn't have it. So I'm still looking for a solution. For the manual, the cost by HP is about 35 \$ (in France), and I pay less than 30\$ for the HP... so I'm looking a lower solution. If you have some ideas, I am still interested...

regards

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MAGNETIC CASSETTE READER

Message #1 Posted by [Samir Mehta](#) on 20 Apr 2001, 12:45 a.m.

Dear freinds,

Please tell any of you would like to sell magnetic cassette (which is same as audio tape) reader or recorder to me.

Waiting for your quick response,

with best regards,

Samir Mehta

Re: MAGNETIC CASSETTE READER

*Message #2 Posted by [Steve \(Australia\)](#) on 20 Apr 2001, 7:16 a.m.,
in response to message #1 by Samir Mehta*

Wanted items really belong in another place, but...

You're not particularly clear about what you want.

The only things I can imagine are the Digital Cassette drive for the HP-41 / HP-71 or perhaps the drives for the earlier 98xx series devices.

Maybe if we can establish exactly what you want, you can go and place an advertisement in the appropriate place :-)

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HP41cv

Message #1 Posted by [Hugh Wong](#) on 19 Apr 2001, 11:18 p.m.

I recently won (bad luck?) an auction on two HP41cv(s), the seller claims one works 100% and the other one dead. However, when I got them, one works partially and one doesn't at all due to battery terminal corrosion. I repaired the terminals and hard wire the PC board to the keyboard and both of them partially working, however, after a minute or two the display became auto flickers and it display Chinese characters even I cannot understand. So I searched the Forum for answers and resetting, shorting the battery terminals, shorting the whole pc board with tin foils, strangely, after shorting it with tin foils, both calculator will work longer, like two to ten minutes, I even can do a TVM with an ADVANTAGE module plugged in but only for a few minutes. I notice the Museum has a CD set which has a HP41c "service manual" is that similar to the 41cv ? Can anybody help ?
play became auto

Re: HP41cv

Message #2 Posted by [Ion Abraham \(New Mexico USA\)](#) on 20 Apr 2001, 9:27 a.m.,
in response to message #1 by Hugh Wong

Dear Hugh,

I've been down this road, not very successfully, so here is what I know so far.

I have the service manual, and yes, the service manual does also apply to the CVs, although more so if they are Fullnuts (rectangular screens). However, I don't think the manual will be very helpful in diagnosing the sort of problem you are describing, which I also have seen before. On the other hand, the manual does provide schematics, if you want to get that far into it, which I haven't yet.

It's really interesting that the units work longer after you short the terminals. It's my personal suspicion that this sort of problem is caused by a bad/old component, like a capacitor. I don't have any evidence for this, except that this is the only way I can think of to explain the sort of behavior you are describing.

I don't know how much this helps, but please post if you are able to make any progress.

Best regards,

Ion Abraham Albuquerque, New Mexico

Re: HP41cv

*Message #3 Posted by [db \(martinez,california\)](#) on 20 Apr 2001, 2:11 p.m.,
in response to message #2 by Ion Abraham (New Mexico USA)*

hugh; ditto on what steve says. plus - do the tin foil thing and let it sit for a week unpowered, then try it. the next step is to do it and wait about 6 months. also, thoes dozen or so tabs that connect to the bottom rear of the screen can come loose but still touch and look connected. they will give you conji if they are not soldered. gently pull on each to see if it is still tight. this doesn't sound like the answer but since you've got it wide open and it's easy, it's worth a try. good luck.

Re: HP41cv

*Message #4 Posted by [Hugh Wong](#) on 20 Apr 2001, 3:39 p.m.,
in response to message #3 by db (martinez,california)*

Thank Ion and Mr. Martinez,

I guess if the tin foil trick does not work next week - I'll have to wait 6 months by that time I'll brush up my chinese and talk to HP also.

I faintly remember when I first purchase a HP41cv 15 years or so ago, they always have reset problems. It might be the static memory they first designed has a discharge problem. Ion, if you can share the service manual, I can send you some money for deposit and later return your manual. Or if you can scan me a copy of the schematic and email me or put it on the website. There are hardly any components on the CPU circuit board. Are the components generally replaceable? It's such a shame that we are not able to fix it. By the way, I already replaced the two electrolytic capacitors. I also want to tell you that both calculators act similarly and that's so unusual.

Re: HP41cv

Message #5 Posted by [stefan \(sweden\)](#) on 21 Apr 2001, 2:43 p.m.,
in response to message #4 by Hugh Wong

Hi Hugh As you can see at the forum 4 april I have similar problems with my Cx. Mine was modified for higher speed, one extra capacitor and a reed relay. I removed the extra capacitor and the relay. The result was that the Chinese sign changed and became stable and faded out after a while. Now to my question. You had TWO capacitors in the CPU. Is your CV modified too? or where is the second capacitor situated. And finally what is the value of the resistor? stefan

Re: HP41cv

Message #6 Posted by [Hugh Wong](#) on 21 Apr 2001, 7:44 p.m.,
in response to message #5 by stefan (sweden)

I don't think my CPU board was modified. The two capacitors are 470 uF, 100 uF. They are mounted hanging out the circuit board where the PC board was notched out to accommodate the components. Mine 41CV(s) are identical and displayed the same problem. Mr. Ion Abraham furnished me with a HP41C service manual and now I may be able to identify the problem.

Re: HP41cv - Schematic

Message #7 Posted by [Dan M \(New England, USA\)](#) on 21 Apr 2001, 7:49 p.m.,
in response to message #6 by Hugh Wong

You may find a version of the 41C Schematic at Warren Furlow's excellent web site:

<http://www.hp41.org>

Look for "Reference" and then "Hardware," towards the top of the page.

Or, more specifically, try this link (but don't forget to check out the rest of the site)...

[http://doc.hp41.org/doc/Download.cfm?
Command=View&Class=HP41&DownloadID=35](http://doc.hp41.org/doc/Download.cfm?Command=View&Class=HP41&DownloadID=35)

Many thanks to Warren Furlow for creating this site, and to Reinhard Breuer for re-drawing the Schematic

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HP-01

Message #1 Posted by [Steven Sparrow](#) on 19 Apr 2001, 12:13 a.m.

I am trying to replace the case on my HP01 with another case I recently acquired, but don't have the required tools to dismantle the interior of the watch.

Does anyone have such a tool to sell, or possibly point me in the right direction?

Thanks in advance

Steven Sparrow

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Palm m505 handheld

Message #1 Posted by [Dane](#) on 18 Apr 2001, 8:39 p.m.

Has anyone seen the new palm? the "expansion card" looks suspiciously like a HP41 module. Check it out <http://www.palm.com/products/palmm505/>

Re: Palm m505 handheld

Message #2 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 19 Apr 2001, 8:29 a.m.,
in response to message #1 by Dane

It may look like, but the technology changed so much in the last 20 years that it is almost sure that capacity, architecture, signalling, voltage levels, clock speeds, etc. are very different! (An HP 41 memory module holds about 500 bytes of memory and costed about U\$S 50; a current FlashCard will held some 50.000.000 bytes at the same price).

Re: Palm m505 handheld

Message #3 Posted by [Joe Evans](#) on 19 Apr 2001, 8:32 a.m.,
in response to message #1 by Dane

Yeah, it does! There MUST be some conspiracy! We better get Scully and Mulder on the case right away!

Seriously, so what? Compact Flash cards look like HP41 modules too. What's the big deal?

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Need 4,000 Texas Instruments Calculators?

Message #1 Posted by [Gene Wright](#) on 18 Apr 2001, 4:43 p.m.

<http://cgi.ebay.com/aw-cgi/eBayISAPI.dll?ViewItem&item=580213536>

Bizarre thing is he still wants \$5 each for them. I'd expect a bigger discount!

4000 TI calculators...wow

Re: Need 4,000 Texas Instruments Calculators?

Message #2 Posted by [Dane](#) on 18 Apr 2001, 8:33 p.m.,
in response to message #1 by Gene Wright

I have one, I was caught without a calc and picked it up at Wallyworld, I'd sell the one I have for \$4

Re: Need 4,000 Texas Instruments Calculators?

Message #3 Posted by [Marc](#) on 19 Apr 2001, 3:07 a.m.,
in response to message #1 by Gene Wright

Boy,

what are the costs to recycle 4000 Calculators ?

Marc

Re: Need 4,000 Texas Instruments Calculators?

Message #4 Posted by [Randy Smith](#) on 20 Apr 2001, 4:12 p.m.,
in response to message #1 by Gene Wright

I just wonder where he found them all.

Re: Need 4,000 Texas Instruments Calculators?

Message #5 Posted by [db \(martinez, california\)](#) on 20 Apr 2001, 4:35 p.m.,
in response to message #4 by Randy Smith

randy; where else do you find 4000 ti's? dumpster diving.

Re: Need 4,000 Texas Instruments Calculators?

Message #6 Posted by [Glynn \(having fun\)](#) on 21 Apr 2001, 12:36 a.m.,
in response to message #5 by db (martinez, california)

Sometimes you get lucky dumpster-diving, too... ;-) I know *I* am not above taking a rib-bruise for the right piece of gear! ;-)

But since we are speculating anyway, let's guess that "facemd" is a specialist in maxillofacial surgery. He does charity work down in third-world countries where children's cleft palates often go uncorrected until volunteer docs can attend to them. As he does his charity, he finds another charitable organization ready to dump a stock of educational tools (the TI's) because they can't appropriately use them in village school settings. He offers to take them off their hands, knowing that back in the states they may fetch enough money to pay for badly-needed medical supplies and water-treatment or perhaps paying for the airlift of a particularly difficult case to an urban hospital where a prolonged rebuild can make functional, a human baby whom others may have seen as a hopeless punishment on their family. Thus even a TI can have merit...

Or maybe "facemd" works in the San Diego docks and the 4000 TIs he displaced from the shipment made room for whatever needed smuggling or disposing of.... Yes, maybe the "Face Doctor" got his name not from a diploma, but by practising his handiwork on stool-pigeons and those who got too close to the Asian pipeline where he stands guard at one end... but part of his payoff is in the import goods diverted to make way for the "real" goods. He only sells them after the "heat" has worn off the merchandise...

Either way, if he's looking for someone with a hankering for 4000 of the same calc to pop up with 20K, we can surmise he is either in no particular hurry to liquidate this stock "fire-sale"-style, or he needs a lot of cash with minimal fuss; he doesn't want to operate a business of selling calcs. But some veteran eBay Power Seller will undoubtedly come along and then sell them one at a time for the next three years at \$10 each to unsuspecting calc newbies.

Yes, there are a million stories in this naked ebay.... :-D

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HP 25-C Repairs

Message #1 Posted by [Michael White](#) on 18 Apr 2001, 2:14 p.m.

Does anyone know any electronics shop that does repairs to HP-25C calculators? I called the Orlando repair shop and they will only replace the battery packs. My calculator has an electrical problem that I think is either in the charger cord or possibly the prongs that connect with the battery in the battery bay.

The symptoms are flashing digits on the screen or sometimes a dim 0 at the far right.

Mike

Re: HP 25-C Repairs

Message #2 Posted by [David Smith](#) on 18 Apr 2001, 10:26 p.m.,
in response to message #1 by Michael White

The flashing digits in an HP-25 display are almost always a symptom of a bad, missing or disconnected battery pack. DO NOT, repeat DO NOT turn on the calculator if you see this. It is very easy to fry these little puppies without the battery. The battery pack is used to filter and regulate the power to the circuitry and without it the innards can be destroyed in an instant. Your charger cord is probably OK. My bet is the battery pack or the connection to it. Check for corrosion first. Lightly sand the little rivets that touch the battery terminals and the terminals themselves.

Re: HP 25-C Repairs

*Message #3 Posted by [Steve \(Australia\)](#) on 19 Apr 2001, 7:47 p.m.,
in response to message #2 by David Smith*

It's worse than that.

Don't even plug the charger in. Even with the power off, power is applied to the calculator.

Try to find an external charger for the battery packs.

(And hope you've not killed it already)

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hp 41 case glue

Message #1 Posted by [db](#) on 15 Apr 2001, 4:50 p.m.

there was some discussion a while back about what glue to use when doing the wrap and glue repair on the screw posts. did someone try them and find the best choice? there is a tap plastics store in town so if you know a generic name that might be better than a brand name. ive got to repair mine and i only want to do this once. thanks

Re: hp 41 case glue

Message #2 Posted by [db\(martinez,california\)](#) on 21 Apr 2001, 2:50 p.m.,
in response to message #1 by db

to answer my own question, i auditioned glues at tap plastics and found two. after 18 years of faithful service i had dropped my first 41 onto the asphalt. to fix the cracked-in-three-places screw post i threaded an .80X20 metric nut over it to bring the pieces reasonably tight and used their "free flowing acrylic cement" which is thinner than water and has a real capillary thing going on. it just sucked right down into the now hairline cracks and fused them. the nut left thread marks in the post which were useful because then i did the old wrap with thin coper wire trick and used "ips corp. weld-on #16 clear thickend cement for acrylic sheet" to make the wire permanent. i also used it on the u shaped spacer with good results. three solders and a good cleaning later it worked better than before. but i don't want to drop it again. DAVE: can/should you addendum the names of the glue onto the end of someones (mabye stephan vorkoetter's) good repair directions? the stuf really worked great.

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HP9810A defect

Message #1 Posted by [Achim Buerger](#) on 15 Apr 2001, 1:47 p.m.

I have a HP9810A which is obviously defect: when switched on the display shows some nonsense symbols and some of the keyboard-LEDs are illuminated. The calculator doesn't respond to any keystrokes. Does anyone know this problem? The only abnormality I could find is that the 20V testpoint in the power supply gives only about 16V. Could somebody check this in a working 9810?

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82024A Adapter/Charger

Message #1 Posted by [Johannes \(Germany\)](#) on 15 Apr 2001, 7:32 a.m.

Hi,

Yesterday I ran into someone who seems to have various chargers/adapters (and only those!) for older HP-calculators in his basement. The one he had at hand was a 82024A (10V). Does anyone know, for what machine(s) this one was made for?

Thanks

Johannes

Re: 82024A Adapter/Charger

Message #2 Posted by [Todd Garabedian](#) on 15 Apr 2001, 6:01 p.m.,
in response to message #1 by Johannes (Germany)

I believe those are for the Woodstocks (HP-21, 22, 25, 25C, 27, 29C).

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HP 82164A question

Message #1 Posted by [Steve \(Australia\)](#) on 15 Apr 2001, 4:10 a.m.

Can I make the RS232 interface pretend it's a printer or otherwise print to this device?

Or send a program (LIST or otherwise).

Re: HP 82164A question

Message #2 Posted by [Reinhard Hawel](#) on 15 Apr 2001, 6:12 a.m.,
in response to message #1 by Steve (Australia)

From the 71B:

PRINTER IS :RS232

PLIST

Every PRINT command goes to the printer, every DISP goes to the display (DISPLAY IS :
<device>)

For removing these settings enter PRINTER IS * or DISPLAY IS *

Sorry, I can't help you from the 41s point of view. I'm a beginner on the 41 and will leave 41 tips to the experts (There are lots of them here).

Re: HP 82164A question

Message #3 Posted by [Hans Brueggemann](#) on 16 Apr 2001, 7:05 a.m.,
in response to message #1 by Steve (Australia)

steve, because the interface does not announce itself as a printer, the built-in printer functions of the 82160a assume that there is no printer on the loop. printing will work after issueing an XEQ 'MANIO' prior to printing, because this command tells the interface, that the user himself wants to handle the selection of the proper device on the loop. 'MANIO' will stay in effect until you reset the 82160a to its default state by XEQ 'AUTOIO'. if you have more than just the rs232 on the loop, you might need to address the rs232 manually by (x) XEQ'SELECT', where x is the loop address of the rs232, placed in the x-register of the stack.

cheers, hans

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HP48 3rd party cards

Message #1 Posted by [skip cons](#) on 14 Apr 2001, 9:31 p.m.

Can anyone tell me how or where I can purchase some of these complex 3rd party cards for a 48GX. Like, EE, ME, Physics, Spice, Navigation, etc. Thanks Skip Cons

Re: HP48 3rd party cards

Message #2 Posted by [Todd Garabedian](#) on 15 Apr 2001, 8:32 a.m.,
in response to message #1 by skip cons

These cards come up fairly regularly on ebay. Many are new and cost a lot less than the commercial vendors.

If you don't want to do eBay, one vendor who sells these is Samson Cables:

<http://www.samsoncables.com/catalog/prodByCat.cfm?category=Expansion%20Cards>

Good luck, Todd

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HP 75 Module simulator 82713A Battery

Message #1 Posted by [Dale Richmond](#) on 14 Apr 2001, 2:09 p.m.

I have an HP 82713A Plugin Module Simulator for an HP 75. The internal battery is almost dead and I have replaced the battery with a module that accepts lithium button cells (20 mm size). I have the polarity correct and was wondering the voltage of the original battery. I think that the correct voltage is 3vdc but I would appreciate a confirmation on this before I install the new battery. The battery is used to retain the volatile memory of the simulator. The numbers on the original battery are : 3440 4-0482 Thank you, Dale Richmond

Re: HP 75 Module simulator 82713A Battery

Message #2 Posted by [Peter Petersson \(Germany\)](#) on 15 Apr 2001, 6:50 a.m.,
in response to message #1 by Dale Richmond

It is a 3V Lithium battery. I replaced it with another 3V Lithium battery, and the device works fine.

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Woodstock keyboard repair

Message #1 Posted by [D. Banks](#) on 14 Apr 2001, 1:04 p.m.

Anyone know how to repair a Woodstock keyboard?

Strange. The 1 and 4 keys don't work, but all others do. Neither a complete row nor column, so I'm suspecting some crap that's physically messing with the keys.

In my zeal to get a working HP-22, I now have three in various states of function:

#1: Powers up, keyboard flakey but functional. Four function and stack work, but other RAM (storage and financial memory) don't work.

#2: Doesn't power up. Innards look like major pieces of the PCB etch were destroyed by battery leakage. Keyboard does seem to work in #3.

#3: Works great, looks great, except for the aforementioned 1 and 4 keys.

I can probably construct a good calc by taking the keyboard from 2 and putting it into 3, but 3's is in better cosmetic condition, and I really would like to keep these things original if I could.

Opening the things up, I note that #3 (1612Axxxxx) looks completely different from #2 (1611Axxxxx), even though the pinouts on the keyboard/processor board are compatible. FWIW, #1 is still another production run (1610Axxxxx), but I haven't had a look inside yet.

The keyboards on the two I looked at look like they're heat staked in about a million places, suggesting to me that repair options would be really limited.

Still, I figured I'd ask.

And, is it just me, or were the Classics the most reliable of the lot? Between the keyboards of the Woodstocks and the keyboards PC boards and battery terminals of the spices, it just seems like there's a big hole between the Classics and Voyagers.

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Strange HP-41 Display Problem

Message #1 Posted by [Mike](#) on 14 Apr 2001, 11:52 a.m.

I have an HP-41CV with a very strange problem. I cannot display A, B, or C in the Alpha register beyond the 6th character.

The characters (A,B,C) are saved, they just cannot be displayed beyond the 6th character. All other characters and even shift A,B,C work everywhere.

For instance, if I type the following: XXYYZZAABBCCDDEE

AABBCC do not show up until the last C pushes A into the first 6 character positions. As I continue to enter characters, eventually, AABBCC show up in the first 6 positions.

I thought it was a bad alpha register. But it seems strange that it would only dislike A,B,C and everything else is fine. Wierd!

Anyone have a clue what the problem is?

Re: Strange HP-41 Display Problem

Message #2 Posted by [Steve \(Australia\)](#) on 14 Apr 2001, 10:18 p.m.,
in response to message #1 by Mike

OK, you didn't get a response last time so, even though I haven't seen a similar problem, I'll see if we can work through some things...

Firstly, do you have an XFunctions module?

If so, try a program like this:

```
01 *LBL "TD"
02 .255
03 CF 28
```

```
04 FIX 0
05*LBL 01
06 CLA
07 1 E3
08 +
09 ARCL X
10 ATOX
11 RDN
12 1 E3
13 -
14 "+_____-" (Append 6 spaces then a -)
15 XTOA
16 "+- " (Append a -)
17 AVIEW
18 PSE
19 ISG X
20 GTO 01
21 END
```

This will display all characters in the 2nd last position of the display, with a dash on each side. The ascii code will be shown on the left of the display.

Does it only affect A, B, and C? or are other characters affected?

I expect at least one other character to show up as a blank :-)

Re: Well I tried it but...

*Message #3 Posted by [Mike](#) on 15 Apr 2001, 3:33 p.m.,
in response to message #2 by Steve (Australia)*

The program gave me DATA ERROR so I modified the program to do what you asked and found that the only characters that did not print in 7 and on were.

CHR's for 64 (@), 65 (A), 66 (B), 67 (C)

So, there was one other that did not print (besides space which was expected).

This is truly strange. In every way, the calculator works except that it cannot display these 4 characters after the 6th digit position.

Even entering XTOA by typing

XEQ ALPHA

shows: XEQ XTO

The 'A' is not displayed in the alpha register when even entering commands, but it is recorded internally because the instruction works properly.

More than strange.

*Message #4 Posted by [Steve \(Australia\)](#) on 15 Apr 2001, 7:39 p.m.,
in response to message #3 by Mike*

A data error? Where? Mine doesn't.

And I hope 32 also showed up as blank :-)

That's a VERY weird problem.

As a last resort I'd suggest opening up the calculator and looking for bad connections, but frankly, I don't see how bad connections could cause this.

The display of the HP41 is (from memory) controlled in 2 halves. Your problem is consistent with this in that only (and exactly) one half is affected.

The data in the alpha register is actually held in registers similar to the X, Y, Z, T, L registers, so it looks like they're OK and the problem is indeed a display one.

It also affects operations other than the alpha register, since entering commands XEQ "XTOA" are affected, and (I assume) also program listings displayed on the screen, but not the printer (they should print OK).

Re: I'll try printing...

*Message #5 Posted by [Mike](#) on 16 Apr 2001, 9:14 a.m.,
in response to message #4 by Steve (Australia)*

> And I hope 32 also showed up as blank :-)

That's why I said "(except space which was expected)"

> That's a VERY weird problem.

> and (I assume) also program listings > displayed on the screen, but not the printer
> (they should print OK).

I'll try printing. I suspect the problem is related to the connection between the PCB and the keyboard. I had a little problem, not that I think about it, making a good positive connection. Maybe that is where the problem lies.

Thanks

Re: Printing works fine

*Message #6 Posted by [Mike](#) on 17 Apr 2001, 11:55 a.m.,
in response to message #5 by Mike*

I'm beginning to think this is limited to the ability to display A, B, C only and affects nothing else. I'm going to try a different PCB connector tonight and see if that is the problem.

Thanks

Re: Printing works fine

*Message #7 Posted by [Steve \(Australia\)](#) on 17 Apr 2001, 7:45 p.m.,
in response to message #6 by Mike*

I thought it would.

When you have the unit open, also look closely at the connections between the main board and the display section.

Given that the display is probably like the rest of the HP41 and bitwise serial, AND considering there is no repeating pattern of missing characters, I'd suspect a faulty character generator ROM (If the HP41 actually had one!)

Good luck. Anything may work :-)

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41display

Message #1 Posted by [b.tokarczyk](#) on 14 Apr 2001, 8:41 a.m.

I have a 41cv with three bad lcd digits, what are my options for repair/part replacement to correct problem?

Re: 41display

Message #2 Posted by [Steve \(Australia\)](#) on 14 Apr 2001, 10:25 p.m.,
in response to message #1 by b.tokarczyk

Describe the problems.

Are they broken displays, or is the problem less dramatic?

The only real hope if the display is broken is to get another good display from an otherwise broken calculator.

Re: 41display

Message #3 Posted by [b.tokarczyk](#) on 15 Apr 2001, 7:37 a.m.,
in response to message #2 by Steve (Australia)

display is not cracked at all. The first, third, and forth digits have missing LCD segments on the numerals.

Is it possible to purchase a new display or the only 'part factory' is an existing model? Do I actually have to go to that extent or is there something simpler that should be checked first (loose contact ...)? There is no evidence of battery ooze and no indication of mistreatment.

Thanks, Bryan

Re: 41display

*Message #4 Posted by [Steve \(Australia\)](#) on 15 Apr 2001, 12:16 p.m.,
in response to message #3 by b.tokarczyk*

That sounds like a couple of bad connections to the LCD display.

However I have never dissassembled an HP41 to the extent that Itried to get at those contacts.

The last time I did that to anything with an LCD display, it never worked again. I have learned my lesson :-)

There may be others who learned in a different school though.

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Printer Paper for HP41 Thermal Printer

Message #1 Posted by [Y. Samuel Arai](#) on 14 Apr 2001, 4:15 a.m.

Does anyone know of anyplace where you can still buy thermal paper for the HP 82143A Thermal Printer for the HP41 series calculators?

Are there any thermal paper made for any other calculators/ cash registers etc that will work in this printer?

Thank you very much! :-) Sam

Re: Printer Paper for HP41 Thermal Printer

Message #2 Posted by [CJ](#) on 14 Apr 2001, 6:46 a.m.,
in response to message #1 by Y. Samuel Arai

<http://www.calcpro.com>

Under the (Hardware-Calculator) section. HP82175A - 6 rolls - \$16.95

Chris

Re: Printer Paper for HP41 Thermal Printer

Message #3 Posted by [Ty Rogers](#) on 14 Apr 2001, 10:50 a.m.,
in response to message #1 by Y. Samuel Arai

Check out this old post from Jan 2000 <http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/archv002.cgi?read=3130>

Re: Printer Paper for HP41 Thermal Printer

*Message #4 Posted by [katie](#) on 14 Apr 2001, 7:52 p.m.,
in response to message #3 by Ty Rogers*

I agree with Eric's findings, the NCR 2-1/4" thermal paper works great and is very inexpensive. In addition to Office Max, you can get it at Staples (on-line only) in rolls of 85' (perfect for the smaller printers - e.g., 82162, 82143, 82240A/B, 97) or 165' (perfect for the big machines - e.g., 9810, 9815, 9825). In all cases, I think that the print quality is better than HP's blue or black thermal paper.

Re: Printer Paper for HP41 Thermal Printer

*Message #5 Posted by [Y. Samuel Arai](#) on 21 Apr 2001, 6:53 a.m.,
in response to message #4 by katie*

Thank you everyone for your input. Now I can get some nice inexpensive paper from Office Depot for my calculator printer! Who wudda thot?!? :-)

Sam

Re: Printer Paper for HP41 Thermal Printer

*Message #6 Posted by [Felipe Hernandez](#) on 14 Apr 2001, 10:22 p.m.,
in response to message #1 by Y. Samuel Arai*

I think I have some , but let me check.

Felipe

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HP49 ROM update specifics???

Message #1 Posted by [Bryan](#) on 13 Apr 2001, 4:37 p.m.

Does anybody know if a list of specific upgrades/improvements/changes exists for each of the operating system upgrades available for the '49G? If so, where might I find such an animal???

While upgrading is always a good thing, I'd like to know what I'm getting before I install it! Specifically, what deficiencies were noted in the earlier loads and how were they corrected in subsequent loads?

In advance - thanks!!!

~Bryan

Thanks to Carlos @ www.area48.com

Message #2 Posted by [Bryan](#) on 23 Apr 2001, 1:28 p.m.,
in response to message #1 by Bryan

Hello Bryan,

I found these notes from the ROM 1.18, i.e. it is a text that comes together with the ROM 1.18. It seems to be the only source of information.

I also wrote a mail to some mail lists. Lets hope to see if someone can help.

Below the text form the ROM 1.18 notes

Sincerely,

CMarangon

=====BEGIN OF THE TEXT===== HP 49G
ROM 1.18 Release Notes

What's new from Release 1.16:

Holding [BackSpace] during Boot Sequence will put the calculator in safe mode. User libraries will be completely ignored unlike previous version. STARTUP will also be ignored if [BackSpace] is held after the MetaKernel logo appearance.

Switch between complex to real mode from the keyboard (press and hold down LeftShift and then [TOOL]).

Decompiler now fully compatible with HP48 (DECOMP\$).

Kermit in ASCII mode handles \"

EQW allows input from the constants menu

EQW returns valid object for oo (infinity) and ? (NaN)

Filer doesn't crash when launching library commands < #140

Program << "" "" INPUT >> doesn't crash when launched from the Filer

MASD allows expression GOSBVL =label

MASD allows in sysRPL \$ "string"

CAS correctly handles ATAN(X) with the INTVX command

PLOT(X) LeftShift F6 LeftShift F5 ENTER fixed in algebraic mode

Numerous bug fixes

What's new from Release 1.10:

PORT1 memory management changed to fix problems with library in port 1.

HP48 MES (Multiple Equation Solver) is now integrated and available through menu 116 (same as HP48).

SysRPL decompiler is now integrated using the ->S2 command. ASM and ER are now available in library 256; you no longer need to attach library 257. System RPL stack is available

if you set the flag -85.

All functions related to SysRPL require that you first install the entry points library (a new version is included with the ZIP file)

STO has been modified to work with low batteries and the flash -- the function is now slower because of temporary storage.

SIZE returns the number of digits for an integer instead of 1.

Symbolic series: SUM(I=1,N,I) will return $(N^2+N)/2$. Implementation of gamma, digammas etc. functions.

New Y= window: You can now create your own user functions and combine functions together like $Y2(X)=Y1(\sin(X))$.

Switch between approximate and exact mode from the keyboard (press and hold down [RightShift] and then press [ENTER]).

New power algorithm: 3^{1000} takes less than 2 second now.

User RPL optimization: 1 1000 FOR I NEXT is now much faster. Binary functions related to integers are also faster (+,-,*,/,^,NEG, INV, SQ).

STARTED and EXITED can customize the command line editor.

Complex matrices are now displayed in textbook mode.

It's now possible to transfer the ROM of an HP49G to another one using the ROMUPLOAD command. You can also control another HP49G using the Xmodem protocol with a new Xmodem server, XSERV: Put the calculator in Xmodem server mode No Inputs/outputs

The Xmodem server recognizes the following commands:

P: Put a file in the calculator G: Get a file from the calculator E: Execute the command line M: Get the calculator memory L: List the files in the current directory

XGET: Get a file from a XModem server Input: the name of the file to get (a global or local name)

XPUT: Put a file in a XModem server Input: The name of the file to send (a global or local

name)

ROMUPLOAD: Put the calculator in ROM upload mode. When in ROMUPLOAD mode, the calculator acts like the FDP program, allowing another calculator to upgrade its ROM. (The speed must be 9600 bps for a ROM upgrade)

MASD is in the ROM; attach the library 257 to use it. You will also need the extable library in order to use the mnemonic tables. The SystemRPL stack is not finished.

Numerous bug fixes

=====END OF THE TEXT=====

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Max ram on a 71B

Message #1 Posted by [Steve \(Australia\)](#) on 13 Apr 2001, 11:50 a.m.

Just for the fun of it I inserted 1x128K and 4x32K modules into a 71B and it now reports 279040 bytes of RAM.

I was under the impression previously that with the 128K module inserted that you couldn't add further RAM.

Obviously I was wrong.

How much memory can this device handle?

I note that the address space is 512kB.

Oh, and it seems to take longer to turn on now too :-)

Re: Max ram on a 71B

Message #2 Posted by [Peter Petersson \(Germany\)](#) on 13 Apr 2001, 12:55 p.m.,
in response to message #1 by Steve (Australia)

Hi Steve,

You can add one more RAM module in the IL slot, it has the same connector than the front slots, and can be used for additional RAM.

WOW!

*Message #3 Posted by [Steve \(Australia\)](#) on 13 Apr 2001, 7:38 p.m.,
in response to message #2 by Peter Petersson (Germany)*

MEM now reports 311781 bytes!

Did HP71b's ever get made without HPIL interfaces?

If so, then I suppose I could find a blank plate that might cover the IL port with the 32K memmodule inside.

Otherwise it's really just an interesting curiosity.

Re: WOW!

*Message #4 Posted by [Peter Petersson](#) on 14 Apr 2001, 5:34 a.m.,
in response to message #3 by Steve (Australia)*

The 71B was sold without the IL interface, it was a \$125 accessory! But I have no spare cover for You, sorry.

Re: WOW!

*Message #5 Posted by [Steve \(Australia\)](#) on 14 Apr 2001, 8:06 p.m.,
in response to message #4 by Peter Petersson*

Amazing. You know, I've never seen an HP71b *without* an HPIL interface!

Probably because they seemed here to be used by Government for mobile data capture and storage and thus needed the tape drive and printer.

Looking around in a box of bits I came across a cover!

Since I had never seen an HP71 without one I had never twigged that they were even removable! And thus I had not considered that the funny cover might fit somewhere :-)

Re: Max ram on a 71B

Message #6 Posted by [Reinhard Hawel](#) on 13 Apr 2001, 8:59 p.m.,
in response to message #1 by Steve (Australia)

I remember my max. was 320k once (I manufactured some memory expansions together with two friends more than 10 years ago).

There's no limitation besides the 512 k address space (and the position of the I/O addresses). There are the lowest 96k reserved for the ROM and memory mapped I/O purposes (I believe), so there are 416 k rest. I'd guess, I'm one of the 10 people in the world, who have ever seen the message ERR:Configuration .

This message means, there are too much modules inserted to be configured into the 71Bs address space.

BTW: just try to fill up all this memory with LEX files. The 71 will get unusable slow. There's a lot of poll handlers to be checked for every event occuring in the 71s OS.

Re: Max ram on a 71B

Message #7 Posted by [Chris Catotti \(Florida\)](#) on 16 Apr 2001, 4:05 p.m.,
in response to message #6 by Reinhard Hawel

I believe EduCALC use to offer a service where they would hardwire RAM modules internally in the HP-71, thus freeing up ports for ROM. If I recall, they could pigback or daisychain one to the next up to the maximum limit of ___?

If you are interested I could look through old catalogs, PPC Journals, or CHUU Journals until I remember what I think I read.

Re: Max ram on a 71B

Message #8 Posted by [Reinhard Hawel](#) on 16 Apr 2001, 5:50 p.m.,
in response to message #7 by Chris Catotti (Florida)

I believe they could hardwire 8 * 32k RAM into a HP-71B, so there was (in theory) place for an 128k card reader port module and 4 front port modules (together 128k).

These sum up to 512 kBytes and would surely cause an ERR:configuration together with the HP-IL module(16k), the I/O address space (32k ?) and the ROM (64k)

I have to search for my older EDUcalc catalogues.

I looked into my HP papers 5 seconds and found some younger catalogues (1991 and 1995).

There was no theoretical limit to the daisy-chaining method (yes, the plugin units were configured with software commands in the OS during startup code). An exception is the 48k Forth ROM (Assembler and Translator) where a 32k part was hard configured to #E0000 - #EFFFF. There was an additional 16k Soft configured part in the module.

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First Voyager

Message #1 Posted by [Juan J](#) on 12 Apr 2001, 10:41 p.m.

I just got an HP-15C in a flea market for some \$20. Aside from some scratches, it is in good condition. Bought it without batteries, so I installed fresh ones and was ready to go.

The little machine was made in the US in early 1985. I tested it using a favorite of mine, the sine integral. I noted that the time to calculate the integral varies with display format (the more digits, the longer it takes.) A number left in the y register appears to be the uncertainty of approach.

I think I read that calculation time depends on display format. How it depends? Is the algorithm similar to that used on the HP-41 Advantage Pac?

Re: First Voyager

Message #2 Posted by [Mike \(Stgt\)](#) on 19 Apr 2001, 7:14 p.m.,
in response to message #1 by Juan J

>> Is the algorithm similar to that used on the HP-41 Advantage Pac? <<

AFAIK: Yes, it is.

Ciao.....Mike

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HP-42S Colo(u)r

Message #1 Posted by [Chris Randle \(Lincoln, UK\)](#) on 12 Apr 2001, 3:33 p.m.

Hi. My HP-42S is a sort of dog-dump brown, but in the photo in the museum it looks black. Were there two case colours?

Re: HP-42S Colo(u)r

Message #2 Posted by [Marx Pio](#) on 12 Apr 2001, 5:43 p.m.,
in response to message #1 by Chris Randle (Lincoln, UK)

My 42 has the same dog-dump brown color too.

Re: HP-42S Colo(u)r

Message #3 Posted by [iqbal](#) on 12 Apr 2001, 7:24 p.m.,
in response to message #2 by Marx Pio

I had two HP42S put side by side. One was manufactured in 1993 if I remember correctly, the other in 1999. Both had a slightly different colour. One was darker, but I can't remember which one, and I sold the older one. I guess it would depend on who made it. I know the recent HP42S's were not made by HP but by a NatSteel Electronics for HP.

Re: HP-42S Colo(u)r

Message #4 Posted by [Matt Kernal](#) on 13 Apr 2001, 11:58 a.m.,
in response to message #1 by Chris Randle (Lincoln, UK)

I'm pretty sure the 48SX and the Pioneer series (22S, 32S, 42S, et al) are the same shade of brown. Assuming that is true, I remember the HP Journal covering the 48SX calling it "mercedes brown", which is pretty meaningless to me.

Your choice of words provides a crystal-clear, or should I say dog-dump brown, image! Thanks for the laugh.

Matt

Re: HP-42S Colo(u)r

*Message #5 Posted by [Thibaut](#) on 14 Apr 2001, 2:10 a.m.,
in response to message #4 by Matt Kernal*

As far as my eyes can see, the 48 (charlemagne) series is grey ?

Re: HP-42S Colo(u)r (Off Topic)

*Message #6 Posted by [Matt Kernal \(US\)](#) on 15 Apr 2001, 12:15 p.m.,
in response to message #5 by Thibaut*

The colo(u)r scheme used on the S series was changed when the G series was introduced.

You are correct about the G series being grey (with purple and teal green shift-keys and keyboard legends).

And if you look closely, the body colo(u)r of the S series actually is brown (with blue and gold shift-keys and keyboard legends).

Matt

ps. The common name we all use for the 48 series is "charlemagne", but HP (and this is really, really (trivial) trivia) changed the internal code name between the 48 S and G series. If you type the RULES easter egg (Happy Easter everyone!) on the G series, it contains the name "Alcuin". And according to the 48FAQ document:

"ALCUIN was the HP-internal code name of the HP48 G during development, because Alcuin was Charlemagne's teacher, and Charlemagne, as you remember, was the code name of the HP48 SX."

HP 48 "RULES" Easter egg...

*Message #7 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 15 Apr 2001, 3:20 p.m.,
in response to message #6 by Matt Kernal (US)*

Matt: Could you please explain about the RULES Easter egg? Thank you in advance. Andrés (HP 25/41C/42S/32sii/LX100/LX200 user who just bought an HP 48GX)

Re: HP 48 "RULES" Easter egg...

*Message #8 Posted by [Matt Kernal \(US\)](#) on 15 Apr 2001, 6:21 p.m.,
in response to message #7 by Andrés C. Rodríguez (Argentina)*

Andrés, if you just bought a "GX", you'll find gobs of info about it at the 48FAQ website. Dave has a link to it from here: <http://www.hpmuseum.org/links.htm#hp48>

Concerning the easter egg, just type RULES on the command line, then press ENTER. You'll see names of the HP design team arranged like a crossword puzzle. Here's more info: <http://www.engr.uvic.ca/~aschoorl/faq/48faq-4.html#ss4.2>

I'm not aware of any other easter eggs in the G series, but they were nice enough to include the MINEHUNT game (see: <http://www.engr.uvic.ca/~aschoorl/faq/48faq-7.html#ss7.8>)

Have fun, Matt

Re: HP 48 "RULES" Easter egg...

*Message #9 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 16 Apr 2001, 8:14 a.m.,
in response to message #8 by Matt Kernal (US)*

Matt:

Thank you for your comments. I had just found the RULES and I also visited the Minehunt game. The 48 G+ seems to be a not so bad calc (I used to criticize it, because I prefer my 42S), but it is still very hard for me from a programming point of view... I will try harder, and perhaps will adapt to it ...

Andres

Re: HP 48 "RULES" Easter egg...

*Message #10 Posted by [Ron Ross](#) on 16 Apr 2001, 11:18 a.m.,
in response to message #9 by Andrés C. Rodríguez (Argentina)*

Compared to a 42 the 48 is big and bulky, but it does have more, much more. However aside from the units and ability to perform multitudes of conversions, I would still favor the 42. However, if my 42 had those conversions, well....

Re: HP 48 "RULES" Easter egg...

*Message #11 Posted by [Juan J](#) on 17 Apr 2001, 11:40 p.m.,
in response to message #9 by Andrés C. Rodríguez (Argentina)*

Andrés:

The 48 programming model is different from that used by, say, the 41 series. However, it is useful to remember a simple rule: one object comes in, one object comes out. So it is a good starting point figuring out what you want from this point of view and then writing code.

Another subtlety has to do with branching and looping. Subroutines must be written as different programs; for loops there's a number of structures depending on what you need. Again, same principle applies: one object enters the loop, one object comes out.

A program with multiple options takes advantage of a CST menu where each option is entered separately and executed independently.

Have a some more tricks if you want. Drop me an e-mail if you are interested.

Re: HP 48 "RULES"

Message #12 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 19 Apr 2001, 8:22 a.m.,
in response to message #11 by Juan J

Juan: Thank you for your advice. I am rather busy right now, so I am not putting much time on the HP 48. I hope that in a few weeks I will be able to do my homework on it. Part of my troubles may seem to do with the fact that the HP 48 is sold in Argentina with an spanish language manual that I suspect is not as complete as a full US version. There is no complete list of all functions and the programmig chapter only addresses the looping constructs. Almost no examples are given...

I would like how to make a program that, say, does the following:

Initialization:

Main_Counter:=0; reset main counter

D:=0; reset accumulator

Upper_Limit:=10; set loop maximum iterations

Main_loop:

Input A

Input B

Calculate C:=A+B

Accumulate D:=D+C

Output C,D; formatted as "The answers are ";C,D

main_counter:=main_counter+1; increment main_counter

IF main_counter < upper_limit THEN main_loop ELSE stop; test main counter against upper_limit

I apologize for the example roughness, on purpose I have not used Do-While or For-Next just to make it a little more involved... I think such an example may help me to understand the differences between HP 41 and HP 48 programming.

Thank you again

Andrés

Re: HP 48 "RULES"

*Message #13 Posted by [Juan J](#) on 22 Apr 2001, 12:23 a.m.,
in response to message #12 by Andrés C. Rodríguez (Argentina)*

Andrés:

For some reason, programming was separated and put into another manual, the HP 48 Series Advanced User's Reference, known as AUR.

I am a little busy too but will spare some time for your program.
Hint: FOR...NEXT and START...NEXT use counters, while DO...UNTIL and WHILE...REPEAT use conditionals.

Will write back soon.

Re: HP 48 "RULES" - The Program

*Message #14 Posted by [Juan J](#) on 26 Apr 2001, 8:14 p.m.,
in response to message #12 by Andrés C. Rodríguez (Argentina)*

Andrés:

Sorry for the delay; I've been busy too. Here is your program:

```
<< 0 'D' STO 1 10 |Reset counter D and set up the loop START |
Begin the loop "A, B?" { ":A: (CR) |Prompt for A and B. (CR)
stands |for next line, :B:" {1 4}} |right shift [.] INPUT OBJ-> +
'C' |Transfer data to the stack STO C 'D' STO+ |Calculate A+B,
store in C, then |C+D and add to D "The answers are" |Set up
output message string C + ", " + D + |Add C and D (plus a space)
to |message MSGBOX |Show results NEXT >> |End loop
```

Note that a next line (carriage return, if you prefer) goes after :A:
This is a format procedure to present A and B in two lines and the
cursor in A; {1 4} defines the cursor position, right after :A: in
the fourth character of the first line.

After each iteration, a message box will show the answers. Press
[OK] to accept and continue. The program leaves the sum in D
and the sum of the last data pair in C.

Regards,

Juan

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HP- 41 Stat Pac manual

Message #1 Posted by [Jim Kimes](#) on 11 Apr 2001, 6:36 p.m.

Does anyone know where I can get a Stat Pac manual or a copy of one? I have the module and now need instructions on how it works. Thanks.

Re: HP- 41 Stat Pac manual

Message #2 Posted by [Billy Brossette](#) on 11 Apr 2001, 9:20 p.m.,
in response to message #1 by Jim Kimes

Jim, I have a manual. Contact me at Gramps@pnx.com

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looking for member ...

Message #1 Posted by [btokarczyk](#) on 11 Apr 2001, 12:04 a.m.

Iqbal M. e.mailed me, yet my responses bounce. Please contact again.

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41C Software Library

Message #1 Posted by [Mark Bowerman](#) on 10 Apr 2001, 8:58 p.m.

Has anyone found a way to upload the RAW/DAT files in the software library to the ttcalc HP41C Emulator?

Re: 41C Software Library

Message #2 Posted by [Dean Lampman](#) on 20 Apr 2001, 10:05 p.m.,
in response to message #1 by Mark Bowerman

YES .. we modified a card reader and put the 2 ttl outputs on parallel (LPT1:) input pins. THEN wrote a program that monitors each pin and reads both each time one changes state.

This is written to an .txt file where we use visual basic to change it.

PS we can read HP 65 cards on the HP41 card reader and then print flow charts and source listings.

ALSO. even when the 41 has a read error we can get all the data that is readable (HP41 wont load because of crc error)

Card Reader Mods

Message #3 Posted by [Steve \(Australia\)](#) on 21 Apr 2001, 3:33 a.m.,
in response to message #2 by Dean Lampman

Want to post more details?

I'm interested!

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HP 55 Bad Key Row

Message #1 Posted by [Ed](#) on 10 Apr 2001, 2:11 p.m.

My HP 55's last key row ("divide","0",".", "R/S") suddenly started acting like the Enter key row ("ENTER","CHS","EEX","CLS") Any suggestions?

Thanks, Ed

Re: HP 55 Bad Key Row

Message #2 Posted by [Erik Wahlin](#) on 11 Apr 2001, 12:49 a.m.,
in response to message #1 by Ed

It sounds like you have a short between the traces between those rows on the pcb board. I would take it apart and see if there is some contaminant causing the problem.

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MTBF formulae?

Message #1 Posted by [bill duncan](#) on 10 Apr 2001, 1:29 a.m.

Does anyone remember what the (simplified) formulas are for series and parallel MTBF's are? Are they basically the same as the formulae for capacitors? [Adding MTBF's in parallel in redundant configurations, and $1/(1/a+1/b)$??]

I realize that it can get a whole lot more complicated than that when taking MTTR into consideration etc. But I just need something simple to get some approximations (which they all are anyway)...

Thanks.

Re: MTBF formulae? (some interesting references)

Message #2 Posted by [bill duncan](#) on 11 Apr 2001, 12:34 a.m.,
in response to message #1 by bill duncan

It would seem that I was being a bit too simplistic. I was trying to remember something I'd seen in the seventies.

I've found a few interesting references on the 'net which others may be interested in. Actually, the whole website these are from is very interesting. Does anyone have any other references to MTBF and availability math?

"Failure Rates, MTBFs, and All That", <http://www.mathpages.com/home/kmath498.htm>

"Infinite Parallel Redundancy", <http://www.mathpages.com/home/kmath326.htm>

Check out the entire website. <http://www.mathpages.com/>

Not the same as the old mathworld site, <http://mathworld.wolfram.com/>, but very good reading.

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HPCALC.ORG ???

Message #1 Posted by [bill duncan](#) on 10 Apr 2001, 1:18 a.m.

I was checking hpcalc.org today, and the simple url: <http://www.hpcalc.org/> fails because it can't find a css file "/hpcalc.css".

But I started to check, and strangely the following: <http://www.hpcalc.org/index.htm> which I tried on a lark, points to some "NanoComp" homepage.

Odd... I'd just exchanged some emails with him last week on some ideas for improving his site...

Re: HPCALC.ORG ???

*Message #2 Posted by [bill duncan](#) on 10 Apr 2001, 9:10 a.m.,
in response to message #1 by bill duncan*

Back to normal...

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40g

Message #1 Posted by [Jim](#) on 9 Apr 2001, 4:57 p.m.

Does anyone have the details on the 40g for sale in europe. How does this compare to a 48SX.
Thanks in advance

Jim

Re: 40g

Message #2 Posted by [Mike \(Stgt\)](#) on 10 Apr 2001, 3:05 a.m.,
in response to message #1 by Jim

The HP-40G seems to be an the european version of the HP-39G

Ciao.....Mike

Re: 40g

Message #3 Posted by [Ron Ross](#) on 10 Apr 2001, 8:55 a.m.,
in response to message #2 by Mike (Stgt)

Yes, it is comparable to the 39G with the added functionality of CAS. It is Algebraic only and does not have an IR port.

Comparing to Hp48G+.

About the same price, might cost a little more to get from Europe.

48 has 128K RAM 40 has 232K RAM

48 has RPN and an enter key where it should be, with the standard good quality Hp keyboard.

40 has the 49 look and feel and is algebraic only, not selectable.

I suspect that programs are much better and more readily available and will always be so for the Hp48.

Units conversion and other necessary features are built in with the 48 (standard with a professional's tool) vs the 40 can handle nearly any math problem but lacks units conversions, Eq lib (seldom used, but when needed is there), and must be downloaded.

I have both a 39 and a 48 and even if the 39 had CAS (which is what the 40 has over the 39) I would still favor the 48 by a wide margin. In fact I have a 49 and I still favor my 48, (for two reasons, keyboard feel and keyboard layout)

Now if I were involved in heavy Matrix eq work or other high horsepower applications, I may switch over to the faster 49. (Maybe)

Re: 40g

*Message #4 Posted by [Roger Metcalf](#) on 13 Apr 2001, 2:15 a.m.,
in response to message #3 by Ron Ross*

I, too, have a 39, 48 and 49, and I got a friend who was travelling to buy me a 40 in Germany.

I still use the 48 most often.

Remember, even with the CAS, the 40 is still algebraic, and if you think in RPN, well.....

I really do like my 49 very much, but it hasn't quite convinced me to put away the 48 just yet.

Cheers, Roger Metcalf Arlington, Texas

Re: 40g

*Message #5 Posted by [jim](#) on 13 Apr 2001, 5:39 p.m.,
in response to message #4 by Roger Metcalf*

guess i will pass on the 40g and stick with the 48.. looking for a replacement 42s...
can't live with out a rpn machine.. thanks to all

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Water-logged HP-67 needs repair

Message #1 Posted by [Brad Tritone](#) on 8 Apr 2001, 9:57 p.m.

About 10-12 years ago I "lost" my HP-67 to an unfortunate accident at the office. I placed the 67 on top of its case in an office cabinet before going to lunch. When I shut the door, it must have pushed against something that punctured a pinhole in an aluminum can of Diet Sprite. It showered the 67 with the sticky liquid. The can was at the back of the cabinet and the 67 was at the front, but the mist obviously covered a broad area inside the cabinet. I don't think the 67 was plugged in, but upon my return I wiped the unit off and while still in shock turned it on to see if it would work. You can guess the answer.

At that time, I tried to see if HP would repair it, but the unit was no longer produced and they would not guarantee they would/could fix it. I think they wanted something like \$90 to take a look, and offered a 30% discount on a new HP if they couldn't. I didn't want to risk being without the calculator, and since a new HP42s was not much more, I decided to stick it back in the box where it has been until last night.

I finally got up the nerve to open up the case. Over the years I have read about ways to clean circuit boards but I have forgotten most of the details. I'm hoping that I can get some good advice in this forum.

The keys were still noticeably sticky and "crunchy", but I assume they can be cleaned with water. The keyboard circuit was covered by a plastic sheet that I'm hoping protected the area underneath the metal key strips, but this is unknown. The area that looks the most "suspicious" is directly under the LEDs and where the power on/off and program "switch" is. It looks like there might be some mild corrosion there. I'm hoping that the "CPU board" that is underneath the calc was untouched by liquid, but I'm not sure that that matters. I haven't looked at the card reader or motor yet.

Can anyone offer me some advice about how I might proceed? Tonight I'm going to test the power adapter to see if it will still function. One of the battery contacts in the battery compartment is badly corroded, but I didn't notice any corrosion inside the battery pack itself (haven't opened it). Can I modify this plastic case and install new NiCad batteries? Any suggestions here?

Or am I just wasting my time on this project? Am I virtually guaranteed to have a completely DOA

67 because I turned it on back then? Or do you think it would be worth my time/effort to clean it up and see? Is there a service manual or some simple diagnostics I might perform to see if some of the parts are electrically damaged?

Thanx in advance for any help. Brad

Placeholder for deleted post

*Message #2 Posted by [None](#) on 8 Apr 2001, 9:57 p.m.,
in response to message #1 by Brad Tritone*

Re: Water-logged HP-67 needs repair

*Message #3 Posted by [jeff br](#) on 11 Apr 2001, 9:34 p.m.,
in response to message #2 by None*

hi folks, if you use water to clean with, may i suggest distilled water. also, denatured alcohol can be a good cleaning agent. i have had success using a very soft toothbrush or a model paintbrush as tools. also a jewelers loupe is handy for inspections. don't break the magnetic reader head loose from the frame. i made this mistake and still haven't got it repositioned right. anybody have any suggestions on this?

Re: Water-logged HP-67 needs repair

*Message #4 Posted by [Mike Kritziotis](#) on 13 Apr 2001, 2:01 a.m.,
in response to message #2 by None*

The card reader of my HP-67 need's to be Repair. Can you Help?. Thank you in advance,

Mike

hp67 card reader repair

*Message #5 Posted by [jeff brown](#) on 15 Apr 2001, 8:56 p.m.,
in response to message #4 by Mike Kritziotis*

my only experience in card reader repair is very limited, but what is yours doing and not doing?

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Magnet cards for 9100B

Message #1 Posted by [Henk Kramer](#) on 8 Apr 2001, 6:32 p.m.

I'm looking for magnet cards for the 9100B calculator.

Re: Magnet cards for 9100B

Message #2 Posted by [Andreas Mueller](#) on 24 Apr 2001, 7:31 p.m.,
in response to message #1 by Henk Kramer

Hello Henk,

the dimensions of a 9100A magnetic card are: 50.8 x 92.2 x 0.25 mm. I think there is no difference to the 9100B. May be you can cut it off some suitable material (old floppy's?).

best regards Andreas

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Re: 41 modules prices

Message #1 Posted by [Mike \(Stgt\)](#) on 8 Apr 2001, 5:03 p.m.

Does somebody know more about the internals of the IR-Module (protokoll, firmware-commands)?
The NoMaS-listings would help too.

TIA.....Mike

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41C/CV/CX Rubber Feet Replacement?

Message #1 Posted by [Y. Samuel Arai](#) on 8 Apr 2001, 9:02 a.m.

Anyone find any good substitute feet for the 41 that looks stock? Has anyone found any "sheet rubber" that can be cut to the same size and glued?

Which brings up another question... what kind of adhesive works best for these feet, which would allow for occasional removal? Has anyone found anything that works like the glue HP uses for these feet?

Thank you! Sam

Re: 41C/CV/CX Rubber Feet Replacement?

Message #2 Posted by [David Smith](#) on 8 Apr 2001, 3:46 p.m.,
in response to message #1 by Y. Samuel Arai

The easiest thing to do for feet is to cut out squares of rubber from an old tire innertube with an razor knife. They are virtually identical to the real thing. Stick them down with double sided adhesive tape, 3M spray adhesive, or rubber cement.

By the way, the best thing I've found for removing old feet or adhesive labels and peeling the corners of Classic series labels is a product called Un Du. It will temporarily loosen any sticky adhesive. When it evaporates (very fast) the adhesive remains sticky and the item can be reattached. It costs about 5 bucks for a one ounce bottle, but just contains the solvent heptane. If you have access to chem lab or chemical seller, heptane can be bought for MUCH MUCH less.

Re: 41C/CV/CX Rubber Feet Replacement?

*Message #3 Posted by [db](#) on 8 Apr 2001, 10:44 p.m.,
in response to message #2 by David Smith*

the above inner tube solution works, or in a cheap inner tube repair kit there is a rubber sheet that is just the right thickness and has a peel and stick back. its big enough to make a dozen.

Re: 41C/CV/CX Rubber Feet Replacement?

*Message #4 Posted by [Y. Samuel Arai](#) on 9 Apr 2001, 2:10 p.m.,
in response to message #3 by db*

Do they still sell innertube repair kits anymore for autos? I've seen them for bicycles but they tend to be small and thin... oh well, I'll check AutoZone. Thanks!! Sam

Re: 41C/CV/CX Rubber Feet Replacement?

*Message #5 Posted by [Y. Samuel Arai](#) on 9 Apr 2001, 2:09 p.m.,
in response to message #2 by David Smith*

Thanks for the tip on Un Do (heptane) and innertube. I'll have to look for'em!! Sam

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HP 28S prices in eBay

Message #1 Posted by [J. Lopez](#) on 6 Apr 2001, 9:24 a.m.

Is there anything new about 28S's? In the last couple of days I've seen two different eBay auctions for this calculator closing at prices over \$200. Not only that, but there seems to be a lot of interest in these items, as the number of bids in the auctions was relatively high at 27 and 29, respectively. Check out items number 1225468454 and 1226213627.

What's going on?

I've always seen a pretty stable number of 28S's in auction at any time in eBay, and I've also noticed that the variance in the final prices reached in these auctions is very high (from a low of around \$40 to up to three times this low figure), but, come on, over \$200?

Re: HP 28S prices in eBay

Message #2 Posted by [Thierry Allender](#) on 2 May 2001, 4:31 a.m.,
in response to message #1 by J. Lopez

I don't know why it is too expensive on Ebay, but I can say to you, that on ibazar.fr (France), you can find HP28S for 60\$ (shipping costs for France included). I see several offers, & I bought 15 days ago one HP28S for this price.

Regards.

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Re: 41 modules prices

Message #1 Posted by [Steve \(Australia\)](#) on 5 Apr 2001, 6:55 p.m.

Well, Mr Anonymous, I'm glad you only bought one.

The Educalc clearance items were being sold for a reasonable amount and offered collectors a chance to get some items at reasonable prices.

Unfortunately it also gave those who bought in bulk and sold on eBay a major opportunity to make huge profits.

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Asking for help about infinite-loop program to benchmark an HP48G+

Message #1 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 5 Apr 2001, 10:50 a.m.

I just bought a HP 48G+ just for collecting purposes. It looks almost new, but I am puzzled about the speed of this unit, most functions take more time than I expected (based on my HP41 and 42 experience). Perhaps it is right this way, I don't know.

I would like to run a simple benchmark to see if this particular unit is OK or not. On a HP 41, I'd write a simple program (infinite loop) just as:

```
LBL 00
```

```
1
```

```
+
```

```
GTO 00
```

and see how many iterations took place during, say, one minute.

(In fact, on a HP 41 I would use automatic duplication of the T stack register, or use a ISG loop, but I am trying to keep this example very simple and clear)

I've found (as expected) that none of my programming experience in HP25, HP41, HP42 or HP32Sii is of any help. While I am prepared to work through the manuals to learn the HP 48 programming model, I would appreciate any shortcut right now! :-)

Could someone please let me know how to create and run a infinite loop program on a HP 48?

If someone knows, what speed (iterations per minute) should I expect?

Thank you in advance

Re: Asking for help about infinite-loop program to benchmark an HP48G+

Message #2 Posted by [Ernie Malaga](#) on 5 Apr 2001, 3:22 p.m.,
in response to message #1 by Andrés C. Rodríguez (Argentina)

Try the following for infinite loops:

```
WHILE 0 0 SAME REPEAT /* Body of loop here */ END
```

Essentially, what's happening is that the loop will repeat for as long as 0 and 0 are the same (i.e., always).

You can use DO...UNTIL instead:

```
DO /* Body of loop here */ UNTIL 1 2 SAME END
```

which will repeat the loop until 1=2 (i.e., will never stop).

-EM

Re: Asking for help about infinite-loop program to benchmark an HP48G+

Message #3 Posted by [Joe Panico](#) on 5 Apr 2001, 3:29 p.m.,
in response to message #1 by Andrés C. Rodríguez (Argentina)

Andres,

A good source for HP48 programs is www.hpcalc.org. Using a loop yields different results depending upon the manner a value is incremented. A basic "infinite" loop is:

```
DO UNTIL 0 END
```

This doesn't count a value. You could add something after the DO before the UNTIL such as:

```
'A' INCR DROP assuming the variable A exists
```

or try a stack solution:

```
0 DO 1 + UNTIL 0 END
```

Joe

Thank you !!

Message #4 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 5 Apr 2001, 4:17 p.m.,
in response to message #1 by Andrés C. Rodríguez (Argentina)

Thank you Ernie and Joe!

Just in case: Benchmark results (infinite loop)

Message #5 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 6 Apr 2001, 9:17 a.m.,
in response to message #1 by Andrés C. Rodríguez (Argentina)

The simplest loop program (just add 1 to the x register and loop back) was run for 1 minute.
The results are the number of iterations made by each model (approx):

HP 41 C: 450

HP 42 S: 1750

HP 32 Sii: 3250

HP 48 G+: 11800

I don't have the exact numbers, I am posting this here just as an order of magnitude reference.

Even faster

Message #6 Posted by [Joe Panico](#) on 6 Apr 2001, 2:25 p.m.,
in response to message #5 by Andrés C. Rodríguez (Argentina)

Andres,

Just for fun I tried the same loops in System RPL.

This one did about 30,000 in one minute:

```
System RPL code
%0          real number 0
BEGIN      begin loop
```

%1+ *add real number 1 to item on stack*
ATTN? *check if ON key is pressed*
UNTIL *end of loop structure*

While this did about 50,000:

ZERO *binary integer zero*
BEGIN
#1+ *add binary integer 1 to item on stack*
ATTN?
UNTIL

I'm sure someone knowing assembly can achieve even greater performance.

Joe

Re: The 48 is fast compare to older calculators but...

*Message #7 Posted by [Chan Tran](#) on 6 Apr 2001, 5:17 p.m.,
in response to message #5 by Andrés C. Rodríguez (Argentina)*

As you found out that the 48 would run programs much faster than the 41 or 42. However, you did mentioned that it seemed slow for most functions. I think the 48 is slower in manual calculation because it often has to do its garbage cleaning on its very large stack.

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41 modules prices

Message #1 Posted by [b.tokarczyk](#) on 5 Apr 2001, 3:24 a.m.

Does there exist somewhere a list of hp suggested retail prices for all the 41 modules?

Re: 41 modules prices

Message #2 Posted by [Frank Knight](#) on 5 Apr 2001, 10:25 a.m.,
in response to message #1 by [b.tokarczyk](#)

As they are no longer made, market pricing dominates. There is one web site (don't have handy, somebody will) that sells reconditioned and used HP 41 calcs and some accessories.

Re: 41 modules prices

Message #3 Posted by [b.tokarczyk](#) on 5 Apr 2001, 2:08 p.m.,
in response to message #2 by [Frank Knight](#)

I understand that they are no longer in production, I was only trying to gage what HP originally valued them at versus what I see them at these days.

Their prices are all over the board, it makes it difficult to determine the market value and again where my price bar need to be raised/lowered to aquire a certain pack.

Thanks

Re: 41 modules prices

Message #4 Posted by [Peter Ohanessian](#) on 5 Apr 2001, 3:20 p.m.,
in response to message #3 by b.tokarczyk

For some reason, I kept a Xerox copy of a February 1, 1983 Series 10/Series 40 Price List.

All the Series 40 Application Pacs had a "Suggested Price" of \$30.00 (US) with the following exceptions:

Navigation, Real Estate and Structural Analysis Pac's were \$45.00

HP-41 Development Module and Petroleum Fluids Pacs were \$75.00

Hope this answers your question

Re: 41 modules prices

Message #5 Posted by [b.tokarczyk](#) on 7 Apr 2001, 9:55 a.m.,
in response to message #4 by Peter Ohanessian

Thanks for the info Peter!

Re: 41 modules prices

Message #6 Posted by [Matt Kernal \(US\)](#) on 5 Apr 2001, 12:37 p.m.,
in response to message #1 by b.tokarczyk

Other than an Educalc catalog or an old HP "price list" (my 41 brochures describe the modules, but not pricing), I'm not aware of an on-line "suggested retail" price list. FWIW, the HP Museum CD's contain copies of Educalc catalogs.

Matt

ps. I hope 41 module prices aren't coming to this:

<http://cgi.ebay.com/aw-cgi/eBayISAPI.dll?ViewItem&item=1224292161>

For those who don't want to look, this 41C Infrared Printer Module sold for \$150 at Ebay!! I'm "glad" I only had to pay \$50 for the one I bought from a private party two months ago ;^)

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Nwe HP32SII-Desing ?

Message #1 Posted by [Andreas Stockburger](#) on 5 Apr 2001, 2:14 a.m.

Hi,

did I miss something ? Today I visited "http://www.hp.com/calculators/scientific/32sii_info.html" - hey whats this? There seems to be a new design for the hp32sii ???

Andreas Stockburger

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HP Calculator printer

Message #1 Posted by [Chris Percival](#) on 4 Apr 2001, 11:28 p.m.

I'm looking for information on how to talk to an HP82240 calculator printer from a micro? I would like a protocol description.

Re: HP Calculator printer

Message #2 Posted by [Steve \(Australia\)](#) on 5 Apr 2001, 5:53 a.m.,
in response to message #1 by Chris Percival

Check the Articles forum. I Think you'll find what you're after there.

Also look for a discussion on this topic in this forum around the same date as it was posted as there may be additional information there too.

Re: HP Calculator printer

Message #3 Posted by [Matt Kernal \(US\)](#) on 5 Apr 2001, 12:20 p.m.,
in response to message #1 by Chris Percival

Hopefully, you can find what you are looking for here:

<http://www.jarno.demon.nl/hp48.htm> and <http://www.jarno.demon.nl/ptrcodes.htm>

Matt

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Re; Hp-67 r/w head height adj.

Message #1 Posted by [Jeff Brown](#) on 4 Apr 2001, 7:54 p.m.

Am repairing my hp-67 card reader and made the mistake of removing the magnetic card reader head from the plastic frame assembly. now, when a card goes through, it always reads error. does anyone know how to adjust the height of the head? i think there are two nylon balls beneath it. thanks, jeff brown

Re: Re; Hp-67 r/w head height adj.

*Message #2 Posted by [David Smith](#) on 5 Apr 2001, 4:37 p.m.,
in response to message #1 by Jeff Brown*

Oooh... big mistake. The heads were glued in at the factory and were never meant to be removed. The only way I know to set the height is to place a card in the mechanism and let the head rest on the card. The head must touch the card but not be so tight as to impede its movement. One problem is getting the head square to the card. If it is slanted then you can get read/write problems. I had a reader that with a loose head and it took quite a bit of playing around to set things right, but it can be done.

The nylon balls are used as part of the card detect/head switches. As the card slides over the balls they press on the gold leaf springs that then make contact with pads on the back of the keyboard. The three main switches are card edge detect (motor on), write protect detect, and head enable (a delayed version of card edge detect). There is a fourth switch that I don't believe is used for anything.

Re: Re; Hp-67 r/w head height adj.

*Message #3 Posted by [Jeff Brown](#) on 9 Apr 2001, 10:38 p.m.,
in response to message #2 by David Smith*

dave, thanks for your suggestion. i thought i had it a couple of times, but by the time i glued it and retried it, it came up with errors again. am using a hot glue gun which holds fairly tightly but can be removed with an exacto knife. the latest attempt was to disassemble the card reading assembly, put a card in just the top part and try to let the head drop into position, where i then glued it. result was that when the part that holds the head was reinstalled on the rest of the board, too tight a fit ensued and had to start over. maybe your suggestion would be to put a card partly thru the card reader while installed and let the head just rest on the card, and then glue in place. am i getting it right? any idea if there is a factory manual that describes overhaul procedures? thanks for keeping up with this.

Re: Hp-67 r/w head height adj.

*Message #4 Posted by [David Smith](#) on 10 Apr 2001, 6:20 p.m.,
in response to message #3 by Jeff Brown*

Yes, that's what I did on mine (it was about 8 years ago so things have grown a bit fuzzy). The only service manual for a reader based machine that I have seen is the HP-97 manual on the HPMUSEUM CDRoms. I don't think the head is considered a replaceable part.

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Calculator vs. telephone keypads

Message #1 Posted by [Kurt Geiger](#) on 4 Apr 2001, 11:34 a.m.

I have a question: Does anyone know why the keypads on a calculator and a telephone are arranged differently? Please e-mail me the answer if you know it! Many thanks, Kurt kurt.geiger@cappuccino.se

Believe it or not

Message #2 Posted by [Jim L](#) on 4 Apr 2001, 2:38 p.m.,
in response to message #1 by Kurt Geiger

This bit of trivia is in this site's FAQ

<http://www.hpmuseum.org/faq.htm#telephone>

Re: Calculator vs. telephone keypads

Message #3 Posted by [Tom \(UK\)](#) on 5 Apr 2001, 7:53 a.m.,
in response to message #1 by Kurt Geiger

As far as it goes in the UK (I don't know about the US) the reason that '0' is near the '9' is the way older phones indicated the number to the local exchange.

Each number was associated with a number of 'clicks' on the line. '1' = one click, '2' = two clicks etc. up to '9' but '0' was ten clicks. On rotary dial phones there was simply a number of notches behind the dial (0987654321) so the further you turned the dial the more clicks were applied to the line when it rotated back to the start position. These clicks were decoded at the exchange as the number you wanted to dial.

Occasionally due to noise or someone wiggling the wires a click could appear on the line when you were not dialing. These errors could upset the phone system and that is why numbers did not usually start with '1' or '2'. It is also the reason why the emergency number is 911 (999 in the UK but 911 also works here) because 9 clicks would not occur very often due to noise and

hence the emergency services would not have loads of false calls.

When DTMF (Dual Tone Multiple Frequency) was introduced the tones were 'laid out' using the familiar 123,456,789,*0# format. (It's a bit difficult to explain here but each tone was associated with a column and row and pressing the button closed switches which generated the required tones. A bit like the key codes for HP calcs - row/column, 4 rows and 4 columns on the phone giving 16 tone pairs - only 12 are used on most phones - I think the other 4 were reserved for special users in the US (telephone companies and military?))

Anyway to get back to the question:

Calculators have '0' meaning zero but on telephones '0' really means ten so it was near 9 for the above reasons.

Why telephones start with 1 at the top is still a mystery to me. One thing I heard was that the telephone companies did NOT want people dialling too fast with DTMF so laid the numbers out in an unfamiliar format to slow people down!

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41 CX repair

Message #1 Posted by [Stefan Granat sweden](#) on 4 Apr 2001, 4:03 a.m.

My CX shiwed strange signs. It s not reacting to the keyboard or on/off. None of the resetting routines described in forum is working. So i decided to take it apart. In the bottom of the CPU i found a glass fuse? (i think) the fuse? is not shown in any picture i´ve seen. In the fuse? is two metal tongues lying over each other.(in a car fuse there is one metal tongue who burns off when overloaded) Is it a fuse or what?

Re: 41 CX repair

Message #2 Posted by [Steve \(Australia\)](#) on 4 Apr 2001, 6:52 a.m.,
in response to message #1 by Stefan Granat sweden

It sounds like a reed relay.

I expect that the calculator has been sped up.

If you place a magnet near the device, you can confirm if it is a reed relay, because this will cause the contats to close.

You might find that a wire has broken internally, or that it helps to put a magnet near the reed relay when you turn the calculator on.

Re: 41 CX repair

Message #3 Posted by [stefan granat](#) on 4 Apr 2001, 1:36 p.m.,
in response to message #2 by Steve (Australia)

hi Steve thanks. I need more help. What does a reed relay do? Can i make a bypass? The wire is broken inside the reed. The reed is also craced a bit. I dont know if it has been seed up. I bought it in a secon hand market for aprox a GB £. stefan

Re: 41 CX repair

*Message #4 Posted by [Steve \(Australia\)](#) on 5 Apr 2001, 5:49 a.m.,
in response to message #3 by stefan granat*

If it is a reed relay, it will be a clear glass cylindrical envelope with leads coming out of the (probably rounded) ends. The inside is clearly hollow. Inside are 2 flat wires that overlap for a short distance. These devices are usually about 3 to 5 mm in diameter and about 25 mm in length (although there are probably a plethora of sizes).

A diode, on the other hand will be somewhat smaller (about 2 to 3 mm in diameter and less than 10 mm in length. It will have a stripe (red, white or black normally) around one end. The insides are less easily discerned.

Which one does it look like?

Re: 41 CX repair

*Message #5 Posted by [stefan granat](#) on 5 Apr 2001, 9:10 a.m.,
in response to message #4 by Steve (Australia)*

Hi Steve. It is a reed relay no doubt. I noticed that it was broken in one end. I have to repair it. Do you know if the overlapping wires should be closed or open when the calculator is off? stefan

Re: 41 CX repair

*Message #6 Posted by [Steve \(Australia\)](#) on 5 Apr 2001, 7:13 p.m.,
in response to message #5 by stefan granat*

The reed contacts are normally open.

Let me give you the basics on what it's doing and why it's there.

People wanted to make their HP41's faster.

The HP41 has an internal oscillator that determined the speed at which the calculator runs. By changing the value of one component (reducing the value of a capacitor) the oscillator will run at a higher frequency, and the calculator will go faster.

However, some peripherals (notably the card reader) may misbehave if the clock speed gets too high. This generally manifests itself in cards that cannot be read in other machines.

But some people still want the calculator to go as fast as possible, and want to slow it down to write cards. To do this, the calculator needs to run at 2 speeds, a higher one to run programs, and a lower one to write (and possibly read) cards.

To have this 2 speed arrangement, one possibility is to replace the capacitor with one that allows the calculator to run as fast as possible, then to switch in another capacitor in parallel with it for slower speeds. (Notice that capacitors have a higher value when placed in parallel, which is exactly the reverse of what happens with resistors).

Without having seen your calculator, this sounds like what was done and the method that was employed.

Although there are exceptions, the reed relay is open without a magnet nearby. Thus a broken reed relay is either going to give you the fastest speed (if it remains open) or the slowest speed (if it remains closed).

However, it is possible that the original value chosen for the smaller capacitor (for higher speed) could have been marginal (which is pretty much the idea :-)) and the oscillator no longer oscillates, or that the calculator can no longer handle the speed. In this case, removing the broken reed relay and replacing it with a link will give you a slower (but working) calculator. And you'll probably be able to use the card reader on it.

It is also possible that the wiring of the additional components was a little dodgy and that wires have come adrift leading to problems.

It is also possible that the calculator was damaged during (or after) modification, and you have a faulty calculator beyond the broken reed relay.

If it were me, I'd try using a link, and if that worked, I'd get a new reed relay and play around with capacitor values until I got a calculator with the two speeds that it was originally modified to have.

WARNING: If you're going to use a soldering iron inside an HP41, please:

- 1) have experience soldering
- 2) use something with a fine tip (or wrap thick copper wire around the tip and use the end of the wire as a tip)

- 3) turn off the soldering iron before you start to work on the calculator (unless you know your iron doesn't leak current)
- 4) Know what you're doing and make sure it's reversible.

Re: 41 CX repair

*Message #7 Posted by [stefan g](#) on 7 Apr 2001, 12:09 p.m.,
in response to message #6 by Steve (Australia)*

Hi Steve. Bad news I made a bypass and removed the relay. I also made sure that there was no wires adrift. I also cleaned up the calculator. I removed the CX CPU and installed it in a CV. I was no difference with or without the bypass. ie open or closed relay. The display only showed some "chinese" signs. In difference from before they were stable. before they were random. So it must be something else.

Re: 41 CX repair

*Message #8 Posted by [stefan](#) on 7 Apr 2001, 2:38 p.m.,
in response to message #6 by Steve (Australia)*

Steve

In an article in hp forum by Stefan Vorkoetter I noticed that there should be two rows of interconnect between the CPU and the keyboard in a Cx(not in C or CV) two long and one short. The short interconnect was missing in my calc. (Strange it seems to have been in hard work before I got it). Anyway I will replace the missing connection tomorrow. I have got a connection taken from an old Ericsson cellular phone.

stefan

Re: 41 CX repair

*Message #9 Posted by [John Robinson \(Australia\)](#) on 4 Apr 2001, 7:36 p.m.,
in response to message #1 by Stefan Granat Sweden*

Hi Stefan,

Are you sure it's not a germanium diode ? - Cheers, John

Re: 41 CX repair

Message #10 Posted by [Per Faltman \(Sweden\)](#) on 6 Apr 2001, 1:31 p.m.,
in response to message #1 by Stefan Granat sweden

Hi Stefan!

Would be fun if you could get in contact with me. As you probably know there are not so many die hard HP calc enthusiasts here in Sweden.

/Per

Re: 41 CX repair

Message #11 Posted by [stefan g](#) on 7 Apr 2001, 1:17 p.m.,
in response to message #10 by Per Faltman (Sweden)

hej Per. As you can see in my replay to Steve i had bad news. Have you any idea what it might the matter with my CX?.

stefan

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HP-28C Lithium Batteries

Message #1 Posted by [Colin](#) on 3 Apr 2001, 6:15 p.m.

Does anyone know of a source for Lithium n-cell batteries for my hp28C? The alkaline ones don't last long enough to be useful. I had the lithium ones for 7 years. I have to reprogram it every time I replace the batteries. Thank You.

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hp85 to pc

Message #1 Posted by [jim](#) on 3 Apr 2001, 5:57 p.m.

greetings, sorry this is not a true calculator problem, from reading the post here somebody may have the answer need. i have applications on a hp85B tape drive that i would like to port to a pc platform using the ieee. is this possible and how.

thanks

jim

Re: hp85 to pc

Message #2 Posted by [Steve Kersey](#) on 7 Apr 2001, 12:06 a.m.,
in response to message #1 by jim

If they're HP Basic programs, you could transfer as text by RS232 to a terminal program running on the PC.

Re: hp85 to pc

Message #3 Posted by [Jim](#) on 7 Apr 2001, 4:28 p.m.,
in response to message #2 by Steve Kersey

The HP85B does not have an RS-232 port, I am stuck with the IEEE port, I have seen routines to go between the IEEE and a PC but I never had a reason to look at them before now.. Any help is appreciated...

Re: hp85 to pc

Message #4 Posted by [Casimiro Población](#) on 5 May 2001, 2:05 p.m.,
in response to message #3 by Jim

This is an automatic translation. Not all the errors are mine :-)

The series hp-8X, yes he has interface RS-232, as option. It is necessary to have:

- a 00085-15003 I/O ROM
- a HP 82939A Serial Interface
- a Data Communications Pac

Although in your case, maybe it is but simple to print the listings and to make a scanner in the PC.

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A 49G or 48GX?

Message #1 Posted by [D. Kelsey](#) on 3 Apr 2001, 1:42 p.m.

I am a structural engineer, and I am considering replacing my 41CX with a 49G or 48GX. Which of these two is the best choice?

Re: A 49G or 48GX?

Message #2 Posted by [Ron Ross](#) on 3 Apr 2001, 2:34 p.m.,

in response to message #1 by D. Kelsey

Are you a power user or just want a scientific similiar to your 41 (but with less power, like I asked, Power user?) I suggest a 32sII.

If your a power user, both the 48 or 49 have many times the capability of a 41. I feel you would probably be happier with a 48GX (or save \$40 and buy a G+, and even save more since any xpansion cards cost \$80 or more) The main reason is where the enter key is located (yeah the lower corner of a 49 is more convient if you are just learning RPN, but since you have a 41, you probably have a natural tendency to look to the middle of the Calc for the enter key). The Hp48G+ is less than \$100 at most office supply stores. You will also get a better manual.

The Hp49 has 512K RAM (5 X the amount of a 48 G+ or GX) and 1 Meg of flash ROM (you could also load Flash apps as well as upgrade your OS) Could is the word. You might not do any of these things, but the option is ever present. The keyboard doesn't compare to the 48 (48 is same as 41 type keys)

A 48GX can be expanded past the 49 with RAM cards. However the 49 has optimized many functions to be faster than a 48, but for what I use I have haven't noticed any significant differences. If you use matrix methods for solutions I understand there is significant differences though.

If you want or need CAS buy the 49 since you will get this without having to load and give up RAM. CAS is available for 48 but takes 80K RAM to load.

Re: A 49G or 48GX?

*Message #3 Posted by [D. Kelsey](#) on 3 Apr 2001, 3:14 p.m.,
in response to message #2 by Ron Ross*

I have not been a power user in the past, but I am in a new position that will require me to become one.

Since I have had my current calculator for about 17 years, cost is not large factor in the decision.

I am concerned about the layout of the key board, hopefully I can become effiecient with a new layout. I have found a large picture of the 49G but not the 48 GX to see a layout of the keyboard.

My main concern is which model will be a better tool for the next 20 years. From the information that you were kind enough to give me it sounds like I should lean towards the 49G. Knowing that I will need to retrain myself to use a totally new keyboard layout.

Thank you for taking the time to respond.

Re: A 49G or 48GX?

*Message #4 Posted by [Tom \(UK\)](#) on 5 Apr 2001, 7:26 a.m.,
in response to message #3 by D. Kelsey*

I have both, I actually bought the '49 first - got fed up with it and then bought the '48 and learnt how to use it via the much better manual. I would suggest the 48G+/GX for 95% of your tasks. The 49G IS faster but only after you have entered the data (for which it is slower). If you need the CAS or are a power user wanting every ounce of computational speed then the '49 would be prefered.

In practical terms the '48 not only has a better keyboard for speed (the 49's feels squishy after using the '48) but it is also much easier to read because of the better colors and larger text. The HP49's use of small red and blue text on a metallic blue background means that it is hard to read in some lighting conditions. This is also true of the HP49's display which does have higher contrast but is hidden behind a shiny screen cover. If you will be entering alot of mixed text and numbers the '49 is better as the arrow keys are not used for letters making editing easier.

In terms of a long life the '48 seems much stronger. Although I have not dropped either calc I would expect the '49 to break more easily than the '48.

Unfortunately both the '48 and '49 are not as 'quick and dirty' to program as the '41 and you will have to learn structured programming to use either effectively (this can be educational and is not bad practice but is another hurdle the '41/'42 user must jump). The HP49 manual is USELESS for learning to program, the HP48 manual is 1e9 times better. If you buy the HP49G and want to program it I would wager you will have to buy the 48 manual and advance programming book.

Upgradable operating software for the 49G is a mixed blessing. The 48's operating system is stable and well known, the same can't be said for the '49.

Can you find a shop that sells both? If so you might be able to try both and make your mind up this way. Sadly this kind of shop has been sacrificed on the alter of low prices.

You say that money is not an issue and you are looking to have a calc for the next 10+ years. Could I suggest you get an HP48G+ and learn how to use it, then if you feel you really do need the '49 you could buy that at a later date and use the '48 as a back up.

Re: A 49G or 48GX? keyboards.

*Message #5 Posted by [Julian](#) on 5 Apr 2001, 7:57 a.m.,
in response to message #4 by Tom (UK)*

I don't have neither a 48 nor a 49 but talking for analogy I have a 20S and a 6S solar. I think the 20S is the 48 generation and the 6S is 49. The 20S has a keyboard with the HP feeling (it's not a 41, but has a nice touch), full labeled but clear and easy to read. The 6S has rubber keys (the 49 way, or perhaps is the 49 wich has the keys the 6S way) I don't like. And the labels?, on the 6S solar are readables(metal background) but the 6S sells in a nice dark metallic blue that makes unreadable almost everything wich is not on the key. Has the "colour design team" at HP tried to use a 6S?. I suppose is the same for the 48 - 49 series.

Manuals

*Message #6 Posted by [Bryan](#) on 5 Apr 2001, 3:51 p.m.,
in response to message #4 by Tom (UK)*

I made the transition from TI to HP with the 49G and you're right, the manual for the 49 is incredibly bad. // After considering either buying a 48 and/or 48 manuals to 'get up to speed', I did a little research and discovered a pair of outstanding manuals on the web. You can find them at greatunpublished.com. If memory serves, they're about \$25 each, and you can get electronic versions sent to you as e-mail attachments for free after you purchase the texts in hard-copy. They've made learning and using the 49G a much more pleasant experience....

Here's the title: Science and Engineering Mathematics with the HP49G, by Gilberto E. Urroz (ISBN 1-58898-043-X for the first one)

Good luck with your decision. Keep in mind, if you're going to want to download software off the net, the 48 software is often not compat. with the 49. The 'tried and true' 48 has a history you may benefit from that the 49 does not.

~ Bryan

Re: A 49G or 48GX?

Message #7 Posted by [Les Bell \(Australia\)](#) on 3 Apr 2001, 8:03 p.m.,

in response to message #1 by D. Kelsey

I'd recommend the 48GX. Reasons:

1. The 49 comes with much less documentation, a big mistake with such a complex calc, IMHO. The 48GX manual is adequate, especially if you also buy the Advanced User's Reference Manual.
2. The 49 is much more algebraic-orientated. RPN seems to be provided as something of an afterthought.
3. Anyone with an engineering background is likely to be unimpressed with the design and build quality of the 49, especially when compared with the classics and the 41. Almost everyone agrees the keyboard is a disaster.

Best,

--- Les [<http://www.lesbell.com.au>]

Re: A 49G or 48GX?

Message #8 Posted by [Ernie Malaga](#) on 3 Apr 2001, 10:02 p.m.,

in response to message #7 by Les Bell (Australia)

Please see article #144 in the Articles Forum. That's an opinion piece I wrote about the 49G.

-EM

Re: A 49G or 48GX?

*Message #9 Posted by [b.tokarczyk](#) on 5 Apr 2001, 2:45 a.m.,
in response to message #7 by Les Bell (Australia)*

I think Les [04.03.01 @ 20:03] has an important point in his reason #3 -- essentially, what is the unit you are comfortable with (i.e., the most effective with)?

From what I read, both you and I are in a similar situation -- muscled through college with the 41 series while always keeping an eye open to determine if there is a better solution for our work demands (I'm a structural engineer as well). I currently have access to all three (I own both a 41cv/cx and a 48gx, and I have been using the 49g off and on for the last four months) -- yet, I find I still grab the 41 in most situations.

As a structural engineer, you can very easily find yourself huddled over many pages of calcs on a daily basis, or you can be a manager of the huddled, basically verifying these calcs -- I don't know which one you expect to spend most of your time in. I do know that if I'm at the office and some impressive computations are developing, the ol' desktop is the workhorse (with one of the three above next to me, of course).

An important distinction may be what you find yourself doing day-to-day at work. If you are involved in some sort of higher-order math functions (FFT, complex graphing, non-linear programming), I would think the 48 (conventional layout/look/function) or 49 (pure efficiency/speed) would be the choice (if not for the graphing functions alone). Personally, I don't see myself using the HP for those tasks -- my desktop and our networkable/accessible files and spreadsheets are for those.

But, the differentiation to be made here is what you are bringing to the field, remote office, or simply a client meeting/working session -- every time I reach for the 41 (no question) -- maybe its due to the comfort level, maybe the speed of solution I can get using it. The 41 is versatile for our needs (struct/math/stat/mem modules + programmable if necessary), very unassuming and portable (i.e. 'pocket' calculator), and amazingly has survived (personally) many extreme conditions over the years (190' drop into sandpit ... ?). Plus, you can still buy, fix, replace essentially everything on every model available.

[As an engineer geek, I often find it interesting to notice what each employee's choice of a computational weapon may be ... and I am often surprised at the simplicity of some (most) of the choices. Case-in-point, our chairman repetitively points out (jokingly) his use of the \$4.99 Wal-Mart calculators by 'choice' -- due to the fact that he usually loses them weekly. Food for thought ...]

Good luck! Bryan

.....

rants:

41 --

only one line display (obviously no on-board graphing capabilities)
expandable/portable/quick customization to situation
(... you all ready own one ...)

48--

conventional display (i.e. registers make sense to a 15 year hp41 veteran)
wide array of available menus and solutions for many different engineering problems
encountered
(...is it me, or does the 48 seem slow ...)

49--

display does take some getting use to
RPN does seem to be an afterthought
the algebraic display convention can be a bit overwhelming
vast programming/programming capability (basically HP's latest and 'greatest')
definitely proves the 'power' in a show-an-tell situation
I really don't have a feel for how long it would take to get use to that crazy keyboard (and
that alone can get a bit awkward in a client meeting with answers waiting/eyes watching ...)

.....

Re: A 49G or 48GX?

*Message #10 Posted by [Andreas Stockburger](#) on 4 Apr 2001, 3:22 a.m.,
in response to message #1 by D. Kelsey*

Hi,

sorry, but price, keyboard-layout etc. is not the main thing here. For me there is one MAJOR
argument for the 49:

SPEED !!!!

Nearly all functions are much more faster on the 49

Best regards

Andreas

Re: A 49G or 48GX?

Message #11 Posted by [Cameron Patrick](#) on 9 Apr 2001, 10:54 a.m.,
in response to message #1 by D. Kelsey

Okay, at the risk of being stoned here ... does it have to be an HP calculator? I own an HP48, and it is a nice calculator in many ways, but because it can do so much, it is often very difficult to use. And it is SLOW. Very slow, in fact. I haven't used an HP49 for a great deal of time, but the keys are horribly squishy--they feel worse than a \$15 Casio scientific calculator. The TI89 can do RPN (with an add-on programme), has a nicer display than the HP48/49, and has most of other the features of the HP49 too. You might want to consider a TI calc as a possible alternative.

Re: A 49G or 48GX?

Message #12 Posted by [D. Banks](#) on 9 Apr 2001, 6:32 p.m.,
in response to message #11 by Cameron Patrick

Has TI done anything about their QA? Every one I've ever had lost its keyboard inside a year. 'Course, that's what you get for buying a TI, I know, but I still figured (wrongly) they could manage a little better than that.

Not that the 49's keyboard is anything to write home about.

I got a 48SX when they came out. Wrote a resident disassembler for it. Had lots of hacking fun with it. Find it completely impractical for a day-to-day calculator.

I'd like to believe that there's something better out there, even if it doesn't say HP on it.

Re: A 49G or 48GX?

Message #13 Posted by [Ron Ross](#) on 10 Apr 2001, 9:03 a.m.,
in response to message #12 by D. Banks

A 48SX feels slow compared to the 48G series. The 48G is just snappier than the 48S. I have both and always felt my 48s was slow, even for regular work and button pushing.

I've had the same problem with Ti also. Their newer calcs appear better, but I never used one on a regular basis after switching over to Hp. I've owned Casio and Sharp and never had a keyboard problem with them.

If you are looking for a daily calculator, I suggest the Hp32. It is a much smaller calc than the graphics and can hold several useful programs for daily use. As with this line of Hp's, still have Hp feel and look.

Re: A 49G or 48GX?

*Message #14 Posted by [D. Banks](#) on 10 Apr 2001, 10:28 a.m.,
in response to message #13 by Ron Ross*

Unlike others here, I never really found the 48SX to be that slow. Its impracticality for me is due entirely to its size.

Were I looking for an all-around decent calculator, I'd still probably just pay whatever it costs on eBay to get a 42S in decent condition. My major gripe with the 32S is the 1-line display.

Re: A 49G or 48GX?

*Message #15 Posted by [Ron Ross](#) on 10 Apr 2001, 11:31 a.m.,
in response to message #14 by D. Banks*

Point noted and agreed with. However, since the 42 is no longer readily available, I hide mine at home (sorta defeats its use, since it is much more portable than a bulky 48)

I have stated many times that the 42s is the best calculator Hp ever made just because it is portable and has the capabilities it has.

Why Hp hasn't developed an upgrade to it instead of flocking to the graphics bandwagon is probably just assinine arrogance of what true professionals want and catering to a student market that is dictated by Ti.

Other capable manufactors have also turned up their noses at such a venture also (I know, I tried, I at one time worked for such a firm and was politely kicked out of the VP's office of R & D).

The capability to make a 42+ with a serial port and 30 to 100 K RAM is readily available. Hp doesn't want to rob sales of the precious 39, 48, 49 line. What a bunch of Horse baloney. What is really happening is peoply live with their 41c or 42s until it dies then 50% buy Ti as often as an Hp graphics. Or suffer with the lower powered Hp32. Most do not buy the Hp42s on ebay, but when they do, they pay a premium because there is no other comparable calculator available, period...

Re: A 49G or 48GX?

Message #16 Posted by [D. Beattie](#) on 20 Apr 2001, 12:26 p.m.,
in response to message #1 by D. Kelsey

If you want to try these out, there are excellent emulators for the 48S, 48G and 49 at www.hpcalc.org The 49 manuals, such as they are, are available free from HP in pdf format. I own a 48S, but at work I use the 48S emulator for convenience, since I am usually using the computer anyway. Press a button and the calculator appears. The hpcalc site will also link to an interesting 41 site, with a 41 simulator (V41) and ALL the 41 programs, documentation and articles you ever wanted.

Re: A 49G or 48GX?

Message #17 Posted by [D.Kelsey](#) on 20 Apr 2001, 12:35 p.m.,
in response to message #16 by D. Beattie

Thank you that is an excellent suggestion, I will give that a try.

Re: A 49G or 48GX?

Message #18 Posted by [D. Kelsey](#) on 10 May 2001, 1:36 p.m.,
in response to message #17 by D.Kelsey

I would like to thank everyone who responded for the information. I am going to try a 48G+. Who knows maybe I will like it enough to be able to let go of my 41CX.

Thank You

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hp48gx

Message #1 Posted by [skip cons](#) on 3 Apr 2001, 4:46 a.m.

Can anyone help me find where I can purchase application pack "cards" for the GX. I am looking for EE, Math, Physics, spice. I've seen them somewhere before but have lost the mark. thanks shc

Re: hp48gx

Message #2 Posted by [kynes](#) on 3 Apr 2001, 7:30 a.m.,
in response to message #1 by skip cons

A good point to start here:

<http://www.bbmarketing.com/>

Re: hp48gx

Message #3 Posted by [skip cons](#) on 14 Apr 2001, 9:38 p.m.,
in response to message #2 by kynes

thanks much for that response.

ss

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42s Repair

Message #1 Posted by [JR](#) on 3 Apr 2001, 2:44 a.m.

I need to have the LCD replaced on my 42--drop and cracked it. Can anyone point me in the right direction.

Thanks

JR

Re: 42s Repair

Message #2 Posted by [Tom \(UK\)](#) on 3 Apr 2001, 3:38 a.m.,
in response to message #1 by JR

Some time ago (4 months?). A message was posted about taking apart and repairing an HP42 by using bits from an HP17Bii. The posting indicated that the internals are almost the same. You can pick these up second hand on ebay, if you can find one that has a bad keyboard so much the better.

Re: 42s Repair

Message #3 Posted by [Paul Brogger](#) on 3 Apr 2001, 9:38 a.m.,
in response to message #1 by JR

From the Museum's main page, there's a "Repairs and Batteries" link. From there, a "Pioneer Repairs" link. That leads to my article posted here at <http://www.hpmuseum.org/guest/brogpion.htm>.

The 42S should be repairable. Move slowly -- ESPECIALLY in removing a good LCD -- they're very touchy, but it can be done. (Practice on a less-valuable unit -- an HP-20S should be good for that.)

Good luck, and contact me with any questions. (I'm on vacation for a couple of weeks, but will answer.)

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New "unknown" HP-71B command discovered.

Message #1 Posted by [Reinhard Hawel](#) on 1 Apr 2001, 10:12 p.m.

Hi folks. As I found out in my research of the HP-71B system, there's a non-described function without arguments in the HP-71B ROM.

It's name is "MEMORY" and it returns the number 0 or one for unknown reasons. Maybe this is a check for HP, if the systems memory has been correctly implemented in this particular unit.

You can check it by just starting the system and entering "MEMORY". There are some other functions too: "MEMORY0" - "MEMORY9", but their reason is unknown til now. They all behave like "MEMORY"

Re: New "unknown" HP-71B command discovered.

Message #2 Posted by [Ex-PPC member](#) on 9 May 2001, 2:23 p.m.,
in response to message #1 by Reinhard Hawel

Your message being dated April 1st, it's blatantly obvious it's intended as an "April's Fool" joke.

Anyway, for those people who didn't realize that, and are puzzled by your "MEMORY" command, let's explain what's happening: MEMORY is being interpreted by the BASIC line interpreter as "MEM OR Y".

BASIC looks for a real MEMORY statement. It finds none, then parses the line. MEM is recognized as a valid numeric function who returns the amount of available memory. Then, OR is recognized as a valid boolean operator, and after that, Y is recognized as a legal variable.

So, the complete MEM OR Y is a perfectly legal expression, if weird. Of course, MEMORY0 to MEMORY9 are interpreted likewise, just using variables Y0 to Y9 instead of plain Y.

I saw this old joke many years ago, in a book by Joseph K. Horn titled something like "Get the most from your HP-71B" or so.

Re: New "unknown" HP-71B command discovered.

*Message #3 Posted by [Reinhard Hawel \(Austria\)](#) on 10 May 2001, 11:27 a.m.,
in response to message #2 by Ex-PPC member*

Yes, you're right. It was an April fools Joke.

I didn't read Joe Horns book. I discovered the function abt. 1985 and fooled a lot of guys then. You can see the correct function, when you enter MEMORY into a program and look at that line afterwards.

Anyway, I got one email from a guy who was surprised by the fact, that there are some undiscovered commands even now.

I also got an email from one person, who already knew it.

You can be sure, that all my other messages here on the board are no meant to be a joke.

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Re: HP-67 Repair/Restoration

Message #1 Posted by [Glynn](#) on 31 Mar 2001, 10:32 a.m.

Thanks Jeff. I don't know if I can speak to CURRENT copyright law, but I do know that there at least once upon a time existed a concept which covered near-reproductions. Basically, under that argument, if what you were doing inevitably suggested the original in the minds of the audience, then you had violated the copyright, even if a few changes had been made. I believe Apple, HP and Microsoft had a legal "set-to" a while back on these points, culminating in a settlement.

I don't think the copyright law has ever made this into a formula; it was pretty much in the eyes of judge or jury whether a particular case was a technical violation of copyright, and a lot of it had to do with determining the intentions of the copier... But a company like HP would of course, find it in their interest to aggressively protect any intellectual property they own, just as the NFL or NASCAR must periodically round up the unlicensed tee-shirt vendors and various leeches that attempt to make money on the basis of the organization's image and reputation, and the ready market for items attached to that reputation.

Some have suggested that, if it is clearly marked as a reproduction, not the original, then you are "safe". I cannot confirm this; I would think that this would be a case-by-case call, probably the copyright-owner would be the one to make that call.

As I say, I am not sure where precedent, legislation and treaty have moved that line-- MoHPC user Todd Garabedian is a legal expert in intellectual-property concerns, and if he notices this thread maybe he shall correct or update me.

You can do ANYTHING, of course, in your own home, for your own use. Property concerns only concern ownership, or the transfer of ownership... and if you want to make a repro of a label and paste it on the back of your HP-65, nobody will bust in and take you off to jail for it; but as soon as you transfer control to others, whether by giving it away or selling it or trading it, it won't matter what your ORIGINAL intent was, or that you've informed the new owner-- you will have legally exposed yourself to the copyright owner's powers.

Well, legalites are one thing; "Gresham's Law" another. Counterfeits ALSO tend to lessen the value and confidence of all extant originals.

THIS is why collectors should be very careful of repros. No, you won't give away your calc; they'll "have to pry it from your cold dead hands" ... but now think how many of our calcs are here amongst our collections due to posthumous donation or estate sales... or maybe you just forget and sell the calc. So now a COUNTERFEIT-labelled calc exists, and nobody told anyone about it. Right now, collecting has pitfalls-- but if unidentified repro items start circulating, serious collecting will be harmed. Look at the debates over some of the calcs that claim to be red-dot... how sure can one be, when fakes exist, of the real article? Have you the appropriate pedigree of ownership to determine it is not a repro? Yuk-- It's a matter of being able to trust what you invest in, and so collectors should be conscious that when they make a close repro, they are confusing a later identification. Imagine a debate here ten years from now-- did HP actually issue a label that looked like THIS, and what serial numbers did it appear on, etc., etc., etc.

Well, obviously, all that can be said on repros would fill a book, and yet only the original owners of a copyrighted item have the government-granted monopoly power to determine how and whom may utilize their work. This is why Mr. Hicks is duly vigilant that HIS work doesn't contribute to discussions of skirting those powers. Someday, someone may be able to approach HP and LICENSE a reproduction... that would be nice. And then, we might all be happy. But unless and until that happens, I believe it is wise to remember the immortal words of that great sage and teacher, Mr. Mick Jagger, who said "You cain't always git what you want"...

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HP-71B ROM versions

Message #1 Posted by [CJ](#) on 31 Mar 2001, 7:47 a.m.

I have a 71B and I have been reading and seeing references to the ROM versions on this machine. What I keep seeing is ROM version 1BBBB.

My 71B returns a ROM version 2CDCC. Seems like a big jump to me in ROM versions?

Some history. I picked this machine up at a ham-fest. It is a late '89 model. The hpdata base says that the 71B was discontinued in '88. But the museum here says '89.

What I am wondering here is if HP had a contract that they had to complete after they stopped selling to consumers?? Just a guess. Also I'm poking in the dark here. Maybe these units were some kind of special unit that the contract required. What are the differences?

If anybody knows some history of this machine I'd appreciate some more info on the ROM versions for the 71B

Thanks, Chris

Re: HP-71B ROM versions

Message #2 Posted by [Reinhard Hawel](#) on 31 Mar 2001, 11:54 a.m.,
in response to message #1 by CJ

As a HP-71 "expert" I feel, it's my duty to answer that.

2CDCC was the last version. I also believe, they ended the production of the 71B in 1988, but the machine was much longer on the Austrian pricelist, that in a lot of other countries. The reason seems to be, that a large insurance company in Austria ("Sparkasse Versicherung") had ordered and bought about 1000, or even more machines from HP over a long-time contract. This contract had to be fulfilled and that was the reason, that the 71B was kept as a "machine in production". Sparkasse was HPs 2nd largest contractor worldwide buying the 71Bs

There seemed to be a similar case in the U.S., where the U.S. army (and possibly other contractors) had such agreements. The U.S. army used the 71Bs for control of their M-110 cannons. (The U.S. army was the largest contractor).

AFAIK 2CCCC had a major bug in redimensioning arrays while running a program (I don't own such a machine, so I don't can check this) and HP had to correct this.

1BBBB was the first public revision and it remained stable for a long long time (I own the IDS for this version). There was also an IDS for the 2CDCC version, but I don't know anybody, who owns it.

I have a pre-production version of the HP-71B in my possession (Serial 0000A00022)

The Ver\$ string returns: "TI%RM4-HP71:0AAAA"

Re: HP-71B ROM versions

*Message #3 Posted by [CJ](#) on 1 Apr 2001, 12:39 p.m.,
in response to message #2 by Reinhard Hawel*

I think that this unit might have come from the government sale. The person who was selling them had a pile of them. Just the computer with the case in what looked like unused condition, and a photocopy of the QRG.

One question. If 1BBBB was stable for so long why did they change the ROM? Did they add some new functionality?

Thanks for the info Reinhard very much appreciated,

Chris

Re: HP-71B ROM versions

*Message #4 Posted by [Reinhard Hawel](#) on 1 Apr 2001, 10:05 p.m.,
in response to message #3 by CJ*

1BBBB was stable, but not free of errors. It seems, that there were some commercial customers, who wanted some bugs get fixed. The Bugs were not very serious and you had to construct them (mostly).

Much of them were small problems with the UDFs (User Defined Functions). I remember a 1 and a half page list with Errors in the 1BBBB version. I'd guess it was in a PPC or CHHU journal.

There was definitely no new function implemented.

Re: HP-71B ROM versions

*Message #5 Posted by [CJ](#) on 5 Apr 2001, 7:43 a.m.,
in response to message #4 by Reinhard Hawel*

Thanks for all the great information Reinhard !

Chris

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Other Series 40 Guides/Catalogs

Message #1 Posted by [Peter Ohanessian](#) on 30 Mar 2001, 8:59 a.m.

This message reminded me that I have 1) A "Series 40/Series 70 Technical Product Guide" dated 10/82 (Pub. #5953-5505) 18 pages 2) "Series 40 Handheld Computers" catalog dated 5/83 (Pub. #5953-5557) 32 pages

Not sure if the contents of these is of any interest to Dave H. to be scanned, but have had these since I purchased my 41 back in 1983.

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Where'd They Go??? (jyu.fi archived hpil files)

Message #1 Posted by [Dan M](#) on 30 Mar 2001, 12:06 a.m.

It has been pointed out to me that the archives I referenced in an article about HP-IL files may no longer be there. The url that worked at the time was...

`ftp://ftp.math.jyu.fi/pub/hpil/`

Does anybody know if these files are still available anywhere? I believe I kept a copy of everything for myself, but a couple of jobs and a cross-country move later, the prospect of looking for them is daunting. As my new boss pointed out to me one time "it's easier to ask somebody else to find them than it is to locate where I put them."

So, if anybody knows if these files are available online or not, there's a couple of people who would appreciate knowing. If they are gone, I'm sure there's a copy of them in one of these cardboard boxes that seem to be populating my new home...

Happy calculating,

Dan

Re: Where'd They Go??? (jyu.fi archived hpil files)

Message #2 Posted by [Dave Hicks](#) on 30 Mar 2001, 2:06 a.m.,
in response to message #1 by Dan M

I've uploaded a backup copy I made to:

`ftp://ftp.hpmuseum.org/lif/`

I had trouble downloading them so there could be parts missing. Please take a look and see if you spot anything wrong.

Re: Where'd They Go??? (jyu.fi archived hpil files)

Message #3 Posted by [CJ](#) on 31 Mar 2001, 7:30 a.m.,

in response to message #2 by Dave Hicks

I have been looking for KEYWAIT\$ for the 71. I noticed you have it in the archive. I downloaded it and then tried everything I can think of to transfer it to my 71.

I tried every combo I could think of with Tony Deull's UNIX lifutils AND hp41uc and nothing works.

What do I have to do to these files in order to transfer them to my 71? I have transferred other LEX files with no problems from my PC to the 71.

If any body can help me out here I would greatly appreciate it.

Thanks, Chris

Re: Where'd They Go??? (jyu.fi archived hpil files)

Message #4 Posted by [CJ](#) on 17 Apr 2001, 7:52 a.m.,

in response to message #3 by CJ

<What do I have to do to these files in order to transfer them to my 71? I have transferred other LEX files with no problems from my PC to the 71.

If any body can help me out here I would greatly appreciate it.>

Never mind I figured it out.

If anybody else doesn't know what to do with the files. Get a hex editor and lop off the first 32 bytes and the last byte. If the file is padded with FF at the end, remove all of them and one extra byte before the FF's.

After that you can transfer the file with the 82164A per Tony's instructions.

FWIW. I compiled KhexEdit for my hex editor. Very nice program. It can be found at freshmeat.net

Chris

Re: Where'd They Go??? (jyu.fi archived hpil files)

*Message #5 Posted by [Philip Reagan](#) on 2 Apr 2001, 2:31 p.m.,
in response to message #2 by Dave Hicks*

Thanks for saving the day again Dave.

Re: Incomplete files/I don't know what the #\$%& I'm doing

*Message #6 Posted by [CJ](#) on 5 Apr 2001, 7:37 a.m.,
in response to message #2 by Dave Hicks*

<I had trouble downloading them so there could be parts missing. Please take a look and see if you spot anything wrong.>

When I try and transfer the files with out71 to my 71B my machine locks up. I have tried to strip the headers with hp41uc, no go.

I have tried every utility in the lifutils and all I get is not a LIF disk or LIF image.

I have transferred proper LEX files with no problems to my 71 with out71.

So unless somebody can tell me what I am doing wrong I would say the files that I have tried (about 10) are corrupt or incomplete.

I usually figure this stuff out on my own but I am at a loss on this bizare file format.

I can see why it didn't catch on and died.

Chris

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Interesting article on HP inkjet development

Message #1 Posted by [katie](#) on 29 Mar 2001, 9:57 p.m.

The spring 2001 issue of Invention & Technology has an interesting article describing HP's development of inkjet technology. It talks about the need for a good calculator printer as being their primary motivation and discusses several calculator projects in conjunction with the printer (ultimately the HP 2225). It also mentions a prototype "pocket plotter" that was made for use with calculators by the same group of engineers that created the HP-35. It never got built but lead to the development of the grit wheel plotters.

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software catalog

Message #1 Posted by [ALDITENEN](#) on 29 Mar 2001, 6:03 p.m.

I have just found a Series 40 Software Catalog..... from August '84...!

and I want to know what happened with those programs that belong to this book....

Re: software catalog

Message #2 Posted by [Steve \(Australia\)](#) on 30 Mar 2001, 7:53 p.m.,
in response to message #1 by ALDITENEN

This is what I've picked up along the way, and it may be wrong, misheard, or inaccurate, but here goes:

The HP contributed library stuff was kept by HP until they decided that there wasn't really a market for it. Then they sold it (?) to another company that seemed to lose interest in it. From there it appears to have been lost.

That software catalogue probably is the one that lists products from various third party developers too?

Well, they probably discontinued the software, or ported it to other calculators and/or computers, or the need for it disappeared.

It's only 26 years, try looking them up in the phone book :-)

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Dead HP-27S

Message #1 Posted by [J. Lopez](#) on 29 Mar 2001, 2:47 p.m.

I just landed a new old-stock HP-27S. The calculator seems to have been stored in a shop window forever and it didn't come with any manuals or case.

When I installed three new LR44 batteries, the display showed a "MEMORY LOST" message in very dim characters. Trying to adjust the contrast with [CLR] + [+] does not help and the it seems to change intermittently in intensity. Some keys are not responsive. The calculator looks good cosmetically.

I took the batteries out and plan to leave them out for awhile to see if this has any effect in the calculator.

My question is, is this machine dead or is there anything I should do before throwing it into a trash bin?

I'd appreciate any feedback.

Re: Dead HP-27S

Message #2 Posted by [Andreas Stockburger](#) on 30 Mar 2001, 6:20 a.m.,
in response to message #1 by J. Lopez

Hi,

" When I installed three new LR44 batteries, the display showed a "MEMORY LOST" message in very dim characters. Trying to adjust the contrast with [CLR] + [+] does not help and the it seems to change intermittently in intensity. Some keys are not responsive."

Did you check the battery-contacts ?

What do you mean with "Some keys are not responsive" ? Are you able to calculate something ? Could you select Menues ?

Best regards

Andreas Stockburger

Re: Dead HP-27S

*Message #3 Posted by [Paul Brogger](#) on 30 Mar 2001, 8:05 a.m.,
in response to message #1 by J. Lopez.*

How many different sets of "new" batteries have you tried?

Re: Dead HP-27S

*Message #4 Posted by [J. Lopez](#) on 30 Mar 2001, 9:47 a.m.,
in response to message #3 by Paul Brogger*

Hi:

Yes, I checked the battery contacts. As a matter of fact, the calculator does turn on when new batteries are installed, but some keys (mostly those on the right two columns) don't do anything when pressed.

I've been reading in the museum some old documents describing similar problems with other HP calculators, and found that, as some knowledgeable people here suggest, twisting the calculator somehow makes the keys work. I've been able to bring up the TIME menu (the TIME menu key is in the right-most column of the keyboard) and have even entered the current date and time (nice feature in a Pioneer-type calc. I can't stop drooling just thinking about this feature in my HP-42S). The calculator has kept the time correctly for about 12 hours now.

The calculator looks fine and, if I manage to have it take my keystrokes, it returns correct, logical results.

I've tried leaving it without batteries for a few hours and, amazingly, after I put the batteries again, I still had the contents of register 1 unchanged, but some keys are still not working. The manual suggests using a coin to short-circuit the battery contacts for a few seconds. No use there either.

Oh, I've tried two different sets of new batteries (in the shop where I bought it, they put in a brand new set as I was there, to show me it worked --which it didn't and, thus, I was able to buy it for a pittance).

Anyway, I must say I'm encouraged by having the calculator come on and perform some calculations correctly. The only problems I see now are the keyboard and the screen contrast, which is too dim (this might not be a different problem itself, as I haven't been able to make the key combination [CLR] + [+] work, being that the [+] key is not working.

Sorry for the long post, guys. I sincerely appreciate all the help. It's a pity to have such a nice piece of calculator not working. I think I might even learn to like this non-RPN machine... it's just too bad it's not programmable.

Thanks.

Re: Dead HP-27S

*Message #5 Posted by [Ron Ross](#) on 30 Mar 2001, 11:01 a.m.,
in response to message #4 by J. Lopez*

Oh, but it is! That is if you can call Hp solve programming? I do, since you can make any algebraic equation into a function to solve, therefore you now have a new function available. The very reasons you mention are why I feel this is Hp's 2nd best calc made, even though it is algebraic. My favorite is the 42, but I envy the clock and solver of the 27 (though I like the menu system of the 42 better also).

Re: Dead HP-27S

*Message #6 Posted by [Paul Brogger](#) on 31 Mar 2001, 10:08 a.m.,
in response to message #4 by J. Lopez*

Maybe you're drooling on the calculator too often. ;o)

Actually, inside, the printed circuit board (PCB) has two rows of gold contacts which are lined up with matching contacts on the other two internal subassemblies: the keyboard and the display. (Look at the last two of three "internal" pictures under the HP-42S section of the MoHPC -- you'll see the keyboard and (barely) the display contacts in the second of the three; and the contact side of the PCB in the third.)

Electrical contact is established by the PCB being held in place so the rows line up. and by mechanical pressure applied by the aluminum "twist" hold-downs which bind the PCB to the front of the calculator. I suspect that oxydation or some other contaminant has separated some of the keyboard contacts, or that some of the foil traces on the keyboard's mylar circuit sheet have been damaged. (The PCB is probably not very loose, but that might have happened.)

It IS possible to take these things apart, clean the contacts, and put 'em back together.

The only REALLY dicey operation I've encountered in Pioneer repair is removing the LCD from the front case, and you wouldn't need to do that.

I suggest you find a model you don't mind experimenting with -- maybe a 20S or 14B or some such. Take it apart as detailed in my "Pioneer Observational Internals" article elsewhere in the MoHPC. (Feel free to contact me with any questions.) After you've got the feel of it, I'm confident that your 27S may be fixed.

A simple cleaning should do, but if you need to replace the keyboard mylar sheet, that's a more involved operation, but not necessarily more risky.

Re: Dead HP-27S

*Message #7 Posted by [J. Lopez](#) on 1 Apr 2001, 10:56 p.m.,
in response to message #6 by Paul Brogger*

Drooling too much, huh? Yeah, maybe the salinity in all that saliva raining on the poor calculator could concentrate to a point where the electrical contacts between the PCB and the keyboard are obstructed. However, this does not explain why the problem happens only with the keys of the right side of the calculator. I try to keep my calculator squarely symmetric under my face when I'm punching in keys, so my drooling should fall straight in the middle of the keyboard. Hmmm. Nope, I don't think that's the cause.

Anyway, another friend (who doesn't know much about calculators) suggested that I take the batteries out and leave them out for about a week, keeping myself as far away from it as humanly possible during the time. After this, I should install the batteries again and approach the calc with a different attitude, punching its keys softly until they produce an effect. He says it's all a matter of knowing how to push its buttons and that the time and distance I'm putting between us now will wipe out any bad memories kept alive by persistent capacitor agents of any traumatic mishandling of my part in the past. The calc is not completely unresponsive (the keys on the left side do work and she gets turned on when I push the lowest left-side button). He says maybe she likes rough handling as I've confessed to him that I twist her in all directions to get some response. Some individuals stop responding to their usual stimuli of excitement and require different motivation at some point, according to him. Further, he says that, if this doesn't work, he would consider giving us professional advice in his office, for a charge. Oh, he's a psychologist specialized in counseling broken marriages.

Seriously now.

I don't wanna give up my 27S for dead just yet. I've read Mr. Brogger's article on

"Pioneer Observational Internal" of 4/2/2000 and other articles dealing with ways to restore Pioneers, but I lack the guts (and the technical know-how) to open the little machine (I must confess I'm all thumbs when trying these tasks). Can anyone recommend someone (preferably in the continental US) who'd be willing to take a look at my 27S and make her sing and dance again (though, in an algebraic gait still)? I sincerely appreciate any recommendations.

Re: Dead HP-27S

*Message #8 Posted by [Paul Brogger](#) on 3 Apr 2001, 9:41 a.m.,
in response to message #7 by J. Lopez.*

I'm willing to offer my services, but I'm not sure at what terms.

I'm going on vacation for a couple of weeks. If by then you've not found a repair-person, email me and we'll see if something may be worked out.

Whatever happens, good luck with your baby!

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Re: HP-67 Repair/Restoration

Message #1 Posted by [Dave](#) on 29 Mar 2001, 11:01 a.m.

There is nothing sacrilegious about combining parts from various non-functioning units to make a operating / better looking calculator. Using 1000 grit sandpaper lightly under the metal key contacts can help key functions (sticky, bouncy or intermittant operation) should the keypad part not function on the battery damaged calc.

Re: However....

Message #2 Posted by [Mike](#) on 29 Mar 2001, 12:42 p.m.,

in response to message #1 by Dave

Replacing a back from a 65 with a back from a 67 causes two 65s to exist with the same serial number (potentially). This does not sound like a good practice (to me).

Re: HP-67 Repair/Restoration

Message #3 Posted by [Glynn](#) on 29 Mar 2001, 1:46 p.m.,

in response to message #1 by Dave

I had many of the sort of questions you had, and started the above-mentioned thread, asking what collectors thought. Boy, the answers I got! And that was good, as I wanted to better understand some of the reasons for what we do and what we expect of our fellow collectors.

There are going to be a couple of purists who won't like your calcs. But the majority of us, I think, would prefer that you DID make two working, good-looking calculators... and wouldn't you prefer it too?

Collecting has several components. One is obviously the emotional side, love for the items and what they mean to the collector personally. Another part is economic-- what value will it bring from other collectors? And then there is the utilitarian side: does it function and look as it was intended to?

There ARE sticky issues in each of those areas. If you approach it strictly from one facet, you

will possibly commit a "faux-pas" in the eyes of others whose motivations are different.

I have pretty much decided that, for my own purposes, I want a calc that works and looks like new, insofar as that is possible-- BUT that since I intend to collect and trade with others, there is a responsibility to honestly and fully disclose any repair or change made to the original condition I got it in, to anyone I trade with, before they commit to the trade.

Ideally, one would document part-swaps and repairs, and the reasons for them, and include that document in your descriptions to others. Then THEY can decide if what you have is worth anything to them.

But since they are YOUR calcs to do with as you please, ask yourself what YOU want out of all this. If these calcs are for display and collector-value, you will operate a bit differently than if they are tools you wish to rely on and use in your personal endeavors.

Rarity may play a part in your decisions: you would want to treat a red-dot 35 differently than a stock 67, I would guess.

Sacrilege--- truly--- is that many of the calcs and computers we love are crushed to extract the precious-metal content. Many more end up taking a square-inch or two of landfill, benefitting no one, simply because nobody was around who recognized their value.

When I see a lovingly-restored calc on someone's site, personally, my insides cheer.

I couldn't speak for everyone; some would feel as if you had found an old bottle, filled it with cheap wine, corked and labelled it, and represented it as a highly-valued vintage.

My only response can be: do what you do in the spirit of a steward or caretaker, suiting yourself that you are doing whatever is best for the calcs you own, then label and represent it for what it is exactly, and no one should have a real complaint.

Re: HP-67 Repair/Restoration

*Message #4 Posted by [Dave](#) on 29 Mar 2001, 4:30 p.m.,
in response to message #3 by Glynn*

Just a follow up for notes -

Regarding serial nos. - The early HP calcs (including the 65) had serial numbers on foil tape and the authenticity of these are certainly questionable unless you bought the calculator new.

The 67 calcs usually have a serial number stamped in the plastic back (though some later 65s could have the same)

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printing problems....

Message #1 Posted by [alditenen from argentina](#) on 29 Mar 2001, 8:57 a.m.

I have a 82143A printer, thats works with the hp41 alculator.....

It can't print the first line of each character, so it is little dificult to read the lisinging programs.....

Would it have any solution??

Re: printing problems....

Message #2 Posted by [David Smith](#) on 29 Mar 2001, 4:40 p.m.,
in response to message #1 by [alditenen from argentina](#)

If you have the HP Museum CD set it includes the HP97 service manual that describes the HP97 printer. It is almost identical to the 82143A printer. I seem to remember the service procedures talk about adjusting the margins on the printer.

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Series 40 software catalog

Message #1 Posted by [alditenen](#) on 29 Mar 2001, 8:53 a.m.

I have just found a Series 40 software catalog.....from August'84...!!

I want to know what happened with those programs....Are they missed....?

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' surrogate family '

Message #1 Posted by [bryan](#) on 29 Mar 2001, 2:32 a.m.

... New HPMuseum visitor ... Old HP user

From the recommendation of one of your frequent fliers, I have spent the past few hours flipping through some of the posts here -- time well spent! Not really understanding the depth of such eclectic gatherings until now, its really refreshing to find some fellow enthusiastic_enthusiasts_ (and by the sound of some of the healthier exchanges, I think I'm not alone here). Realizing that I am new to the whole group posting/discussion thing, it really sounds as if the core group of users here is:

- . 1) excited about the topic,
- . 2) encourage the 'kids' (as myself) to get involved,
- . 3) offer 'actual' solutions (a rarity at best these days ...), and
- . 4) provide a service for a topic that could easily be labeled as geek territory by 'normal' people (I'm an engineer geek myself ...)

Thanks, being sort of alone here in my appreciation for the HP stuff (and a big 41 fan), I'm glad you all have gathered. I hope to frequent often and pick up the little tidbits of hp lore.

. Like that quirky, backyard neighbor in Seinfeld, I'm anxious to 'participate' where I can. (Thanks to all for building that fence).

Re: ' surrogate family '

Message #2 Posted by [Ernie Malaga](#) on 29 Mar 2001, 10:09 a.m.,
in response to message #1 by [_bryan_](#)

Welcome, Bryan!

The more, the merrier. I, too, am an HP-41C fan, and a longtime user of HP calculators.

Ernie

Re: ' surrogate family '

Message #3 Posted by [_bryan_](#) on 29 Mar 2001, 2:24 p.m.,
in response to message #2 by [Ernie Malaga](#)

Thanks! Hope to participate where and when I can.

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Download files from a PC to HP110 via the serial port??

Message #1 Posted by [Tal](#) on 29 Mar 2001, 2:08 a.m.

Hi, All!

I wonder if it is possible to download files from a PC to HP110 via the serial port?

Best regards, Tal email: td@chem.ch.huji.ac.il

Re: Download files from a PC to HP110 via the serial port??

Message #2 Posted by [Steve \(Australia\)](#) on 29 Mar 2001, 9:49 a.m.,
in response to message #1 by Tal

I believe that's how I did it in the good old days (when even the company I worked for couldn't afford the HI-IL interface card :-)

I believe the inbuilt terminal program supports XModem. Just do it like it was done when a fast modem was 300 baud.

Re: Download files from a PC to HP110 via the serial port??

Message #3 Posted by [Reinhard Hawel](#) on 29 Mar 2001, 10:47 a.m.,
in response to message #2 by Steve (Australia)

The serial port on the 110 has a nonstandard pinning. I remember posting this here abt two years ago. I'll try to find it again and repost it in this thread.

BTW: I'd recommend using the Kermit software. The 110s terminal programs are rather poor. There's a special implementation of Kermit for the 110.

You can't use "normal" communication software - the 110 is a little incompatible to anything else. You can burn software into EPROMS (PROMS) and put it into the so-called

ROM drawer.

There is a little software out there for the 110 (in example VDE).

Re: Download files from a PC to HP110 via the serial port??

*Message #4 Posted by [Philip Reagan](#) on 29 Mar 2001, 2:31 p.m.,
in response to message #3 by Reinhard Hawel*

The Pin configuration for the RS232C 9-Pin connector on the Portable Plus is:

1 DTR 2 Xmit Out 3 Rcv In 4 RTS 5 CTS 6 DSR 7 GND 8 Rcv Line Signal Detect or
Data Carrier Detect (DCD) 9 Ring Detect

Given this pinout, you should be able to make sure any null modem cable you have works with your system. I hope this helps on at least the cable portion.

Re: Download files from a PC to HP110 via the serial port??

*Message #5 Posted by [Stefan Vorkoetter](#) on 29 Mar 2001, 4:26 p.m.,
in response to message #2 by Steve (Australia)*

I used to do this all the time. I wrote a little program for my PC which would turn any file (up to 64k) into a DEBUG script that would recreate the file. Then, I'd connect the PC to the 110, type CTTY COM1 at the 110's DOS prompt, after which I could talk to it from a terminal emulator on my PC. On the PC, I then typed DEBUG to the 110 to start the DOS debugger on the 110. I just used the emulator's text file sending facility to send the DEBUG script to the 110. When back at the 110's DOS prompt, just type CTTY CON to return control back to its keyboard and screen.

Stefan

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Regrets

Message #1 Posted by [D. Banks](#) on 28 Mar 2001, 9:35 a.m.

I know I'm repeating myself, but I still remember back in the 70s when the HP-70s went on closeout. The price dropped so much (along with the others that were closing out at the time) that I remembered thinking I could start an HP collection, starting with the 70, which I assumed would be one of the harder ones to get later on, since I never knew anyone who'd buy one.

It was indeed pretty cheap, but since I was making about \$600/month at the time, I really couldn't afford it.

Now, I see a 70 being bid up to \$480 on its first day on eBay, and I have to wonder how many of my own footprints my butt is going to collect over the next week.

Yeah, yeah, inflation, opportunity cost, all those arguments. Still... I sure wish I'd got that 70 when I had the chance.

Depends on how much they were on closeout!

Message #2 Posted by [Gene](#) on 28 Mar 2001, 5:08 p.m.,

in response to message #1 by D. Banks

Inflation has pretty much tripled the value of \$1 since 1975, so if an HP70 is \$500 today, then this is equivalent to about \$166 back in 1976.

I'd guess, but I also imagine that \$500 today is a smaller percentage of your income than \$166 might have been back in 1975.

Still, IF you had found them REALLY cheap and kept them NIB, then you would make a real killing today.

My 2 cents, Gene

Re: Depends on how much they were on closeout!

*Message #3 Posted by [S. Martin](#) on 29 Mar 2001, 1:48 p.m.,
in response to message #2 by Gene*

Perhaps the best investment would have been in a 16C. In 1989 they were selling for perhaps \$60. Buying one new and selling it today on eBay would bring at least 5 times your investment (a 16C NIB goes for at least \$300 today on eBay). That's equivalent to investing \$60 in a savings account over ten years with an annual interest rate of 16.2%. Not too bad!

But then again, hindsight is 20/20.

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HP-22 Repair

Message #1 Posted by [D. Banks](#) on 28 Mar 2001, 9:25 a.m.

Ok, so I've got two broken HP-22s. One just doesn't power up, due to what appears to be damage to the etches on the PC board from battery corrosion. The other powers up, but half its ram is bad - stack and basic 4-functions work, but any use of the storage registers (which means, any use of the financial functions) result in stuck bits an poor calculations.

I'm thinking it might be possible to build one working 22 out of these pieces. Seems like the simplest notion would be to transfer the chip containing the register RAM from the etch damaged unit to the RAM damaged unit, but that could just be naive on my part. The big thing stopping me from doing this is that I don't really know which chip is which.

Suggestions?

Re: What I would do first

Message #2 Posted by [Mike](#) on 28 Mar 2001, 4:56 p.m.,
in response to message #1 by D. Banks

What I would do first is to try and get the one that does not power up, to work, if posible. If you try to get one working from two bad ones, you might wind up putting good chips into a bad caluclator.

Second, damage to circuit traces does not stop the calculator from working unless they are completely disconnected. If they are simply discolored or partially damaged, that is probably not the problem.

Third, I would disassemble and clean each of the contacts in the connecitons between boards and at the LEDs. I have restored operation to bad calculators by simply doing this cleanup task.

Once you have one working, then swapping things to make one better one might be more realistic.

Re: What I would do first

*Message #3 Posted by [D. Banks](#) on 28 Mar 2001, 9:25 p.m.,
in response to message #2 by Mike*

I tried cleaning the main power etch on the one calc. It looks like it was completely eaten away. I figure I'll try jumpering around the bad part and see what happens.

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HP 27S : the new 42S ?

Message #1 Posted by [Thibaut.be](#) on 28 Mar 2001, 4:42 a.m.

I've allways thought that the ultimate HP calculator was the 42S. Ththa's why, even if very expensive, I could understand that some people (including me) would pay \$200+ for this calc.

Lately on ebay, the 27S, which is not even a RPN calc, competes with the 42S in prizing !

Isn't that strange ?

Re: HP 27S : the new 42S ?

Message #2 Posted by [Ron Ross](#) on 28 Mar 2001, 8:26 a.m.,
in response to message #1 by [Thibaut.be](#)

Not at all. I feel these two calculators were the best that Hp ever sold. I like the power and capabilities of the 42 more than the 27. But I would probably take the 27 over anything else even if I had to switch to algebraic. Reasons: Has all the scientific functions a scientific should have. Has almost 7 K RAM that you can just type in equations as you see in a book and use solve. It also has a clock and date arithmetic (something I wish the 42 had).

The Hp solve is the easiest to use. Most people can just pick this calc up and make use of 80% of its capabilities. No other Hp is as easy to learn and use.

The downside of course is that Hp did not make this calc RPN/algebraic selectable. It doesn't have any matrix capabilities(great for linear eq.), but then again this calculator was aimed at the managerial level and not targeted to the technical engineer.

I was hopeful that it would not become such an item. My wife use's this calc & I bought her 1 spare. She has used a few others but has always returned to the 27.

Me?, I use a 48g, but only because they are almost the cheapest calc available in RPN. Also the multitudes of features and conversions is almost like a desk reference. My 42 stays home and

safe. If I lost the 48, I would bring in another.

Re: HP 27S : the new 42S ?

*Message #3 Posted by [D. Banks](#) on 28 Mar 2001, 9:30 a.m.,
in response to message #2 by Ron Ross*

I think the 27S is just a bang-up calculator with two basic flaws. Still, I remember the heady days of buying one new (brought home from the Harvard Coop in a bag with 3 other new HPs including the pre-RPN HP-17B).

Two flaws?

1) Not RPN 2) Algebraic, but with the same old postfix functions, which is what always ruined algebraic input as far as I was concerned.

Otherwise, a very nice "do all" calculator that was very comfortable to use. I agree with others: if it weren't for the 42S, this would have probably become my primary calc.

It really bugs me that HP killed off all its scientific models with the 2-line LCD. That alone is what prevents me from warming up to the 32S or 32Sii.

Re: HP 27S : the new 42S ?

*Message #4 Posted by [Tom \(UK\)](#) on 29 Mar 2001, 12:30 p.m.,
in response to message #3 by D. Banks*

It supprises me that companies (including HP) forget that users want products with the _right_ level of features. The HP41/42/27/12 probably hit the spot for their targetted markets.

Now HP seem to be pushing engineers onto the HP48/49 instead of offering a model between the HP32 and 48 (EG the HP42). (The HP38/39/40 seem to be for the educational market)

Although the HP48 is a fine machine, I find it far too intimidating and over complex for simple tasks. The HP32Sii is also good (very similar to the HP67 and HP11/15) but is a bit under powered for day to day use.

Perhaps HP or someone more expert than me could write some code to make the HP48 or HP49 act like an HP42S. Including key stroke programming. (The HP48 would be slightly better as it can take keyboard overlays). I would be happy to pay for such a program.

Unfortunately I came to the HP fold late - after the HP42 was withdrawn :-(before this I was a casio kid.

Re: HP 27S : the new 42S ?

*Message #5 Posted by [D. Banks](#) on 29 Mar 2001, 2:17 p.m.,
in response to message #4 by Tom (UK)*

The thing that would make a 42S emulator for a 48 sort of moot for me is form factor. One of the biggest wins of the 42S is that they manage to fit so much in such a comfortably compact package.

Yeah, I can do more of everything on the 48, but it's like carrying around a canoe oar. The 42S is just so much more practical.

Re: HP 27S : the new 42S ?

*Message #6 Posted by [Dan M](#) on 29 Mar 2001, 7:40 p.m.,
in response to message #5 by D. Banks*

Yeah, and if "they" could figure out a way to make a Palm Pilot program out of it, then I could carry around one less electronic gadget, comfortably compact or not!

Canoe oar, indeed! That's a great mental image, because it's true!

Dan

Re: HP 27S : the new 42S ?

*Message #7 Posted by [Tom \(UK\)](#) on 30 Mar 2001, 2:41 a.m.,
in response to message #5 by D. Banks*

Yes I agree - it's big, heavy and the battery consumption is high compared to the older stuff (several sets of batterys a year rather than several years per battery set) but an HP42S emulator would give those wanting an engineer's calculator (rather than a programmer's calculator) something to use.

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hp 41 battery powered heater

Message #1 Posted by [db \(martinez, california\)](#) on 27 Mar 2001, 8:42 p.m.

i had a real scare today. i took out my 41 and it wouldnt turn on. i tried a couple of things; no dice. i said oh well; thats 18 years from one unit, and i've got a spare. i put it back in my vest and got it out a half hour later when i had a minute. it was WARM on the alpha cheat sheet sticker. i tore off the bag and popped out the batteries. i think it smelled like hot plastic, but i've got a cold. i put them back in after inspecting the keybaord and it worked fine. wierd. i hope this is not going around.

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Good buy - or goodbye?

Message #1 Posted by [John M.](#) on 27 Mar 2001, 9:17 a.m.

I have been a HP fan since the 41s were introduced. Today I found that our U bookstore has a couple of 32S left over, at \$80. What do you think? Should I pick up one?

John

Re: Good buy - or goodbye?

Message #2 Posted by [Jonathan](#) on 27 Mar 2001, 10:24 a.m.,
in response to message #1 by John M.

Well, since you can easily buy a 32sii for \$60 (\$50 if you look hard) I would say it's NOT a good buy, especially since a 32sii is a better calculator. If you're specifically looking for a 32s, look at ebay. I saw one sell for \$50-\$60 last week.

Re: Good buy - or goodbye?

Message #3 Posted by [Frank Knight](#) on 27 Mar 2001, 4:26 p.m.,
in response to message #1 by John M.

A collector on here will want them to be sure (Tom?, Gene? who else?. Not a good buy for use, check Amazon on the 32sii or HP web when they happen to have some in stock!

Re: Good buy - or goodbye?

*Message #4 Posted by [John M.](#) on 28 Mar 2001, 6:35 a.m.,
in response to message #1 by John M.*

I forgot to mention that the NIB 32S that I came across includes a "Pocket Professional" PC connecting kit (cable and program). Does that make any difference to the value (\$80)?

John

Re: Good buy - or goodbye?

*Message #5 Posted by [Dave](#) on 28 Mar 2001, 12:53 p.m.,
in response to message #4 by John M.*

No, the 32S does not connect to a PC

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forth 41

Message #1 Posted by [thib](#) on 27 Mar 2001, 5:51 a.m.

does anybody have any information concerning forth 41? Is that the forth language for hp41? who did that? When ? I 'd like to know more about it. I thank you in advance.

Re: forth 41

Message #2 Posted by [Mike](#) on 29 Mar 2001, 3:44 p.m.,
in response to message #1 by [thib](#)

AFAIK, PPC-T did it. T is for Toulouse. Ask Emmanuel (Xeq41@aol.com). I have only the two ROM images (as I understand one is for page 4, what is normally for take over ROMs like the SERVICE Module), but I still have no documentation for this FORTH. Ciao.....Mike

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Card reader repair

Message #1 Posted by [Dane](#) on 26 Mar 2001, 10:32 p.m.

I am working on a couple of hp41 card readers I recently picked up. I am following the directions on replacing the gummy pinch roller which I have found very helpful but when I opened the case I found 2 of the internal screw post on the case are broken. Also, one of the internal screws is missing so it looks like someone had opened this up at some time. My question is has anyone had any success repairing the internal screw posts? I can use superglue to get everything back together but I think the repair will be too brittle and will fail with normal wear. I am thinking of trying one of the newer superglue's that are advertised to be more pliable. Does anyone have any thoughts or suggestions or should I just save this for parts? The reader did work before but left the gummy residue and had some external trauma so I'm sure it was dropped. Thanks for your help. Dane

Re: Card reader repair

Message #2 Posted by [Dave Huff](#) on 27 Mar 2001, 12:46 a.m.,
in response to message #1 by Dane

Dane,

As far as "super glues" go, try your local hobby shop and see if they have "plasti-zap", get a bottle of "kicker" to go with it; better yet visit a model aviation field in your area one weekend and I bet somebody would have this stuff in their toolbox and be more than happy to give you a drop and a shot. The "plasti-zap" is just another cyanocrylate glue (read super glue), but the "kicker" is kind of a vanilla smelling spray that acts as an accelerant. Put the glue on the parts, put the parts together and then spray a shot of the "kicker". WARNING..do NOT have your eyes or nose near this stuff when you do it, because when the chemical reaction occurs, it will form a whisp of smoke that will make you rub your eyes for quite a while. If you want to build up the area around the post, baking soda sprinkled into the wet cyanocrylate glue will form a good bond. You put the kicker to that and you'll break something else before you break the repaired area. Hope this helps, let us know.

Re: Card reader repair

*Message #3 Posted by [Dane](#) on 29 Mar 2001, 9:48 p.m.,
in response to message #2 by Dave Huff*

Thanks Dave, I'll give it a try and let you know. Interesting, I have two readers I am working on, I planned on replacing the pinch roller in each with o-rings, one seems to work fine, the other the o-rings are slipping, same size o-rings, I'm wondering if the shaft size was changed during production. Also, thanks to you, Ty and the Museum for posting the repair info. Dane

Re: Card reader repair

*Message #4 Posted by [Randy Smith](#) on 1 Apr 2001, 11:23 a.m.,
in response to message #3 by Dane*

Dane, perhaps the o-rings you used are slightly too small in diameter or the inner diameter is too big. Randy

Re: Card reader repair

*Message #5 Posted by [CJ](#) on 1 Apr 2001, 12:31 p.m.,
in response to message #4 by Randy Smith*

I had problems with o-rings slipping. I think the ones I got are too hard. So I went with the fuel tubing method. The o-rings I tried I picked up from home depot. They are DANCO #60 o-rings. They are the right size as per the instructions on the site here. Maybe there's softer o-rings out there?

Chris

Re: Card reader repair

*Message #6 Posted by [Dane](#) on 1 Apr 2001, 3:19 p.m.,
in response to message #4 by Randy Smith*

I bought the o-rings at the same store, all the same size, they work on one card reader and not another, leads me to believe the shafts are a slightly different size. I'm going to try tubing on the second one. Just was curious if anyone else had noticed the same problem.

Re: Card reader repair

Message #7 Posted by [David Smith](#) on 1 Apr 2001, 7:59 p.m.,
in response to message #6 by Dane

I have tried O-rings from about 6 different sources and the problem I have is they place too much tension of the reader that cannot be adjusted out with the cam pin adjustment, so the cards jam. They seem to measure properly and inspection under a stereoscope looks like they should work. Fuel tubing is my preferred roller.

Re: Card reader repair

Message #8 Posted by [Wayne Brown \(Alabama\)](#) on 2 Apr 2001, 8:14 a.m.,
in response to message #6 by Dane

I had the same problem with the o-rings slipping slightly (just enough to move the card at the wrong speed). My solution was to remove them and place a very, very, VERY tiny drop of Superglue on the shaft, and then put the o-rings back. The card reader has worked flawlessly ever since I fixed it (almost exactly a year ago).

Re: Card reader repair

Message #9 Posted by [Randy Smith](#) on 2 Apr 2001, 9:14 a.m.,
in response to message #6 by Dane

When I repaired my card reader with the o-ring method I had to file down the rings a bit to make them the right size. Randy

Re: Card reader repair

Message #10 Posted by [katie](#) on 2 Apr 2001, 8:44 p.m.,
in response to message #9 by Randy Smith

I've done a couple of dozen card reader repairs and after trying almost everything, have found silicone rubber tubing sold by Small Parts, Inc. to be by far the best solution. It's 1/4" OD x 1/8" ID sells for \$24.24 for a 10-foot length under part number: U-210005. It fits the shaft tightly with no need for glue and works perfectly every time with never any slippage or need to make adjustments.

Small Parts, Inc. is at: www.smallparts.com

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Opening an HP-21

Message #1 Posted by [Jonathan](#) on 26 Mar 2001, 6:55 p.m.

Does anyone know the "proper" way to crack open an HP-21? It looks like the only possible way to get in is by removing the top cover. How should I go about this? How did HP put these things together in the first place, glue? Thanks for your help.

Re: Opening an HP-21

Message #2 Posted by [Ty Rogers](#) on 26 Mar 2001, 9:04 p.m.,
in response to message #1 by Jonathan

Jonathan,

The screws are located under the feet.

Re: Opening an HP-21

Message #3 Posted by [Paul Brogger](#) on 27 Mar 2001, 7:59 p.m.,
in response to message #1 by Jonathan

If I remember right, the rubber feet near the display end of the calculator are inserted into rectangular recesses in the bottom case. These may be slid out, and a cross-head screw is underneath each. After taking out the two screws, the face comes away from the case at the display end. It is retained at the other end by a tab inserted into a recess inside the case, and comes apart easily. (Again, if I remember correctly!)

Good luck.

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HP-41CV Emulation cards for HP-48SX

Message #1 Posted by [J. Lopez](#) on 26 Mar 2001, 5:12 p.m.

I've found an old electronics shop selling HP-41CV emulation ROM cards for the HP-48SX calculator. They don't have that many, but I could see at least two boxes. The boxes are marked with a price of \$99.95 and there's no mention in them as to their fitness for the HP-48GX calculator.

I'm wondering if anybody here has any experience with these emulators and whether the emulation they provide is worthwhile to put in your HP-48. Also, is there any chance of ruining an HP-48GX if one of these cards is installed in them?

I'd appreciate any feedback.

Re: HP-41CV Emulation cards for HP-48SX

Message #2 Posted by [Chan Tran](#) on 27 Mar 2001, 9:22 a.m.,
in response to message #1 by J. Lopez

The card only works with the SX. It won't ruin the GX but won't run on the GX and may cause memory lost. I have one it's pretty nice to have. \$99.00 is a high price I think I paid less for mine.

Re: HP-41CV Emulation cards for HP-48SX

Message #3 Posted by [J. Lopez](#) on 27 Mar 2001, 10:11 p.m.,
in response to message #2 by Chan Tran

Thanks, Chan.

I was thinking about buying one but wanted to make sure that it would work in my 48GX. It must be pretty interesting to key-in HP-41 programs into the 48 and put them to work with a minimum of modifications. The price marked in the boxes, though, I'm sure will be lowered by the salesman with a little haggling by a potential buyer. I did not ask him directly for a price.

Thanks again for your informative answer.

Re: HP-41CV Emulation cards for HP-48SX

*Message #4 Posted by [Chan Tran](#) on 28 Mar 2001, 12:09 p.m.,
in response to message #3 by J. Lopez*

If you have the HP41 with the IR printer module you can transfer 41 Programs to the 48.

Re: HP-41CV Emulation cards for HP-48SX

*Message #5 Posted by [Matt Kernal \(US\)](#) on 28 Mar 2001, 2:02 p.m.,
in response to message #3 by J. Lopez*

From Joe Horn's "emulator.doc" document on Goodies Disk #1, he said the following about the emulator card:

"My biggest fear was that it would repeat the HP-71's 41 emulator's mistakes, but it doesn't. You CAN write new 41-code programs on the 48, and you CAN list out the programs 41-style. (The 71 couldn't do either of these.) On the 48, you merely type the 41 program into a string, and press the ->41 menu key, and it gets compiled into a Library Object for the Emulator to run. If you want to, you can also decompile it again by pressing ->TXT. You needn't do so in order to print out a listing, however; the Emulator contains the same printer commands that the 41 IR Module and IL Module contain.

But programs needn't be typed in; you can "print" a listing by the 41's IR module, and the Emulator will capture it, automatically decide whether it's a program, data, or status info, and compile it accordingly. Or you can use the dumb INPRT program (on the Emulator card) to capture the listing and leave it as a string on the stack so that you can edit it."

In essence, when writing 41 programs on the 48SX, the emulator card doesn't emulate the 41's PGRM mode prompts. As Joe said, you must enter the program as string (on the 48's stack) and then compile it using the ->41 menu key.

Matt

Re: HP-41CV Emulation cards for HP-48SX

*Message #6 Posted by [CJ](#) on 31 Mar 2001, 7:12 a.m.,
in response to message #5 by Matt Kernal (US)*

<<From Joe Horn's "emulator.doc" document on Goodies Disk #1, he said the following about the emulator card:

"My biggest fear was that it would repeat the HP-71's 41 emulator's mistakes, but it doesn't. You CAN write new 41-code programs on the 48, and you CAN list out the programs 41-style. (The 71 couldn't do either of these.) On the 48, you merely type the 41 program into a string, and press the ->41 menu key, and it gets compiled into a Library Object for the Emulator to run. If you want to, you can also decompile it again by pressing ->TXT. You needn't do so in order to print out a listing, however; the Emulator contains the same printer commands that the 41 IR Module and IL Module contain.>>

With all due respect to Joe Horn. You CAN write new 41 code on the 71. Here is a quote from my 82490A manual(page 38).

<quote> You can write HP-41 programs directly on the HP-71 using the HP-71 Text Editor Program (editor, for short) included in the HP-41 Translator Pac. Using the editor, you can create new programs, much as you would on the HP-41, or you can copy programs directly from HP-41 program listings, matching the listings character-for-character, line-for-line. </quote>

Once you have the program(text file) entered, you use the other supplied program "trans41" to convert the program for running in the emulator, somewhat like the 48's ->41 menu key.

you CAN list the text file or the converted file from within the emulator with this type of command.

" LIST COUNT" BASICX

This is to list a small counting program I wrote on the 71. The converted file is not that much different from the original text file. So if you wanted to, you could enter the 41 code in that format and skip the translation procedure all together.

Also with the forth system you can add new functions to the 41 emulator. On page 47 in the manual it explains how to do this. And the new function behaves just like any other function. So skys the limit from my view. The ROM truly is an amazing

piece of work in my opinion.

Chris

Re: HP-41CV Emulation cards for HP-48SX

*Message #7 Posted by [Matt Kernal \(US\)](#) on 1 Apr 2001, 11:53 p.m.,
in response to message #6 by CJ*

CJ> With all due respect to Joe Horn. You CAN write new 41 code on the 71.

I believe you. What you say sure sounds accurate. Too bad he didn't provide more details about the 41/71 Translator ROM (he probably has elsewhere), because I think he was really into the 71 back then; he even has some 71 stuff on his website now. But let me say it again, I do believe you.

CJ> The ROM truly is an amazing piece of work in my opinion.

I don't have the 71 Forth ROM (although I do have the 41CV emulator card for the 48SX), but I very sure Dr. Wickes wouldn't have let any junk out the door! :^)

Matt

Re: HP-41CV Emulation cards for HP-48SX

*Message #8 Posted by [CJ](#) on 2 Apr 2001, 7:40 a.m.,
in response to message #7 by Matt Kernal (US)*

CJ> With all due respect to Joe Horn. You CAN write new 41 code on the 71.

<I believe you. What you say sure sounds accurate. Too bad he didn't provide more details about the 41/71 Translator ROM (he probably has elsewhere), because I think he was really into the 71 back then; he even has some 71 stuff on his website now.>

I have seen most of his website. That's why I said with all due respect :^) It just suprised me that he said that, when it's right in the manual how to enter programs.

I am off topic here but I just wanted to clarify that it is possible.

I have been mulling over getting a 48 for everyday use since my other machines aren't allowed out of the house. I didn't know it could run 41 code with the card. Now I'm going to be looking at the 48 again. :^)

Chris

Re: HP-41CV Emulation cards for HP-48SX

*Message #9 Posted by [Mike](#) on 29 Mar 2001, 3:55 p.m.,
in response to message #3 by J. Lopez*

The card *IS* usefull if you have a lot of HP-41 programs you like to take with you in your "new" HP-48SX (grin). If you did synthetic programming on the your HP-41 or used instructions from plug-in modules you will have to do some fiddling. Otherwise the migration is as easy as printing to the IR-Printer.

BTW, are there libraries arround for that emulator card that contain the plug-in instructions? (I mentioned this emulator card on my homepage, have a look at <http://ourworld.compuserve.com/homepages/NutEm>)

Ciao.....Mike

Re: HP-41CV Emulation cards for HP-48SX

*Message #10 Posted by [wlodek Mier-Jedrzejowicz](#) on 4 Apr 2001, 3:46 p.m.,
in response to message #9 by Mike*

Oh, dear, I've come across another interesting (to me!) thread late.

Mike asked: >BTW, are there libraries arround for that emulator card that contain the plug-in instructions?

I'd love to know that too. When the card was created, the programmers were writing the code and I was writing the manual in parallel. If they had a new idea they would put it in the code and I'd add it to the manual, but if I had a good idea I'd put it in the manual and they'd put it in the code :-)

Since the requirement was for a contractor (Zengrange!) to write an HP-41CV emulator, there was no time or money to create plug-in instructions, except for some printer ones. So a set of emulator instructions was added to let people write their own copies of plug-in functions and other extensions. I have never seen much use made of these.

If any collections exist, I'd love to learn of them!

Some people might be interested to know why it was an HP-41CV Emulator, not an HP-41CX Emulator! (I wanted a 41CX Emulator too!) I believe that HP's main interest was to provide an HP-41 Emulator for Surveyors and other people with similar needs, who would have been very unhappy to suddenly lose the use of their HP-41 programs. Time Functions, Extended Functions, and so on, were considered less important, and not worth the extra expense.

Wlodek Mier-Jedrzejowicz

Re: HP-41CV Emulation cards for HP-48SX

*Message #11 Posted by [Mike \(Stgt\)](#) on 8 Apr 2001, 5:38 p.m.,
in response to message #10 by wlodek Mier-Jedrzejowicz*

Hi Wlodek,

thank you for your reply. I wonder that not even you had the time to collect the extensions of Time Functions, Extended Functions, and perhaps other modules too. I am sure that some users of the emulator card did program those extensions, just not to lose their best HP-41 routines. Well, I tried to code some extensions for synthetic programming. When I find them again one day I will show them on my homepage.

Ciao.....Mike

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New HP28S, HP42S, 48SX in shop in NL

Message #1 Posted by [Andre' Wilhelmus](#) on 26 Mar 2001, 5:37 a.m.

Edzes/Stax, Nieuweweg 5, Groningen, The Netherlands (050-3120530) has the following: 48SX: fl. 299.- (2 in stock) 28S: fl. 219.- (1) 82240: fl. ???.- (1)

Dijkgraaf-Rijsdorp, Pr. W. Alexanderlaan 1423, Apeldoorn, The Netherlands (055-3554444) has the following: 42S: fl. 225.- (1) which is about \$91

Re: New HP28S, HP42S, 48SX in shop in NL

*Message #2 Posted by [Tom \(UK\)](#) on 26 Mar 2001, 12:25 p.m.,
in response to message #1 by Andre' Wilhelmus*

I suggest you buy the HP42, and quickly.

You could sell a mint in box HP42S on ebay for much more than \$91.

If you don't feel like doing that then I would gladly buy the HP42S from you including all your expenses, postage etc. (I would then USE it for what it was intended - it would be a good upgrade for me from my HP32/HP67). I've been trying to get a reasonably priced HP42 for some time but collectors keep the prices up and HP don't make them any more. Otherwise I'll just have to wait until the heat is off collecting HP calcs (but I may have retired by then!)

Tom.

Re: New HP28S, HP42S, 48SX in shop in NL

*Message #3 Posted by [Chris Randle \(Lincoln, UK\)](#) on 26 Mar 2001, 7:03 p.m.,
in response to message #2 by Tom (UK)*

Well said Tom.

I recently bought a new 42S from a friend of mine and it's my no.1 love at the moment. A fantastic _calculator_. A totally different beast from my 48 (not quite a calculator?) and, IMHO, better for it.

I'm _using_ it too. In fact the screen is already scratched :-(but I'm not totally distraught because it'll never be sold again and so it won't bother anybody but me. In my defence, I'm normally quite careful with my possessions, and it was my 16 month old daughter (also an HP calculator fan - she calls them blick-blicks after the noise the keys make!) who scratched it, but now its battle scar reminds me of her :-)

Re: New HP28S, HP42S, 48SX in shop in NL

*Message #4 Posted by [dana bingham](#) on 26 Mar 2001, 8:16 p.m.,
in response to message #3 by Chris Randle (Lincoln, UK)*

the idea that your 16 month old daughter could have scratched your calculator... i got an 17 year old son that has never shown the least interest in my collection. i would gladly let him scratch them if he would give it time to let him see the beauty of an hp calculator.

Re: New HP28S, HP42S, 48SX in shop in NL

*Message #5 Posted by [D. Banks](#) on 27 Mar 2001, 9:35 a.m.,
in response to message #4 by dana bingham*

Prior to this message thread, I'd have found few things (related to calculators) to be of greater beauty than an HP.

Now, I think we have one: Calling an HP a "Blick-blick" I think wins the prize for beauty.

Re: New HP28S, HP42S, 48SX in shop in NL

*Message #6 Posted by [Paul Brogger](#) on 27 Mar 2001, 8:05 p.m.,
in response to message #4 by dana bingham*

Well, they don't call 'em "blick-blicks", but my two teenagers think their HP-28S calculators are pretty neat. (Except for the tape holding the battery doors in place!) I tried to get them into programming them, but no luck there yet.

Back to "blick-blick" -- what would the little ones call a latter-day HP with those no-account rubber chiclet keys? "Mush-mush?" At least the old ones made a noise!

Re: New HP28S, HP42S, 48SX in shop in NL

*Message #7 Posted by [John Robinson](#) on 28 Mar 2001, 2:23 a.m.,
in response to message #3 by Chris Randle (Lincoln, UK)*

Right, I'm off to find my stored away new-in-box 42S to give it to my 14 month old son, and see what he does with it :-)

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9862 vs 9125 plotter

Message #1 Posted by [Todd Pisek](#) on 25 Mar 2001, 9:46 p.m.

Can a 9100 make use of a 9862 plotter?

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FORTH41

Message #1 Posted by [Poul](#) on 25 Mar 2001, 5:05 p.m.

I found the listings of FORTH41 ROM-modules for the Hp41. Has anyone any idea of how it works and why the listings are adressed to 4000-4FFF and 5000-5FFF ??

Poul Kaarup, Denmark

Re: FORTH41

*Message #2 Posted by [Steve \(Australia\)](#) on 25 Mar 2001, 5:46 p.m.,
in response to message #1 by Poul*

It is listed as 4000 to 4FFF and 5000 to 5FFF because as one counts in hexadecimal 5000 comes immediatly after 4FFF.

1000 hex is 4KB, so the module is an 8KB module.

As to how to use it... Dunno.

Is the listing in machine readable form? Or is is on paper?

Steve

Re: FORTH41

*Message #3 Posted by [Poul](#) on 26 Mar 2001, 4:55 a.m.,
in response to message #2 by Steve (Australia)*

Yep, I know about the addresses, but the problem is that 4000 to 4FFF is the "port" for takeover ROMs and 5000 to 5FFF is the addresses where the TIME and CX functions are in the HP41CX.

I found it as a text-file on the french PPC-T site.

Poul

Re: FORTH41

*Message #4 Posted by [Steve \(Austalia\)](#) on 26 Mar 2001, 5:24 a.m.,
in response to message #3 by Poul*

Oh, OK, now I get what you mean.

From what I recall, the FORTH was available before the CX came out. And from memory I think it may have taken over the whole calculator.

This is really fuzzy though.

I'd also be keen to get more information.

I may try to get the file and have it burnt into an EPROM.

Re: FORTH41

*Message #5 Posted by [Mike](#) on 29 Mar 2001, 4:05 p.m.,
in response to message #4 by Steve (Austalia)*

No need for an EPROM-box, try it in one of the emulators around (J. P. Garnier's emu41.exe for DOS or Hrast Programmer's solution for Windos, the one from Warren Furlow on www.hp41.org needs some fixing. I have to tell him why.)

Re: FORTH41

Message #6 Posted by [Steve \(Australia\)](#) on 31 Mar 2001, 8:02 a.m.,
in response to message #5 by Mike

Yeah, but it's so much nicer to run it on the real thing :-)

BTW, do you know of any way of getting modules dumped to use them on these emulators.

I have an eprom box built into a card reader, but no dox :-)

Steve

dump modules

Message #7 Posted by [Mike \(Stgt\)](#) on 8 Apr 2001, 5:22 p.m.,
in response to message #6 by Steve (Australia)

>> BTW, do you know of any way of getting modules dumped to use them
on these emulators. <<

Yes, I do. The first ROM-images I made from the HP-41 operating system
and plug-in modules by defining a HP-71B as an IL-Printer and "printing"
the disassembler output of ZENROM to a file. Today I would use a function
of W&W's RAMbox to save a ROM to a LIF-disk, take this file binary to
VM/ESA on a IBM host and convert it to what I like. Look at [http://ourworld.
compuserve.com/homepages/NutEm](http://ourworld.compuserve.com/homepages/NutEm)

Ciao.....Mike

Re: dump modules

Message #8 Posted by [thib](#) on 9 Apr 2001, 8:30 a.m.,
in response to message #7 by Mike (Stgt)

Hello Mike,

do you have the procedure you used to define your hp71 as an IL printer?
I thank you in advance. Thib.

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Resetting an HP41

Message #1 Posted by [Steve \(Australia\)](#) on 24 Mar 2001, 6:51 a.m.

I have posted a new article in the Articles Forum.

It is a somewhat longer version of a message posted here some time ago dealing with methods of resetting HP41s.

It seems that people ask this question quite often, and I've always thought it quite unfair to ask people to go and look for it. So now it's somewhere easy to find.

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9810A needs help - Photos

Message #1 Posted by [Mike](#) on 23 Mar 2001, 8:07 p.m.

I have come into possession of a very nice 9810A. But it needs some help. It does not power up correctly. I have put a few photos with what I have done so far. Any suggestions would be helpful as I am not familiar with the working of this calculator.

<http://www.halcyon.com/ipscone/9810/9810.html>

Thanks,

Re: 9810A needs help - Photos

Message #2 Posted by [Reinhard Hawel](#) on 26 Mar 2001, 8:23 a.m.,
in response to message #1 by Mike

The three slots behind the display section are for optional modules. I'm sure you don't need them for operating the machine.

You might need a module to make full use of the printer (I have to check that). I believe, you can only print numbers without this special ROM.

Did you look into the patent, that describes the 9810? I'll have to look for the number.

Hey, I found some candidates, but not the right one (yet):

US4412300:Programmable calculator including alphabetic output capability
US4063221: Programmable calculator
US4480305:Programmable calculator including editing capability
US4203152:Programmable calculator including key-log printing means

Are schematics available?

*Message #3 Posted by [Mike](#) on 26 Mar 2001, 4:28 p.m.,
in response to message #2 by Reinhard Hawel*

I wonder if schematics are available. I'm sure I could find the problem, if I had schematics. Fixing it is altogether another problem. Parts may be obsolete and unavailable. (i.e. cpu and custom stuff).

One of my problems is that I have never seen one of these power up and don't know how to assess what I see right now. Is it stuck in power up test? Is it brain dead? Is there any kind of real life or just random state?

Re: Are schematics available?

*Message #4 Posted by [Reinhard Hawel](#) on 27 Mar 2001, 11:47 a.m.,
in response to message #3 by Mike*

I remember having them and will look after the right patent as soon as I get home. It's a rather large book (surely 200 pages together with the ROM listings).

The CPU is the same in the 9810, 20, 30 series, but all of these are not easily available anymore...

When it powers up, it makes a horrible noise from the fan and the three LED displays show "0".

I don't have a digital camera right now, but I could borrow one and take a picture. There's not much special to see anyway.

Can you receive a 30 MB email ?

Re: I can receive 30MB emails but...

*Message #5 Posted by [Mike](#) on 27 Mar 2001, 12:42 p.m.,
in response to message #4 by Reinhard Hawel*

that is not necessary if it is a photo of the LEDs. I have seen the display; quite impressive.

What I desperately need is something to help me isolate the problem. Copies of schematics, service manuals, block diagrams, etc.

With that I'm sure I could find the problem. Actually, fixing it is a whole other story. I'm sure that some parts are harder to come by than the schematics.

Thanks for your help though.

By the way, what do the patents contain that would be of interest?

Re: I can receive 30MB emails but...

*Message #6 Posted by [Reinhard Hawel](#) on 27 Mar 2001, 1:30 p.m.,
in response to message #5 by Mike*

I thought more of a .pdf of the patent with the schematics.

Re: I can receive 30MB emails but...

*Message #7 Posted by [Reinhard Hawel](#) on 27 Mar 2001, 2:28 p.m.,
in response to message #6 by Reinhard Hawel*

OK, I didn't remember the size exactly. The pdf file is abt 56MB in size and I don't think I should email something like that (except as a test for the mail relays). I'd guess with MIME coding the pdf expands to abt 100MB !!!

Instead of that I placed it onto my website. The address is:

<http://www.hawel.net/hp9810a.pdf>

Sorry, no ftp server.

The patent number is 3.859.635 and the title is simply "Programmable Calculator".

The document is 411 pages long and includes schematics, hardware description and ROM listings - enough to build yourself a 9810A.

Some versions of Netscape seem to have problems with such large files, so I'd recommend the Internet Explorer in this case (I prefer Netscape normally ...) .

The connection should be fast enough (T3, T4, T5, T6 ??? - anyway, it should be no problem, it's the University connect and it's 9:21 p.m. now in Austria, so there's surely no problem from my side with the transfer rate.)

BTW: I'd like to know, how long the transfer took.

I don't have all the other patents, I just looked at them some time ago and seem to have a rather complete list of the TI and HP calculator patents, together with the machines they describes (these aren't mentioned in the patents).

There was a lot of new inventions introduced with this calculator, so there's some patents, but this document is what you want to have.

In exchange you could measure the diameter of the printers rubber roll (mine is disintegrating - an effect similar to the magnetic card readers rolls).

I hope you can use the paper and please send me an email when you have it, because I'll have to remove it from the server (the HDD is almost full).

Re: Thanks

*Message #8 Posted by [Mike](#) on 27 Mar 2001, 2:41 p.m.,
in response to message #7 by Reinhard Hawel*

I won't be able to download it for about 4 hours. Is that ok?

Re: Thanks

*Message #9 Posted by [Reinhard Hawel](#) on 27 Mar 2001, 3:25 p.m.,
in response to message #8 by Mike*

I'll leave it on-line for at least 18 hours. Hmm... A 30 meg picture of a LED Display - sounds interesting ...

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HP41 three prong Rechargeable battery

Message #1 Posted by [Ty Rogers](#) on 23 Mar 2001, 7:40 p.m.

I have several three prong battery packs for the HP41. They have the same 82120A number. Are these for different calculators or for different volts?

Re: HP41 three prong Rechargeable battery

Message #2 Posted by [Steve \(Australia\)](#) on 23 Mar 2001, 10:28 p.m.,
in response to message #1 by Ty Rogers

No these are an earlier model of the same device.

The middle connector is actually part of a switch. You'll notice another piece of metal pushing against it. This contact opens when you insert the charger.

Beware. This version of the charger can output a much higher voltage to the calculator if the nicads are badly deteriorated (to the point of being open circuit)

This charger is a little smarter than its replacement, but I doubt whether anyone would notice the difference.

In essence, if the nicads are OK then they are totally interchangeable.

Another difference you might notice is that the models with 3 prongs also have a yellow (well mine are) plastic film over the ends of the nicads. The connection to the calculator is on this.

On the more recent version the ends of the nicads are the terminals.

Re: HP41 three prong Rechargeable battery

*Message #3 Posted by [Ty Rogers](#) on 24 Mar 2001, 4:52 p.m.,
in response to message #2 by Steve (Australia)*

Can these be modified to the two prong?

Re: HP41 three prong Rechargeable battery

*Message #4 Posted by [Steve \(Australia\)](#) on 24 Mar 2001, 7:25 p.m.,
in response to message #3 by Ty Rogers*

Well the internal circuit is quite a lot different, so it would be a rather large effort.

But the easier solution is to place a 6.2V Zener across the output. A 6.2V 1W zener can be easily wired to the board, and then you have all the benefits of the old design with complete safety should the batteries become open circuit.

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Working HP41C With no PCB Board?

Message #1 Posted by [Ty Rogers](#) on 23 Mar 2001, 7:32 p.m.

I have opened many HP41C/CV/CX's but I have never seen one without the PCB board. I just opened one with the PCB board built into the key/display board. Has anyone ever seen this? If anyone would like to see a picture let me know.

Re: Sure, I've seen them

Message #2 Posted by [Mike](#) on 23 Mar 2001, 9:54 p.m.,
in response to message #1 by Ty Rogers

It has an IC right where the pcb used to be.

Re: Working HP41C With no PCB Board?

Message #3 Posted by [Steve \(Australia\)](#) on 23 Mar 2001, 10:30 p.m.,
in response to message #1 by Ty Rogers

Would that make it a no-nut?

Post a picture to the forum!

HP41C "No-nut"

Message #4 Posted by [Ty Rogers](#) on 23 Mar 2001, 11:23 p.m.,
in response to message #3 by Steve (Australia)

I have posted the pictures

http://photos.yahoo.com/bc/ty__77705?d&.flabel=fld1&.src=ph

Re: HP41C "No-nut"

Message #5 Posted by [Philip Reagan](#) on 24 Mar 2001, 12:25 a.m.,
in response to message #4 by Ty Rogers

That's neat! I haven't heard anything about these. Is it a CX? What is the Serial Number?

Re: HP41C "No-nut"

Message #6 Posted by [Ty Rogers](#) on 24 Mar 2001, 9:58 a.m.,
in response to message #5 by Philip Reagan

The calculator is a HP41C with a scratched on serial no. 2223S44044. It is lighter than the others also.

Re: HP41C "No-nut"

Message #7 Posted by [Ion Abraham \(New Mexico\)](#) on 24 Mar 2001, 11:20 a.m.,
in response to message #4 by Ty Rogers

Dear Ty,

That looks really neat! You said this is a C, so is it possible that this unit was originally a Fullnut C that was sent in to HP to be fixed, and they upgraded it to the Halfnut C equivalent? That would make it very rare. Is the screen rounded or squared off at the corners?

I mention this because a CX Halfnut that I have looks a lot like your picture, but it has a bigger chip. I would love to see a picture of the front of your C.

Where did you find this thing, by the way?

Best regards,

Ion Abraham Albuquerque, New Mexico

Re: HP41C "No-nut"

*Message #8 Posted by [Ty Rogers](#) on 24 Mar 2001, 4:21 p.m.,
in response to message #7 by Ion Abraham (New Mexico)*

Ion,

A picture of the front has been posted. As you can see in the picture the display is rounded. I got it on Ebay. I guess it was repaired by the way the serial no. has been scratched in on the back. Who knows.

Re: I've seen these in CV

*Message #9 Posted by [Mike](#) on 24 Mar 2001, 6:10 p.m.,
in response to message #7 by Ion Abraham (New Mexico)*

The last one I just had one of these in a CV variety. My guess is that this is simply reduced electronic versions.

I don't think they are all that rare.

Damn! More to collect :-)

*Message #10 Posted by [Steve \(Australia\)](#) on 24 Mar 2001, 7:31 p.m.,
in response to message #9 by Mike*

So do we now have the full-nut, half-nut, and the no-nuts?

Now I've got more to collect.

How about blank-nuts, half-blank-nuts and no-blank-nuts?

I'm going nuts just thinking about.

"I've got a lovely bunch of coconuts" "There they are all sitting in a row"

This is steve's other half. The men in the white coats are coming soon. Don't worry dear.

Re: Damn! More to collect :-)

*Message #11 Posted by [Wlodek Mier-Jedrzejewicz](#) on 4 Apr 2001, 3:59 p.m.,
in response to message #10 by Steve (Australia)*

Another late follow-up - I just don't find the time to keep up here :-)

Ty's No-Nut is definitely from an HP-41C sent for repair to HP, who replaced the entire calculator with a Halfnut unit and scratched on the serial number of the original HP-41C sent for repair.

These are rare - the HP-41C was no longer on sale when the Halfnut version of the HP-41CV and HP-41CX was put on sale. So the only way to get a Halfnut HP-41C is to find one of these replacements.

How many people will admit to having one? I was extremely lucky to get one from a fellow collector to whom I am very grateful!

Wlodek Mier-Jedrzejewicz

Re: Damn! More to collect :-)

*Message #12 Posted by [David Smith](#) on 5 Apr 2001, 4:44 p.m.,
in response to message #11 by Wlodek Mier-Jedrzejewicz*

It sounds like a 41C that I had sent back to HP for repair in the mid 80's. It came back with the brains and memory of a 41CV (and a note not use use memory modules). Case still says 41C and has the original serial number. I wonder what other mutants are out there?

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employee

Message #1 Posted by [Sandy Bates](#) on 23 Mar 2001, 7:02 p.m.

Hi, I am trying to reach a HP employee in the Ink Jet Division, her name is Sharon Beckett, is it possible to get this e-mail to her

we used to work together, I left HP/Corvallis in 1996

thanks sandy

Re: employee

Message #2 Posted by [Steve \(Australia\)](#) on 23 Mar 2001, 7:14 p.m.,
in response to message #1 by Sandy Bates

It might be possible I guess, but I think that if you left a message with HP it might be easier.

Just because Dave Hicks (who provides this service) is a nice guy doesn't mean he's from HP. :-)

Re: employee

Message #3 Posted by [Kim](#) on 7 Apr 2001, 5:51 p.m.,
in response to message #1 by Sandy Bates

Hi

The best - and least obtrusive - way to find out would be to write an email to her like this

first_last@hp.com.

Kim

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Can someone 'splain these 75Ds to me?

Message #1 Posted by [D. Banks](#) on 23 Mar 2001, 6:22 p.m.

Ok, so I took a flyer and bought myself a couple of HP-75Ds on eBay. Never intended to collect the 41/75/71B series, but what the heck? Price was right.

The 'putes came encased in 82718A modules, which I assume adds a modem and... what else? The auctions were "as is" with no supporting documentation or explanation.

I tried removing one of them from the 82718A - easy enough to do by removing 6 screws, but I see a pair of wires emerging from the side of the computer, leading to a mini-jack on the back of the expansion base. What is that?

The computers themselves seem to take classic series battery packs (and indeed power up and do things once such a pack is inserted). The base looks like it takes a pair of those packs. Only place I see to plug in an AC adapter is on the back of the computer itself - it has two prongs, and looks like it'll take the same charger as an HP-97, but I haven't tried.

I've looked through the docsets on the HP museum CDRoms, and while I find the owners and reference manuals, I don't really see anything pertaining to this external hardware.

Anyone got a clue they'd like to share? Thanks.

Re: Can someone 'splain these 75Ds to me?

*Message #2 Posted by [Glynn](#) on 24 Mar 2001, 1:11 a.m.,
in response to message #1 by D. Banks*

I had the same questions in April or so... ;-) The wires are the ones for the internal speaker, which, when you disassemble your 75d, will be found to be missing. Apparently, when you get the "pod", you get external earphone service, not the usual speaker. On the good side, you'll probably see, behind your battery pack (yes you got the right batteries) a memory extension. And yes, the HP97 AC adapter is the same one as used on the HP75d. A speaker can be retrofitted, should you need it. It is not an easy thing, though, and requires some "dremel" modification to a radio-shack speaker part. Keeping the 75D in the pod may be fun, IF you get its 300-baud modem going; the pod also has the smarts inside to make a barcode reader actually decode UPC type labels. Your best bet is to get the docs for the 75 on the museum CD-ROM and then explore.... I have never seen good docs for the pod, which is an odd little peripheral, for sure! (Anything you DO find out, please share it here!)

Re: Can someone 'splain these 75Ds to me?

*Message #3 Posted by [D. Banks](#) on 24 Mar 2001, 2:01 p.m.,
in response to message #2 by Glynn*

Ok, thanks. Just a couple more questions...

I assume the AC adapter works even when the 75D is in the pod. I've already determined that one of the pod's bays operates the 'pute (probably in place of the pack that'd fit the 75D's podless battery compartment), and I assume the other battery bay powers the pod itself.

Anyone know how much of a risk is involved in operating the thing on AC adapter alone? We're missing some battery compartment doors here, so batteries stay inside as long as I hold them there.

Re: Can someone 'splain these 75Ds to me?

Message #4 Posted by [Glynn](#) on 25 Mar 2001, 10:56 a.m.,
in response to message #3 by D. Banks

As the NiCds perform not only as supply but as filter as well, and you are using that AC adapter that is notoriously unfiltered, same as on ALL HP classics, the consensus is that it May or May Not be possible, but in any case is NOT RECOMMENDED to run an HP without GOOD NiCd battery packs installed. All that is required for a "battery door" is a piece of stiff plastic (I took a pair of scissors to a CD disc) that will slide in the rails on either side; now your battery is secured. It isn't pretty, but it lets you use the calc with confidence.

notoriously unfiltered

Message #5 Posted by [Steve \(Australia\)](#) on 25 Mar 2001, 5:41 p.m.,
in response to message #4 by Glynn

When you say "notoriously unfiltered", some people may read this as being a simple rectified DC supply. It is actually AC.

Re: notoriously unfiltered

Message #6 Posted by [D. Banks](#) on 25 Mar 2001, 5:43 p.m.,
in response to message #5 by Steve (Australia)

Yah, I knew that particular adapter's an AC supply - says so right on the brick.

The point of the question was actually whether the 75D has a decent enough power supply in it to handle the adapter without batteries. I know this isn't the case for most calcs that HP made, but I figured I'd ask anyway.

Re: notoriously unfiltered

Message #7 Posted by [D. Banks](#) on 26 Mar 2001, 6:24 p.m.,
in response to message #6 by D. Banks

Well, according to the manual, "you won't damage the HP-75 by using the computer without a battery pack," which tells me that wall wart only operation isn't expressly prohibited, but is done with the same grain of salt as with the classics.

Re: notoriously unfiltered

*Message #8 Posted by [Reinhard Hawel](#) on 27 Mar 2001, 3:23 p.m.,
in response to message #7 by D. Banks*

The 75 series can definitely run on the power supply without the battery pack.

The classics are also able to run without batteries.

It's the woodstocks, that get killed at once.

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HP9100B Card reader

Message #1 Posted by [Marcel LERAT](#) on 23 Mar 2001, 10:31 a.m.

I have got a system HP9100B with following peripherals:HP 9101A Extended Memory, HP9102A Buffer, HP9125A Plotter , HP11162A Cable and the manuals about them. Unfortunately the rubber wheel on the card reader is out of order (totally crumbled) . I search how the card reader is working: is the card inserted manually and when down is pushed up by the wheel without other command? I haven't any card. I want to know the exact diameter of the rubber wheel normally 20-22 millimeters. Many thanks for help. Marcel

Re: HP9100B Card reader

Message #2 Posted by [David Smith](#) on 23 Mar 2001, 5:50 p.m.,
in response to message #1 by Marcel LERAT

The 9100 card readers work by inserting the card all the way manually. When you push one of the grey buttons below the card reader slot, the card is pushed out of the reader and is wither read or written to as it is ejected.

Re: HP9100B Card reader

Message #3 Posted by [Glynn](#) on 24 Mar 2001, 12:54 a.m.,
in response to message #2 by David Smith

Yeah, that wheel is really a "D": ALMOST totally circular, but with a cut out of it so that in its parked position, it does not touch the card. When you start the reader, it turns and engages the card, pushing it out of the slot. So the dimensions you will need to reproduce it include both a diameter measurement, and the chord (and orientation) of the cut-out piece.

Re: HP9100B Card reader

*Message #4 Posted by [Marcel Lerat](#) on 24 Mar 2001, 9:37 a.m.,
in response to message #2 by David Smith*

Many thanks for your reply. Because I haven't got any card I don't know exactly how that works !Marcel

Re: HP9100B Card reader

*Message #5 Posted by [Marcel Lerat](#) on 24 Mar 2001, 9:52 a.m.,
in response to message #4 by Marcel Lerat*

Many thanks,Glynn, for your message. I see perfectly now how the CR is working. It is very easy to set free the CR block an the "tyre" too. I have got some rubber pulleys of the same thickness but hasn't cut to slide the card. I should be very glad to know the exact diameter of the circle and how long is the cut to make the same...Best regards
Marcel

Re: HP9100B Card reader

*Message #6 Posted by [D. Banks](#) on 24 Mar 2001, 2:04 p.m.,
in response to message #1 by Marcel LERAT*

I'm just jealous of any bugger who actually owns a 9100.

I've wanted one of those ever since I first saw one, long long ago.

Re: HP9100B Card reader

*Message #7 Posted by [Marcel Lerat](#) on 24 Mar 2001, 4:12 p.m.,
in response to message #6 by D. Banks*

It's a very beautiful jewel but my wife thinks it take too much sqare in the house (with many other things) .May be is right...regards Marcel

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hp48 SX display problem

Message #1 Posted by [cristiano de alti](#) on 23 Mar 2001, 8:08 a.m.

LCD on my hp48 sx has serious problems. The intensity in its right half is very low compared to that of left half. Running the self test, the patterns generated on LCD look very bad. During the test, in the right part, some (four or five) vertical lines don't appear at all, while the intensity of others go decreasing left to right. All rows generated in the test have instead the same intensity, in the right half also (which is curious, isn't it). I tried all the suggestions in the forum such as twisting slightly the calculator, pushing softly the bottom of LCD, but nothing happened. Is there a chance of solving the problem by opening calculator and cleaning board or display connections? And what have I to expect once opened it. Has anyone experienced the same behaviour? Thanks for help and sorry for my bad english. cristiano

Re: hp48 SX display problem

Message #2 Posted by [cristiano de alti](#) on 24 Mar 2001, 3:08 p.m.,
in response to message #1 by cristiano de alti

I found that pulling out batteries from calculator overnight, the missing vertical lines become visible but of low intensity. The overall intensity of right half also increased. Any ideas?
cristiano

Re: hp48 SX display problem

Message #3 Posted by [Jack Neely](#) on 24 Mar 2001, 9:57 p.m.,
in response to message #2 by cristiano de alti

Cristiano:

Sounds like you have an HP 48SX with a bad display. The same thing happened to me about 8 years ago. My 48SX started having dark and light areas show up on the display. Then a few days later 3 vertical lines started to appear. I sent the 48SX back to HP along with my credit card number, thinking that they would fix the problem and charge my credit. However, HP sent me a brand new 48SX! Boy was I surprised. I found out a few months later that HP had problems with a lot of 48SX that were manufactured in the early 90's. HP

used to send a new calculator to people when they turned in the faulty 48SX. However, since they no longer make 48SX's, I suggest that either you buy a used 48SX on Ebay or but a new (or used) 48GX. Hope this helps.

Jack

Re: hp48 SX display problem

Message #4 Posted by [Matt Kernal \(US\)](#) on 25 Mar 2001, 3:48 p.m.,
in response to message #3 by Jack Neely

Jack,

I had a similar 48SX situation, but it didn't turn out quite as good as your story. About five years ago, I picked up a 48SX for \$5.00 because it had three bad columns of pixels along the far left half of the display. Then I found the following document which perfectly described my SX:

Article: 3937 of comp.sys.hp48 From: akcs.joehorn@hpcvbbs.cv.hp.com (Joseph K. Horn) Date: Mon, 14 Sep 1992 06:40:02 GMT

For those suffering from failing HP48 LCD's, the following "official" posting about it from HP's BBS sysop is the final word. Due to its importance, it was included on Goodies Disk #7, in the POSTINGS subdirectory. Hope it helps. -jkh-

===== (Feedbackto.hp) Item: 248 Resp: 3 by sanker@hpcvbbs.cv.hp.com
Author: [Greg Sanker] Date: Tue Apr 07 1992 14:35

I checked with the Hardware folks, and here is the scoop:

There was a specific problem that may or may not occur in a limited production of units. The problem has been isolated to the LCD and has been resolved with the vendor. The potentially defective LCD's were installed in HP 48's with serial numbers ranging 3013AXXXXX thru 3044AXXXXX. Symptoms of the problem are a pronounced black spot in the upper left hand corner of the display and/or dark/missing columns 3,5,7 and/or 9.

If a unit is failing for the above reasons, subject to verification by the Corvallis Service Center, it will be covered as part of the standard warranty, even if the standard warranty period has expired.

Greg (SYSOP) =====

I sent the calculator and this document to HP asking them to honor their policy (especially the last line). But HP didn't bite. They said the claim period was over so the best they could do was replace it with a 48GX for \$100, which I did end up doing. Looking back, I kind of wish I had kept the 48SX (since the price was so right).

Matt

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Faceplate on 42S

Message #1 Posted by [Per Faltman\(Sweden\)](#) on 23 Mar 2001, 7:30 a.m.

I have found a 42S with the faceplate missing. With faceplate I mean the plate that is glued on the keyboard and has the shift key legends on it. Does anyone out there know how to find a new or used faceplate? Any help would be really appreciated.

Need one too

Message #2 Posted by [Marx Pio](#) on 23 Mar 2001, 9:57 a.m.,
in response to message #1 by Per Faltman(Sweden)

I need it too.

Re: Need one too

Message #3 Posted by [db \(martinez, california\)](#) on 23 Mar 2001, 3:38 p.m.,
in response to message #2 by Marx Pio

the one i had was loose at one corner too. guess this is a common problem.

Re: Faceplate on 42S

Message #4 Posted by [Paul Brogger](#) on 23 Mar 2001, 3:51 p.m.,
in response to message #1 by Per Faltman(Sweden)

I needed a "legend" for the blank (painted black) keyboard of my HP-14B case which holds HP-42S circuitry & display.

I printed the MoHPC's HP-42S image on a color printer, cut it down to only the keyboard portion, laminated it, and taped it in "flip-out" fashion to the back of the calculator (between the rubber feet). Now, to see the calculator keys, I just flip it out, and mentally translate the key functions, using the attached keyboard image. It fits inside the slipcover & everything -- pretty cool.

For a real HP-42S, you might do something similar, printing it to full scale and laminating. Then, cut out the key images with an Exacto knife, and glue to the front of the calculator?

Good luck!

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41CX died, Please Help!

Message #1 Posted by [Richard Kauffman](#) on 21 Mar 2001, 11:26 a.m.

My 41CX seems to have died after plugging in my card reader. I am the original owner and haven't had any problems before this. The batteries and contacts are in good condition. I used the calculator today without problem before plugging in the card reader. When the calculator was turned on after plugging in the card reader, a random string of characters (mostly ones using every LCD element) rapidly went across the display. This could not be stopped by any keyboard means including the "on" button. I pulled the battery pack out. After putting the pack back in the calculator will not respond even with the card reader removed. Any assistance would be greatly appreciated. Thanks - Richard

Re: 41CX died, Please Help!

Message #2 Posted by [Steve \(Australia\)](#) on 21 Mar 2001, 5:36 p.m.,
in response to message #1 by Richard Kauffman

Look in the archives. I posted a mesage quite some time ago that detailed 11 methods to recover a crashed HP41 in increacing order of liklihood of getting a "memory lost".

I don't have time to search for it myself now, sorry.

simple answers (the most drastic)

1) hold backarrow while turning on 2) remove batteries for a week or so

Re: 41CX died, Please Help!

Message #3 Posted by [db \(martinez, california\)](#) on 22 Mar 2001, 9:32 p.m.,
in response to message #2 by Steve (Australia)

do steves 11 suggestions in order. if they don't work and only if all 11 don't work then take the batteries out, short out the contacts, and let it sit unpowered for six months. when you turn it on it will still probably talk chinese but keep hitting the back arrow and eventually it will work. mabye. good luck.

Re: 41CX died, Please Help!

*Message #4 Posted by [Richard Kauffman](#) on 23 Mar 2001, 12:55 p.m.,
in response to message #3 by db (martinez, california)*

I appreciate your help. But so far, no good. I did the list (except taking it apart) without success. The batteries are out, and that is how it will stay.

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H / P 20 - S

Message #1 Posted by [walt](#) on 21 Mar 2001, 6:36 a.m.

just picked up a 20 - S and i need a manual or a copy of it . thanks .

Re: H / P 20 - S

Message #2 Posted by [Todd Garabedian](#) on 21 Mar 2001, 8:58 a.m.,
in response to message #1 by walt

Since the HP20S is available for general sale, you can get a copy of the manual directly from HP. The HP website has the following: To order manuals in the US please call Hewlett-Packard's Support Materials Organization at 800-227-8164. Hours of operation are Monday through Friday 8 a.m. to 5 p.m. Pacific Time.

Best of luck,

Todd

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HP48GX leather case.

Message #1 Posted by [Denis Field](#) on 21 Mar 2001, 6:35 a.m.

Can anyone put me in touch with a South Wales U.K. supplier that I can purchase HP Palmtop leather cases from.

Thank you.

Denis Field

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XROM 29,06

Message #1 Posted by [alditenen](#) on 20 Mar 2001, 8:59 p.m.

XROM....what is XROM...? how can I make this instruction that exist in line 13 of the "calendar printout" for the hp41 program list in the museum of hp calc. web site???? Thankyou

Here's a place to start:

Message #2 Posted by [Dave Hicks](#) on 20 Mar 2001, 11:25 p.m.,
in response to message #1 by [alditenen](#)

<http://www.hpmuseum.org/software/xroms.htm>

Hopefully, over time, people will supply function maps to complete the page.

Re: Here's a place to start:

Message #3 Posted by [Steve \(Australia\)](#) on 21 Mar 2001, 6:18 a.m.,
in response to message #2 by [Dave Hicks](#)

I downloaded an HP41 emulator (or maybe a barcode generator...) that had a rahter large collection of files that gave xrom codes and the routine names.

I'm trying to locate it now...

Re: Here's a place to start:

Message #4 Posted by [Steve \(Australia\)](#) on 21 Mar 2001, 7:08 a.m.,
in response to message #2 by Dave Hicks

Here's a few to start your list. They're not complete. Notably the cardreader 7xxxx stuff is absent, as is the additional IR printer XROMs.

Also notice the funny numbering of

```
MATRX      XROM 23, 0    $A5 $C0
```

I believe this should be

```
XROM 24, 0
```

but my program fails to decode it correctly. Perhaps someone else can educate me on the finer points of decoding XROM numbers?

I've assumed that the instruction is 10100xxx xxyyyyyy

where

10100 is the XROM prefix

xxx xx is the first number

yyyyyy is the second.

However I think there is some playing around where yyyyyy is zero??? Or maybe my code sucks.

Note that this list includes CX versions of Time and X functions, and splits up the IL module into 3 parts.

Advantage ROM

```
BININ      XROM 22, 1    $A5 $81  
BINVIEW    XROM 22, 2    $A5 $82  
OCTIN      XROM 22, 3    $A5 $83  
CVTVIEW    XROM 22, 4    $A5 $84  
HEXIN      XROM 22, 5    $A5 $85  
HEXVIEW    XROM 22, 6    $A5 $86  
NOT        XROM 22, 7    $A5 $87  
AND        XROM 22, 8    $A5 $88  
OR         XROM 22, 9    $A5 $89
```

XOR	XROM	22,10	\$A5	\$8A
ROTTY	XROM	22,11	\$A5	\$8B
BIT?	XROM	22,12	\$A5	\$8C
C<>C	XROM	22,14	\$A5	\$8E
CMAXAB	XROM	22,15	\$A5	\$8F
CNRM	XROM	22,16	\$A5	\$90
CSUM	XROM	22,17	\$A5	\$91
DIM?	XROM	22,18	\$A5	\$92
FNRM	XROM	22,19	\$A5	\$93
I+	XROM	22,20	\$A5	\$94
I-	XROM	22,21	\$A5	\$95
J+	XROM	22,22	\$A5	\$96
J-	XROM	22,23	\$A5	\$97
M*M	XROM	22,24	\$A5	\$98
MAT*	XROM	22,25	\$A5	\$99
MAT+	XROM	22,26	\$A5	\$9A
MAT-	XROM	22,27	\$A5	\$9B
MAT/	XROM	22,28	\$A5	\$9C
MATDIM	XROM	22,29	\$A5	\$9D
MAX	XROM	22,30	\$A5	\$9E
MAXAB	XROM	22,31	\$A5	\$9F
MDET	XROM	22,32	\$A5	\$A0
MIN	XROM	22,33	\$A5	\$A1
MINV	XROM	22,34	\$A5	\$A2
MMOVE	XROM	22,35	\$A5	\$A3
MNAME?	XROM	22,36	\$A5	\$A4
MR	XROM	22,37	\$A5	\$A5
MRC+	XROM	22,38	\$A5	\$A6
MRC-	XROM	22,39	\$A5	\$A7
MRIJ	XROM	22,40	\$A5	\$A8
MRIJR	XROM	22,41	\$A5	\$A9
MRR+	XROM	22,42	\$A5	\$AA
MRR-	XROM	22,43	\$A5	\$AB
MS	XROM	22,44	\$A5	\$AC
MSC+	XROM	22,45	\$A5	\$AD
MSIJ	XROM	22,46	\$A5	\$AE
MSIJR	XROM	22,47	\$A5	\$AF
MSR+	XROM	22,48	\$A5	\$B0
MSWAP	XROM	22,49	\$A5	\$B1
MSVS	XROM	22,50	\$A5	\$B2
PIV	XROM	22,51	\$A5	\$B3
R<>R	XROM	22,52	\$A5	\$B4
R>R?	XROM	22,53	\$A5	\$B5

RMAXAB	XROM	22,54	\$A5	\$B6
RNRM	XROM	22,55	\$A5	\$B7
RSUM	XROM	22,56	\$A5	\$B8
SUM	XROM	22,57	\$A5	\$B9
SUMAB	XROM	22,58	\$A5	\$BA
TRNPS	XROM	22,59	\$A5	\$BB
YC+C	XROM	22,60	\$A5	\$BC
MEDIT	XROM	22,61	\$A5	\$BD
CMEDIT	XROM	22,62	\$A5	\$BE
MP	XROM	22,63	\$A5	\$BF
MATRX	XROM	23, 0	\$A5	\$C0
MTR	XROM	24, 1	\$A6	\$01
SOLVE	XROM	24, 3	\$A6	\$03
INTEG	XROM	24, 4	\$A6	\$04
SILLOOP	XROM	24, 5	\$A6	\$05
SIRIN	XROM	24, 6	\$A6	\$06
Z^N	XROM	24, 7	\$A6	\$07
MAGZ	XROM	24, 8	\$A6	\$08
e^Z	XROM	24, 9	\$A6	\$09
LNZ	XROM	24,10	\$A6	\$0A
Z^1/N	XROM	24,11	\$A6	\$0B
SINZ	XROM	24,12	\$A6	\$0C
COSZ	XROM	24,13	\$A6	\$0D
TANZ	XROM	24,14	\$A6	\$0E
a^Z	XROM	24,15	\$A6	\$0F
LOGZ	XROM	24,16	\$A6	\$10
Z^1/W	XROM	24,17	\$A6	\$11
Z^W	XROM	24,18	\$A6	\$12
C+	XROM	24,19	\$A6	\$13
C-	XROM	24,20	\$A6	\$14
CINV	XROM	24,21	\$A6	\$15
C*	XROM	24,22	\$A6	\$16
C/	XROM	24,23	\$A6	\$17
PLV	XROM	24,24	\$A6	\$18
RIS	XROM	24,25	\$A6	\$19
DIFEQ	XROM	24,26	\$A6	\$1A
CFIT	XROM	24,27	\$A6	\$1B
ASIG	XROM	24,28	\$A6	\$1C
DSIG	XROM	24,29	\$A6	\$1D
CFIT	XROM	24,30	\$A6	\$1E
FIT	XROM	24,31	\$A6	\$1F
Y?X	XROM	24,32	\$A6	\$20
SZ?	XROM	24,33	\$A6	\$21

VC	XROM	24,34	\$A6	\$22
CROSS	XROM	24,35	\$A6	\$23
VS	XROM	24,36	\$A6	\$24
VR	XROM	24,37	\$A6	\$25
DOT	XROM	24,38	\$A6	\$26
VE	XROM	24,39	\$A6	\$27
V-	XROM	24,40	\$A6	\$28
V+	XROM	24,41	\$A6	\$29
VXY	XROM	24,42	\$A6	\$2A
UV	XROM	24,43	\$A6	\$2B
VANG	XROM	24,44	\$A6	\$2C
VD	XROM	24,45	\$A6	\$2D
V*	XROM	24,46	\$A6	\$2E
TR	XROM	24,47	\$A6	\$2F
CT	XROM	24,48	\$A6	\$30
AIP	XROM	24,49	\$A6	\$31
TVM	XROM	24,51	\$A6	\$33
N	XROM	24,52	\$A6	\$34
PV	XROM	24,53	\$A6	\$35
PMT	XROM	24,54	\$A6	\$36
FV	XROM	24,55	\$A6	\$37
*I	XROM	24,56	\$A6	\$38

Card Reader

MRG	XROM	30, 1	\$A7	\$81
RDTA	XROM	30, 2	\$A7	\$82
RDTAX	XROM	30, 3	\$A7	\$83
RSUB	XROM	30, 4	\$A7	\$84
VER	XROM	30, 5	\$A7	\$85
WALL	XROM	30, 6	\$A7	\$86
WDTA	XROM	30, 7	\$A7	\$87
WDTAX	XROM	30, 8	\$A7	\$88
WPRV	XROM	30, 9	\$A7	\$89
WSTS	XROM	30,10	\$A7	\$8A

Time (CX)

ADATE	XROM	26, 1	\$A6	\$81
ALMCAT	XROM	26, 2	\$A6	\$82
ALMNOW	XROM	26, 3	\$A6	\$83
ATIME	XROM	26, 4	\$A6	\$84
ATIME24	XROM	26, 5	\$A6	\$85

CLK12	XROM	26, 6	\$A6	\$86
CLK24	XROM	26, 7	\$A6	\$87
CLKT	XROM	26, 8	\$A6	\$88
CLKTD	XROM	26, 9	\$A6	\$89
CLOCK	XROM	26,10	\$A6	\$8A
CORRECT	XROM	26,11	\$A6	\$8B
DATE	XROM	26,12	\$A6	\$8C
DATE+	XROM	26,13	\$A6	\$8D
DDAYS	XROM	26,14	\$A6	\$8E
DMY	XROM	26,15	\$A6	\$8F
DOW	XROM	26,16	\$A6	\$90
MDY	XROM	26,17	\$A6	\$91
RCLAF	XROM	26,18	\$A6	\$92
RCLSW	XROM	26,19	\$A6	\$93
RUNSW	XROM	26,20	\$A6	\$94
SETAF	XROM	26,21	\$A6	\$95
SETDATE	XROM	26,22	\$A6	\$96
SETSW	XROM	26,23	\$A6	\$97
STOPSW	XROM	26,24	\$A6	\$98
SW	XROM	26,25	\$A6	\$99
T+X	XROM	26,26	\$A6	\$9A
TIME	XROM	26,27	\$A6	\$9B
XYZALM	XROM	26,28	\$A6	\$9C
CLALMA	XROM	26,31	\$A6	\$9F
CLALMX	XROM	26,32	\$A6	\$A0
CLRALMS	XROM	26,33	\$A6	\$A1
RCLALM	XROM	26,34	\$A6	\$A2
SWPT	XROM	26,35	\$A6	\$A3

X Functions (CX)

ALENG	XROM	25, 1	\$A6	\$41
ANUM	XROM	25, 2	\$A6	\$42
APPCHR	XROM	25, 3	\$A6	\$43
APPREC	XROM	25, 4	\$A6	\$44
ARCLREC	XROM	25, 5	\$A6	\$45
AROT	XROM	25, 6	\$A6	\$46
ATOX	XROM	25, 7	\$A6	\$47
CLFL	XROM	25, 8	\$A6	\$48
CLKEYS	XROM	25, 9	\$A6	\$49
CRFLAS	XROM	25,10	\$A6	\$4A
CRFLD	XROM	25,11	\$A6	\$4B
DELCHR	XROM	25,12	\$A6	\$4C

DELREC	XROM	25,13	\$A6	\$4D
EMDIR	XROM	25,14	\$A6	\$4E
FLSIZE	XROM	25,15	\$A6	\$4F
GETAS	XROM	25,16	\$A6	\$50
GETKEY	XROM	25,17	\$A6	\$51
GETP	XROM	25,18	\$A6	\$52
GETR	XROM	25,19	\$A6	\$53
GETREC	XROM	25,20	\$A6	\$54
GETRX	XROM	25,21	\$A6	\$55
GETSUB	XROM	25,22	\$A6	\$56
GETX	XROM	25,23	\$A6	\$57
INSCHR	XROM	25,24	\$A6	\$58
INSREC	XROM	25,25	\$A6	\$59
PASN	XROM	25,26	\$A6	\$5A
PCLPS	XROM	25,27	\$A6	\$5B
POSA	XROM	25,28	\$A6	\$5C
POSFL	XROM	25,29	\$A6	\$5D
PSIZE	XROM	25,30	\$A6	\$5E
PURFL	XROM	25,31	\$A6	\$5F
RCLFLAG	XROM	25,32	\$A6	\$60
RCLPT	XROM	25,33	\$A6	\$61
RCLPTA	XROM	25,34	\$A6	\$62
REGMOVE	XROM	25,35	\$A6	\$63
REGSWAP	XROM	25,36	\$A6	\$64
SAVEAS	XROM	25,37	\$A6	\$65
SAVEP	XROM	25,38	\$A6	\$66
SAVER	XROM	25,39	\$A6	\$67
SAVERX	XROM	25,40	\$A6	\$68
SAVEX	XROM	25,41	\$A6	\$69
SEEKPT	XROM	25,42	\$A6	\$6A
SEEKPTA	XROM	25,43	\$A6	\$6B
SIZE?	XROM	25,44	\$A6	\$6C
STOFLAG	XROM	25,45	\$A6	\$6D
X<>F	XROM	25,46	\$A6	\$6E
XTOA	XROM	25,47	\$A6	\$6F
ASROOM	XROM	25,49	\$A6	\$71
CLRGX	XROM	25,50	\$A6	\$72
ED	XROM	25,51	\$A6	\$73
EMDIRX	XROM	25,52	\$A6	\$74
EMROOM	XROM	25,53	\$A6	\$75
GETKEYX	XROM	25,54	\$A6	\$76
RESZFL	XROM	25,55	\$A6	\$77
~REG?	XROM	25,56	\$A6	\$78

X=NN?	XROM	25,57	\$A6	\$79
X!=NN?	XROM	25,58	\$A6	\$7A
X<NN?	XROM	25,59	\$A6	\$7B
X<=NN?	XROM	25,60	\$A6	\$7C
X>NN?	XROM	25,61	\$A6	\$7D
X>=NN?	XROM	25,62	\$A6	\$7E

X Functions

ALENG	XROM	25, 1	\$A6	\$41
ANUM	XROM	25, 2	\$A6	\$42
APPCHR	XROM	25, 3	\$A6	\$43
APPREC	XROM	25, 4	\$A6	\$44
ARCLREC	XROM	25, 5	\$A6	\$45
AROT	XROM	25, 6	\$A6	\$46
ATOX	XROM	25, 7	\$A6	\$47
CLFL	XROM	25, 8	\$A6	\$48
CLKEYS	XROM	25, 9	\$A6	\$49
CRFLAS	XROM	25,10	\$A6	\$4A
CRFLD	XROM	25,11	\$A6	\$4B
DELCHR	XROM	25,12	\$A6	\$4C
DELREC	XROM	25,13	\$A6	\$4D
EMDIR	XROM	25,14	\$A6	\$4E
FLSIZE	XROM	25,15	\$A6	\$4F
GETAS	XROM	25,16	\$A6	\$50
GETKEY	XROM	25,17	\$A6	\$51
GETP	XROM	25,18	\$A6	\$52
GETR	XROM	25,19	\$A6	\$53
GETREC	XROM	25,20	\$A6	\$54
GETRX	XROM	25,21	\$A6	\$55
GETSUB	XROM	25,22	\$A6	\$56
GETX	XROM	25,23	\$A6	\$57
INSCHR	XROM	25,24	\$A6	\$58
INSREC	XROM	25,25	\$A6	\$59
PASN	XROM	25,26	\$A6	\$5A
PCLPS	XROM	25,27	\$A6	\$5B
POSA	XROM	25,28	\$A6	\$5C
POSFL	XROM	25,29	\$A6	\$5D
PSIZE	XROM	25,30	\$A6	\$5E
PURFL	XROM	25,31	\$A6	\$5F
RCLFLAG	XROM	25,32	\$A6	\$60
RCLPT	XROM	25,33	\$A6	\$61
RCLPTA	XROM	25,34	\$A6	\$62

REGMOVE	XROM	25,35	\$A6	\$63
REGSWAP	XROM	25,36	\$A6	\$64
SAVEAS	XROM	25,37	\$A6	\$65
SAVEP	XROM	25,38	\$A6	\$66
SAVER	XROM	25,39	\$A6	\$67
SAVERX	XROM	25,40	\$A6	\$68
SAVEX	XROM	25,41	\$A6	\$69
SEEKPT	XROM	25,42	\$A6	\$6A
SEEKPTA	XROM	25,43	\$A6	\$6B
SIZE?	XROM	25,44	\$A6	\$6C
STOFLAG	XROM	25,45	\$A6	\$6D
X<>F	XROM	25,46	\$A6	\$6E
XTOA	XROM	25,47	\$A6	\$6F

Games

BAGELS	XROM	10, 1	\$A2	\$81
BIOR	XROM	10, 2	\$A2	\$82
BIOF	XROM	10, 3	\$A2	\$83
CRAPS	XROM	10, 4	\$A2	\$84
HANG	XROM	10, 5	\$A2	\$85
PINBALL	XROM	10, 6	\$A2	\$86
SWAR	XROM	10, 7	\$A2	\$87
SUBHUNT	XROM	10, 8	\$A2	\$88
BOOM	XROM	10, 9	\$A2	\$89
INI	XROM	10,10	\$A2	\$8A
P	XROM	10,11	\$A2	\$8B
SIZE?	XROM	10,12	\$A2	\$8C
RNDM	XROM	10,13	\$A2	\$8D
RNDMW	XROM	10,14	\$A2	\$8E

IL Control Functions

AUTOIO	XROM	28,27	\$A7	\$1B
FINDID	XROM	28,28	\$A7	\$1C
INA	XROM	28,29	\$A7	\$1D
IND	XROM	28,30	\$A7	\$1E
INSTAT	XROM	28,31	\$A7	\$1F
LISTEN	XROM	28,32	\$A7	\$20
LOCAL	XROM	28,33	\$A7	\$21
MANIO	XROM	28,34	\$A7	\$22
OUTA	XROM	28,35	\$A7	\$23
PWRDN	XROM	28,36	\$A7	\$24

PWRUP	XROM	28,37	\$A7	\$25
REMOTE	XROM	28,38	\$A7	\$26
SELECT	XROM	28,39	\$A7	\$27
STOPIO	XROM	28,40	\$A7	\$28
TRIGGER	XROM	28,41	\$A7	\$29

IL Mass storage functions

CREATE	XROM	28, 1	\$A7	\$01
DIR	XROM	28, 2	\$A7	\$02
NEWM	XROM	28, 3	\$A7	\$03
PURGE	XROM	28, 4	\$A7	\$04
READA	XROM	28, 5	\$A7	\$05
READK	XROM	28, 6	\$A7	\$06
READP	XROM	28, 7	\$A7	\$07
READR	XROM	28, 8	\$A7	\$08
READRX	XROM	28, 9	\$A7	\$09
READS	XROM	28,10	\$A7	\$0A
READSUB	XROM	28,11	\$A7	\$0B
RENAME	XROM	28,12	\$A7	\$0C
SEC	XROM	28,13	\$A7	\$0D
SEEKR	XROM	28,14	\$A7	\$0E
UNSEC	XROM	28,15	\$A7	\$0F
VERIFY	XROM	28,16	\$A7	\$10
WRTA	XROM	28,17	\$A7	\$11
WRTK	XROM	28,18	\$A7	\$12
WRTP	XROM	28,19	\$A7	\$13
WRTPV	XROM	28,20	\$A7	\$14
WRTR	XROM	28,21	\$A7	\$15
WRTRX	XROM	28,22	\$A7	\$16
WRTS	XROM	28,23	\$A7	\$17
ZERO	XROM	28,24	\$A7	\$18

IL Printer functions (also normal printer)

ACA	XROM	29, 1	\$A7	\$41
ACCHR	XROM	29, 2	\$A7	\$42
ACCOL	XROM	29, 3	\$A7	\$43
ACSPEC	XROM	29, 4	\$A7	\$44
ACX	XROM	29, 5	\$A7	\$45
BLDSPEC	XROM	29, 6	\$A7	\$46
LIST	XROM	29, 7	\$A7	\$47
PRA	XROM	29, 8	\$A7	\$48

PRAXIS	XROM	29, 9	\$A7	\$49
PRBUF	XROM	29,10	\$A7	\$4A
PRFLAGS	XROM	29,11	\$A7	\$4B
PRKEYS	XROM	29,12	\$A7	\$4C
PRP	XROM	29,13	\$A7	\$4D
PRPLOT	XROM	29,14	\$A7	\$4E
PRPLOT P	XROM	29,15	\$A7	\$4F
PRREG	XROM	29,16	\$A7	\$50
PRREGX	XROM	29,17	\$A7	\$51
PR~	XROM	29,18	\$A7	\$52
PRSTK	XROM	29,19	\$A7	\$53
PRX	XROM	29,20	\$A7	\$54
REGPLOT	XROM	29,21	\$A7	\$55
SKPCHR	XROM	29,22	\$A7	\$56
SKPCOL	XROM	29,23	\$A7	\$57
STK PLOT	XROM	29,24	\$A7	\$58
FMT	XROM	29,25	\$A7	\$59

Math

MATRIX	XROM	1, 1	\$A0	\$41
SIMEQ	XROM	1, 2	\$A0	\$42
VCOL	XROM	1, 3	\$A0	\$43
VMAT	XROM	1, 4	\$A0	\$44
PVT	XROM	1, 5	\$A0	\$45
DET	XROM	1, 6	\$A0	\$46
INV	XROM	1, 7	\$A0	\$47
EDIT	XROM	1, 8	\$A0	\$48
SOLVE	XROM	1, 9	\$A0	\$49
SOL	XROM	1,10	\$A0	\$4A
POLY	XROM	1,11	\$A0	\$4B
ROOTS	XROM	1,12	\$A0	\$4C
INTG	XROM	1,13	\$A0	\$4D
DIF EQ	XROM	1,14	\$A0	\$4E
FOUR	XROM	1,15	\$A0	\$4F
C+	XROM	1,16	\$A0	\$50
C-	XROM	1,17	\$A0	\$51
C*	XROM	1,18	\$A0	\$52
C/	XROM	1,19	\$A0	\$53
MAGZ	XROM	1,20	\$A0	\$54
CINV	XROM	1,21	\$A0	\$55
Z^N	XROM	1,22	\$A0	\$56
Z^1/N	XROM	1,23	\$A0	\$57

E^Z	XROM	1,24	\$A0	\$58
LNZ	XROM	1,25	\$A0	\$59
A^Z	XROM	1,26	\$A0	\$5A
LOGZ	XROM	1,27	\$A0	\$5B
Z^W	XROM	1,28	\$A0	\$5C
Z^1/W	XROM	1,29	\$A0	\$5D
SINZ	XROM	1,30	\$A0	\$5E
COSZ	XROM	1,31	\$A0	\$5F
TANZ	XROM	1,32	\$A0	\$60
SINH	XROM	1,33	\$A0	\$61
COSH	XROM	1,34	\$A0	\$62
TANH	XROM	1,35	\$A0	\$63
ASINH	XROM	1,36	\$A0	\$64
ACOSH	XROM	1,37	\$A0	\$65
ATANH	XROM	1,38	\$A0	\$66
SSS	XROM	1,39	\$A0	\$67
ASA	XROM	1,40	\$A0	\$68
SAA	XROM	1,41	\$A0	\$69
SAS	XROM	1,42	\$A0	\$6A
SSA	XROM	1,43	\$A0	\$6B
TRANS	XROM	1,44	\$A0	\$6C
*FN	XROM	1,45	\$A0	\$6D

PPC

+K	XROM	10, 3	\$A2	\$83
-B	XROM	10,24	\$A2	\$98
1K	XROM	10, 2	\$A2	\$82
2D	XROM	10,55	\$A2	\$B7
A?	XROM	10,10	\$A2	\$8A
AB	XROM	10,61	\$A2	\$BD
AD	XROM	10,18	\$A2	\$92
AL	XROM	10,37	\$A2	\$A5
AM	XROM	20,53	\$A5	\$35
BA	XROM	20,30	\$A5	\$1E
BC	XROM	20,43	\$A5	\$2B
BD	XROM	20,17	\$A5	\$11
BE	XROM	20,34	\$A5	\$22
BI	XROM	10,44	\$A2	\$AC
BL	XROM	10,42	\$A2	\$AA
BM	XROM	20,39	\$A5	\$27
BR	XROM	20,40	\$A5	\$28
B+	XROM	20,42	\$A5	\$2A

BV	XROM	20, 7	\$A5	\$07
BX	XROM	20,41	\$A5	\$29
C?	XROM	10,16	\$A2	\$90
CA	XROM	20,23	\$A5	\$17
CB	XROM	10,50	\$A2	\$B2
CD	XROM	10,35	\$A2	\$A3
CJ	XROM	20,21	\$A5	\$15
CK	XROM	10, 6	\$A2	\$86
CM	XROM	20,20	\$A5	\$14
CP	XROM	20,27	\$A5	\$1B
CU	XROM	10,34	\$A2	\$A2
CV	XROM	20, 8	\$A5	\$08
CX	XROM	10,33	\$A2	\$A1
DC	XROM	10,11	\$A2	\$8B
DF	XROM	20,13	\$A5	\$0D
DP	XROM	10,53	\$A2	\$B5
DR	XROM	20,38	\$A5	\$26
DS	XROM	10,29	\$A2	\$9D
DT	XROM	10,17	\$A2	\$91
E?	XROM	10,62	\$A2	\$BE
EP	XROM	10,31	\$A2	\$9F
EX	XROM	10,27	\$A2	\$9B
F?	XROM	10, 4	\$A2	\$84
FD	XROM	20,11	\$A5	\$0B
FI	XROM	10,63	\$A2	\$BF
FL	XROM	10,43	\$A2	\$AB
FR	XROM	20,12	\$A5	\$0C
GE	XROM	10,60	\$A2	\$BC
GN	XROM	20,15	\$A5	\$0F
HA	XROM	20,25	\$A5	\$19
HD	XROM	10,20	\$A2	\$94
HN	XROM	10,41	\$A2	\$A9
HP	XROM	20,29	\$A5	\$1D
HS	XROM	20,26	\$A5	\$1A
IF	XROM	10,49	\$A2	\$B1
IG	XROM	20, 9	\$A5	\$09
IP	XROM	10,45	\$A2	\$AD
IR	XROM	20,37	\$A5	\$25
JC	XROM	20,22	\$A5	\$16
L-	XROM	10,23	\$A2	\$97
LB	XROM	10,22	\$A2	\$96
LF	XROM	10, 5	\$A2	\$85
LG	XROM	20,24	\$A5	\$18

LR	XROM	20, 2	\$A5	\$02
M1	XROM	20, 33	\$A5	\$21
M2	XROM	20, 31	\$A5	\$1F
M3	XROM	20, 32	\$A5	\$20
M4	XROM	20, 35	\$A5	\$23
M5	XROM	20, 36	\$A5	\$24
MA	XROM	20, 54	\$A5	\$36
MK	XROM	10, 1	\$A2	\$81
ML	XROM	10, 12	\$A2	\$8C
MP	XROM	20, 28	\$A5	\$1C
MS	XROM	10, 48	\$A2	\$B0
MT	XROM	10, 28	\$A2	\$9C
NC	XROM	10, 38	\$A2	\$A6
NH	XROM	10, 40	\$A2	\$A8
NP	XROM	20, 14	\$A5	\$0E
NR	XROM	20, 50	\$A5	\$32
NS	XROM	20, 49	\$A5	\$31
OM	XROM	10, 58	\$A2	\$BA
PA	XROM	10, 59	\$A2	\$BB
PD	XROM	10, 52	\$A2	\$B4
PK	XROM	10, 9	\$A2	\$89
PM	XROM	20, 19	\$A5	\$13
PO	XROM	20, 51	\$A5	\$33
PR	XROM	20, 45	\$A5	\$2D
PS	XROM	10, 46	\$A2	\$AE
QR	XROM	10, 54	\$A2	\$B6
RB	XROM	20, 52	\$A5	\$34
RD	XROM	20, 5	\$A5	\$05
RF	XROM	10, 13	\$A2	\$8D
RK	XROM	20, 6	\$A5	\$06
RN	XROM	20, 16	\$A5	\$10
RT	XROM	10, 51	\$A2	\$B3
RX	XROM	10, 57	\$A2	\$B9
S1	XROM	20, 46	\$A5	\$2E
S2	XROM	20, 48	\$A5	\$30
S3	XROM	20, 47	\$A5	\$2F
S?	XROM	10, 15	\$A2	\$8F
SB	XROM	20, 1	\$A5	\$01
SD	XROM	20, 3	\$A5	\$03
SE	XROM	20, 56	\$A5	\$38
~?	XROM	10, 14	\$A2	\$8E
~C	XROM	10, 21	\$A2	\$95
SK	XROM	20, 4	\$A5	\$04

SM	XROM	20,55	\$A5	\$37
SR	XROM	20, 0	\$A5	\$00
SU	XROM	10,39	\$A2	\$A7
SV	XROM	20,10	\$A5	\$0A
SX	XROM	10,56	\$A2	\$B8
T1	XROM	10,47	\$A2	\$AF
TB	XROM	20,18	\$A5	\$12
TN	XROM	10,32	\$A2	\$A0
UD	XROM	10, 8	\$A2	\$88
UG	XROM	20,44	\$A5	\$2C
VA	XROM	10, 7	\$A2	\$87
VF	XROM	20,58	\$A5	\$3A
VK	XROM	10,36	\$A2	\$A4
VM	XROM	10,26	\$A2	\$9A
VS	XROM	10,30	\$A2	\$9E
XD	XROM	10,25	\$A2	\$99
XE	XROM	10,19	\$A2	\$93
XL	XROM	20,57	\$A5	\$39

Printer

ACA	XROM	29, 1	\$A7	\$41
ACCHR	XROM	29, 2	\$A7	\$42
ACCOL	XROM	29, 3	\$A7	\$43
ACSPEC	XROM	29, 4	\$A7	\$44
ACX	XROM	29, 5	\$A7	\$45
BLDSPEC	XROM	29, 6	\$A7	\$46
LIST	XROM	29, 7	\$A7	\$47
PRA	XROM	29, 8	\$A7	\$48
PRAXIS	XROM	29, 9	\$A7	\$49
PRBUF	XROM	29,10	\$A7	\$4A
PRFLAGS	XROM	29,11	\$A7	\$4B
PRKEYS	XROM	29,12	\$A7	\$4C
PRP	XROM	29,13	\$A7	\$4D
PRPLOT	XROM	29,14	\$A7	\$4E
PRPLOT P	XROM	29,15	\$A7	\$4F
PRREG	XROM	29,16	\$A7	\$50
PRREGX	XROM	29,17	\$A7	\$51
PR~	XROM	29,18	\$A7	\$52
PRSTK	XROM	29,19	\$A7	\$53
PRX	XROM	29,20	\$A7	\$54
REGPLOT	XROM	29,21	\$A7	\$55
SKPCHR	XROM	29,22	\$A7	\$56

SKPCOL	XROM	29,23	\$A7	\$57
STKPLOT	XROM	29,24	\$A7	\$58

Time

ADATE	XROM	26, 1	\$A6	\$81
ALMCAT	XROM	26, 2	\$A6	\$82
ALMNOW	XROM	26, 3	\$A6	\$83
ATIME	XROM	26, 4	\$A6	\$84
ATIME24	XROM	26, 5	\$A6	\$85
CLK12	XROM	26, 6	\$A6	\$86
CLK24	XROM	26, 7	\$A6	\$87
CLKT	XROM	26, 8	\$A6	\$88
CLKTD	XROM	26, 9	\$A6	\$89
CLOCK	XROM	26,10	\$A6	\$8A
CORRECT	XROM	26,11	\$A6	\$8B
DATE	XROM	26,12	\$A6	\$8C
DATE+	XROM	26,13	\$A6	\$8D
DDAYS	XROM	26,14	\$A6	\$8E
DMY	XROM	26,15	\$A6	\$8F
DOW	XROM	26,16	\$A6	\$90
MDY	XROM	26,17	\$A6	\$91
RCLAF	XROM	26,18	\$A6	\$92
RCLSW	XROM	26,19	\$A6	\$93
RUNSW	XROM	26,20	\$A6	\$94
SETAF	XROM	26,21	\$A6	\$95
SETDATE	XROM	26,22	\$A6	\$96
SETSW	XROM	26,23	\$A6	\$97
STOPSW	XROM	26,24	\$A6	\$98
SW	XROM	26,25	\$A6	\$99
T+X	XROM	26,26	\$A6	\$9A
TIME	XROM	26,27	\$A6	\$9B
XYZALM	XROM	26,28	\$A6	\$9C

Wand

WNDDTA	XROM	27, 1	\$A6	\$C1
WNDDTX	XROM	27, 2	\$A6	\$C2
WNDLNK	XROM	27, 3	\$A6	\$C3
WNDSUB	XROM	27, 4	\$A6	\$C4
WNDSCN	XROM	27, 5	\$A6	\$C5
WNDTST	XROM	27, 6	\$A6	\$C6

I hope this helps!

Re: Here's a place to start:

*Message #5 Posted by [alditenen](#) on 21 Mar 2001, 8:27 p.m.,
in response to message #4 by Steve (Australia)*

Thank you, very much....! the program works perfectly.....

I am discovering my hp41cv again.....22 years later....!!! Bye and good luck

Thanks Steve and Tony Duell!

*Message #6 Posted by [Dave Hicks](#) on 22 Mar 2001, 12:04 a.m.,
in response to message #4 by Steve (Australia)*

I've updated

<http://www.hpmuseum.org/software/xroms.htm>

with a merge of the lists you sent to me. Steve, can you check your Time module list? Your list and Tony's were different starting at function 23. My Time module looks like Tony's but perhaps there were different versions.

Re: Thanks Steve and Tony Duell!

*Message #7 Posted by [Steve \(Australia\)](#) on 22 Mar 2001, 5:57 a.m.,
in response to message #6 by Dave Hicks*

I think my time module listing is wrong.

Also note the 23,0 that appeared in my list for the advantage module that I'm sure should be 24,0

It would be good if someone could confirm that. This listing came from an emulator. I don't have an advantage module handy... I don't think.

And some more...

*Message #8 Posted by [Steve \(Australia\)](#) on 22 Mar 2001, 6:52 a.m.,
in response to message #6 by Dave Hicks*

HP82183A Extended IO

XR0M 23,xx (Oops you already had this one

```
0 -X MASS 1A
1 COPYFL
2 DIRX
3 FLLENG
4 FLTYPE
5 MCOPY
6 MCOPIPV
7 MVERIFY
8 -X EXT FCN
9 ALENGIO
10 ANUNDEL
11 ATOXL
12 ATOXR
13 ATOXX
14 ATOAL
15 XTOAR
16 X<>FIO
17 YTOAX
18 -X CTL FNS
19 AID
20 CLRDEV
21 CLRLOOP
22 DEVL
23 DEVT
24 FINDAID
25 ID
26 INAC
27 INACL
28 INAE
29 INAN
30 INXB
31 INP
32 LOCK
33 NLOOP
```

34 NOTREM
35 OUTAC
36 OUTACL
37 OUTAE
38 OUTAN
39 OUTXB
40 OUTP
41 POLL
42 POLLD
43 POLLE
44 POLLUNC
45 RCLSEQ
46 SRQ?
47 STAT
48 XFER
49 XFERC
50 XFERCL
51 XFERE
52 XFERN
53 -ADV CTL FN
54 ADROFF
55 ADRON
56 DDL
57 DDT
58 LAD
59 SEND
60 TAD
61 UNL
62 UNT

IR PRINTER MODULE XROM 29,XX

0 -PRINTER 3B
... THEN AS FOR IL PRINTER...
26 --
27 DELAY
28 MSN
29 MAPOFF
30 MAPON
31 NORM
32 PRTOFF

33 PRTON
34 RESETP
35 STARTU
36 STOPU
37 TESTP
38 TRACE

ZENROM

0 -ZENROM 3B XROM 5,XX
1 CLMM
2 CLXM
3 CODE
4 DECODE
5 LASTP
6 MCED
7 NOP
8 NRCLM
9 NRCLX
10 NSTOM
11 RAMED
12 TOGF

STRUCTURAL ANALYSIS PAC xrom 7,XX AND 19,XX

7,0 STRCTA 1B
1 SECTION
2 SIMPLE
3 CANT
4 FIXED
5 PROPPED
6 SPAN
7 NSPAN
8 FIXL
9 FIXR
10 MOMENTS
11 SETTLE
12 CFRAME
13 VECTOR
14 SIZE?

15 SZ?
16 ATANY/X
17 BEAM
18 *B
19 *AI
20 *L1
21 *P1
22 *M1
23 *W1
24 *P
25 *M
26 *L
27 *W
19,0 STRCTB 1A
1 COLE
2 COLSI
3 TBEAM
4 RBEAM
5 CONCOL
6 ITCON
7 IRCON

STRESS ANALYSIS XROM 08,

0 STRESS 1B
1 SIMPLE
2 CANT
3 FIXED
4 PROPPED
5 SPAN
6 NSPAN
7 FIXL
8 FIXR
9 MOMENTS
10 COLUMN
11 SECTION
12 MOHR
13 DELTA
14 REC
15 SODER

16 VECTOR
17 SIZE?
18 ATANY/X
19 BEAM
20 *B
21 *AI
22 *L1
23 *L
24 *P1
25 *P
26 *M1
27 *M
28 *W1
29 *W
30 *ROS
31 *MO
32 *COL

HOME MANAGEMENT xrom 09,XX

0 HOME MN 1A
1 BUDGET
2 TRAVEL
3 STOCKS
4 FINANCE
5 BAL
6 IRA
7 INS
8 CHECK
9 HOME
10 BUY?
11 STORE
12 RELOAD
13 CL
14 *
15 *0
16 *e
17 n
18 *I
19 PV
20 PMT

21 FV
22 *J
23 *H

Sadly I don't have any more modules with me at the moment :-)

Thanks Steve!

*Message #9 Posted by [Dave Hicks](#) on 25 Mar 2001, 6:18 p.m.,
in response to message #8 by Steve (Australia)*

I've added those.

It looks like you're due for an HP-01 pen. Please email me your snail mail address.

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Trig functions with small angles

Message #1 Posted by [Jim](#) on 20 Mar 2001, 4:24 p.m.

I seem to recall that my old HP-33C had two types of trig functions: the regular trig functions and then a 2nd set of trig functions for small angles less than 1 degree. Apparently, the regular trig algorithm wouldn't return accurate values for small angles. Why aren't these found on calculators today? Are the algorithms used for trig functions always returning correct values for small angles?

Re: Trig functions with small angles

Message #2 Posted by [J. Lopez](#) on 21 Mar 2001, 10:54 a.m.,

in response to message #1 by Jim

I just bought an HP-33C and have been putting it through its paces to learn of its capabilities. I have both manuals that came with the calc but I don't see any mention in them to a different set of trigonometric functions for small angles. I'm sure I checked the manuals thoroughly (they aren't too big anyway).

I do seem to remember from high school math something like trigonometric functions yielding results that are very approximate to the angle argument (provided the argument was in radians and small); i.e., $f(x) \sim x$ | x is angle in radians.

I'll check tonight the accuracy of the results returned by my HP-33C for small angles and compare these with those returned by my 49G (I'll check further with one TI calculator I have). Will post results tomorrow.

Re: Trig functions with small angles

Message #3 Posted by [John M.](#) on 22 Mar 2001, 4:38 a.m.,
in response to message #1 by Jim

If your calculator doesn't return proper values for these tiny angles, there is a trick that was often used on slide rules. For sines: express the angle in minutes (decimal notation) and divide by 3440. The result will be more exact the smaller the angle. Just try it out!

Good luck, John

Re: Trig functions with small angles

Message #4 Posted by [J. Lopez](#) on 22 Mar 2001, 5:11 p.m.,
in response to message #1 by Jim

Well, last night I compared the results of calculating the sine of small angles (in radians) in my HP-33C and an HP-49G. For angles less than 8.72664626 E-2 (approx 5 degrees), the difference between the two calculators was in the order of 2 E-12 , which I don't think is significant.

Incidentally, for this angle, .087266 radians, the sine is .087156. These values tend to be closer together as the angle decreases. For example, when the angle is 3.49066 E-2 (approx 2 degrees), the sine is 3.48995 E-2 and when the angle is 1.74533 E-2 (approx. 1 degree), the sine is 1.74524 E-2 .

The results given by a TI-92 Plus calculator showed better precision (typically one more digit than the HP49G).

Re: Trig functions with small angles

Message #5 Posted by [Peter](#) on 23 Mar 2001, 7:16 a.m.,
in response to message #4 by J. Lopez

The small angle formulae state that for x being very small:

$$\sin(x) \sim x \quad \tan(x) \sim x \quad \cos(x) \sim 1$$

As an astronomer we deal with very tiny angles, so I always take full advantage of these relations, thus I never have to call into question the accuracy of my calculator. I wouldn't recommend using the small angle formulae for anything larger than a few arcminutes, but for angles smaller than that it's a real time saver.

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Need: Basic HP-85 I/O Commands to Floppy

Message #1 Posted by [Mike](#) on 20 Mar 2001, 2:58 p.m.

I have the following equipment:

HP-85, H82937A (HP-IB interface), 82901M (Flexible Disk Drive) and a Mass Storage ROM. I even have manuals for the 85 and the Disk Drive. But I don't have any documentation on the Mass Storage ROM or the HP-IB interface.

What I am looking for, if someone has the data, are some commands that I can use to setup, copy, load, etc, programs and files between the HP-85 and the Floppy Drive?

If anyone have this information that they could share me, I'd appreciate it?

Re: Need: Basic HP-85 I/O Commands to Floppy

Message #2 Posted by [Bruce Cohen](#) on 20 Mar 2001, 6:33 p.m.,
in response to message #1 by Mike

I'll try to help but this is from memory about 20 years ago. This will be fragmented but here goes. First you need to issue a command to define the location of the storage device. Note: the curly brackets are not part of the commands The first command {MASS STORAGE IS} can be abbreviated as "MSI" and is used thus {MSI ":D700"}. The 7 refers to the identity of the HPIB interface card and the 00 is the HPIB address. This will now redirect the LOAD, STORE, READ, and WRITE commands to the disk drive. If memory serves me, the dual disk drives use 00 for the first drive and the second drive is one greater -- 01. I think you can also direct the read and writes directly by using this form {READ ":D700"}. There is a very slight chance I can get copies of the manuals.

Good luck, Bruce Cohen

Re: Couldn't wait to try these...

*Message #3 Posted by [Mike](#) on 21 Mar 2001, 1:31 a.m.,
in response to message #2 by Bruce Cohen*

Good memory. They worked just as you say. I have successfully read from floppy and copied the programs to tape. Now to figure out how to do the same for data files. But I think I can figure that out from the applications.

One more question: Do you know if it is possible to copy from disk to tape in one command without having to do a load "examplefile" followed by a store "examplefile:Tape"

Also, do you remember a command to format and delete files on a floppy?

Re: Couldn't wait to try these...

*Message #4 Posted by [Bruce Cohen](#) on 21 Mar 2001, 10:42 p.m.,
in response to message #3 by Mike*

I don't think there is a way to copy programs from one device to the device to the other. As I recall, all programs had to be read into memory using the LOAD or LOADBIn (for binary programs) and then stored using the STORE or STOREBIN commands.

I'm a little fuzzy here but I think that the format command was {FORMATDISK 2 ":D701"} or {FORMATDISC 2 ":D701"} -- both spellings were allowed. I'm pretty sure that the ":D700" was mandatory to avoid formatting the wrong disk due to a previous MSI command. The "2" in the above command is the disk sector interleave number -- the value of 2 may be too low -- I think 4 or 5 might be better. Also its use is optional (I think -- not really sure).

The HP-80 series used a disk storage system format called AMIGO 80. This format would not break files on tape or disk; files had to be stored contiguously. I think AMIGO 80 would merge adjacent blank spots to optimize space but it WOULD NOT move files to create space. The 5 1/4 inch floppies had 270K space. Although the system was supposed to tolerate some disk flaws and create hidden dummy files on the bad spots, the early drives would reject disks with any errors.

As far as deleting files from disks, I'm afraid my answer is going to be a 65% guess. The DELETE command was used to remove lines of basic programming. There should be an ERASE command similar to the one for the tape drive.

Regards,

Bruce Cohen

Deleting files

*Message #5 Posted by [Steve \(Australia\)](#) on 25 Mar 2001, 4:26 a.m.,
in response to message #4 by Bruce Cohen*

HP was always fond of PURGE is a command to remove files.

Anyone Know what the Format Disc Command is

*Message #6 Posted by [Mike](#) on 23 Mar 2001, 8:01 p.m.,
in response to message #2 by Bruce Cohen*

for the 9825A. I've tried the obvious, per suggestion, and it did not work. Tried FORMAT, FORMATDISC, FORMATDISK. Also a delete file command would be helpful.

Thanks

Re: Anyone Know what the Format Disc Command is

*Message #7 Posted by [JR Hansen](#) on 26 Mar 2001, 5:06 a.m.,
in response to message #6 by Mike*

Give these a try

```
INITIALIZE["new vol label"[, ".old vol label"[,directory size[, interleave factor]]]
```

INITIALIZE-- this will initialize the disc with no volume lable.

```
INTIIALIZE "NEW,":D720"-- initializes the disc at "D720" and assigns volume label ",  
NEW"
```

```
INITIALIZE "NEWER",",OLD",15,2-- initalizes disc ",OLD" and assigns new volume  
label "NEWER" the directory consist of 15 records and interleave factor is 2.
```

Hope this helps

JR

Re: Thanks I will ...

*Message #8 Posted by [Mike](#) on 28 Mar 2001, 1:45 p.m.,
in response to message #7 by JR Hansen*

I will try these this evening. Finally got some original documentation for the HP-85 and 9825 but it has not arrived yet.

Mike

Give these a try

```
INITIALIZE["new vol label"[, ".old vol label"[,directory size[, interleave factor]]]
```

Thanks,

INITIALIZE-- this will initialize the disc with no volume label.

```
INITIALIZE "NEW,":D720"-- initializes the disc at "D720" and assigns volume  
label ",NEW"
```

```
INITIALIZE "NEWER",",OLD",15,2-- initializes disc ",OLD" and assigns new  
volume label "NEWER" the directory consist of 15 records and interleave factor is 2.
```

Hope this helps

JR

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Are we premature mourning HP's exit?

Message #1 Posted by [Glynn](#) on 19 Mar 2001, 11:43 p.m.

Okay, now. So maybe I'm just out of touch...

Has anyone REALLY heard definitely that HP is exiting the calculator market?

All I have heard, so far, is one reference here to hpcalc.org, which responded (perhaps apocalyptically?) to news that the Xpander was axed....

Believe me, big companies always have their own internal struggles. Xpander was a product that NEEDED a serious evaluation of its market. It failed to pass the test of a product that really met its intended market's desires. Add to that, that HP's mobile computing division has plenty of palmtops either ready to go, or in development.

Neither of these things, to me, signal HP's giving up on calcs. It MAY mean a re-emphasis on financial calcs, or a redesign of Xpander to be more than a crippled but trigonometry-savvy palm-pilot. Or any number of options, including the possibility that a calc division might be subsumed into the palmtop/handhelds development group, but still delivering calcs.

So is there any official word from HP? Any weird marketing thing from HP like a clearance sale? Any resumes from ACO personnel on Dice.com? Surely a few insiders on the mothership have come out and stated that nothing new is planned, that TI and Casio have won, that the board voted to relocate the calculator division to Antarctica....

If no, aren't we just grieving for the OLD HP again, the one that gave us the professional tools, NOT the one that produced the 6S and 39G and Xpander?

If YES, then I'll weep too; not that HP has shed some of its roots-- but that HP was too stupid to recognize the marketing blunders that were theirs to correct, and having lost their way, decided the effort was too great (and the market too small) to justify pursuing it with more purpose.

And then I'll possibly start my own calculator company. ;-) Or at least cheer on the one that thinks a

lucrative and prestigious bit of market still exists for serious dedicated numeric computing devices.

So. Point me to the info, fellow web-citizens. Lead on!

Re: Are we premature mourning HP's exit?

Message #2 Posted by [Frank Knight](#) on 20 Mar 2001, 4:20 p.m.,

in response to message #1 by Glynn

And perhaps we should be working with Calculated Industries for a new one, they seem flexible and strong at specialization but would have volume concerns. They have a new low cost product in Walmart these days. The quality of this QC calc in it's leather case I have in my desk seems high.

Re: Are we premature mourning HP's exit?

Message #3 Posted by [db \(martinez, california\)](#) on 21 Mar 2001, 6:48 p.m.,

in response to message #2 by Frank Knight

so frank, you've got me curious, what is your "QC calc"?

Re: Are we premature mourning HP's exit?

Message #4 Posted by [Frank knight](#) on 21 Mar 2001, 7:18 p.m.,

in response to message #3 by db (martinez, california)

It is a speciality calculator made by Calculated Industries of the US though the instrument made be made in Taiwan. They make a number of specialized calculators, electricalc which includes the US NEC rules where they apply and does volts, amps, etc, and several models of construction calcs, and others. Heres the web site: <http://www.calculated.com/>

Re: Put in your two cents' worth on the Calculator of your dreams

Message #5 Posted by [Paul Brogger](#) on 21 Mar 2001, 8:21 p.m.,

in response to message #4 by Frank knight

Great Idea!

I checked out the site. There's a "Product Idea" submission page(!!!!)

Thinking I've nothing to lose, I blithely agreed to the disclaimer and posted them the following hasty summary. I'll keep you posted if I get any response. (Meanwhile, you all might want to reinforce the notion that such a beast might sell . . .)

IDEA:

A ~512 Kb programmable, PC-connectable, shirt-pocket calculator with a two-line display and a configurable keyboard/user interface. (Roughly, an HP-41C/42S substitute.)

Since Hewlett-Packard has discontinued its HP-41C and HP-42S calculator lines, calculator hobbyists have been yearning for a suitable equivalent. An available, supported, fully programmable machine with some form of PC interface (infrared or wire connector) and an "open" architecture would satisfy a lot of calculator users.

The ideal machine would include a simple numeric keypad, with configurable and menu keys, a two-line alphanumeric LCD display, and something like 512Kb or more usable, low-power memory. Users should be able to program the "behavior" of the machine to the point that it could be made to emulate RPN (stack-based) or "algebraic" operating modes.

END-USERS:

Programmable calculator users (engineers and scientists) who feel abandoned by Hewlett-Packard.

Interested parties would pitch in on workstation compilers and simulators, allowing users to mock up new or modified programs on the PC, then download them to the calculator.

If the hardware were made available, the interest group would cooperate on "open source" projects to make the device more widely usable. Any "kernal" features which the manufacturer could provide (trigonometric functions, display and key entry subroutines, PC I/O routines, etc.) would serve as building blocks for several full-featured manifestations of the calculator's evolving software base.

COMMENTS:

Visit the "Forum" sections at the Museum of HP Calculators (www.hpmuseum.org) to get a sense of people's longing for a programmable, shirt-pocket portable.

Re: Are we premature mourning HP's exit?

Message #6 Posted by [Jan-Olov Persson](#) on 28 Apr 2001, 7:12 p.m.,
in response to message #2 by Frank Knight

Hi fellows,

what I've heard in Sweden HP calculators will die out in a near future. Is that in accordance with the information You have in US. If this is true we dealing with technology and science will suffer a great loss. You know, yesterday my old heavily used HP15 just failed to respond to ENTER pressing.

What to do if HP is stopping the manufacturing of calculators. Only one answer - slide rule!!! Nefer a Casio or Texas calculator.

I'm one of the first users in Sweden of HP35 (with the confusing x^y) in Sweden. Ever since HP has been my way of calculation (the natural way) up to the present HP49 (with its unfortunately very bad manuals).

Ps!

Maybe I misunderstood this forum???

Re: Are we premature mourning HP's exit?

Message #7 Posted by [Glynn](#) on 28 Apr 2001, 10:17 p.m.,
in response to message #6 by Jan-Olov Persson

Jan-Olov (and all concerned);

Rumors are sometimes right, but more often wrong!

UNLESS and UNTIL HP "throws in the towel" OFFICIALLY, I personally am going to choose to believe the following:

HP is going to make calculators until the end of time. (A 10-series financial model will, in fact, still be manufactured somewhere in the galaxy as long as "money" in some form is being used as an exchange medium.)

As far as coming out with new models we enjoy and respect, well, we can AT LEAST expect that HP will make competent and accurate appliances that effectively serve the markets HP attempts to target. These markets are GOING TO BE students, ordinary consumers, businesses and sales professionals.

The models will mostly be inexpensive, algebraically-oriented, programmable, menu-driven, and graphical, pretty much LIKE EVERYBODY ELSE'S products. If HP wants to differentiate itself in calculator markets (though it is by no means clear that they WANT to be different), they will leverage technologies they lead in... maybe make a color-inkjet calc, or one that you scan over your homework paper and it OCRs and then grades the results.

If some HP folk (CEO-type) have their way, you'd buy an HP calc that would satellite its questions to an HP Network center, distribute the computing task, and download the answer back to your calc via a cellular link. Each keypress would result in a debit to your credit-card account, on file at HP. Luckily, the Marketing department is probably competent enough to survey consumer resistance beforehand... and recommend instead "new cool colors" for the 6s....

In any case, don't call time on HP. It is true they DON'T anymore emphasize what we came to value in the older iterations of calculators... but that does NOT mean that HP is leaving the calculator market.

Indeed, someday, somehow, they might even surprise and delight us again (hey, I am still open to that possibility).

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Nostalgia

Message #1 Posted by [Juan J](#) on 18 Mar 2001, 9:31 p.m.

I just read the "Gone with the wind" message. It is sad that HPs will become a thing of the past. It made me think about something.

I have also assembled a little collection over the years. I missed the calculator revolution, but when I was in high school HP introduced the 41CX and the 71B. Powerful machines, no doubt.

I found out about the rest of the models, and watched closely as HP introduced new ones.

Later I got my 41, and eventually upgraded to the 48. My first "collectible" was a 32S I got cheap from a friend. I ended up collecting models that reminded me of that time. Models that evoke nostalgia and loyalty, I said to myself. Loyalty to fine machines from a fine manufacturer that could do every thing one expected them to do, and nostalgia for the time spent using them to solve everyday's problems.

My collection has a few "firsts," but consists mainly of models that remind me of the past: a 41C, a 41CV, a 41CX (my first), a 28S, two 71Bs, a 32S, a 48SX and a 48 GX. Now I'm looking for Voyagers.

My questions: how many of us have ended up with a sort sentimental relationship to our calculators? How many collections out there are built upon nostalgia? As Tom Drewski pointed out, we all became successful professionals with disposable income for such things. Part of which we owe to our HPs, I think.

Re: Nostalgia

Message #2 Posted by [J. Lopez](#) on 20 Mar 2001, 11:50 a.m.,
in response to message #1 by Juan J

I feel the same way.

My collection is not too big, but I'm concentrating on scientific, programmable RPN models. Although my first HP calc was the HP-28C, (I bought it in '87, which makes me a late-comer to the cult) I was always attracted to these magic little boxy, brown and sober machines. For me RPN logic was a natural thing. When you perform arithmetic operations on paper, you write down the arguments first and then work out the answer. After RPN, working with an algebraic calculator is an unnatural thing for me.

My HP-28C gave me so many hours of pleasure, I felt like a kid with a new toy. I remember going through the manuals cover-to-cover when I took the calculator home and not emerging until having finished with them. Only to go out to try to get information on a company somewhere in the West Coast, EduCalc, which carried all sorts of accessories, books and HP calculators. Once I had their address I bought from them often. I still have, and read, Bill Wickes' "Insights" book on the HP-28C. Later I upgraded to an HP-48SX and, of course, to the version of Wickes' book for that one too. They still make a great read and it's fascinating understanding the why's and how's of RPN logic.

"Nostalgia" is what makes me keep these little machines and use them to solve all sorts of problems, even the most trivial. I've just went through the code for calculating income tax in my HP-48GX, which I wrote about ten years ago. My wife laughs at the thought that this puny machine will be able to come up with a bigger income tax refund than my object-oriented, user-friendly, multi-task enabled, tax-saving suggestion-overwhelming Intuit's TurboTax Deluxe for Windows in my PC. I keep telling her that that is the case, so that next time I come home with a new HP calculator, she will understand and accept it (hmmmm, maybe the IRS should grant a deduction for expenses in old HP calculators used for calculating income taxes, huh?).

Re: Nostalgia

*Message #3 Posted by [Bill](#) on 21 Mar 2001, 7:57 a.m.,
in response to message #2 by J. Lopez*

My first HP calculator was HP41CV. I had no idea what RPN but it was so intuitive I picked it up quickly. Back then I didn't have a PC so I programmed the HP41CV for all of my day to day calculations. It became an incredible time saver and I knew I had the best calculator made.

Five years later I bought a HP42S just because I wanted something new. Not only could I reduce the number of programs I had, thanks to the Solver (MVAR), but the curve fitting function was used daily. Jump ahead another five years, I found Dave's web site and I realize the value of my HP42S and the mistake of throwing away my perfectly good HP41. I never take the HP42S out of the draw because I fear I'll break it so I sold it for about what I paid for it and bought a new HP32SII for \$37. The HP32SII is a nice calculator but every time I use it I am reminded how HP discontinued the better of the two and I am using the second best. Long gone is the feeling that I have the best calculator made.

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HP41CX needs repair

Message #1 Posted by [Charles N. Capp](#) on 18 Mar 2001, 9:26 p.m.

I have a 41cx that the on/off key will not work. Hence, i can't get the calculator to turn on. where can i send it for repair? The ad a company back East posted in POB no longer advertises. please message at ls6925@msn.com. Thanks, Charles Capp

Re: HP41CX needs repair

Message #2 Posted by [Walter](#) on 18 Mar 2001, 10:30 p.m.,

in response to message #1 by Charles N. Capp

Try John Robinson at john-a-robinson@hotmail.com. He helped me get my 41CV going again. Part of his overhaul is to clean the keys. He is very helpful. Walter

Re: HP41CX needs repair

Message #3 Posted by [John Robinson](#) on 19 Mar 2001, 12:16 a.m.,

in response to message #2 by Walter

Thanks for the good words Walter, but the email reference is not quite right, you can get me at john_a_robinson@hotmail.com

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How does one open up an HP-27s

Message #1 Posted by [Bob](#) on 18 Mar 2001, 11:09 a.m.

I see no screws and the sides look to fragile to pry open without leaving marks. So, what is the trick?

Thanks

Re: How does one open up an HP-27s

Message #2 Posted by [Paul Brogger](#) on 19 Mar 2001, 1:16 p.m.,
in response to message #1 by Bob

Look around the MoHPC for my article on "Pioneer Internals" (I don't know how to hyperlink from here). It tells how I took a few apart. It's not impossible. If you decide to take the LCD out, that's the most touchy part of the operation.

What ARE you taking it apart for, by the way?

Re: How does one open up an HP-27s

Message #3 Posted by [Bob](#) on 19 Mar 2001, 2:52 p.m.,
in response to message #2 by Paul Brogger

Sorry, but I just noticed this response. The LCD has dust and grit underneath and the display is getting difficult to read. I'd just like to clean the display.

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Message for Oldøich Èapinský (OT)

Message #1 Posted by [Gianmaria \(Italy\)](#) on 18 Mar 2001, 2:06 a.m.

Dear Oldøich, I tried to write you but message bounced. Please contact me at my E-Mail adress.
Thanks.

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Gone with the wind...

Message #1 Posted by [Marx Pio](#) on 17 Mar 2001, 5:46 p.m.

It seems that HP calculators division decided to follow Mr Hewlett. The rumours are that HP is going to shut down calculators operations. Check Eric's site on www.hpcalc.org I think 3 things will happen:

1-The prices of used calculators will be increased 2-Many people will change into PDA's 3-Only the hpcalcmaniacs will survive

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HP's that show X and Y register

Message #1 Posted by [Kenton Green](#) on 17 Mar 2001, 5:32 p.m.

Hello,

Which pocket RPN calculators show both X and Y? The only one I can think of is the 42s. The 48-series and the 28-series show more than two, but they are bigger than pocket-size (ok, maybe the 42 is a little oversize for most shirt pockets also).

I wonder, because I find that only seeing X (ala 32s) sometimes require me to hit $x \leftrightarrow y$ twice, so I can recall what I had in Y. Somewhat annoying.

Regards, Kenton

Re: HP's that show X and Y register

Message #2 Posted by [Jan](#) on 18 Mar 2001, 10:55 a.m.,
in response to message #1 by Kenton Green

HP 19B II has got RPN and shows 3 registers (X,Y,Z) of the stack at the same time

Re: HP's that show X and Y register

Message #3 Posted by [Joe Panico](#) on 19 Mar 2001, 9:32 a.m.,
in response to message #2 by Jan

A better way to show X, Y, Z, T on the 32 series is to use the VIEW function. The display only shows one at a time- the X register - but I always found the 32 very flexible.

The 48 series can hold a stack limited only by memory but still displays only 4 items unless the Stack Viewer is selected.

So, your choice is 1 to 4 items.

Re: HP's that show X and Y register

Message #4 Posted by [Richard C. Anderson](#) on 20 Mar 2001, 6:32 a.m.,
in response to message #3 by Joe Panico

I thought I would put my 2 cents in. Seeing both the X and Y registers makes RPN really simple and intuitive...it can be learned and its advantages seen almost immediately. If a cheapo scientific with a two-line display had come along before the 42s, RPN would probably still be alive and well today. My first HP was a 42s and I loved it immediately. I had moved up from two TI-66's which were (are still) nice but the 42s is (honest) about 10 times better. (For the Nostalgia item above...yeah, the only X,Y calc. out there helped my career alot.) Richard

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Navrom by A P Systems

Message #1 Posted by [Lou Ostendorff](#) on 17 Mar 2001, 3:14 p.m.

I have a Navrom for my HP-41CX which is about 1989 vintage. The maker/publisher was A.P. Systems out of Las Vegas, NV. They are no longer in business. I lost the manual and am looking for someone who might be able to furnish me a copy. Any ocean navigators out there? This would be a backup system to my GPS. Thanks in advance.

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Politically Incorrect Calculator Collecting

Message #1 Posted by [Chris Randle \(Lincoln, UK\)](#) on 17 Mar 2001, 8:09 a.m.

OK, I run the risk of getting roasted over this politically incorrect posting, but it's a true story and I mean it light-heartedly - honest!

I don't really collect HP calcs, I just keep buying more of them. I've got a 48SX, 16C and 200LX. For the last few months, I've been yearning for an HP-42S, but my wife told me it was out of the question.

Well, I couldn't help myself and disobeyed her. A few people chipped in with helpful lies, I mean suggestions, such as "I won it in a poker game", "I found it on a bus" etc. My Mum offered to say that she'd bought it for me as a gift.

I finally decided that I couldn't deceive my wife, so at the dinner table I pulled out the 42, plonked it down and clicked a few keys as if to say "and what are you going to do about it?". Nothing. I pushed a few more buttons gazing admiringly at it. Still nothing. Then I realised what was going on. Women can't tell the difference between a 48 and 42! No, really!!

Collect away guys. Just stick to the same series.

BTW if anyone wants to hear an even better story in a similar vein, although off topic, about a friend of mine, his wife and his Mercedes, let me know.

p.s. I would suggest ignoring my advice if you happen to be married to Diana Byrne!

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Re: HP-33C repair

Message #1 Posted by [J. Lopez](#) on 16 Mar 2001, 4:40 p.m.

I will try to get the NiCd batteries tonight at my local Radio Shack. Still, I don't know if the fact that calc's current battery pack is dead was the cause for the display of the calc to go haywire. As I mentioned before, there's no response to key presses except that, sometimes, the display will go blank after too many key presses. The keys, though, still have the clicky feedback you get from the old models of HP's and the calc looks brand new.

I very much appreciate your responses to my queries and will keep you posted on any developments with my brand new HP-33C.

(BTW, I just bought a brand-new, in the box, HP-42S, complete. The serial number starts with ID027, which indicates that this unit was manufactured in the 27th week of Y2K. The manual, still shrink-wrapped, is a little yellowish, and is dated 1/92. Sometimes it pays to venture into these vulture-like electronics stores that take advantage of tourists. I only paid \$59.95 - \$64.93 with the NY State sales tax- and I'm thrilled by the deal, after seeing these go for close to \$200 at eBay.)

Re: HP-33C repair

Message #2 Posted by [Romeo](#) on 16 Mar 2001, 6:58 p.m.,

in response to message #1 by J. Lopez

Radio Shack has rechargeable replacement AA cells that are Catalog Number 23-191 rated at 1.25 volts. Although it is tempting to use any AA cell particularly of a higher rating I believe you're always on the safe side of the calculator's power requirement if you used the specified 1.25-volt for it. And always use its charger only with its battery pack installed. Once the calculator lights up you can try pressing STO ENTER and if the circuits are alright it should display an -8,8,8,8,8,8,8,8,8,8,. Actually any electronics retailer has a battery for the HP-33C. I have an HP-33E which is similar to the 33C and I use 1.2-volt rechargeables in it.

Re: HP-33C repair

Message #3 Posted by [M Currie](#) on 17 Mar 2001, 11:01 p.m.,
in response to message #1 by J. Lopez

A few years ago I bought a 33C at a tag sale (for a buck) which also didn't work. I don't remember exactly how it was put together inside, but as I recall various parts were plugged or pressed together in a way that made contact iffy, and when I took it apart and put it back together it was fine.

Re: HP-33C repair

Message #4 Posted by [J. Lopez](#) on 20 Mar 2001, 9:22 a.m.,
in response to message #3 by M Currie

Hi, folks: Following everybody's advice, I went to Radio Shack to check on their rechargeable AA battery packs. Unfortunately, in a couple of stores I visited over the weekend, they were out of cat # 23-191. They had, however, another pack cat. # 23-260, rated at 1.25V too. This pack, however, cost almost as much as I'd paid for my HP-33C. Being the cheapskates I am, I decided to buy some Panasonic rechargeables (only \$4.99 a pair) and used a small metallic piece to join them at the bottom (I decided not to disassemble the battery pack). After charging them, my HP-33C is now working beautifully. It passes the self-check test (thanks Romeo) and keeps programs stored and register contents after turned off. It's a beautiful machine. There's such a great feedback after pressing the keys you feel like ditching your state- of-the-art HP-49G.

Anyway, thanks everybody. My HP-33C is now the oldest calculator in my collection (serial number starts with 2241), but it works flawlessly even after a lot of abuse it must have been put through at the shop where I bought it. The salesman didn't even have the battery pack installed in it when he plugged it to the AC outlet to show me it was working. It shows how resilient these old HP calculators are.

Re: HP-33C repair

Message #5 Posted by [Romeo](#) on 20 Mar 2001, 10:10 p.m.,
in response to message #4 by J. Lopez

Mr. J. Lopez:

You're welcome. It's a pleasure to be of help.

Regards,

Romeo

Re: HP-33C repair

*Message #6 Posted by [Frank Knight](#) on 22 Mar 2001, 4:57 p.m.,
in response to message #4 by J. Lopez.*

Real cheapskates buy discontinued cordless phone battery packs in Walmarts, etc. for \$.50, sometimes with up to 6 AA cells, already jumpered and then cut them apart!! ;+}
If not, Qty 10 of the 5 cell packs can usually be bought from a distributor for about \$2/ea. Frank

Re: HP-33C repair

*Message #7 Posted by [J. Lopez](#) on 22 Mar 2001, 5:16 p.m.,
in response to message #6 by Frank Knight*

Wow! Now you tell me! Gotta start going to Walmart's more often.

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Re: HP-33C repair

Message #1 Posted by [J. Lopez](#) on 16 Mar 2001, 1:25 p.m.

Yup, I kept the battery pack in the calc compartment all the time. After several hours of trying to charge it, I unplugged the calc from the wall outlet and tried to turn it on but nothing happened. However, plugging it again to the AC outlet, the display lits up showing, again, some "Error" number. Will try tonight the trick with two AA's.

Can one get a replacement Ni-Cad battery pack for these machines? I'm thinking some cordless phone receivers use the same battery shape. Maybe these could be used in the HP-33C?

Thanks for your reply, Warren

Re: HP-33C repair

Message #2 Posted by [D. Banks](#) on 16 Mar 2001, 2:41 p.m.,
in response to message #1 by [J. Lopez](#)

Radio Shack sells a great variety of AA NiCds - some with solder tabs, some without.

What I found is that they also sell a battery pack for some kind of cordless phone that contains 5 AAs tabbed together in series. Per battery, I think it's cheaper than actually buying loose NiCds. I had great luck just snipping off a pair of batteries from one of these packs. The two batteries are already tabbed together, and just ready to drop into the 3x series battery pack frame. Total time to rebuild the pack is under 5 minutes.

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Re: HP-33C repair

Message #1 Posted by [D. Banks](#) on 16 Mar 2001, 1:22 p.m.

You guys have got me so paranoid about this that I hardly ever plug a charger into a 3x at all. Instead, I cook the battery pack in the little (optional) external cooker, then try the pack in the 3x. If that pack works (and only then) do I consider risking the charger on the calc.

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HP-33C repair

Message #1 Posted by [J. Lopez](#) on 16 Mar 2001, 9:20 a.m.

I just bought a new old-stock HP-33C from an electronics shop (one of those that prey on tourists). The calc has a great cosmetic look, but it is not working. The rechargeable battery is also dead (I left the calc connected to an AC outlet for more than the five hours recommended in the manual, to no avail). When the machine is turned on (connected to the AC outlet), all display segments light up and remain lit until a key is pressed. Then the display shows one of several "Error #" messages. None of the keys are echoed on the display when pressed. I would love to have this little calc working and forming part of my RPN-HP collection. Any ideas on what I should do to resuscitate it? (I always knew that the calc was not working and, even so, I bought it and didn't pay too much. It's just too painful to see such a beautiful piece not working. I would appreciate any feedback.) Thank you J. Lopez

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Re: HP-35 Back Labels

Message #1 Posted by [M Currie](#) on 16 Mar 2001, 1:14 a.m.

I have 2: 1346A-08203 - a version 3 with type 2 label, and 1346A-50030 - a version 4 with type 2 label.

The label below the main one is different on these. On the earlier one it says (roughly formatted):

HEWLETT . PACKARD 3.75V 500MW MADE IN USA PATENT PENDING

and on the later one it says:

HEWLETT . PACKARD 3.75V 500mW MADE IN USA

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This pricing's crazy

Message #1 Posted by [D. Banks](#) on 15 Mar 2001, 10:50 a.m.

I'm sitting here watching what's being advertised as a new, unused HP-55 get bid up to \$415 on eBay. Alls I keep thinking is whether these people are for real.

Ok, reality check. At this stage in my collection, I'm pretty happy to get working examples of anything, and I'm not hugely concerned about condition. So, yeah, I can see that something in good condition with all its accessories would be worth more... but \$415? Is this for real?

On a more egotistical note, I have to wonder how much my recent re-entry into the market (started the collection 15 years ago, just re-started purchasing recently) affects prices. I mean, I'm one more person bidding things up, and I gotta wonder how much worse I make things when I place one of those "I'm going to get this sucker, dang it!" bids.

Gotta wonder if eBay is going to ruin HP collecting the same way it's ruined currency collecting...

Re: This pricing's crazy

Message #2 Posted by [Paul Brogger](#) on 15 Mar 2001, 3:24 p.m.,

in response to message #1 by D. Banks

eBay's a great marketplace to sell, 'cause it offers the widest exposure to buyers. But it's a lousy place to buy, 'cause you're competing with so many others. (And some of them/us are "crazy"!) More is available there at any given moment than anywhere else, but there's a price to pay, because more people are looking at what's offered. Anything "rare" or "collectible" or whatever and in short supply is going to draw a premium price. That's just the way it is.

A key to e-market success: buy elsewhere, sell on eBay. (The unstated complication: how to obtain elsewhere?) (Also, see Dave's and others' suggestions on how to find deals on eBay.)

Re: This pricing's crazy

*Message #3 Posted by [D. Banks](#) on 16 Mar 2001, 10:30 a.m.,
in response to message #2 by Paul Brogger*

I don't think I'd be so crazy as to say that I've ever gotten a deal on eBay, but I have been pleasantly surprised at times.

I recently got an HP-80 for a price that wasn't great, but well within the range of what I'd pay a friend for one. The seller described it as being in good condition. When I got it, it was clear that it'd pretty much never been used. Probably a store display model. That was a nice payoff.

Mostly, I use eBay to fill in the not-so-easy gaps. Hanging around computer geeks, the scientific models have always been pretty easy to score (except for one guy who wanted me to pay him \$500 for a badly used 55 - obviously I didn't). Financial calculators have been a whole 'nother story. Just doesn't seem like people hold onto those.

If/when my collection is complete, will I replace with models of better condition? I don't know. I do know that I'll probably never get an HP-70 (a shame because I first considered starting a collection back in the 70s when the 70 and its peers went on closeout) or HP-27. Just too expensive for my blood.

On the other hand, selling on eBay is a point well taken. I came into a busload of 67s a while back...

Re: This pricing's crazy

*Message #4 Posted by [Andreas \(Germany\)](#) on 16 Mar 2001, 7:26 a.m.,
in response to message #1 by D. Banks*

Hi,

imagine: If one of every hp calculator ever made belongs to your collection - the only way you can improve your collection is quality. The price which is paid is not the price for a calculator, its the price for completeness/quality of the collection!

So why sould someone pay \$1000000 for a picture made by Van Gogh? Is this real ?

Andreas

Re: This pricing's crazy

Message #5 Posted by [Ion Abraham \(New Mexico\)](#) on 16 Mar 2001, 9:05 a.m.,
in response to message #1 by D. Banks

I, for one, have a rule for myself that I only buy broken things on eBay, or things that the seller is not specifying sufficiently to attract the attention of the really "crazy" folks. I have been able to get a few things for fairly low prices that way.

Ion Abraham Albuquerque, New Mexico

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Re: HP-35 Back Labels

Message #1 Posted by [Erik Wahlin](#) on 15 Mar 2001, 9:19 a.m.

One thing I have seen is early type 2 units (nipple on the 5 key) with the later sticker and without bug ROM. When HP replaced the bugged rom or repaired HP-35's they received the later type labels.

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zeprom

Message #1 Posted by [Poul](#) on 14 Mar 2001, 3:15 p.m.

Does anyone know where to get Zeprom's (eproms) - they were made by Zengrange.

Re: zeprom

Message #2 Posted by [Grant Goodes](#) on 15 Mar 2001, 9:30 a.m.,
in response to message #1 by Poul

No, they're pretty scarce. I purchased a fantastic combination Zeprom-programmer/Psuedo-ROM box last year, but alas the Zeprom that came with it was dead, and I haven't been able to locate one since. They're out there, but either in the hands of collectors, or else sitting in the drawer of owners who don't know that they're anything special.

I have a standing offer to pay a very generous price for a working Zeprom, or trade for one of my more desireable HP-41 items (such as a Diagnostic ROM). Any takers?

grant..

Re: zeprom

Message #3 Posted by [Tom \(UK\)](#) on 15 Mar 2001, 12:57 p.m.,
in response to message #1 by Poul

What is so special about a ZEPROM? Have they been coded with unique programs or have they got a special programming method?

What is stopping you using a standard(ish) EPROM?

Sorry but I've never heard of zeproms, I assume it is a trading name.

Re: zeprom

Message #4 Posted by [Grant Goodes](#) on 16 Mar 2001, 10:36 a.m.,
in response to message #3 by Tom (UK)

Simply put, a Zeprom is an EPROM in an HP-41 module case that to the HP-41 looks exactly like a 16K module (two bank-switched 8k modules), but can be erased as a normal EPROM (little glass window in the module) and programmed using the Zengrange voltage-convertor attachment directly in the HP-41 (or using the Zeprom programmer I have). It was made by Zengrange, so yes, Zeprom is a trade-name.

It is not trivial to interface a standard EPROM to the HP-41's weirdo 56-bit serial bus, so there's a fair amount of drive-electronics in a Zeprom in addition to the EPROM. They are ideal if you want to try out machine-language programming for the HP-41 and actually want to use the programs in the field where a psuedo-ROM box might not be so convenient.

grant..

Re: zeprom

Message #5 Posted by [Raymond Hellstern](#) on 16 Mar 2001, 7:05 p.m.,
in response to message #4 by Grant Goodes

Hello Grant,

do you have the heavy Zeprom burner with eight slots and LCD? (Weight is some pounds;-)

I have one of these, but no manual/specs or remote software.

Raymond

Re: zeprom

Message #6 Posted by [Grant Goodes](#) on 19 Mar 2001, 10:56 a.m.,
in response to message #5 by Raymond Hellstern

My Zeprom Programmer was made by Firmware Corp., and has two programming slots. No display (some LEDs). It's about the size of an HP-41 manual, and pretty light. Is the one you're talking about from Zengrange?

grant..

Re: zeprom

*Message #7 Posted by [Georg Lahm](#) on 19 Mar 2001, 7:09 a.m.,
in response to message #4 by Grant Goodes*

Hi Grant,

do You know any source where to buy zeproms

thanks

Georg

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nsim desktop icon

Message #1 Posted by [CJ](#) on 14 Mar 2001, 8:38 a.m.

Hello everyone,

I have made a desktop icon for nsim emulator. Of course it could be used in other OS's. It was originally an *.xpm I made it a gif so it would display properly here. You might have to convert it to a different format. It fits the standard 64x64 icon size used in GNOME on Linux.

Right click the icon and select save image as.



I couldn't find an icon for the 41 that's why I made this one. The closest I could find was one of the 1xC series. I tried to make the goose as best I could but it is a little hard with only a couple pixels to work with. If you feel like improving it please feel free. Because that's what the icon is free. Do what you like with it.

Enjoy, Chris

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Shift Keys and Calculators

Message #1 Posted by [Ernie Malaga](#) on 13 Mar 2001, 12:57 a.m.

ON SHIFT KEYS AND CALCULATORS

Ever since HP came up with the HP-80, HP calculators have usually sported shift keys of different colors. Going through my collection of pictures for true calculators only (i.e., eliminating things like the HP-75, -01, -9805, etc.), I have concluded that HP must have a predilection for the gold shift keys -- and the blue shift keys in second place.

Here's my compilation.

Black: 3 counted (27, 34C, 67).

Blue: 22 counted (11C, 12C, 15C, 16C, 19C, 20S, 21, 21S, 22S, 25, 27S, 29C, 32E, 33C, 34C, 38C, 48SX, 55, 65, 67, 92, 95C).

Dark blue: 1 counted (49G).

Dark red: 1 counted (28C).

Gold: 36 counted (10, 10C, 11C, 12C, 14B, 15C, 16C, 17B, 18C, 19C, 20S, 21S, 22, 25, 27, 29C, 31E, 32E, 32S, 33C, 34C, 37E, 38C, 41C, 42S, 45, 48SX, 55, 65 (two of them!), 67, 80, 91, 92, 95C, 97).

Green: 1 counted (81).

Purple: 1 counted (48GX).

Red: 2 counted (46, 49G).

Teal: 1 counted (48GX).

In preparing the above list, I have not included "variations" of each machine. For instance, I have counted the HP-25 but not the 25C. Similarly, there's mention to the 41C but not to the 41CV or 41CX.

Also, sometimes the hue varies. For example, although the 32S is included among those having a gold shift key, the key is practically orange.

Trivia:

* The HP-27 is the only calculator in which the [g] shift key is black. * The HP-65 is the only calculator having two gold shift keys. * Only two calculators have had 3 shift keys: HP-34C and HP-67. * Only two calculators had no shift keys: HP-35 and HP-70. Coincidence that $35 * 2 = 70$? * The HP-70 is the only calculator ever to have (ugh) orange keys.

Question: What made HP decide on gold and blue? My feeling (purely conjecture) is that most color-blind people can tell them apart; if they were red and green, they'd look the same to them.

Re: Shift Keys and Calculators

*Message #2 Posted by [Paul Brogger](#) on 13 Mar 2001, 2:32 p.m.,
in response to message #1 by Ernie Malaga*

I was struck by the way you've labeled the "trivia" section, so as to clearly segregate the relatively lower "significance" of the information presented there, as opposed to that in the body of your post. ;-)

(The folks contributing to this site never cease to amaze!)

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PPC Technical Notes

Message #1 Posted by [thib](#) on 12 Mar 2001, 1:22 p.m.

Hello,

I've read that there was a big chapter on microcode programming the HP41 in one issue of the Australian journal PPC Technical Notes. Does anyone know where I could get this issue? For instance, there are not in the great HP41.org site! Thanks in advance, thib.

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Two HP 41's

Message #1 Posted by [Robert Johnson](#) on 12 Mar 2001, 10:46 a.m.

In my possession, two 41 series calcs, both broke. The cx (halfnut) won't come on at all; the cv (fullnut) has inop USER key. Can anybody out there make one good calc from these two? Thanks

RJ

Re: Two HP 41's

Message #2 Posted by [John Robinson](#) on 12 Mar 2001, 7:45 p.m.,
in response to message #1 by Robert Johnson

I can, mail me.

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See, now this is why I shouldn't do hardware

Message #1 Posted by [D. Banks](#) on 12 Mar 2001, 10:06 a.m.

Recently rebuilt a 3x series battery pack. Radio Shack sure does make this easy: I got a gang of 5 AA NiCds and clipped two off - already soldered together in series and everything.

Tried the battery pack in a bunch of the collection. Why is it that any battery pack fits so tightly in the 3x series? Always seems like it takes a lot of coaxing to get the thing out.

When removing the pack from a 38E, one of the battery contacts came out with it. Tried soldering it back in place and trying again. This time the other contact came out. Never did see the calc power up.

I fear I've broken a 38E.

Suggestions?

Re: See, now this is why I shouldn't do hardware

Message #2 Posted by [Jerry Doctor](#) on 12 Mar 2001, 2:26 p.m.,
in response to message #1 by D. Banks

A very LONG time ago when my daily calculator was an HP-32, I broke off one of the contacts. A small piece of aluminum foil folded into a short strip and wedged between the battery and the remains of the contact solved the problem. Bit of a kludge but it did the job!

Re: See, now this is why I shouldn't do hardware

Message #3 Posted by [Andre' Wilhelmus](#) on 13 Mar 2001, 4:10 a.m.,
in response to message #2 by Jerry Doctor

My HP-37 broke off both contacts. To see it work, I put two long screws with a nut in the compartment between the remaining battery contacts and the wall on the opposite site. Then I took two wires with two clips each and clipped those on the screws and a separate battery holder. The clips have plastic around them to reduce the risk of shorting the batteries.

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HP 2225B

Message #1 Posted by [RK](#) on 10 Mar 2001, 5:03 p.m.

Need battery config. for 2225B

Re: HP 2225B

Message #2 Posted by [Steve \(Australia\)](#) on 10 Mar 2001, 5:08 p.m.,
in response to message #1 by RK

The battery for a 2225 consists of 6 sub-C nicads.

It is charged by the ubiquitous 82058 charger (If you're in the US)

Re: HP 2225B

Message #3 Posted by [RK](#) on 11 Mar 2001, 11:30 p.m.,
in response to message #2 by Steve (Australia)

Thanks Steve but I need to know how the nicads are position within the pack. Are they in series ????

Re: HP 2225B

Message #4 Posted by [Steve \(Australia\)](#) on 12 Mar 2001, 6:11 a.m.,
in response to message #3 by RK

Yes, they are in series.

Note that there's also a fuse connected between two of the cells (It doesn't matter which).

The battery is connected directly to the "pads" on the pack. The +ve lead goes to the one closest to the edge (and furthest from the PCB).

I have one open on my desk that is due to be rebuilt as soon as I have a spare moment,

so if you have any further questions -- please ask.

Re: HP 2225B

*Message #5 Posted by [RK](#) on 12 Mar 2001, 10:49 p.m.,
in response to message #4 by Steve (Australia)*

Thanks again Steve. I don't recall the fuse type , off hand but if I recall it was a hp special item! I've run the 2225B off a radio shack charger for a number of years, since the printer was never that portable.Thanks again

Re: HP 2225B

*Message #6 Posted by [Steve \(Australia\)](#) on 13 Mar 2001, 6:56 a.m.,
in response to message #5 by RK*

Nah! The fuse is just the same sort of fuse that you find in many devices with nicad or NiMH batteries. It's there to minimise any hazard from shoring out the pack.

I actually blew mine :- (but I can get them from the same place that makes up battery packs for me.

I don't know the rating, but I'd assume 5A would be safe.

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HP-65 rubber wheel replacement problems

Message #1 Posted by [Rafa](#) on 10 Mar 2001, 12:09 p.m.

Hello!

I bought an HP-65 some time ago. It had still the original drive wheel rubber attached and looked to be in good condition so I didn't replace it at first, but unfortunately it has died after two months of not several use! I searched for the silicone tubing and repaired the card reader and it works but the problem is that the card speed is not constant -it increases and decreases. By looking closely at the silicone rubber tubing I've discovered that the inner hole is not exactly centred so that the rubber radius is larger in some parts and shorter in others. Has someone faced this problem before?

Rafa

Re: HP-65 rubber wheel replacement problems

Message #2 Posted by [Erik Wahlin](#) on 10 Mar 2001, 4:51 p.m.,
in response to message #1 by Rafa

Hi Rafa, I have experienced this problem with different type tubes. If you like, I will mail you a small piece of silicon rubber hose in the mail that is pretty concentric. Erik

Re: HP-65 rubber wheel replacement problems

Message #3 Posted by [Rafa](#) on 11 Mar 2001, 4:03 a.m.,
in response to message #2 by Erik Wahlin

Hi Erik,

This would be great!

Thanks, Rafa

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Dust in LCD displays(11c,41 and 71)

Message #1 Posted by [CJ](#) on 10 Mar 2001, 9:42 a.m.

Hello all,

Does anybody know how to get the dust out of the inside of the LCD's on these calcs.

I have compressed air(for computer equipment). Is there a spot or opening I could shoot the air into to get the dust out. Will it damage the display if I do this?

Or am I looking at a few hours and taking these things apart? I really don't want to open the 11c. It's mint including the feet. I don't want to mess them up.

I know these displays need some breathing room for the temp changes. But all the HP LCD calcs seem to have dust on the inside of the displays.

HP should have made it harder for the dust to migrate inside the display like that.

Thanks for reading, Christopher

Dust in LCD displays

Message #2 Posted by [Andreas Stockburger \(germany\)](#) on 12 Mar 2001, 6:54 a.m.,
in response to message #1 by CJ

Hi,

there are also problems with the older pioneer-series. One of my 32s is filled with dust - I cannot see a chance to remove it.

Same problem with 1xc-series !!!

Any ideas ?

Andreas

Re: Dust in LCD displays

*Message #3 Posted by [Stefan Vorkoetter](#) on 12 Mar 2001, 11:47 a.m.,
in response to message #2 by Andreas Stockburger (germany)*

When my 42S got dust on the display, I found that I could get it out by slightly prying the case apart along the seam, next to the LCD, and blowing compressed air into it. By "slightly", I mean just enough to make the seam no longer almost airtight. Not far enough that you could actually see inside, or hear plastic cracking. :-)

Stefan

Re: Dust in LCD displays(11c,41 and 71)

*Message #4 Posted by [Erik Wahlin](#) on 12 Mar 2001, 10:55 a.m.,
in response to message #1 by CJ*

With the HP-41, if you open it up, you can blow compressed air at one side of the display to move dust away from the main LCD area, but the best way is to remove the display and clean.

Re: Dust in LCD displays(11c,41 and 71)

*Message #5 Posted by [CJ](#) on 14 Mar 2001, 9:05 a.m.,
in response to message #4 by Erik Wahlin*

My units are not that bad. I guess I'm a little bit of a perfectionist when it comes to my HP equipment. One of my 41's has a chunk of something right over one of the display segments. It's annoying but I guess I'll have to live with it. I really don't want to take them apart.

I was hoping maybe I could put the compressed air nozzle in the card reader clip holes on the 41 and clean it out that way. Maybe I'll give it a try anyway and see what happens.

Thanks for the suggestions,

Chris

Re: Dust in LCD displays(11c,41 and 71)

Message #6 Posted by [Frank Knight](#) on 14 Mar 2001, 3:46 p.m.,
in response to message #5 by CJ

Be sure you use an oilfree compressor (teflon ring type) preferably with a moisture trapper or filter, or a really good filter on an oil lube compressor. Other than that it's worth a try, though high pressure could blow something eles loose, use the regulator and start with lower pressure.

Re: Dust in LCD displays(11c,41 and 71)

Message #7 Posted by [CJ](#) on 5 Apr 2001, 7:54 a.m.,
in response to message #6 by Frank Knight

<Be sure you use an oilfree compressor (teflon ring type) preferably with a moisture trapper or filter, or a really good filter on an oil lube compressor.>

I am using canned compressed computer air.

BELKIN "The Blaster"

I was able to clean out my CX by spraying it into the port openings. I tried the card reader attachment holes but that didn't work.

On my '80 41C I couldn't get all the dust out. Some of it is stuck to the inside of the glass. I guess I will have to open it up to clean it out.

One note if you use this type of method be careful not to tip the can when spraying. Keep it vertical at ALL times. You can forget when your trying to get the nozzle inside the ports and tip the can. The result could be a nice frosty display.

Chris

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A Dead 32SII?

Message #1 Posted by [Peter](#) on 9 Mar 2001, 11:23 p.m.

A guy stopped in the electronics store where I work today, since his 32SII wasn't working. Convinced it wasn't a problem with the batteries, he conceded the fact that it was "dead" and bought a new one, giving me the old one. Question is, can I make it live again? I really don't have much to say about it other than it won't turn on, the batteries are fine, and it looks in good exterior shape. Any suggestions on where to start?

Re: A Dead 32SII?

Message #2 Posted by [Bert K. \(Netherlands\)](#) on 10 Mar 2001, 4:26 a.m.,
in response to message #1 by Peter

try shorting the battery contacts with a coin. My 32Sii fell out of my shirt pocket and this was the only way I could get it to work again.

Re: A Dead 32SII?

Message #3 Posted by [Peter](#) on 10 Mar 2001, 12:57 p.m.,
in response to message #2 by Bert K. (Netherlands)

That seemed to do it. Thank you very much.

Re: A Dead 32SII?

Message #4 Posted by [Bert K](#) on 11 Mar 2001, 5:55 p.m.,
in response to message #3 by Peter

You got yourself a free 32SII. Glad to be of help.

Bert

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Just an idea

Message #1 Posted by [Rupert \(European Union\)](#) on 9 Mar 2001, 5:03 p.m.

I have resumed an old glorifful redled calc that I owned many years ago. Since the akku-pack is no longer working, but it is needed in order to use the calc with its charger/adapter, I'm thinking to try connecting a variable resistor to the battery terminals, in order to emulate the load of a working akku-pack. I hope this doesn't sound too ridiculous... Has someone ever tried something like that ?

--Rupert

Re: Just an idea

Message #2 Posted by [Mark Sims](#) on 9 Mar 2001, 5:30 p.m.,
in response to message #1 by Rupert (European Union)

Most of the HP calculators use the battery pack as a (rather poor) filter capacitor for the raw output of the AC adapter. Without the pack you have a large amount of rather high voltage ripple on the internals of the calculator.

A resistor alone will not help. I have used an elecrolytic filiter capacitor paralleled with a resistor as a substitute for the battery pack. Since the capacitor is a much better filter than the battery pack, the voltage can rise more than I feel comfortable with if you don't parallel the cap with a resistor. If memory serves I used a 500-1000uF 20 volt capacitor and paralleled it with a 220-470 ohm resistor. They were chosen because they happened to be within arms reach at the time. Experiment at your own risk though...

Re: Just an idea

Message #3 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 9 Mar 2001, 9:25 p.m.,
in response to message #2 by Mark Sims

DON'T DO IT !!!!

The batteries act not only as a filter (a capacitor will do as a mere filter). but as a VOLTAGE REGULATOR. A capacitor will not average voltage, it will keep the voltage at the maximum value (more or less). A battery will LIMIT the maximum voltage applied.

Suggestions:

- a) Rebuild the battery pack and verify clean contacts (much recommended).
- b) If you don't want to rebuild the battery pack, a good option AT YOUR OWN RISK is to use standard alkaline AA batteries for a while. Voltage is greater than NiCads, but in most cases seems to be within tolerance. I CANNOT ASSURE THIS FOR ALL MODELS.

NEVER USE THE AC ADAPTER WITHOUT A RECHARGEABLE, WORKING BATTERY PACK.

NEVER USE THE AC ADAPTER WITH ALKALINE BATTERIES.

Re: Just an idea

Message #4 Posted by [Hans Brueggemann](#) on 10 Mar 2001, 4:47 a.m.,
in response to message #3 by Andrés C. Rodríguez (Argentina)

i agree with andres. if you just take an electrolytic capacitor *alone* to do the job, this can be hazardous to the electronics. however, if you put a proper zener diode in parallel with the cap, there should be nothing wrong with taking it as a accumulator replacment. what is a proper zener diode? 1) the voltage rating of the diode should match the accu voltage: if the accu was rated 4.8 volts, then take a zener diode of 5.1 volts. (this 'odd' value is most likely in stock of any electronics vendor) 2) the power rating of the diode must be high enough, so that the diode is able to absorb the incoming charger energy without damage. example: if your charger can deliver 8 volts with a power of 3VA, then it can deliver (roughly) a current of $3VA/8V = 0.375A$. the power rating of the diode should then be at least $5.1V * 0.375A = 2Watts$. (some of you may state, that the current of the transformer is rms, and that the current through the diode has a form factor, and that there must be a current limiting resistor etc, etc...: let's keep it simple!) 3) when paralleling diode and capacitor, check proper polarity: the *cathode* of the zener goes to the *plus*- pole of the capacitor.

happy soldering

Re: Just an idea

*Message #5 Posted by [Steve \(Australia\)](#) on 10 Mar 2001, 7:51 a.m.,
in response to message #4 by Hans Brueggemann*

For the 2 cell devices, a 2.5V to 3V zener is appropriate.

But remember the cautions -- overvoltage WILL kill calculators. And the charger is a nice convenient source of over voltage.

Re: Just an idea

*Message #6 Posted by [Rupert \(European Union\)](#) on 12 Mar 2001, 5:12 p.m.,
in response to message #5 by Steve (Australia)*

Well, thanks to all for the replies.

Re: Just an idea

*Message #7 Posted by [Mark Sims](#) on 13 Mar 2001, 5:36 p.m.,
in response to message #5 by Steve (Australia)*

If you are going to use a zener diode, you really do want a current limiting resistor in there. I would start with a 22 - 47 ohm resistor in series with the output of the wall wart connected to the cathode of the zener.

Re: Just an idea

*Message #8 Posted by [Steve \(Australia\)](#) on 13 Mar 2001, 5:51 p.m.,
in response to message #7 by Mark Sims*

The internal current limiting resistor used for charging the nicads should be sufficient I believe.

Re: Just an idea

*Message #9 Posted by [Rupert \(European Union\)](#) on 14 Mar 2001, 4:10 p.m.,
in response to message #7 by Mark Sims*

> If you are going to use a zener diode, you really do >want a current limiting resistor in there.

At present, I've just got rid of the old rechargeable batteries and put three alkaline batteries in their place. It is just a temporary solution, but allowed me to power-on the calc and to play a bit with it. Maybe I should confess :) that I'm talking about a..... Texas Instruments TI-59. I asked here because I'm mostly an HP addict. In any case I think the 59 should be interesting for any classic calculators nut. :)

--Rupert.

Re: Just an idea

*Message #10 Posted by [Mark Sims](#) on 14 Mar 2001, 5:18 p.m.,
in response to message #9 by Rupert (European Union)*

Wear rubber gloves when you touch that '59, lest you get TI cooties... I know one of the guys who designed it.

Re: Just an idea

*Message #11 Posted by [db \(martinez, california\)](#) on 14 Mar 2001, 10:20 p.m.,
in response to message #9 by Rupert (European Union)*

if the gaping rends and gaps in my grey mater haven't done a complete memory lost on me the 59 was the one with the optional printer and a port for one rom, wasn't it??? yes; it was interesting. kind of a second string 41 for the algebreic entry crowd and as i remember the surveying chip would actually save about 20 (!) or so coordinate pairs. knew a man in reno who swore by his. or at it. i can't remember which. glad you are able to keep yours going.

Re: Just an idea

*Message #12 Posted by [D. Banks](#) on 15 Mar 2001, 9:09 a.m.,
in response to message #9 by Rupert (European Union)*

I can't imagine how a TI anything could be interesting to an HP user.

After all, I hear they intermittently let the door close.

Re: Just an idea

*Message #13 Posted by [Frank knight](#) on 15 Mar 2001, 10:16 a.m.,
in response to message #12 by D. Banks*

The real question now may be which one will drop the calculator market first, TI or HP and when in the next 5-10 years? Has anyone seen any financials for these segments?

Re: Just an idea

*Message #14 Posted by [db \(martinez, california\)](#) on 15 Mar 2001, 3:12 p.m.,
in response to message #13 by Frank knight*

the point is that even though the ti calculator wouldn't make an effective doorstop; the programing in the ti survey rom was well more real-world-useful in at least the most important routine. btw - i held that tds data colector/field computer in my hands and while it is not a calculator, i can swear that someone somewhere still knows how to build a keyboard. it felt sweet like a new 41.

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HP 85 data cassette

Message #1 Posted by [Rich](#) on 9 Mar 2001, 4:25 p.m.

Hi, Anyone know where these can be purchased?

Re: HP 85 data cassette

Message #2 Posted by [SCOTT](#) on 23 Mar 2001, 8:53 a.m.,
in response to message #1 by Rich

I HAVE A COUPLE LAYING AROUND. SEND ME A SELF ADDRESSED AND I'LL
MAIL THEM TO YOU. SCW

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Memory Lost in HP-41CV

Message #1 Posted by [Elias Lopez-Cruz](#) on 9 Mar 2001, 1:53 p.m.

Hello everybody!

I bought a month ago an HP-41CV on an "as-is" basis, at home I put the 6 volts necessary to bring back to life the calculator. I only heard a short beep and immediately appeared a MEMORY LOST message in the display. I tried the ON key in order to turn off the calculator and start again to no avail. I followed the instructions for a MEMORY LOST message as it is written in the instruction manual. It obeyed the procedure, afterwards there was no response to the ON key or any other at all. Does somebody have any idea to solve the problem. I greatly appreciate the help and your time.

Re: Memory Lost in HP-41CV

Message #2 Posted by [Steve \(Australia\)](#) on 10 Mar 2001, 4:33 a.m.,
in response to message #1 by [Elias Lopez-Cruz](#)

What sort of 6V?

Was it from a battery, or a plug-pack, or a regulated power supply, or something else?

Leaving it unpowered for a week or so should allow time for the capacitor inside to discharge... if that's all it is.

Re: Memory Lost in HP-41CV

Message #3 Posted by [Eliás López-Cruz](#) on 12 Mar 2001, 11:34 a.m.,
in response to message #2 by [Steve \(Australia\)](#)

It was a battery set (4 batteries of 1.5 V. I left more than a week the calculator with no power and tried again to no avail. Could it be something else? Thanks.

Re: Memory Lost in HP-41CV

Message #4 Posted by [Steve \(Australia\)](#) on 12 Mar 2001, 5:03 p.m.,
in response to message #3 by Elías López-Cruz

You could try getting a piece of foil and placing it across the battery terminals for a while (without batteries!) and try again.

I believe some HP41s could last in excess of a week without batteries and still retain enough power to preserve the memory.

A while back I posted a list of 10 things you could try to do to recover a crashed calculator. I don't have time to repost them, but you might want to search for this posting and try those out.

As a last resort, take the batteries out, put the calculator in a drawer, and try again in June.

I have found that some HP-41s do sort of lock up when power is first applied after a prolonged period without batteries. The trick of removing and reinserting batteries, or the power on reset has always worked for me.

Re: Memory Lost in HP-41CV

Message #5 Posted by [Elías López-Cruz](#) on 13 Mar 2001, 10:29 a.m.,
in response to message #4 by Steve (Australia)

Thanks Steve!

I will try every trick in the book. I'll keep you informed.

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Re: Old Classic battery packs

Message #1 Posted by [D. Banks](#) on 9 Mar 2001, 9:52 a.m.

My foggy memory says that the really early packs had brown paper skins, or at least that's what I remember.

Then again, I know enough about memory to know that memory is incredibly unreliable, or at least that's what I recall...

Re: Old Classic battery packs

Message #2 Posted by [M Currie](#) on 10 Mar 2001, 1:15 a.m.,
in response to message #1 by D. Banks

Yes, the original batteries in my HP35 had the brown paper skins.

Re: Old Classic battery packs

Message #3 Posted by [Steve \(Australia\)](#) on 10 Mar 2001, 5:13 p.m.,
in response to message #1 by D. Banks

Actually, even the early 82033A's had a sleeve around the cells. In my case the colour was best describes as mauvish brown -- perhaps magentaish.

Re: Old Classic battery packs

Message #4 Posted by [Tom \(UK\)](#) on 12 Mar 2001, 7:15 a.m.,
in response to message #1 by D. Banks

The 82001A pack I rebuilt had brown paper around the 3 AA NiCads (450mAh capacity). This was from a 1977 HP67. The only other thing on the battery pack is '1819' heat stamped - is this a sort of date code? (I'd guess it does not mean the year 1819!)

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HP-65 Synthetic Programming??

Message #1 Posted by [Ernie Malaga](#) on 8 Mar 2001, 11:53 p.m.

Hello, all:

I received my set of MoHPC CDs a couple of days ago, and am having fun reading the manuals for old calculators I never had.

Just browsing the HP-65 manual, for example, I came across something really weird on page 27: The sequence of keys [STO][.] and [RCL][.]. Here's what the manual says:

"Clearing Unwanted Prefix

"[f][PREFIX] cancels the effect of a prefix so that a non-prefix operation can be done.

{yadda, yadda, yadda}

"The above procedure can also be used to clear these additional keys: [STO], [RCL], [DSP], [GTO], [LBL], [STO][.], [RCL][.]."

I'm sure this must be a typo. I've never heard of this key sequence anywhere (except on the HP-41; was the writer of the HP-65 manual having a premonition of things to come?). Just the same, I'd like to have confirmation from any of you HP-65 owners out there. The manual doesn't mention either of these key sequences ever again, nor is it in the index.

Any idea what the manual *should* read instead? The paragraph I snipped already mentions [f], [f-1] and [g], so it can't be that.

X<>Y, Ernie Malaga

Re: HP-65 strange STO & RCL suffixes

Message #2 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 9 Mar 2001, 11:13 a.m.,
in response to message #1 by Ernie Malaga

Just a guess: May it have to do with storage and recall arithmetic? I mean STO+, STO-, STO*, STO/ and RCL+, RCL-, RCL*, RCL/. If so, the "dot" should be replaced by "any arithmetic operator".

As I don't have a HP65, I only can imagine this, without any support.

Re: HP-65 Synthetic Programming??

Message #3 Posted by [Matthew Riehl \(U.S.A.\)](#) on 11 Mar 2001, 6:35 p.m.,
in response to message #1 by Ernie Malaga

Looking at my manual on page 27, it says:

1. Press STO.
2. Press a number key 1 through 9 to specify in which of the nine . . . to be stored.

and:

1. Press RCL.
2. Press a number key 1 through 9 to specify in which of the nine . . . to be recalled from.

The "dot" after STO and RCL simply is a period representing the end of the sentence. If they had meant it to be a key stroke it would have used their standard format of having the appropriately colored little box around it.

As far as clearing the STO, RCL, GTO, LBL, and DSP prefixes, Warren is correct. It just terminates the above initiated sequences with the sole effect being that the number is terminated (it reformats the number to your set format, i.e. 0.00) and enables the stack lift.

Matt

Re: HP-65 Synthetic Programming??

*Message #4 Posted by [Dean](#) on 20 Apr 2001, 10:26 p.m.,
in response to message #3 by Matthew Riehl (U.S.A.)*

There were a lot of undocumented logic functions in the 65.

The PPC club published them there is even 3 way conditional jumps.

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HP 87 Serial Number 9999A00287

Message #1 Posted by [Dan](#) on 8 Mar 2001, 9:37 p.m.

Does anyone know if a serial number 9999A00287 would indicate that the model was a prototype?

The unit also has what appears to be a Corvallis Division HP asset tag.

Thanks.

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HP 41 FORTH ROM Module info request

Message #1 Posted by [Dale Richmond](#) on 7 Mar 2001, 9:28 a.m.

I am looking for any documentation regarding the HP41 FORTH ROM module. If anyone knows where I may find a command summary I would appreciate it. Thank you Dale Richmond

Re: HP 41 FORTH ROM Module info request

Message #2 Posted by [Reinhard Hawel](#) on 7 Mar 2001, 5:44 p.m.,
in response to message #1 by Dale Richmond

I assume, you mean the HP71B module with the HP41 emulator, do you ?

In this case, I think, I can help you.

Re: HP 41 FORTH ROM Module info request

Message #3 Posted by [Dale Richmond](#) on 8 Mar 2001, 7:20 a.m.,
in response to message #1 by Dale Richmond

I am refering to the Forth software that Hrast Programmer has in one of his HP-41 emulators for the HP-48/49 calculators. <http://www.geocities.com/hrastprogrammer/> HP-41CV Emulator with Forth, XF/XM and 2 additional XM Modules (HP41FE49.ZIP) . Does anyone have any ideas?
Thank you, Dale Richmond

Re: HP 41 FORTH ROM Module info request

Message #4 Posted by [Steve \(Australia\)](#) on 8 Mar 2001, 8:15 a.m.,
in response to message #3 by Dale Richmond

I seem to remember in the dim dark past that there was a Forth module for the HP41.

I've always thought Forth was rather cool, and though I've never been able to sit down and learn it, (I don't know why) that is one thing I plan to do before I die.

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Old Classic battery packs

Message #1 Posted by [John Robinson](#) on 7 Mar 2001, 7:06 a.m.

I have rebuilt several classic battery packs, but for some reasons I have never thrown away the old cells. Are they of any use to anyone ?, perhaps as a collectible item or not ? I heard somewhere about someone recycling the old "tubes". I presume this refers to the paper covered cells ?? I just hating throwing stuff out, but if someone tells me these old cells are completely useless they'll be in the trash tomorrow.

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Help with the HP28S functions

Message #1 Posted by [Edwin_E](#) on 7 Mar 2001, 3:34 a.m.

Hi there , would anyone be able to tell me if the 28S ever included a function you could use to round off decimal numbers after a certain digit?? OR should i try and program it myself. I'm not really hoping for the 2nd since i lost that one manual that contains most of the info regarding the functions. Any help is welcome

Re: Help with the HP28S functions

Message #2 Posted by [Edwin_E](#) on 7 Mar 2001, 9:30 a.m.,
in response to message #1 by Edwin_E

DOH!! why did i ever forget such a simple thing. Our local HP guru at work just told me how to do the round off thingy.

In case you wish to round off a decimal number all you need to key in is " 2 FIX " and press enter. 2 stands for the amount of digits you wish to keep behind the ,

Have fun

Re: Help with the HP28S functions

Message #3 Posted by [Ernie Malaga](#) on 7 Mar 2001, 11:47 p.m.,
in response to message #1 by Edwin_E

Edwin:

2 FIX rounds to 2 decimal places, yes, but only on the display. Internally, the calculator keeps its entire precision. If you need to round the actual number (not just the display), use RND.

From my 28C manual:

"RND rounds its argument so that the full-precision internal representation of the number is rounded to match the displayed representation, according to the current display mode."

In other words, if you want to round to 2 decimal places, you must use 2 FIX _and_ RND. The former rounds on the display; the latter rounds the internal number to match.

RND accepts only one argument (Level 1): The number to be rounded.

Hope this helps.

-EM

Thanks for the info

*Message #4 Posted by [Edwin_E](#) on 8 Mar 2001, 11:10 a.m.,
in response to message #3 by Ernie Malaga*

Ernie , thanks a lot for the help. I should have a been a bit more careful with the manual (i lost it).

Re: Thanks for the info

*Message #5 Posted by [Ernie Malaga](#) on 8 Mar 2001, 11:58 p.m.,
in response to message #4 by Edwin_E*

Edwin:

You're welcome; glad to help. By the way, the MoHPC makes CDs with all sorts of documents inside. CD #1 contains the owner's manual for many HP calculators, *including the HP-28S*. Each manual is a separate PDF document, so you can read it (in black and white) using Adobe Acrobat Reader, which (if you don't already have) can be downloaded free from the Web.

Just a thought. I got my CDs day before yesterday and have already spent more than the 48 intervening hours reading the manuals. A page turner, let me tell you!

-Ernie

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HP25 opgrade

Message #1 Posted by [Paul Sorensen](#) on 6 Mar 2001, 2:55 p.m.

Can anyone remember how to upgrade a plain HP25 to a functional HP25C ?

I seem to remember that there was done some cutting and placing a resistor and a capacitor somewhere ?

Thanks for any help

Re: HP25 opgrade

Message #2 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 7 Mar 2001, 9:38 a.m.,
in response to message #1 by Paul Sorensen

As far as I know, the upgrade is not trivial. The HP25C has CMOS memory instead of PMOS chips, and has a power "bypass" connection to keep the CMOS chips connected to the battery to keep memory contents while powered down.

Since the "wake" from power down is not exactly the same as a "cold" power on (I mean initialization routines), the firmware in ROM may not be exactly the same (I am just guessing).

Re: HP25 opgrade

Message #3 Posted by [Paul Sorensen \(Denmark\)](#) on 7 Mar 2001, 4:09 p.m.,
in response to message #2 by Andrés C. Rodríguez (Argentina)

Hi Andrés !

You are right, but then again:

The overall power consumption in the HP-25 unit is made by the LCDs. In the old days gays realized this fact and they made some changes in the circuit so they could bypass the on / off switch for power to the microprocessor.

The result was a "functional" HP-25C. From the front panel you can reset and clear program memory, so there is no need for an on / off reset.

The bypass circuitry can be achieved in many ways. I have, some 25 years ago, seen it done in a very smart and simple way - but I can not remember how it was done.

Does anybody know the trick?

After daily use for 26 years as a teacher and technical advisor my HP woodpecker and coconut in a strong part of my life.

Thanks Paul

Re: HP25 "upgrade"

Message #4 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 8 Mar 2001, 7:28 a.m., in response to message #3 by Paul Sorensen (Denmark)

I'm sorry, now I understand what you meant. I suppose you should bypass the normal power switch contacts (so the internal power supply keeps powering the microprocessor, ROM, and RAM) and modify the switch to power off just the display drivers and LEDs; but I have not information about how to achieve this in a practical way. Andrés

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HP-12C Rounding of periods

Message #1 Posted by [Hoang Tran](#) on 4 Mar 2001, 9:37 p.m.

Is there any way I can get the calculator to give me fractions of periods rather than having it round to the next highest period?

Here is an example:

Invest \$1000 at 10% annual interest. How long does it take for the the money to double? The HP will say it takes 8 years, although it really only takes seven years and change. How do I get this value displayed as 7.xxx?

Thanks,

Hoang.

Re: HP-12C Rounding of periods

Message #2 Posted by [Todd Garabedian](#) on 5 Mar 2001, 8:55 p.m.,
in response to message #1 by Hoang Tran

You can change the number of decimal places by pressing "f" followed by a number equivalent to the number of decimal places. For example, pressing f4 gives four places after the decimal.

Pressing "f" followed by "." and then followed by a number gives scientific notation.

Hope that helps.

Todd

Re: HP-12C Rounding of periods

Message #3 Posted by [Les Bell \(Australia\)](#) on 5 Mar 2001, 11:37 p.m.,
in response to message #1 by Hoang Tran

Hoang Tran wrote:

>> Invest \$1000 at 10% annual interest. How long does it take for the the money to double?
The HP will say it takes 8 years, although it really only takes seven years and change. How do I
get this value displayed as 7.xxx? <<

Problem here is your selection of compound interval. Although the interest rate is 10% per annum, it is more usually compounded monthly, i.e. $i = 10\%/12 = 0.83\%$. Now, if you repeat the calculation, you should get a result of 83.52 *months*, or just under 7 years. I would expect the 12C to have shifted functions to allow entry of annual interest rates, but compounded monthly - the various 41C pacs that do TVM all do.

Best,

--- Les [<http://www.lesbell.com.au>]

Won't work. HP12C ALWAYS rounds "n" UP

Message #4 Posted by [Gene Wright](#) on 6 Mar 2001, 10:59 a.m.,
in response to message #3 by Les Bell (Australia)

The HP12C always rounds the value of N up to the next whole integer.

The HP12C owners manual (or application manual) has a program that can be keyed in to provide a more "accurate" answer, but the stock HP12C cannot do this.

Gene

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HP 01

Message #1 Posted by [Steve Parrott](#) on 4 Mar 2001, 5:18 p.m.

I have a HP01 that I bought new in 1978. It is the stainless steel model. I wore it about two years and then put it back in the box. It has been stored that was every since. It is in the original case and box. All parts are with it, pen,band stylus, and instruction book. It just needs new battery's and it is ready to go. I would say it is mint condition. I am intrested in selling it, however, I don't have any idea of it's worth. I want to be fair in the asking price, but, I don't want to get taken advantage of either. Is there someone who would appraise this item for me. I live close to a Hewlet Packard facility, so it would be no problem to take it there for authentication.

Re: HP 01

Message #2 Posted by [Greg Harris \(Sydney Australia\)](#) on 5 Mar 2001, 12:43 a.m.,
in response to message #1 by Steve Parrott

Steve,

Looking at ebay...

<http://cgi.ebay.com/aw-cgi/eBayISAPI.dll?ViewItem&item=561988775> sale price USD 623

<http://cgi.ebay.com/aw-cgi/eBayISAPI.dll?ViewItem&item=1113746801> final price (Reserve not met) USD 900

I do not follow these, so from memory only, I have seen prices higher than that on ebay.

This site <http://www.hpmuseum.org/collect.htm#diff> lists prices up to USD 3044.

But if all else fails, I will give you \$100 for it ;-)

Greg

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hp 41CX battery pack

Message #1 Posted by [roberto](#) on 4 Mar 2001, 5:16 p.m.

Hello,

I have a 41CX with a dead rechargeable battery pack that I am trying to bring back to life. I would like to have some detailed info on how to rebuilt the battery pack (in particular how to crack it open without destroying it!). Btw, if anyone has some battery holder for the 41CX (not necessarily rechargeable) to sell or give away please let me know. Thanks,

Roberto

This one just keeps on coming up :-)

Message #2 Posted by [Steve \(Australia\)](#) on 4 Mar 2001, 7:34 p.m.,
in response to message #1 by roberto

This just came up during the last week or so. Have a look in the full index (as opposed to the Daily View) for some recent answers.

If you have any further questions, post again.

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Cathode Driver Question for Classic Calcs

Message #1 Posted by [Mike](#) on 4 Mar 2001, 5:05 p.m.

I once found an article on the classic displays. I have searched and searched and cannot find the link to that article.

In it, it mentioned the types of driver chips used in the various classic models. I think I have a cathode driver problem in my 65. The 13th digit does not light ('-' sign) and I have eliminated the LED as the source of the problem. I suspect it is the cathode driver (digit drive).

The part is 1820-1226 but I don't have a spare. I have an HP-45 that has an 1820-1061. I'm wondering if that part is interchangeable with the one in the 65. Both are 20 pins and both use the same anode driver 1820-1829.

Can someone point me to the link to the (a) discussion of classic display repair?

Does anyone know if these two parts are interchangeable?

thanks,

Re: Cathode Driver Question for Classic Calcs

Message #2 Posted by [Erik Wahlin](#) on 5 Mar 2001, 1:27 a.m.,
in response to message #1 by Mike

Mike, The article is Alex Knight's article at <http://aknight.home.mindspring.com/clasdisp.htm> I am pretty sure that the chip from the 45 would work in your 65.

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Woodstock Series - Display Brightness Question

Message #1 Posted by [Mike](#) on 4 Mar 2001, 12:55 p.m.

I have a few of the Woodstock series and have one that has a dimmer display. Is this there a simple way to increase the brightness of the display (resistor change or something)? Is this common that some displays are dimmer? My others in this series have brighter displays.

Re: Woodstock Series - Display Brightness Question

Message #2 Posted by [Todd G.](#) on 4 Mar 2001, 9:55 p.m.,

in response to message #1 by Mike

I've noticed this too. I have two HP-21 models. One has a "16" as a starting serial number (1976 model) and the other has 17. The 17 has a dimmer display than the 16 model when using the same battery pack. I don't know what, if anything, is different inside though.

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HP 91 Battery Pack

Message #1 Posted by [Henry Espinoza](#) on 4 Mar 2001, 6:30 a.m.

I need help in order to know what kind of batteries the HP-91 use, Voltage, Amps, etc.

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A brand new 27S, 28S and 17B

Message #1 Posted by [Menno](#) on 3 Mar 2001, 6:29 a.m.

In a small book-shop in Zwolle (NL) I found in a corner this morning a brand new 27S for HFL70 (± \$35), 28S for hfl300 (± \$150) and 17B for hfl200 (± \$100)

I immediately bought the 27S (I'm always fond of the Pioneer-types)

Anybody interested in the address for the address ?

The shop is called Jakma, Assendorperstraat in Zwolle

Have Fun

Menno

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9825a Question - Entering Data

Message #1 Posted by [Mike](#) on 2 Mar 2001, 11:11 p.m.

I'm having problems figuring out how to enter data and edit data, in a program, on the 9825a.

I can enter things like 01: prt A or 02: A*B->C but when I try to enter 03: sin(A) or 03: sin A, I get Error 12 which says that this is only valid from the keyboard (meaning it cannot be used in a program.

How does one enter sin, cos, and other functions in a program?

How does one edit an existing line?

Anyone have a short description of entering, editing, assigning to function keys, etc? Or *.pdf manual for the 9825a.

Re: 9825a Question - Entering Data

Message #2 Posted by [Chan Tran](#) on 6 Mar 2001, 12:14 p.m.,
in response to message #1 by Mike

I think you have to enter as dsp Sin A or prt Sin A to display or print a value.

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After market Books for HP 49g

Message #1 Posted by [Tony](#) on 2 Mar 2001, 4:19 p.m.

I have a new HP 49g and find the reference material to be very limited in examples and applications. I am seeking any after market material. Any suggestions would be greatly appreciated.

Regards,

Tony

Re: After market Books for HP 49g

Message #2 Posted by [S. Martin](#) on 3 Mar 2001, 1:56 p.m.,
in response to message #1 by Tony

A good place for information on the HP49 can be found at www.hpcalc.org.

There are two tutorials on programming the HP49 written by Eduardo Kalinowski that are quite good, one on User RPL and the other on Sys RPL. Check out <http://move.to/hpkb>

Also, there are two books written by Gilberto Urroz for the HP49, they deal mainly with science applications and uses User RPL. I haven't read them but they seem to be getting favorable feedback on the hp48 newsgroup (comp.sys.hp48).

Hope this helps,

Steve

Re: After market Books for HP 49g

*Message #3 Posted by [S. Martin](#) on 3 Mar 2001, 1:59 p.m.,
in response to message #2 by S. Martin*

By the way, you can find the books by Urroz at http://www.greatunpublished.com/Authors/Gilberto_Urroz.htm#science

Steve

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12c vs 1911b

Message #1 Posted by [phil berman](#) on 1 Mar 2001, 9:50 p.m.

I am taking an investment analysis course, real estate, and they recommend the 1911b, I have the 12c. Can they both do the same, except plotting? I don't want to invest another \$200 if unnecessary. Also, can the 12c compute NFV?

Thanks

Phil

Re: 12c vs 1911b

Message #2 Posted by [Andreas Stockburger](#) on 2 Mar 2001, 3:38 a.m.,
in response to message #1 by phil berman

Hi,

"Also, can the 12c compute NFV?"

I could not find anything in the manual about NFV. But remember the 12c is a programable calculatur ... So if you know the algorithm it can ...

Andreas

Re: 12c vs 1911b

Message #3 Posted by [Phil Berman](#) on 2 Mar 2001, 7:48 a.m.,
in response to message #2 by Andreas Stockburger

I know it's not in the manual, that's the problem. HP advertises that it can do that but I don't know how.

Re: 12c vs 19IIb

*Message #4 Posted by [Ron Ross](#) on 2 Mar 2001, 8:54 a.m.,
in response to message #3 by Phil Berman*

1st, HP lied! It doesn't have these functions out of the box. It is easily programmed however by the same methods used by the Hp11 or Hp15 methods but I don't believe it supports branching. That said, I would consider an HP 17BII.

It is the most powerful pocket calc available, is both algebraic or RPN, has all the financial functions of the Hp19, has 7K RAM, infrared printer port, and is \$80-90. You would not believe this by looking at this unassuming calc. All functions are available via softkeys (the keys with the arrows on them).

It is nearly identical to a 19 in functions and use (including hp solve and alpha numeric capabilities), but is more durable.

What it lacks, is the dedicated Alpha keypad, note pad, graphics, and trig functions. The notepad is easily simulated by hp solve. The graphics is all you are really giving up and the easier alpha entry.

Re: 12c vs 19IIb

*Message #5 Posted by [D. Banks](#) on 2 Mar 2001, 11:29 a.m.,
in response to message #4 by Ron Ross*

Really a shame to see the 12C fade away. That series of HPs was one of my favorites: a delightful hershey bar form factor with a pleasing layout and set of functions.

But, if you have to "upgrade," I'll echo the recommendation for the 17BII. Unless you have a compelling need for the 19BII's extra features, the 17 will just be a much more pleasant calculator to use. It's a nice size and shape, and they definitely managed to pack a lot of goodies into it.

And, I don't know if they've fixed this yet, but when the clamshell models first came out 10 years ago, I remember having serious problems with intermittent power loss in all four of the calcs I owned (18C, 19B, 28C, 28S). I kind of liked that series for what it tried to be, but I ultimately found the 17BII's form factor to be much more reliable.

Re: 12c vs 1911b

Message #6 Posted by [Jim L](#) on 2 Mar 2001, 6:43 p.m.,
in response to message #4 by Ron Ross

The 12C DOES have both conditional and unconditional branching.

This brings up something I've never quite understood about the 17Bii. It has a lot of memory but no real programming - correct? What do you do with all that memory? Is it just for large cash flow lists and equations?

Re: 12c vs 1911b

Message #7 Posted by [Ron Ross](#) on 3 Mar 2001, 10:37 a.m.,
in response to message #6 by Jim L

Jim, the HP17 has nearly the identical hp solve as the hp27 & hp19. All of these calcs have an undocumented (not in owners manual) let and get functions that can (sort of) branch as well. While programming complex functions is difficult to impossible, most basic algebraic equations can be just typed in and solved for the unknown variable. I KNOW you are aware of these issues Jim, but I am elaborating these features lest others think the RAM is useless.

The RAM is used to store algebraic equations and notes if you wish. HP solve is then used to solve any equation you have put into memory. These three calcs do not have a great storage file system. The programs or equations are just stacked one on top of another in a long list until you run out of RAM or clear out equations. They do not get menu names that can be called up to run. You just scroll through your long (or short) list until you find the function you have entered and then press solve.

Re: 12c vs 1911b

Message #8 Posted by [Thibaut.be](#) on 5 Mar 2001, 5:38 a.m.,
in response to message #1 by phil berman

The 19BII and the 12C are way 2 different calcs.

I love the 12C, but the 19BII is a wonderful, all-round machine. You can also do some advanced maths with it. Only inconvenient : it's not programmable, though the solver is very helpful and replaces 95% of the programming you'll need.

You can easily find one on ebay, I evn have a 19BII in good condition that I can sell you if you want for 50 bucks.

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Re: Dead pack and NiMH cells

Message #1 Posted by [Mark Sims](#) on 28 Feb 2001, 5:10 p.m.

I've only used the NiMH cells in classic models and HP-25's. If your charge time is specified at eight hours or longer (i.e. trickle charge) you are probably safe with NiMH cells, if it is a quick charge (4 hrs or less) definitely stick with nicads. Dumb charge circuits are generally more compatible with NiMH retrofits than smart circuits.

My '25 generates quite a bit of heat when charging batteries, but this is the internal current limiting resistor. I tested the battery pack away from the calculator by using clip leads and the batteries themselves were not heating up. My HP97 nicads get quite warm when left on the charger but the NiMH cell pack does not.

An interesting side effect of NiMH cells in the HP's is caused by their discharge curve. Nicad voltage falls off quite fast when they are dead, NiMHs fall off much slower. As a result, nicads give about 5-7 minutes of run time once the low battery indicator lights, NiMHs give over 30 minutes.

Re: Dead pack and NiMH cells

Message #2 Posted by [Steve \(Australia\)](#) on 28 Feb 2001, 6:04 p.m.,

in response to message #1 by Mark Sims

```
> I've only used the NiMH cells in classic models and
> HP-25's. If your charge time is specified at eight
> hours or longer (i.e. trickle charge) you are probably
> safe with NiMH cells, if it is a quick charge (4 hrs
> or less) definitely stick with nicads. Dumb charge
> circuits are generally more compatible with NiMH
> retrofits than smart circuits.
```

Beware of what HP say. For example, the HP41 nicad pack specifies 12 to 16 hours for a full charge (suggesting C/10 or thereabouts), however the charge current is 16mA (this is from memory, I gave a more detailed answer when I sat down with the packs in front of me several months ago) for a 55 mAHr battery, which is C/3.5.

Whilst measuring the internal temperature during charge of a pack inside an hp41 tape drive (could have been a printer) I observe a rapid temperature rise after about 6 hours (again from memory -- check my posting).

Both of these suggest a charge rate in excess of C/10.

Oh, and the charger circuit for the 82120A (both of them) have a full wave rectifier, and some filtration. Whilst there is also going to be some variation in voltage during charging, it will be far less than the older diode/resistor combination, and in the case of the newer version, far less.

I also had a concern that I believed that NiMH didn't like to be completely discharged, which is why many devices that use them (e.g. mobile phones) turn themselves off when they detect low battery.

I am also uncertain of the typical failure mode of NiMH if overcharged. I do know that they can get rather hot (even with correct charging).

I'd *love* to use NiMH but I would want to be assured that I'm not going to have my calculator explode in front of me whilst on charge :-)

I have found it quite difficult to get good information on NiMH cells, and without such information I have tended to steer away from them. About the limit of such information appears to be "NiMH require a special charger -- do not use a NiCad charger unless it is designed to charge NiMH". What I want is charts, technical information, information about the charging end point, etc, etc. Why do manufacturers seem to think this is proprietary -- or have I been looking in the wrong place.

Re: Dead pack and NiMH cells

*Message #3 Posted by [Mark Sims](#) on 28 Feb 2001, 10:20 p.m.,
in response to message #1 by Mark Sims*

I know the NiMHs work quite well in the classic models, HP-25's, and HP97's (the sub-C NiMH cells are quite difficult to find). I have a portable frequency counter that uses 4 AA cells. The standard nicads always got VERY warm charging and would last about a year. I've had NiMHs in it for going on three years of continuous charge and they are still going and barely get above room temp.

The criterion I use for determining whether the charger is going to work is how long they charge... overnight is a good thing. Also I see how warm the cells get... a little temp rise is OK. I've never had a failure in these circumstances. I generally try to start charging when the device goes into low battery mode. NiMH cells seem to do this before nicads do and so would not be as

fully discharged as nicads. I have depleted them fully numerous times though with no noticeable effect.

Any rechargeable pack should probably be replaced every three-four years regardless. I've never has a NiMH cell leak yet when following these criterion and have used about 100 cells in the last three years. I've had one cell go bad early. It was in an ICOM R-10 receiver and after two years the radio started going out after two hours instead of eight. I repaced all the cells (best not to mix old and new cells in a pack) and used the three remaining good ones in a GPS network time module where they are still going strong.

The warnings about using nicad chargers applies to those quick charge units. A trickle charge circuit just applies a low current to the cells with no end-of-charge detection, etc. As long as the charge current is less than C/10 things should be OK. I really prefer around C/20 for things that get left on charge all the time. Rates less than C/50 are not recommended because cell to cell variations within a pack can make charging unreliable.

Re: Dead pack and NiMH cells

*Message #4 Posted by [Mark Sims](#) on 1 Mar 2001, 4:50 p.m.,
in response to message #1 by Mark Sims*

Steve, when you measured your charge current was it when the cells were low of fully charged? A simple resistor charger will supply a higher charge current to a discharged cell. The current will drop as the cells charge and their voltage rises.

As an example I have an 8 cell, 2400maH pack that has a discharged voltage of 8 volts and a charged voltage of 11.2 volts. I charge it from a 14 volt source through a 20 ohm resistor. The current starts out at 300 ma (C/8) and drops to a steady state trickle charge of 140mA (C/15). It is the current into a fully charged pack that you want to keep limited to that C/15 - C/20 area if you are going to keep the pack on charge of extended periods.

Re: Dead pack and NiMH cells

*Message #5 Posted by [Steve \(Australia\)](#) on 1 Mar 2001, 11:48 p.m.,
in response to message #4 by Mark Sims*

Steve, when you measured your charge current was it when the cells were low of fully charged? A simple resistor charger will supply a higher charge current to a discharged cell. The current will drop as the cells charge and their voltage rises.

There are two types of 82120A charger.

One uses the rectified nominal 8V RMS to charge the pack, the other uses a 12 volt regulated rail from which to charge.

In the former case a 580 ohm resistor is used from a DC rail that can easily reach 20VDC (Due partially to poor load regulation on small transformers, but also to line voltage variations and other considerations). Assuming the same 6V end point on the nicads, a 0.6v drop across the diode and a more typical 15V rail (under load), the charge current is about 15mA which is C/3.7

In the latter case a 370 ohm resistor is used from the 12v rail. Allowing for a 0.6v drop across a diode, and a "fully charged" voltage across the pack of 4 cells being 6V, this is a shade over 14mA, which is C/3.9.

Both designs have approximately the same charge current, which is far higher than I would expect given HP's suggested 12 to 16 hour charge period.

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Bad key on 41CX

Message #1 Posted by [Ion Abraham \(New Mexico\)](#) on 27 Feb 2001, 8:22 a.m.

Hello all,

I am trying to fix a halfnut 41CX. Among other things, the number 3 key does not work. I realize there may not be a lot I can do about that, but I thought I'd ask, is there anything quick I can try?

The complete disassembly procedure looks quite involved, so I'd like to try anything else first.

Thanks,

Ion Abraham Albuquerque, New Mexico

Re: Bad key on 41CX

Message #2 Posted by [Philip Reagan](#) on 27 Feb 2001, 2:22 p.m.,
in response to message #1 by Ion Abraham (New Mexico)

You can try compressed air on the outside of the keyboard to see if something dislodges. If that doesn't work, you may need to remove the back of the unit and blow compressed air directly on the backside of the keyboard and around the sides.

Re: Bad key on 41CX

Message #3 Posted by [db](#) on 27 Feb 2001, 9:49 p.m.,
in response to message #2 by Philip Reagan

thats a good first try but if that dosn't work try blue shower II (tspray@techspray.com)

Halfnut dissassembly question

*Message #4 Posted by [Ion Abraham \(New Mexico USA\)](#) on 1 Mar 2001, 9:16 p.m.,
in response to message #3 by db*

Hello all,

Well, I tried compressed air and contact cleaner, and that didn't do it. So I would actually like to get at the key.

My question is, how do you lift the main circuit board in order to get at the keys? I think the instructions on this site from Steve Loboyko refer to a Fullnut. My CX Halfnut has one continuous board from the screen to the lowest key. There are four metal tabs at the top and four other tabs that stick through the board. They are bent so as to hold down the board (I think). I straightened those, but still the board does not lift off. Are there other tabs? I am trying to be careful and not force things.

Any advice would be greatly appreciated.

Regards,

Ion Abraham Albuquerque, New Mexico

Re: Halfnut dissassembly question

*Message #5 Posted by [Jerry Ballard](#) on 3 Mar 2001, 11:19 a.m.,
in response to message #4 by Ion Abraham (New Mexico USA)*

I took apart an HP41-CX Halfnut with very bad sticky keys. I found that the board that has the key contact circuit is attached to the top case part by plastic stubs or pins (total of 36) that are molded into the plastic top case. The key contact printed circuit board (PCB) is placed over the keys onto the plastic stubs, then the plastic stubs are melted down to attach the PCB. The four metal tabs at the top only hold the display LCD onto the key contact PCB. I carefully cut the plastic stubs off to remove the key contact PCB. I was able to clean the contacts, but now the plastic stubs are not long enough to reattach the key contact PCB. I found some very small screws but I am not sure they will work.

The moral to this long story is that I would not try to get to the key contacts directly or you will have an HP41 like mine that is a box of parts. Keep trying the compressed air or some recommended contact cleaner.

If you use contact cleaner, you will need to spray a small amount into the

feedthrough holes on the back of the key contact PCB. The center of each key contact has a plated feedthrough hole in the PCB. Then press the key to make some cleaning action. Hope this helps.

Using the compressed air or contact cleaner from the top next to the keys will not help. Between the keys and the key contact PCB is a rubber insulator about 1/16-1/8 inch thick. Also, each key contact has a metal dome over contact area which is attached to the PCB with a large piece of tape.

If anyone else has experience in removing the key contact PCB and reattaching with success please comment.

Re: Halfnut disassembly question

*Message #6 Posted by [Hans Brueggemann](#) on 4 Mar 2001, 5:14 a.m.,
in response to message #5 by Jerry Ballard*

what about this solution to reassembling the keyboard (i have not tried it yet, but i sure will be trying it on my next 41 rescue project): 1)reassemble the keyboard with the calculators top securely fixed on the workbench. 2) make a mounting fixture that applies gentle and evenly distributed pressure onto the keyboard, so that the ends of the mounting stubs are all flush with the surface of the keyboard pcb. all plastic stubs must still be reachable after installing the fixture. clean the stubs with alcohol. 3) this sounds weird, but works fine: burn some styrene sprue of your recently finished model kit and collect the fumes by holding some sheet metal approx. 5 sec. directly over the flame. don't do this in your *own* living room. be very careful...(cough, cough) 3) prepare some 2 component bond. do *not* use the epoxy or cyanacrylate type. try to find a bond (glue) on a methylmethacrylate basis; maybe your dentist can help you in this case. the german brand for this type of glue is 'Stabilit express'. scrape the fume residues from the sheet metal into the freshly mixed glue and stir well. this will give a nearly black appearance of the glue, without affecting the bonding quality. 4) give a drop of the bond on each of the plastic stubs and let the whole thing cure for 2 hours. 5) remove the mounting fixture.

hope, this will be usefull for someone!

just to clarify...

*Message #7 Posted by [Hans Brueggemann](#) on 4 Mar 2001, 9:31 a.m.,
in response to message #6 by Hans Brueggemann*

just to clarify the procedure a bit: when assembling, take the top half of the 41 and secure it onto the workbench *facing downwards*. then re- insert the keyboard- pcb. now, apply slight pressure on the keyboard-*pcb* (and not on the keyboard itself,as described earlier) so that the plastic posts are all at least flush with the pcb.

cheers, hans

Re: Halfnut dissassembly question

*Message #8 Posted by [Mike Sebastian](#) on 4 Mar 2001, 10:52 p.m.,
in response to message #5 by Jerry Ballard*

I have used the clear "five minute" epoxy to repair keyboards on other brands of calculators after cutting off the melted plastic posts originally used to hold the keyboard together. These calculators are part of my collection and used only infrequently. I have also used epoxy to partially reattach the keyboard of a badly abused 12C. I gave this 12C to my brother, who has been using it daily without complaint.

I always use lots of rubber bands to hold the keyboard together while the epoxy cures.

Disclaimer: These are results are based on my own personal experience, your results may vary. :-)

Re: Halfnut dissassembly question

*Message #9 Posted by [Frank Knight](#) on 18 Mar 2001, 8:06 p.m.,
in response to message #8 by Mike Sebastian*

Hey Mike, Was that you that just sniped me on the APF M55 on ebay, or was that another mwsebastian?

Re: Halfnut disassembly question

Message #10 Posted by [Mark Sims](#) on 5 Mar 2001, 6:10 p.m.,
in response to message #5 by Jerry Ballard

I have done several keyboards by shaving off the heat stakes with an Exacto knife with the flat square blade. The adhesive that I use is call IC2000 Tire Cement by Bob Smith Adhesives. It is a cyanoacrylate (superglue) that is black in color. It has some kind of rubbery additive that makes it much less brittle than regular CA glues and is fairly thick and quite strong. It is sold at hobby shops (almost always with a stick on label personalized with the hobby shop's name) for gluing tires onto radio control race cars. Works great when rebuilding battery packs also.

Yet another non-glue solution

Message #11 Posted by [Mike](#) on 6 Mar 2001, 11:40 a.m.,
in response to message #5 by Jerry Ballard

I have not done this with a 41 but have done it with the Woodstock series.

Carefully peel off the melted part of each post. The post still sticks ever so slightly above the board.

After the board is repaired, I use a broad tip soldering iron and very lightly touch to the end of the post. You have to hold the board tightly in place while touching each post. After completed, it looks almost like new.

This still allows one more removal before having to resort to glue, which is permanent.

Re: Bad key on 41CX

Message #12 Posted by [Ty Rogers](#) on 3 Mar 2001, 12:05 p.m.,
in response to message #1 by Ion Abraham (New Mexico)

I also have a keyboard problem. My "enter" key has fallen on one end. It still works but I would like to fix the problem. It seems the spring has gone out. The only way I see to fix it is to remove the key contact board. But as Jerry has pointed out, the plastic post would not be long enough to replace the key contact board. Any ideals would be welcome.

Re: Bad key on 41CX

Message #13 Posted by [Ion Abraham \(New Mexico USA\)](#) on 8 Mar 2001, 8:32 a.m.,
in response to message #1 by Ion Abraham (New Mexico)

Hello all,

I am very grateful for all the responses to this question. It looks like the disassembly procedure is surprisingly non trivial. I would be willing to try it, but first, would someone who has successfully done this before be willing to take on the task (for a fee of course)? I don't really need a guarantee of success, perhaps 50/50 would be OK.

On another tack, are there parts of a Halfnut CX that are useful as spares, besides the obvious detachables (battery terminals, etc.), from such a unit? This thing is pretty messed up. It turns out the R/S key is also bad, it's not very springy even, and the USER key is intermittent. I am thinking it may not be worth fixing.

Any thoughts?

Best regards,

Ion Abraham

Albuquerque, New Mexico

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HP RPN Scientific Emulator

Message #1 Posted by [Marx Pio](#) on 26 Feb 2001, 9:04 p.m.

Does anyone knows if there is an HP-RPN emulator for Casio E-125?

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Fixing a 97's card reader

Message #1 Posted by [D. Banks](#) on 26 Feb 2001, 1:47 p.m.

Well, my 97's card reader bit the dust. I've read the article here about fixing a 67's card reader. Is this guide applicable to the 97 as well?

More importantly, someone want to fix mine for \$\$?

On a related note: My 97 has a missing segment on the 8th digit. Anyone got a spare LED module?

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41 Card Reader O'rings ?

Message #1 Posted by [CJ](#) on 26 Feb 2001, 8:48 a.m.

Hello,

I have a card reader for the 41. Yes the roller is gummy. I read and printed the article that explains how to fix it. Fixing it is no problem for me.

I fly RC heli's and have fuel tubing coming out of my ears, but I would rather use the O'ring method instead.

Question is:

Where do I find these O'rings? Can anybody save me some gas and time looking for these?

Thanks,

Chris

Re: 41 Card Reader O'rings ?

Message #2 Posted by [Ty Rogers](#) on 26 Feb 2001, 5:15 p.m.,
in response to message #1 by CJ

Chris,

Try Western Auto, auto parts stores or hardware stores. Some auto parts stores have a box of small o-rings behind the counter. A good hardware store that always has what you need will probably carry them also. I have found the size "006" to be about the smallest and cost around 20 cents.

Re: 41 Card Reader O'rings ?

Message #3 Posted by [Wayne Brown \(Alabama\)](#) on 27 Feb 2001, 6:52 a.m.,
in response to message #1 by CJ

I found mine at a Lowe's home improvement store.

Re: 41 Card Reader O'rings ?

Message #4 Posted by [CJ](#) on 27 Feb 2001, 8:19 a.m.,
in response to message #3 by Wayne Brown (Alabama)

Thanks Ty and Wayne !

I'll check the auto parts and hardware stores.

I can't think of any lowes near me but there are home depots near me. I'm sure they carry the same items.

Now the operation begins.

Thanks again.

Chris

Re: went with fuel tubing

Message #5 Posted by [CJ](#) on 10 Mar 2001, 10:16 a.m.,
in response to message #4 by CJ

Hello,

I found O'rings at home depot.

Danco #60 1/4 OD 1/8 ID 1/16 W

They seemed a little too hard and they would spin on the shaft.

So I did the fuel tubing method instead. It works perfectly now.

One thing I wanted to mention was that the worm gear was spinning on the motor shaft. I gave the collar a little squeeze and unfortunately the paper or whatever that material is disintegrated. So I rapped double sided tape on the motor shaft then slipped the collar

over the shaft and then stuck the worm gear on the end of that.

I then reassembled the unit and it was making a horrible noise. I took it apart again and isolated the noise problem.

It turns out the fix I did made the worm gear a little longer and were it fits in the plastic on the other end of the worm gear it was making the noise.

I put a VERY SMALL amount of slightly heavy oil on the end of the gear and now the unit is as quite as I remember a new unit being.

If your unit is making noise you might want to try this fix. Use a slightly heavy oil so it doesn't drip inside the unit. And use a VERY SMALL amount of oil. Not much is needed.

Hope this helps somebody, Christopher

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HP-9825a Problem and Request for Info

Message #1 Posted by [Mike](#) on 24 Feb 2001, 1:51 p.m.

I have an HP-9825a that I'd like to get 100%. Right now it's in very nice condition and everything works but, yes you guessed it, the cassette tape has a dissolved drive wheel.

- 1) Is there any good fix for this? Anyone know what the outside diameter of the wheel is? Maybe I could glue some sort of 'O' ring on the shaft. It appears to be about 1/2" but the goop is so bad that it's hard to tell what the diameter was originally.
- 2) What is the correct tape cartridge for the 9825a? The DC 2000 cartridges fit but I'm sure that is not the correct tape for this old machine.
- 3) Are the modules that plug into the back specific ONLY to the 9825a or does it also accept others from other models?

Thanks,

Re: HP-9825a Request for Info Question 2

Message #2 Posted by [Andreas Stockburger \(Germany\)](#) on 25 Feb 2001, 4:32 a.m.,
in response to message #1 by Mike

Hi

Question 2: "What is the correct tape cartridge for the 9825a? The DC 2000 cartridges fit but I'm sure that is not the correct tape for this old machine."

I own a cartridge labeled "HP200 Series Certified Data Cartridge" and "Series 9800" This Cartridge look exactly the same a DC2000 looks like BUT it is only 12mm high (DC2000 14mm)and the Tape is 4mm (DC2000 6mm). I am pretty sure that this is the correct cartridge because it comes with the 9825.

Best regards

Andreas Stockburger

Re: HP-9825a Problem and Request for Info

*Message #3 Posted by [Reinhard Hawel \(Austria\)](#) on 27 Feb 2001, 6:08 a.m.,
in response to message #1 by Mike*

They are DC-100 cartridges, which are available today at at least two internet stores (The PDP-11 used these too, I believe). There was already a thread here, but I can't find it now... I'll look around. Sorry, I've no info about the wheel.

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HP71B AC Adaptor/Charger ?

Message #1 Posted by [CJ](#) on 24 Feb 2001, 1:40 p.m.

Hello everyone,

Does anybody know what model AC Adaptor/Charger the 71B requires. I'm running a continuous program and batteries are going quick !

I have many HP82059B/D AC Adaptors/Chargers. I also have a HP82041A.

I tried the 82059B/D and the AC annunciator did NOT light up and it didn't work. With or without batteries in the machine. I haven't tried the 82041A and am afraid to. Being that it's output is 10V.

Right now the machine is showing BAT and I tried plugging in the 82059B/D no change. No power. No joy.

Does this thing need a special pack to be in place to be able to run on AC?

I would appreciate any help. Thank you,

Chris

Re: HP71B AC Adaptor/Charger ?

Message #2 Posted by [Todd Garabedian](#) on 24 Feb 2001, 6:55 p.m.,
in response to message #1 by CJ

Chris,

Some sales literature I have says the 71B is supposed to take the 82059D model AC adaptor.

I also checked my 71B manual to see what it says about AC usage. Not much help, I'm afraid.

In part, it says that the AC annunciator is "reserved for future use", so I'm not sure if the annunciator is indicative of actual AC power when it is connected.

The manual also says that "When connected to a power outlet, the HP-71 uses the batteries as a backup power supply and normally doesn't draw power from them. You won't damage the HP-71 by using the computer without batteries, but you may lose everything in memory should there be a power outage or an intermittent connection to the voltage source." (p. 271).

The manual further lists "accessories included with the HP-71B" in appendix B, but a charger is not among them. Oddly, the manual never indicates which adaptor to use!

Best of luck, Todd

Re: HP71B AC Adaptor/Charger ?

Message #3 Posted by [Steve \(Australia\)](#) on 24 Feb 2001, 10:59 p.m.,
in response to message #2 by Todd Garabedian

I've used an 82068B. This is the same as I have used with the HP41, and HP97, and most of the HP41 peripherals.

I think the 8 VAC adapter is pretty much used for everything. Well, everything that it fits anyway :-)

Note that the 82068B is the Aussie version. The US version is ummmm something else (82058D I think)

Re: HP71B AC Adaptor/Charger ?

*Message #4 Posted by [Thibaut.be](#) on 25 Feb 2001, 1:52 a.m.,
in response to message #3 by Steve (Australia)*

Yes, I confirm : the 71B works like a charm ith a 41 adapter.

Re: HP71B AC Adaptor/Charger ?

*Message #5 Posted by [CJ](#) on 26 Feb 2001, 7:29 a.m.,
in response to message #4 by Thibaut.be*

Thanks everyone for the help!

I tried it again with the 82059B/D without batteries and got nothing. Except memory lost.

I have a feeling that the AC recepticle doesn't even work. I don't know why it wouldn't.

It is a '89 model. Oh well I guess it's batterys for me.

I appreciate all the help.

Chris

Re: HP71B AC Adaptor/Charger ?

*Message #6 Posted by [Steve \(Australia\)](#) on 26 Feb 2001, 8:53 a.m.,
in response to message #5 by CJ*

Do you know for sure that the charger is OK?

Re: HP71B AC Adaptor/Charger ?

*Message #7 Posted by [CJ](#) on 26 Feb 2001, 9:34 a.m.,
in response to message #6 by Steve (Australia)*

Hi Steve,

Yes I am sure THEY work. I have many of them and they charge my print, cass. and power the disp, RS232, etc.

It is strange.

I bought the thing at a ham fest for \$25. The gentlemen had a pile of them. Must have been a HP sellout or Government lot.

Maybe these were a special item that weren't supposed to be used on AC and HP changed them? Just guessing here.

Dissapointing though. I would really like to run it on AC. Like I said I'm running a continuous program(packet station) and batteries are going quick.

Thanks for the help !

Chris

Re: HP71B AC Adaptor/Charger ?

*Message #8 Posted by [Reinhard Hawel \(Austria\)](#) on 27 Feb 2001, 5:52 a.m.,
in response to message #7 by CJ*

The AC flag (and the display symbol) is never set in HP-71 operation. I believe, it can be set with a BASIC statement (SFLAG -xx, I don't know the number yet).

The 71B works with the 41C adapters and has a voltage regulator inside, so that it should work with any AC (or DC) source, that will output abt 8VAC or a little more DC.

It might have a defunct regulator part inside. This should be easy to fix (especially, if you're a radio amateur).

Does the unit work on batteries alone?

Re: HP71B AC Adaptor/Charger ?

*Message #9 Posted by [CJ](#) on 27 Feb 2001, 8:29 a.m.,
in response to message #8 by Reinhard Hawel (Austria)*

Hi Reinhard,

On my QRG it says that the AC flag is -57 and it can't be set/cleared by the user.

Yes it runs fine on batteries. But I get nothing from the adaptor. batteries in or out.

I think your right about the regulator be defunct.

I have no idea what part it is or were it is on the board. Does the museum CD's have schematics of this unit?

Thanks for the help.

Chris

HP71B AC Flag

*Message #10 Posted by [Philip Reagan](#) on 8 Mar 2001, 4:06 p.m.,
in response to message #9 by CJ*

I have found one instance where the AC is set. Using the HP41 Translator Pac, the AC flag is set when you enter Alpha ON mode. I guess this is one of the reserved uses.

Re: HP71B AC Adaptor/Charger ?

*Message #11 Posted by [Reinhard Hawel \(Austria\)](#) on 27 Feb 2001, 5:53 a.m.,
in response to message #4 by Thibaut.be*

Mine, don't work like a charm, but at least they work like a HP-71B :-)

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math 1b won't show up on 41CX Cat2 ??

Message #1 Posted by [Hans Brueggemann](#) on 23 Feb 2001, 8:13 p.m.

hi everyone, can somebody please explain this phenomenon to me? a math 1b module does not show up in cat2 of my 41CX (no matter what slot it is plugged into), however all functions of the module are accessible, i.e. for example xeq 'matrix' works correctly. if the module is plugged into a 41C, it is properly listed in cat2...

tia, hans

Re: math 1b won't show up on 41CX Cat2 ??

Message #2 Posted by [Steve \(Australia\)](#) on 23 Feb 2001, 9:31 p.m.,
in response to message #1 by Hans Brueggemann

Do you have any other modules plugged in (or built in) to the CX?

Re: math 1b won't show up on 41CX Cat2 ??

Message #3 Posted by [CJ](#) on 24 Feb 2001, 7:39 a.m.,
in response to message #1 by Hans Brueggemann

Hi Hans,

That is the way the 41CX operates. It only shows the function headers and NOT the functions themselves.

Were as the 41C did list all the functions for that particular module.

If you see the MATH 1A in the catalog(2) on the 41CX and the functions work then everything is working properly. Just motor on.

Have a good one, CJ

BTW. This feature I don't really like. It requires you to remember the functions or carry a QRC.

Re: math 1b won't show up on 41CX Cat2 ??

Message #4 Posted by [Wayne Brown \(Alabama\)](#) on 24 Feb 2001, 9:49 a.m.,
in response to message #3 by CJ

The 41CX will show the individual functions, if you do this: Start the CAT 2 display and then, when the header of the module you want to see is displayed, pause it by pressing R/S. (If necessary, scroll through the list to the correct header by pressing SST and BST while it's paused.) Then press ENTER and the same function list you would see on the 41C will begin. This display can also be paused with R/S and you can scroll though it with SST and BST. If you press ENTER again, it will return to the list of function headers.

A bug in the 41CX ROM prevents the headers of certain modules from being displayed. I don't remember if MATH 1B is one of them (and my math module is in my desk at the office, so I can't check today). I think the problem is that the 41CX thinks any header that is less than 8 characters long is a function and not a header, so it skips it in the header display. You can still see such modules by switching to the function display as I described above and scrolling back and forth through the list until you find the module you want. (The function display shows both module headers and individual function names, just as on the 41C.)

Re: math 1b won't show up on 41CX Cat2 ??

Message #5 Posted by [Steve \(Australia\)](#) on 24 Feb 2001, 10:25 a.m.,
in response to message #4 by Wayne Brown (Alabama)

Slaps head!

Woldek tells us (about the CX):

"CAT 2 has been speeded up in a second way. When started, it displays only those items in CAT 2 that are more than 7 characters long. These are the titles of modules or of sections of modules. Two examples: the only name in the Machine Design Module that is more than seven characters long is the module name "MACHINE 1A".... There is only one problem with this scheme; a module whose name has seven characters or less will not show up in the CAT 2 unless you stop it and press ENTER before you have reached that module. The only module known to be affected is MATH 1B."

(Extend your HP-41, pp273-274)

Re: math 1b won't show up on 41CX Cat2 - THX!

Message #6 Posted by [Hans Brueggemann](#) on 24 Feb 2001, 10:53 a.m.,
in response to message #5 by Steve (Australia)

ah... thanks a lot to all of you! actually, the module shows up properly in any 41CX if you also have a CCD module plugged into the calculator. next time i will consult my mohp-roms first. i promise :o^}

Re: math 1b won't show up on 41CX Cat2 ??

Message #7 Posted by [Chris Catotti \(Florida, USA\)](#) on 2 Mar 2001, 12:25 p.m.,
in response to message #5 by Steve (Australia)

Okay, can anyone help me out? Is it possible that a module has no header, and therefore will not catalog at all on an HP-41CX, but will show the functions on an Hp-41C ?

I have a "HANDY COMPACT" ROM. From the module case: 82500A-A05 COMPACT ENG. INC. ID-31 SINGAPORE [date code] 2114

The manual is copyrighted 1982 by COMSAT General Integrated Systems, Inc., Austin TX, Palo Alto CA and London England.

Anyway, in the HP-41CX it does not catalog at all [using CAT 2]. In the HP-41C it catalogs with the 60 functions (all three characters long). The functions are all written in user code. The header [Module name] never shows up in the catalog. Another oddity ... all of the function programs are PRIVATE.

from the User's Manual "The routines contained in HANDY-COMPACT are extensions of those described in 'Microwave Circuit Design Using Programmable Calculators' by Medley and Allen, published by Artech House." I bought a copy of this book after I bought the ROM.

Re: math 1b won't show up on 41CX Cat2 ??

Message #8 Posted by [Steve \(Australia\)](#) on 2 Mar 2001, 3:17 p.m.,
in response to message #7 by Chris Catotti (Florida, USA)

Try stopping the catalogue immediatly and pressing enter.

The header is xrom xx,00 so if you're familiar with synthetic programming, it's not hard to create one of these. You may find it shows up as blank or as the first function of the library (not sure if it is possible to have the module header do something when executed).

A module header is required, but it *could* be blank (i.e. spaces) I think.

Re: math 1b won't show up on 41CX Cat2 ??

*Message #9 Posted by [Chris Catotti \(Florida, USA\)](#) on 2 Mar 2001, 6:10 p.m.,
in response to message #8 by Steve (Australia)*

Using the PPC ROM routine MK, and inputs of 167, 192, -21 to assign XROM 31,00 to the shifted X<>Y key successfully assigns XRIM 31,00. However this is not the header, but rather the function "CHR" which the manual calls the "characterization command" which is used to calculate the stability factor, maximum gain, and the simultaneous matched source and load for a network when the stability factor is greater than 1. (In other words, its just a function.)

Would you like to know the first several hex digits of the ROM starting at -000 ?

Re: math 1b won't show up on 41CX Cat2 ??

*Message #10 Posted by [Steve \(Australia\)](#) on 2 Mar 2001, 6:32 p.m.,
in response to message #9 by Chris Catotti (Florida, USA)*

> Would you like to know the first several hex digits
> of the ROM starting at -000 ?

Yeah, but get the full 10 bit values if you can. I don't have my reference here which gives me the layout for the module header, but I believe the name is very near the top.

What is the first function in the ROM as listed in the catalog in a 41C, and what is its XROM number? I assume it's not CHR.

Re: math 1b won't show up on 41CX Cat2 ??

*Message #11 Posted by [Chris Catotti \(Florida, USA\)](#) on 3 Mar 2001, 3:39 a.m.,
in response to message #10 by Steve (Australia)*

Question What is the first function in the ROM as listed in the catalog in a 41C, and what is its XROM number? I assume it's not CHR.

Answer The first function in the ROM as listed in the catalog in a 41C is indeed CHR and its XROM number is 31,00.

I used my **ADV HEPAX** ROM version **-HEPAX 1D** and I used the **DISASM** function to make dumps of three different ROM's. The listings are the what appeared on an HP-41CX as I disassembled each ROM plugged into port 3 (mainframe address Cxxx). I have used the symbol "^"

to mean the little "T" symbol that often leads an alpha string in program mode on the calculator.

```
[pre:PPC Module C000 00A XROM NO.=10 C001 040 64 FUNCTIONS
C002 00F FCT:C PPC 1981 C003 0F2 ADR: CFF2 C004 200 FCT:^MK
C005 086 ADR: C086 C006 200 FCT:^1K C007 0DF ADR: C0DF
```

```
[pre:FINANCIAL I Module C000 004 XROM NO.=4 C001 023 35
FUNCTIONS C002 000 FCT:FINANCE 1D C003 003 054 ADR: C054
C004 204 FCT:^MONEY C005 01E ADR: C41E C006 206 FCT:^IRR
C007 0DF ADR: C0DF
```

```
[pre:HANDY COMPACT Module C000 01F XROM NO.=31 C001 03C
60 FUNCTIONS C002 200 FCT:^CHR C003 07F ADR: C07F C004 201
FCT:^GTF C005 067 ADR: C167 C006 201 FCT:^CGC C007 0CA ADR:
C1CA
```

Re: math 1b won't show up on 41CX Cat2 ??

Message #12 Posted by [Chris Catotti \(Florida, USA\)](#) on 3 Mar 2001, 3:43 a.m.,

in response to message #10 by Steve (Australia)

Question What is the first function in the ROM as listed in the catalog in a 41C, and what is its XROM number? I assume it's not CHR.

Answer The first function in the ROM as listed in the catalog in a 41C is indeed CHR and its XROM number is 31,00.

I used my **ADV HEPAX** ROM version **-HEPAX 1D** and I used the **DISASM** function to make dumps of three different ROM's. The listings are the what appeared on an HP-41CX as I disassembled each ROM plugged into port 3 (mainframe address Cxxx). I have used the symbol "^" to mean the little "T" symbol that often leads an alpha string in program mode on the calculator.

```
PPC Module
C000 00A XROM NO.=10
C001 040 64 FUNCTIONS
C002 00F FCT:C PPC 1981
C003 0F2 ADR: CFF2
C004 200 FCT:^MK
C005 086 ADR: C086
C006 200 FCT:^1K
```

C007 0DF ADR: C0DF

FINANCIAL I Module

C000 004 XROM NO.=4

C001 023 35 FUNCTIONS

C002 000 FCT:FINANCE 1D

C003 003 054 ADR: C054

C004 204 FCT:^MONEY

C005 01E ADR: C41E

C006 206 FCT:^IRR

C007 0DF ADR: C0DF

HANDY COMPACT Module

C000 01F XROM NO.=31

C001 03C 60 FUNCTIONS

C002 200 FCT:^CHR

C003 07F ADR: C07F

C004 201 FCT:^GTF

C005 067 ADR: C167

C006 201 FCT:^CGC

C007 0CA ADR: C1CA

Re: math 1b won't show up on 41CX Cat2 ??

*Message #13 Posted by [Steve \(Australia\)](#) on 3 Mar 2001, 9:28 a.m.,
in response to message #12 by Chris Catotti (Florida, USA)*

Yes, it appears that the "Handy Compact" module has no header.

In any case a header is only a function that can't be entered normally.
This is either because the name is too long, or because it contains
invalid characters.

Without a header you won't see it in the CAT 2 of a CX (without a
little extra effort)

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Search Function for Forum

Message #1 Posted by [shinji-ben](#) on 22 Feb 2001, 8:19 p.m.

I browse the forum regularly and at times used it to check up interesting discussions and "how-to". I think most users of Forum will agree that a search function for locating specific discussions will be of great help to users.

Re: Search Function for Forum

*Message #2 Posted by [Dane](#) on 22 Feb 2001, 9:35 p.m.,
in response to message #1 by shinji-ben*

look at the top of the forum page...."search/personalize display"

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Whatever happend to the HP10Bii?

Message #1 Posted by [Tom \(UK\)](#) on 22 Feb 2001, 8:07 a.m.

A few months ago the HP10Bii was on the US web page. Since then it seems to have disappeared but the HP10b is still advertised.

Is it only on sale in some markets while HP get rid of the old stock of HP10b?

Will this calc be the basis of any other calcs, or have HP gone down the line of contract manufacture when getting the same thing again is more expensive than having a new design (I know that seems odd but it sometimes works out cheaper to start with a blank sheet of paper if the manufacturer you were using has moved on or gone bust.)

Re: Whatever happend to the HP10Bii?

Message #2 Posted by [Frank B. \(Germany\)](#) on 22 Feb 2001, 3:17 p.m.,
in response to message #1 by Tom (UK)

I haven't seen a real HP10bii yet, but a quick search with google shows, that the webpage is still around:

http://www.hp.com/calculators/business/10bii_info.html

From the french page

<http://www.hp.com/calculators/france/prod10.html>

you can even download an emulator and the manual for the calculator. Unfortunately, I don't speak french.

Frank.

Re: Whatever happend to the HP10Bii?

Message #3 Posted by [Todd Garabedian](#) on 22 Feb 2001, 6:23 p.m.,
in response to message #1 by Tom (UK)

I saw them for sale in France when I was there a couple months ago. Next time I go, I'll stock up!

Re: Whatever happend to the HP10Bii?

Message #4 Posted by [GE](#) on 26 Feb 2001, 3:07 a.m.,
in response to message #3 by Todd Garabedian

I got one a few months ago. The fact is, I live in France. If you're interested I can (try to) purchase one for anyone interested. This would be the unopened, shrink-wrapped HP10bII, at whatever the street price happens to be now. Shipping would be yours. I'm interested in other calculators not readily available here in France, so a swap is possible. Regards.

Re: Whatever happend to the HP10Bii?

Message #5 Posted by [Raymond Hellstern](#) on 16 Mar 2001, 7:31 p.m.,
in response to message #4 by GE

Hello,

AFAIK, HP has shut down calculator production. See www.hpcalc.org .

I have one 10BII unit (not for sale;-)

It's very light, has a hard key click. Its left and right edge is surrounded by rubber, so it can't slip off your hands even if the're wet. But unfortunately, the microscopic rubber feet which should hold the calc in place when it's sitting on the desk are nearly worthless since the battery door looks out some tenths of a millimeter:-) In Germany it was sold at the same price as the 10B, but IMHO it's worth half the price at max. My tip: If you really need such a calc, get a 10B (not 10BII) while the're available.

Don't get me wrong: it's not a bad calc, it's only the wrong price for the product;-)

Raymond

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HP15C - "Rubberfeets"

Message #1 Posted by [Jochen Lange](#) on 22 Feb 2001, 6:49 a.m.

Hi there!!!

My HP15C lost 3 of his "rubberfeets" - How can I create new ones??? Many thanks in advance and much greetings from Germany!!!

Jochen :):):)

Re: HP15C - "Rubberfeets"

Message #2 Posted by [Frank knight](#) on 22 Feb 2001, 6:09 p.m.,
in response to message #1 by Jochen Lange

Bicycle Innertube and exacto knife, using pattern of remaining foot.

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One More Message...Communication is worthwhile

Message #1 Posted by [Dan M](#) on 21 Feb 2001, 5:46 p.m.

Sorry to come off as offended, my last message should have had a big "smiley" at the end of it. You were totally right in pointing out what the calculator does, I was mostly upset at not realizing it myself or at least wording what it does in a poor manner. Communication is worthwhile.

No offense taken, and I will continue to provide input to this forum whenever I feel that I have a positive or at least interesting contribution to make.

In the end, I do believe that Romeo had his questions answered.

In a related but not totally related line, I am actually growing more fond of the 32sii as I continue to use it. Perhaps in some twisted way, HP views the 32sii (and 48 and 49) as more than an adequate range of RPN calculators for us old-fashioned people who do not "work" math problems the way that some people would write them down on paper.

It's still weird to me that this reasonably good calc (32sii) manages to survive from 1987 (copyright date on back), where the much better calc (42s) is long gone.

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Japanese HP-65

Message #1 Posted by [Denkikun](#) on 21 Feb 2001, 12:16 p.m.

I recently picked up a japanese version of the hp-65 and am wondering if this might be somewhat uncommon. it has yokogawa hewlett packard 65 written across the lower face of its keypad area. its user function explanation on the back is in japanese, any ideas?

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Re: HP-32sii (you're right, I'm wrong)

Message #1 Posted by [Dan M](#) on 20 Feb 2001, 7:53 p.m.

Oops! I was just playing a little fast and loose with the language... and got caught.

"RND" will lop off what's not in the display, leaving the displayed digits intact. As explained, this is not necessarily truncating. The last displayed digit may be rounded up.

I guess that teaches me to try and answer a question.

Apologetically yours,

Dan

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Re: HP42S Screen

Message #1 Posted by [Marx Pio](#) on 20 Feb 2001, 6:38 p.m.

If you need more power and more screen contrast than your 48xx you should consider buying an HP49G. If you just need the best non graphic programmable calculator your choice is the 42S. It has a nice screen contrast, power and portability. Regards, Marx

Re: HP42S Screen

Message #2 Posted by [D. Banks](#) on 21 Feb 2001, 8:44 a.m.,
in response to message #1 by Marx Pio

You know, the HP-42S is my favorite all-around calculator, and god knows (like everyone else here) I have a ton of HPs to choose from.

The bummer is that it seems like everyone else in the world, except for HP, agrees with my choice. Whenever I go looking for a new 42S for my collection (rather than to be the one I spill coca cola on every other day), I see that on eBay, they're all going for higher prices than what they cost new.

It seems pretty clear to me that I'm either going to have to raise my price point, or do without a second one.

Re: Acquisition of used HPs

*Message #3 Posted by [Chris Dalla](#) on 21 Feb 2001, 11:41 a.m.,
in response to message #2 by D. Banks*

Two words: Flea Market. If you've got a flea market or other large swap meet kind of thing that happens anywhere near you, it's a great source for HPs. Without really scouring the one near me, I've gotten a 21, a 91, and a 12C, all in great cosmetic condition for 5 bucks apiece, and the only one that has a real problem is the 91, and that should be easy to fix once I've got the schematics. Once, I missed getting a red dot 35 in great condition for \$20 by about 3 minutes. Sure, you might not get the original box and/or all original documentation (though anything is possible), but unless you're trying to build a museum-quality collection, that stuff is sort of superfluous anyway.

-c

Re: Acquisition of used HPs

*Message #4 Posted by [Randy Smith](#) on 21 Feb 2001, 12:12 p.m.,
in response to message #3 by Chris Dalla*

I might also suggest pawn shops. I have managed to find 2 42s in pawn shops for the combined cost of \$70. One even included the original box and all of the documents. I also found a 82240B IR printer for \$35 with the manual. It works perfectly. And, I found a 15C with case and manual for \$20. The best way to buy in pawn shops is with cash. It does not bounce like a check and it doesn't have service fee for the business like a credit card. You may be able to find some of the things I have if you try this. Good luck! Randy

Re: Acquisition of used HPs

*Message #5 Posted by [D. Banks](#) on 22 Feb 2001, 11:30 a.m.,
in response to message #4 by Randy Smith*

Pawn shop's a good idea. Flea market probably is, too, but I can't stand flea markets. They make me itch.

Now, someone just tell me how to find the willpower to stay away from eBay...

Re: Acquisition of used HPs

Message #6 Posted by [Todd](#) on 22 Feb 2001, 11:42 a.m.,
in response to message #5 by D. Banks

Turn off your computer! ;-)

Re: Acquisition of used HPs

Message #7 Posted by [Matt Kernal \(US\)](#) on 22 Feb 2001, 12:41 p.m.,
in response to message #4 by Randy Smith

Matt's Top-5 List of acquiring used HP's:

- 5) Ebay - generally too expensive for me, but it's how I got some of the more desirable ones (41CV Blanknut, 32S 50th Anniversary, and got lucky on boxed 42S for \$40!).
- 4) Trades/Classified Ads - Picked up some good ones both in the US and around the world (16C, 71B, 97, 14B 50th Anniversary, 41CX), but have had to pay/trade more than I really wanted in order to get them (I'm fair, but hey, I hate to part with more money than I have to! I'm CHEAP!)
- 3) Pawn Shops - Can get some good deals, but some shops are now keen on the value of HPs (thxs a lot Ebay ;-). I have bought a 17B and 28S for \$7 each, both 15C and 16C for \$35, both a 48S and 41CV for \$25, a 48SX for \$5, and an 11C for \$2).
- 2) Garage sales/co-workers - These finds are few and far between, but I bought a boxed 45 for \$5, and have been given a 41CV (my first HP!) and 11C for free from co-workers.
- 1) Thrift stores/Goodwill stores - By far the most frequent and generally least expensive way I pick up good HPs. I have bought a 41CV and card reader for \$0.50 each, a 17BII, 21, 25, 45 for \$2 each, and a boxed 21 for \$1.

Oh, there's one more way I have come into newer HPs: educational services: I have been to classes/HP seminars where I have received a free 49G, a 39G and 49G for \$40 and \$50 each, respectively (R.I.P. Math Learning Center - HP dropped the funding), and a co-worker had 50% of his 48GX, leather case, and a math card paid by our company as college reimbursement (considered required books and materials.. well maybe not the leather case).

Deals are out there, go get'em! Matt

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HP-32sii

Message #1 Posted by [Romeo Tumaghap](#) on 20 Feb 2001, 4:06 p.m.

On the HP-32sii Scientific Programmable Calculator:

1. Does it have a number truncating feature like that found on older HP machines?
2. Does it display commas indicating numbers in the thousand, million, etc., also like that found on the older HP's?

Re: HP-32sii

Message #2 Posted by [Dan M](#) on 20 Feb 2001, 4:25 p.m.,
in response to message #1 by Romeo Tumaghap

I've been having fun with my new 32sii, so am happy to answer your questions as best I can.

>1. Does it have a number truncating feature like that found on older HP machines?

I think the answer is "yes." I've found a variety of "truncating features" on my older HP machines, but here's what I know the 32sii can do...

- a. Display your choice of significant digits. The display is "rounded" to match your choice, but the number in the calculator remains the same (to 15 digits internally, 12 digits displayable).
- b. You can select integer part "IP" or fractional part "FP"
- c. You can round "RND" (this is a true truncate) to the number of digits displayed, discarding all the undisplayed data.

>2. Does it display commas indicating numbers in the thousand, million, etc., also like that found on the older HP's?

My "oldest" HP's don't have an indicator to the left of the decimal point for thousands, millions,

etc. Some of my "older" ones, do... so here's what I know the 32sii can do:

a. Have commas "," for thousands, millions, etc., AND period "." for decimal point/radix.
9,999.00

-OR-

b. Have period "." for thousands, millions, etc., AND comma "," for decimal point/radix.
9.999,00

c. The 32sii will ALWAYS have SOMETHING indicating thousands, millions, etc. (Except in fraction display "FDISP" mode, where it doesn't seem to include this indicator) Some older HP calculators can turn this feature on or off.

Re: HP-32sii

*Message #3 Posted by [Romeo Tumaghap](#) on 20 Feb 2001, 7:53 p.m.,
in response to message #2 by Dan M*

Dan:

Therefore, in the HP-32sii, I can swap the period to indicate a number in the thousand and the comma to indicate the decimal part of a number, and vice-versa?

Romeo T.

Re: HP-32sii

*Message #4 Posted by [Romeo Tumaghap](#) on 20 Feb 2001, 8:15 p.m.,
in response to message #2 by Dan M*

Dan:

Thanks for the advice.

Best Regards, Romeo T.

Re: HP-32sii

Message #5 Posted by [Tom \(UK\)](#) on 21 Feb 2001, 3:42 a.m.,
in response to message #1 by Romeo Tumaghap

Yes to both questions. The HP32Sii works very much like the older mid range scientific programmable HP's (HP67, HP11), it is ideal if you want a modern version of the older types. I think this calc suffers from standing in the shadow of the HP42.

The truncate option is accessible via the 'DISP' function - above the 'E' button.

Comma and dot 1000's indicators is selectable via the 'MODES' function - above the '+/-' button.

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HP42S Screen

Message #1 Posted by [Chris Randle \(Lincoln, UK\)](#) on 20 Feb 2001, 3:54 p.m.

I'm thinking of buying (or trying to buy!) a 42S. One of the reasons I'm not so fond of my 48SX, is the screen contrast is quite poor (IMO). Can somebody tell me how the screen contrast on the 42S compares? On some photos, it looks pretty murky too, but it's hard to tell for certain from photos. Cheers.

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An HP 17BII equation challenge for all who love problem solving using a calculator

Message #1 Posted by [Mike Burns](#) on 20 Feb 2001, 10:04 a.m.

The original book equation for speed walking aerobic fitness points. $PT=(D \times 60/T)-1 \times D-1$ e.g. $(2 \times 60/30)-1 \times 2-1=5$ points Where PT =points, D =distance(2miles), & T =time(30 minutes). . This is the 1st calculator equation : $SPM=((MIN+SEC/60)/(BLK \times .435)-13) \times 60$. Where SPM =seconds per mile (based on a 13 minute mile). BLK = .435 of a mile the distance around my neighborhood block. The variables are: SPM . MIN . SEC . BLK . . Lets say I went 3 times around the block in 17 minutes and 25.31 seconds and my total walking time was 22 minutes. Therefore; $MIN=17$ $SEC=25.31$ $BLK=3$ $SPM=???$ ANSWER is 21 seconds per mile because its based on 13 minute mile I know my speed per mile is 13:21 . Now my 2nd equation in my HP 17BII has to do with my total walking time. I used an equation for distance to combine two equations into one: $D=(T/(SPM/60+13))$. Time divided by speed = distance therefore $22/13:21$ ($21/60+13$) is the same as $(SPM/60+13)$ the answer is 1.65 miles is the distance. and the points $PT=4.76$ This is the answer you should get in the 2nd equation below Therefore; $PT=(T/(SPM/60+13) \times 60)/T-1 \times (T/(SPM/60+13)-1)$ is the same as $PT=(D \times 60/T)-1 \times D-1$ The variables are PT .. T .. SPM . When working out equation in a step by step procedure it only works out properly up to this point $PT=(T/(SPM/60+13) \times 60)/T-1$ If you put in the equation up to this point using $T=22$ (my total walking time was 22 minutes) and $SPM=21$ then $PT=??$ answer 3.49 is the right answer up to this point. when I put the rest of the equation i.e. $\times (T/SPM/60+13)-1$ in the answer is 3.85 for PT but the correct answer for PT is 4.76 as you can see $(T/SPM/60+13)$ is repeated twice in the equation because it represents D for distance based on the original book equation The HP 17BII is not interpreting this aspect properly. How do I represent this equation so that this aspect is taken into account? Thanks! .

Please don't ask the same question in three threads

Message #2 Posted by [Dave Hicks](#) on 20 Feb 2001, 12:05 p.m.,
in response to message #1 by Mike Burns

Mike, as I said the first time you posted this, your parens are in the wrong place. The calculator is doing the right thing.

Your expression:

$$(T/(SPM/60+13)x60)/T-1x(T/(SPM/60+13)-1) = 3.85$$

Correct expression:

$$((T/(SPM/60+13)x60)/T-1)xT/(SPM/60+13)-1 = 4.76$$

Re: Please don't ask the same question in three threads

Message #3 Posted by [Mike Burns](#) on 21 Feb 2001, 4:12 p.m.,
in response to message #2 by Dave Hicks

Thanks Dave I greatly appreciate your help! How did you know exactly what to do with parens. Is it your math knowledge or did you get from a manual? Is there a manual such as vol 1 of the CD's available for purchase on this web site that would have helped me?

Re: Please don't ask the same question in three threads

Message #4 Posted by [Dave Hicks](#) on 22 Feb 2001, 12:13 a.m.,
in response to message #3 by Mike Burns

It's math/algebra rules. You started with:

$$PT=((Dx60/T)-1)xD-1$$

but while doing your substitution, you modified the main formula to:

$$PT=(Dx60/T)-1x(D-1)$$

That totally changes the result. Now you're subtracting D-1 rather than multiplying by D and subtracting 1.

I don't know of any calculator books that cover this. It's an algebra textbook subject. From the calculator's perspective it's garbage in => garbage out.

Re: Please don't ask the same question in three threads

Message #5 Posted by [Mike Burns](#) on 22 Feb 2001, 11:58 a.m.,
in response to message #4 by Dave Hicks

David I respect your knowledge and truly appreciate your help!! I checked my equation. This is the right one $PT=(D \times 60 / T - 1) \times D - 1$ In my original question this $PT=(D \times 60 / T - 1) \times D - 1$ was incorrectly written and is an invalid equation according to my HP 17BII. I see your logic clearly with regard to $PT=(D \times 60 / T - 1) \times D - 1$ What I would like to know is why the two ((at the beginning of this equation ($(T / (SPM / 60 + 13) \times 60) / T - 1) \times T / (SPM / 60 + 13) - 1$. How did you know it need two((I know with only one (the equation is invalid but if I put two parens on this equation $((D \times 60 / T - 1) \times D - 1$ my HP 17BII consider this equation invalid. Therefore; is there a rule of thumb? Thanks P.S. Did Jim Lawson publish a pamphlet he used as a sales tool when Handicalc was in business that described the contents of each of these 5 manuals: There are several application manuals for the 17B/27S/19B Pioneer calculators: (1) Real Estate, Banking & Leasing; (2) Business Finance & Accounting; (3) Marketing & Sales; (4) Personal Investment, and (5) Technical Applications. If this is correct how do I get in contact with him directly

Re: Please don't ask the same question in three threads

Message #6 Posted by [Dave Hicks](#) on 22 Feb 2001, 12:38 p.m.,
in response to message #5 by Mike Burns

You originally posted: $PT=(D \times 60 / T - 1) \times D - 1$

That is not a valid equation (to an HP-17Bii or anyone else) because the parentheses are not balanced. This sentence looks strange) doesn't it? The closing parenthesis after strange doesn't match an opening parenthesis.

I just added '(' to make it valid. Like: $PT=((D \times 60 / T - 1) \times D - 1$. I could have also deleted one like: $PT=(D \times 60 / T - 1) \times D - 1$. Both of these are valid equations and are equivalent. Since I didn't have access to the original equation, I guessed its form and then verified it by plugging in the numbers you gave as examples.

Re Mr. Lawson - I don't know. Generally, people don't post "I don't know" to keep the forum from filling up with that answer.

Re: Please don't ask the same question in three threads

Message #7 Posted by [Matt Kernal](#) on 22 Feb 2001, 6:19 p.m.,
in response to message #5 by Mike Burns

Mike Burns> Therefore; is there a rule of thumb?

I hope I'm correctly understanding the question you're asking, but beyond having balanced parentheses, yes there is a rule of thumb. Call it what you like, order-of-operations, priority, or precedence, the memory aid I remember is.. PEMDAS (Please Excuse My Dear Aunt Sally) where:

P = Parentheses

E = Exponents

M = Multiplication (same priority as division)

D = Division (same priority as multiplication)

A = Addition (same priority as subtraction)

S = Subtraction (same priority as addition)

Which means "before anything else, do what's inside the parentheses. Next, if there are any exponents, apply that power to the result of what was inside the parentheses. Next, if there is a division OR multiplication, apply that operation next. And finally, if there is any addition OR subtraction to do, apply it last".

On a related note to Dave... I noticed your description of the HP-17B calculator mentions it has "full algebraic logic including precedence". By accident, I found mine doesn't recognize precedence. Recently, HP's Jean-Yves Avenard pointed that only the algebraic scientifics recognize precedence (like the 6S, 20S, 21S, 22S, 27S, 30S, 38G, 39G), but the algebraic business calculators do not (17B, 17BII for sure; I haven't tested the 10B, 14B, 19BII). I asked him why the inconsistency? After all, they aren't called "calculators" for nothing. He said it was an industry standard; Ti and Casio do the same. I haven't noticed if this is actually true.

To be safe, know your order-of-operations, and never stray away from RPN :-)

Matt

Re: Please don't ask the same question in three threads

*Message #8 Posted by [Steve \(Australia\)](#) on 22 Feb 2001, 8:48 p.m.,
in response to message #7 by Matt Kernal*

Or BIMDAS

Brackets, Indicies,

Re: Please don't ask the same question in three threads

*Message #9 Posted by [Dave Hicks](#) on 23 Feb 2001, 2:55 p.m.,
in response to message #7 by Matt Kernal*

Thanks Matt! I'll correct that.

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Dead pack

Message #1 Posted by [Juan-J](#) on 19 Feb 2001, 6:28 p.m.

Dave/Forum contributors:

I'm afraid I'm one more HP 41 user with a dead battery pack. My 41CX always had the N-size tray, but I also have a 41C with a rechargeable pack, which is about to die.

Are trays available? I think it's simpler to use N-size cells, Otherwise, I'll have to repair the dead pack.

Any advice is welcome.

Re: Dead pack

Message #2 Posted by [shinji-ben](#) on 21 Feb 2001, 10:00 p.m.,
in response to message #1 by Juan-J

As an alternative, you may want to consider converting the rechargeable battery casing to accept N cells or N size rechargeables instead of trying to repair/rebuild. I have recently done this to solve this problem.

Re: Dead pack

Message #3 Posted by [Steve \(Australia\)](#) on 22 Feb 2001, 4:34 a.m.,
in response to message #2 by shinji-ben

What did you do with the innards you removed?

I hope you didn't discard them...

Re: Dead pack

Message #4 Posted by [shinji-ben](#) on 22 Feb 2001, 7:31 p.m.,
in response to message #3 by Steve (Australia)

I carefully removed the built-in electronics and keep them in a safe place. Hopefully, I can get hold of the correct sized rechargeable cells so that I can use them in the future.

Re: Dead pack

Message #5 Posted by [Juan-J](#) on 22 Feb 2001, 8:26 p.m.,
in response to message #4 by shinji-ben

Shinji-ben/Steve:

Thanks for your advice. How do I get the pack disassembled?

Re: Dead pack

Message #6 Posted by [Steve \(Australia\)](#) on 22 Feb 2001, 8:41 p.m.,
in response to message #5 by Juan-J

The method I use is to cut along the side joins with a knife. Then score the rear join quite deeply.

At this point you'll have a pack that is disconnected on three sides, and connected at the back.

Insert a screwdriver in the side near the hinge formed by the still connected side and twist. Hopefully the rear join will break leaving the pack in 2 pieces, with relatively little damage and fitting together nicely.

At this stage, I have not even bothered to glue the packs back together. I just weap insulation tape around them.

CAUTION: Inserting a pack that is NOT held together is FAR easier than removing it. This is especially true if you have used oversized cells (1/3 AA)

Re: Dead pack

*Message #7 Posted by [Juan-J](#) on 23 Feb 2001, 10:38 a.m.,
in response to message #6 by Steve (Australia)*

Steve:

Thanks. I found out that 1/3 N size batteries are difficult to get, and that 1/3 AAA batteries need the holder to be perforated. Is that true?

Re: Dead pack

*Message #8 Posted by [Steve \(Australia\)](#) on 23 Feb 2001, 6:39 p.m.,
in response to message #7 by Juan-J*

1/3 AAA are slightly smaller and so there will be a little extra room around them.

1/3 AA are larger and require lots of effort and modification to the back. but give you 110 mAHr.

The 1/3 AAA (50mAHr) have about the same capacity as the original nicads (1/2 N -- 55 mAHr).

Re: Dead pack

*Message #9 Posted by [Juan-J](#) on 26 Feb 2001, 8:57 p.m.,
in response to message #8 by Steve (Australia)*

Steve:

Thanks.

Can you recommend a good site to buy them?

Re: Dead pack

*Message #10 Posted by [Steve \(Australia\)](#) on 27 Feb 2001, 4:39 a.m.,
in response to message #9 by Juan-J*

In Australia I would suggest Batteries Plus.

You need someone who will make up a pack for you. Take the original pack into them so they can see where the leads have to come out, and in what direction.

Re: Dead pack

*Message #11 Posted by [Juan-J](#) on 27 Feb 2001, 9:02 a.m.,
in response to message #10 by Steve (Australia)*

Steve:

Thanks. Do they have a web page?

Re: Dead pack

*Message #12 Posted by [Steve \(Australia\)](#) on 27 Feb 2001,
10:02 a.m.,
in response to message #11 by Juan-J*

For what it's worth, yes.

<http://www.batteriesplus.com.au/>

But you're not in Australia, are you?

Re: Dead pack

*Message #13 Posted by [Mark Sims](#) on 27 Feb 2001, 12:23 p.m.,
in response to message #9 by Juan-J*

Another good source for batteries is EVS Supply in Richardson Texas (www.evssupply.com) They have been able to rebuild anything that I've ever brought them (including some real weird stuff) and have supplied me with some REALLY obscure batteries over the years. They just rebuilt a HP-65 pack with 1300 maH metal hydrides for 16 bucks... it will run a program non-stop for 12 hours now. If you can get 1/3 AAA metal hydride cells they will more than make up for the loss of capacity going from the larger sub-N cells.

Re: Dead pack

*Message #14 Posted by [Steve](#) on 27 Feb 2001, 5:51 p.m.,
in response to message #13 by Mark Sims*

NiMH are great, but how are you going to charge them?

The chargers in these calculators are not designed for them and will damage them in fairly short order

Re: Dead pack and NiMH cells

*Message #15 Posted by [Mark Sims](#) on 27 Feb 2001, 6:13 p.m.,
in response to message #14 by Steve*

NiMH cells will work fine any just about any trickle charged NiCD application without any modifications whatsoever. Because they have about twice the capacity of NiCD batteries their charge rate (in cell capacity/charge current) will be about half of the NiCDs and take twice as long to charge fully. This means they are also stressed about half of what a NiCD would be. A typical cell can stand an continuous trickle charge rate of C/10 without problems (although I prefer less). In these calculator applications the NiMH cells have a charge rate of around C/25 or less. I have used NiMH cells in EVERY trickle charge replacement I've done in the last three years without a single failure. NiMH cells do not have the

"memory effect" problems of NiCDs and are more environmentally friendly. In the past I have built some solar powered remote sensing applications that have run continuously for over 10 years without losing a single bit of data or had any maintenance(except when Bubba with his rifle decides to do some target practice) and am rather familiar with long term reliable operation of rechargeable batteries.

Re: Dead pack and NiMH cells

*Message #16 Posted by [Steve \(Australia\)](#) on 28 Feb 2001, 7:50 a.m.,
in response to message #15 by Mark Sims*

An issue is that it seems that many HP calculators and accessories that I've seen seem to charge the nicads at about C/4

Re: Dead pack and NiMH cells

*Message #17 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 28 Feb 2001, 10:26 a.m.,
in response to message #16 by Steve (Australia)*

You can charge at C/4 IF AND ONLY IF your charging circuit detects the battery charge status and adapt to it (i.e.: entering a trickle charging mode when battery is almost full). If the charger is not "intelligent", then it is not advisable to charge at more than C/10.

Most current models of cell phones, laptops and PDAs do charge at more than C/10 in order to achieve recharging times of 2 hours or so, but "smart" chargers and batteries are required. Hint: see how many contacts a battery pack has, "smart" battery packs may even have a microprocessor on-board... so it is usual for them to have at least positive, negative and one or more extra contacts to sense the battery status or to communicate with such on-board battery controller.

Keep in mind that, at least in Woodstocks, the

charging circuit is absolutely not intelligent, but since it is a half wave rectifier, the real current applied is about 45% of the DC value... This may explain the C/4 vs. C/10 issue in that case.

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HP41

Message #1 Posted by [JMB](#) on 19 Feb 2001, 4:51 p.m.

Objet: Re: HP41 Date: Mon, 19 Feb 2001 10:39:36 -0800 De: Dave Hicks <dgh@hpmuseum.org>
A: Jean-Marc Baillard <jean-marc.baillard@libertysurf.fr>

At 05:52 PM 2/18/01 +0100, Jean-Marc Baillard wrote: >Dear Sir, >I would like to know if it is possible to use a 6V lithium battery >in a HP41 instead of the four 1.5V alkaline batteries. >I am still a fan of this calculator and I'd like to increase >the duration of the batteries (and to reduce the price...) >when I use my HP41 with an Hepax module . >Awaiting your reply, sincerely yours.
>JMBaillard.

I don't know, but that would be a good question for the HP forum. <http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/forum.cgi>

Dave

Dave Hicks (dgh@hpmuseum.org) The Museum of HP Calculators <http://www.hpmuseum.org>

Re: HP41

Message #2 Posted by [Steve \(Australia\)](#) on 19 Feb 2001, 5:19 p.m.,
in response to message #1 by JMB

There was an article in one of the PPC Journals that discussed the battery life of the HP41 when using a card reader. The author thought that Lithium cells should give better performance.

This person found that 2 3V lithium batteries (around AA size?) could be squeezed into the battery compartment of the HP41.

The result was far longer battery life (measured in numbers of cards that could be read).

On the basis that it's been done before, and that I never saw any subsequent warnings, I would feel that there would be no problem in using a 6V Lithium battery.

As a precaution, I would measure the battery voltage, to ensure it did not exceed 6.8v (which is about the highest voltage you'd expect from 4 fresh alkaline cells).

The fact that Lithium cells can deliver a high current is not a problem, since NiCad cells can deliver even more :-)

The major issues are the form factor, the capacity, and the cost.

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A Bunch of HP-01 Pen Winners

Message #1 Posted by [Dave Hicks](#) on 19 Feb 2001, 3:47 p.m.

The Current Winners

Since I posted my note about the HP-01 pens, several people have made some great postings on the Memories and Articles forums as well as other contributions. The following people should email me their snail mail addresses so I can send them their HP-01 stylus/pens:

Articles:

Tony Duell (Serial Port downloads etc.)
 Rafa (HP 65 card reader tips)
 Katie (Replacement Nicads for HP Battery Packs etc.)
 George Weigt (HP Calculator Opcode Map)
 Ty Rogers (Repairing the hp 82104A photos.)
 David Fenyes (HP48 Disassembly)

Memories:

Dana Bingham (Best money i ever spent)
 Mike O'Regan (HP41c Memories)
 Rick Wagoner (Funny, for that much...)
 Rex Wiederanders (My HP 67)
 D. Banks (Landing on the moon never impressed me)
 Brian W. Haren (Once More Through The Rinse Cycle, Please!)

HP-41 Software Library:

Chris Johnson (HP-41 Games Pac programs)
 Brian Ward (HP-41 Fruit/Slot Machine Game)

Those who have sent scans: My plan is to wait until the next CD is done and then give the people who have scanned the most pages the option of getting some of the other items mentioned below. If you want a pen now instead - just let me know.

How to get Pens and other Stuff - (repost)

Don't worry - there are still many pens left. Here's my old note about how to get them:

As mentioned below in the "Happy Holidays from HP!" thread, HP found a stash of old HP-01 Pens. Also in the stash were a few other items like unsold HP-01 bracelets and leather straps, HP-01 replacement battery case/watch openers, HP-01 assembly tools, HP-41 ROMs and entire application pacs, a printer, a tape drive, battery doors and holders etc. I'll be giving these items away over the next year. There are several ways to get one or more items:

1) Scan one or more new and interesting manuals for inclusion on a future version of the CDs. See:

<http://www.hpmuseum.org/software/swcd.htm> and <http://www.hpmuseum.org/software/swcdfs.htm>

for manuals that are already scanned or promised. See the "Happy Holidays from HP!" thread for an **incomplete** list of manuals that are needed.

If you have a scanner but don't have manuals, there are at least two chances to volunteer anyway:

Hugo has volunteered to scan most of the manuals he listed, but he says it would go a lot faster if someone would volunteer to help him. Peter Petersson has many of the manuals he listed but is unable to scan them. He is willing to lend them to someone in Germany, Austria or Switzerland (only) for scanning.

Please coordinate with me before scanning so two people don't scan the same manual. Generally I consider about 150 pages to be the minimum per pen but some manuals may be worth a pen even if short.

Don't have a scanner? On to...

2) Loan some missing manuals to me to scan. Generally you'll need to supply more pages than in option 1 because I'm doing the labor. Also, this is subject to the availability of my spare time for scanning. (I expect to have spare time in mid January through March - I have none in December.)

Don't have any needed manuals or a scanner? On to...

3) Post something very informative in the articles forum or something very "memorable" in the memories forum. Pens will be awarded for these based purely on my judgement mixed with a little random chance. Post early. Post often. Post brilliantly!

Sometimes, I'll also award pens for posts in the main forum. This could be for a great answer to a

difficult question, starting or contributing to a really interesting thread or for being generally helpful over time.

That doesn't work for you either? On to...

4) Once in awhile I'll run another giveaway contest.

In general, I'll mostly give out the pens because I have the most of those. I hope I've provided enough ways to win that everyone who wants one has a good chance to get one. People who do a lot of scanning or post some really great articles will be offered their choice of the other items in addition to pens.

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PPC ROM Manual

Message #1 Posted by [shinji-ben](#) on 18 Feb 2001, 8:36 p.m.

I have an electronic copy of PPC Rom Manual (HP Museum CDs). The program listings are very interesting. Unfortunately, I cannot find any information as to the synthetic (hex or decimal) text lines used (ie, the equivalent of hex or decimal to produce the text line). Would appreciate advise as to how I can get these iformation.

Re: PPC ROM Manual

Message #2 Posted by [Chris Catotti \(Florida\)](#) on 24 Feb 2001, 6:57 p.m.,
in response to message #1 by shinji-ben

Please e-mail me and I will provide you (free) as little or as much information as you need. The Byte Grabber 7 (BG7) was my favorite method of creating everything synthetic on My HP-41CV in college.

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HP calc. buttons free give away

Message #1 Posted by [Erik Wahlin](#) on 18 Feb 2001, 4:33 p.m.

In the spirit of Dan's recent HP-97 giveaway, I also have some free button parts. They are for the HP-97 (except tan and r/s key), and HP-35 (version 2) and HP-65 (missing 7 and r/s key). If your calc has a damaged or missing button, drop me a line and I'll see what I have. Thanks, Erik Wahlin

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HP48G display cleaning

Message #1 Posted by [Rafa](#) on 17 Feb 2001, 1:58 p.m.

Hello,

I just decided recently that the display of my HP48G needed some cleaning up to remove the accumulated dirty. I didn't want to risk however since this is a sensible part and could be damaged (or scratched). Does anyone know how to clean it safely?

Thanks

Re: HP48G display cleaning

Message #2 Posted by [Todd Garabedian](#) on 17 Feb 2001, 5:53 p.m.,
in response to message #1 by Rafa

I use a lens blower brush to remove big particles first. Then, depending on the level of goo on the screen, I use either an alcohol based cleaner such as Glass Plus, or, if the screen is dirtier, something stronger like Fantastik. If I use Fantastik, I usually follow up with a moist towel to remove streaks.

Good Luck.

Tidd

Re: HP48G display cleaning

Message #3 Posted by [Rafa](#) on 18 Feb 2001, 4:22 a.m.,
in response to message #2 by Todd Garabedian

Thank you very much Tidd, I'll try today.

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HP 67/97 and Anesthesia

Message #1 Posted by [L. Deruyck](#) on 17 Feb 2001, 11:09 a.m.

Looking through the pages of the museum I found a reference about a solution book for anesthesia for the HP 97/97. I could find nothing about this on the CD 's of the Museum. Has anyone information (or a copy) about this ? I am very interested !

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Re: calculator manuals CD's 1-3

Message #1 Posted by [Mike Burns](#) on 16 Feb 2001, 7:06 p.m.

Where can I locate a table of contents for these individual manuals & which Reference Manual, Advanced Functions Manual, and Technical Applications Manual would be most suitable for a HP17BII especially the equation solver?

Re: calculator manuals CD's 1-3

Message #2 Posted by [Todd Garabedian](#) on 16 Feb 2001, 8:46 p.m.,
in response to message #1 by Mike Burns

I'm afraid I don't understand the question.

There are several application manuals for the 17B/27S/19B Pioneer calculators: (1) Real Estate, Banking & Leasing; (2) Business Finance & Accounting; (3) Marketing & Sales; (4) Personal Investment, and (5) Technical Applications.

I think Jim Lawson published a pamphlet he used as a sales tool when Handicalc was in business that described the contents of each of the above 5 manuals. If memory serves, it also includes a good explanation of advanced equation solver techniques.

To my knowledge, there is nothing called a "Reference Manual" or "Advanced Functions Manual" for this series.

You ask which manual is most suitable for a 17Bii. Well, they're ALL suitable... they were made for those calcs! Exactly what are you trying to do with your 17Bii?

Todd

Re: calculator manuals CD's 1-3

Message #3 Posted by [Mike Burns](#) on 20 Feb 2001, 9:44 a.m.,
in response to message #2 by Todd Garabedian

The original book equation for speed walking aerobic fitness points. $PT=(D \times 60/T)-1 \times D-1$ e. g. $(2 \times 60/30)-1 \times 2-1=5$ points Where PT =points, D =distance(2miles), & T =time(30 minutes). . This is the 1st calculator equation : $SPM=((MIN+SEC/60)/(BLK \times .435)-13) \times 60$. Where SPM =seconds per mile (based on a 13 minute mile). BLK = .435 of a mile the distance around my neighborhood block. The variables are: SPM . MIN . SEC . BLK . Lets say I went 3 times around the block in 17 minutes and 25.31 seconds and my total walking time was 22 minutes. Therefore; $MIN=17$ $SEC=25.31$ $BLK=3$ $SPM=???$ ANSWER is 21 seconds per mile because its based on 13 minute mile I know my speed per mile is 13:21 . Now my 2nd equation in my HP 17BII has to do with my total walking time. I used an equation for distance to combine two equations into one: $D=(T/(SPM/60+13))$. Time divided by speed = distance therefore $22/13:21$ ($21/60+13$) is the same as $(SPM/60+13)$ the answer is 1.65 miles is the distance. and the points $PT=4.76$ This is the answer you should get in the 2nd equation below Therefore; $PT=(T/(SPM/60+13) \times 60)/T-1 \times (T/(SPM/60+13)-1)$ is the same as $PT=(D \times 60/T)-1 \times D-1$ The variables are PT . T . SPM . When working out equation in a step by step procedure it only works out properly up to this point $PT=(T/(SPM/60+13) \times 60)/T-1$ If you put in the equation up to this point using $T=22$ (my total walking time was 22 minutes) and $SPM=21$ then $PT=??$ answer 3.49 is the right answer up to this point. when I put the rest of the equation i.e. $\times (T/(SPM/60+13)-1)$ in the answer is 3.85 for PT but the correct answer for PT is 4.76 as you can see $(T/SPM/60+13)$ is repeated twice in the equation because it represents D for distance based on the original book equation The HP 17BII is not interpreting this aspect properly. How do I represent this equation so that this aspect is taken into account? Thanks! .

Re: calculator manuals CD's 1-3

Message #4 Posted by [Todd G.](#) on 20 Feb 2001, 9:59 p.m.,
in response to message #3 by Mike Burns

I refer you to Dave Hicks' reply above.

Todd

Re: calculater manuals CD's 1-3

*Message #5 Posted by [Mike Burns](#) on 21 Feb 2001, 4:08 p.m.,
in response to message #2 by Todd Garabedian*

Jim Lawson did you publish a pamphlet used as a sales tool when Handicalc was in business that described the contents of each of the above 5 manuals?

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Do they really want to sell?

Message #1 Posted by [Marx Pio](#) on 16 Feb 2001, 5:45 p.m.

I'm looking for a card reader for my HP41CV and I found on ebay around USD 100,00. A question, Do they really want to sell or this item is made of gold? I'm thinking about make a fortune with my HP 42... ;)

Re: Do they really want to sell?

Message #2 Posted by [Steve \(Australia\)](#) on 17 Feb 2001, 2:32 a.m.,
in response to message #1 by Marx Pio

I guess they look at what they paid for it, consider how much that would be in today's dollars, and divide by 10 :-)

When I bought my calculator (41CV) it cost an absolute fortune, and the card reader was likewise hugely expensive.

The 41CV cost the equivalent of the cost of my University education for 1 year. (OK, just the books and stuff -- but that was all we had to pay :-)

If I were to look at equivalent text books and Guild membership today...

Re: Do they really want to sell?

Message #3 Posted by [Erik Wahlin](#) on 17 Feb 2001, 7:51 p.m.,
in response to message #2 by Steve (Australia)

Steve, Your Aussie dollar is only about .55/US dollar. It must make it tough. When I was there last year, everything seemed cheap by US standards. Cheers mate.

Re: Do they really want to sell?

*Message #4 Posted by [Erik](#) on 17 Feb 2001, 7:54 p.m.,
in response to message #3 by Erik Wahlin*

Actully, I meant 0.55/Australian dollar

Re: Do they really want to sell?

*Message #5 Posted by [Jim L](#) on 17 Feb 2001, 12:36 p.m.,
in response to message #1 by Marx Pio*

Someone will pay that much so other people can ask that much. But then if you search around you can probably find plenty of 41 card readers for under \$10 or even free. Most 41C items are extremely common. You have to decide whether you want to find them or pay someone else to do it for you.

Re: Do they really want to sell?

*Message #6 Posted by [Dane](#) on 17 Feb 2001, 3:10 p.m.,
in response to message #5 by Jim L*

Where can you find a card reader for \$10? Unfortunately some people live in rural area so finding these items is hard. The local Knights of Columbus rummage sale runs more toward old video games than scientific paraphernalia. Sometimes we have to pay the price.

Re: Do they really want to sell?

*Message #7 Posted by [Jim L](#) on 17 Feb 2001, 6:03 p.m.,
in response to message #6 by Dane*

Swap meets, thrift shops, flea markets, surplus stores, liquidators, government auctions, college bulletin boards, coworkers, friends etc. I've had a lot of stuff just given to me once I asked. I've made offers on HPs sitting on desks of strangers. I visit businesses to see what they have lying around. Government agencies often have old stuff in storage and it's tricky but it can be retrieved at no cost with some schmoozing.

The Internet can work too but you have to avoid the obvious places. Obviously, this is not the place where I'm going to announce my good Internet fishing holes but I'm sure that there are at least 1000 good places that I haven't found.

You don't "have" to pay the price but if that's more convenient for you then that's fine. I consider myself a collector so paying someone else to do my hobby for me doesn't make a lot of sense to me. If I just needed a gadget for my job, I'd probably get it on ebay too. Especially if it's my employer's money :-)

Re: Do they really want to sell?

*Message #8 Posted by [Dane](#) on 17 Feb 2001, 7:56 p.m.,
in response to message #7 by Jim L*

I think you missed my point Jim, I wish I could visit all the type of places you mentioned on a weekly basis but unfortunately I don't have a University near by and I don't live in a technology corridor. Would you drive 2-4 hours, one way on the off chance of stumbling onto a decent bargain? My time is worth something, if I use \$20/hour as a really low value for my time a 4 hour round trip means I can pay \$80 more than you on ebay and still be money ahead. A lot of other people are in the same boat as me so we have to look harder at the best tool we have at hand, the internet. I'm sure your right about other places to find HP stuff on the web and I understand you protecting your sources. I'm looking for those places myself and if I find one don't expect an email from me. Don't get me wrong, I'll love to pick up a \$2 HP anything locally but it aint going to happen near here. Perhaps people in your area advertise calculators and card readers on the wall at the local tavern or grocery store like a lot of people do here for shotguns, duck decoys and the "free to good home mixed Lab-German shepard puppies"? By the way, let me know if your in the market for some slightly used fillet knife from the local slaughter house, they usually go for \$15 a barrel, but if you take a truck load you can cut the price pretty good.

Re: Do they really want to sell?

*Message #9 Posted by [Jim L](#) on 17 Feb 2001, 8:26 p.m.,
in response to message #8 by Dane*

Dane, I don't see what point you think I missed. You asked where you could buy card readers for \$10 and I told you. I'm not in the business of retailing old calculators so I'm nor "worth" anything per hour when I'm collecting. It's just a hobby for me. I don't understand how you manage to make an \$80 profit off a card reader bought for \$100 on eBay but it's fine with me that you do.

Re: Do they really want to sell?

*Message #10 Posted by [Dane](#) on 17 Feb 2001, 8:40 p.m.,
in response to message #9 by Jim L*

Jim, my point was and still is some of us don't have access to the outlets you do to find HP stuff. Don't look down your nose at us if we use ebay or pay more than you would for an item, we don't have much choice. So your statement that "you can probably find plenty of 41 card readers for under \$10 or even free" maybe valid where you live but I will guarantee you could spend 10 years looking here and not find one at any price. They may be falling off trees there but I, and many others, are not where they are plentiful. That's why I can rationalize paying more for an item than you think is prudent, my \$80 example was simple an attempt to show you why.

Re: Do they really want to sell?

*Message #11 Posted by [Jim L](#) on 17 Feb 2001, 9:16 p.m.,
in response to message #10 by Dane*

Dane I've bought them all over. If anything, I think my state is below average. It's really more developing the skill or the nose. My single best buy got me 174 calcs (57 HPs) plus accessories for \$205. It was done on the phone at a distance of over 800 miles. I was merely pointing out to Marx that he has OPTIONS. It appeared that he didn't like the option he was seeing on ebay. That's why I said "You have to decide whether you want to find them or pay someone else to do it for you."

Yes, getting the low price is usually trickier than getting the high price. I thought that was too obvious to state but there it is.

Re: Do they really want to sell?

*Message #12 Posted by [Dane](#) on 17 Feb 2001, 10:46 p.m.,
in response to message #11 by Jim L*

Jim you are either lucky, talented or spend a lot of time searching. More power to you. Some of us are as not so much collectors as just interested in the technology. I went to college in the mid 80's and I find the applications for the 41 fascinating and much less complicated than computers today but just as effective. I have a computer at home, use them extensively at work, own a palm Vx and am amazed every day that you can't buy a calculator that is as simple, versatile and as well built as the HP calculators of the 70's and 80's. So while

you may take pride and pleasure in picking up 174 calculators for \$208, I would have to figure out what to do with the 172 I don't have any interest in and my only thought is to swap or sell then so I can buy something else I'm interested in. Your hobby and motivation is different than mine, if all I need to add to my "collection" is a card reader and a printer I may just pay \$100 to get them. I get a kick out of using it NOT finding it in a place no one else is looking. You sound like you like finding them more than I do and your right it is easier to do it my way but may cost more. By the way, I am looking for a card reader, if you can find one for \$10 I'll gladly double you money.

Re: Do they really want to sell?

*Message #13 Posted by [Jim L](#) on 17 Feb 2001, 11:49 p.m.,
in response to message #12 by Dane*

Dane, I'm not even sure what we're talking about anymore. Hopefully, though, Marx got the message that there are alternatives if he chooses.

I recently interviewed several contractors for a home repair job. The cheapest one wanted \$700. I did it myself for \$80. It required common and cheap materials and only modest skill that I got from a DIY pamphlet. Does revealing this information to you make you think I'm looking down my nose at you? It's certainly not meant that way. You can still hire the contractor if you please. Many people do and are happy with that choice. But if you complain about the price *LIKE MARX DID*, I'm going to suggest the DIY alternative. And no I'm NOT going to do it for you unless you're very pretty single young woman who can appreciate a man with a calculator fixation. :-)

Re: Do they really want to sell?

*Message #14 Posted by [Reinhard Hawel \(Austria\)](#) on 18 Feb 2001, 3:57 p.m.,
in response to message #13 by Jim L*

> And no I'm NOT going to do it for you unless you're very pretty single young woman who can appreciate a man with a calculator fixation. :-)

ROFL :-)

Re: Do they really want to sell?

*Message #15 Posted by [Reinhard Hawel](#) on 18 Feb 2001, 3:51 p.m.,
in response to message #9 by Jim L*

But in this time you can work and earn \$80 (or more), so this can be a concern of money too, even if you don't make a business with calculators. Besides that, I'm pretty sure, that the work of us collectors is worth more than \$20/hour anyway (it depends on the circumstances, if somebody wants to pay it, but I'm sure, it's worth more for the majority...).

That's the reason, why nobody can afford repairing calculators commercially. Nearly all of the people offering repairs seem to do that as a favour for the community and charge a small sum just as an acknowledgement of their work. They just have fun with it. You couldn't afford an electronics engineer, whose job is fixing calculator (or at least, you wouldn't want to pay the price).

I'm working in a University and I once got 3 HP-21s and a Nice HP-80/45 box (you know, the black one) just for the asking. This possibilities do exist, but you have to be lucky. There are no obvious government auctions here in Austria (or, at least, I didn't find them til now), so I, in my case I depend on eBay for getting a lot of devices.

Re: Do they really want to sell?

*Message #16 Posted by [Jim L](#) on 18 Feb 2001, 6:09 p.m.,
in response to message #15 by Reinhard Hawel*

I understand that but I think it's a mistake to account for hobby time at working rates. 1 hour saved at my hobby doesn't cause me to work 1 hour more. Thought about that way it costs me about \$70 to go watch a movie. I should hire some kid to go watch movies for me :-)

If it's a business it's different but I think it's a lot easier to make money on ebay buying them my way then to be buying them on ebay.

What does the Austrian government do with its old junk? Throw it out? If so, you need to find the right people to schmooze :-)

Re: Here is a VERY SIMPLE test

*Message #17 Posted by [Mike](#) on 18 Feb 2001, 1:03 a.m.,
in response to message #5 by Jim L*

Will you sell me one for \$10? If you will, I'll send you my address. Otherwise, it's worth more than \$10.

Maybe too simple

*Message #18 Posted by [Dave Hicks](#) on 18 Feb 2001, 2:33 a.m.,
in response to message #17 by Mike*

I too have found 41C equipment to be quite easy to come by. I would estimate that the average price I've paid for 41C card reader to be under \$10. Don't get me wrong - the HP-41C series is great stuff but there really is a lot of it to be found. (I'm ignoring a few shipments that were sent to me specifically because I run this website.)

None of it will be given to someone who wants me to send it to him merely to prove that it is cheap. I'm not going to sell you one for \$1000 either so they must be worth a fortune. :-) I certainly have no interest in selling these items at \$10 and watching them show up on ebay. I learned that by watching the EduCalc closeout sale.

Instead, they tend to trickle back out slowly, often for free to "good causes" or get traded or used as "prizes" for things like scanning manuals. I don't talk about this a lot because "good causes" start coming out of the woodwork when I do and demand for free items always exceeds supply.

Lately, I've refused more offers of free or cheap 41C items than I've accepted. I just haven't had the time to be a clearing house. I've tried to direct them to the classifieds.

So what Jim says seems true to me. There's a lot of stuff out there. What Dane says is probably also true - there are probably "bad neighborhoods" for finding calculators. And the fact that you can sell them for \$100 on ebay is also true.

Amen

*Message #19 Posted by [Dane](#) on 18 Feb 2001, 11:22 a.m.,
in response to message #18 by Dave Hicks*

Thanks Dave, I was only trying to illustrate that some areas are not good hunting grounds. Thanks also for this site, I've recently returned to the HP fold, the information and advice here is priceless. I hope someday I can contribute something to the site.

Re: Here is a VERY SIMPLE test

*Message #20 Posted by [J. Evans](#) on 18 Feb 2001, 12:05 p.m.,
in response to message #17 by Mike*

That's totally silly. The mere monetary value of something varies, and is only one factor, as Dave has pointed out. Ridiculous statements like this one are only justification for astronomical prices asked by unscrupulous sellers out to make a buck.

Joe

Re: Not at all true

*Message #21 Posted by [Mike](#) on 18 Feb 2001, 12:28 p.m.,
in response to message #20 by J. Evans*

This whole thread was started by someone looking for a card reader for his 41. Many people (more than not) are looking for readers for their own calculator rather than for selling them on eBay.

If someone has lots of readers (more than they really need; as was mentioned elsewhere; or can easily obtain them for \$10) and are not willing to share (or sell cheap) to someone in need, then that is proof that they have more value than what they were obtaining for.

Telling someone where to look (when that place does not exist in their area) is not helping much, especially when that person telling could do someone a favor and

help the new collector out. But I guess "favors" do now exist here.

The fact is, the original poster was in need of a reader. He was from Brazil. Do you really think these readers are a dime a dozen in Brazil, like you claim they are here? If you have a reader; one you got cheap; have extras; could spare one; and don't want to help someone like that, then the reader has considerable value more than \$10. QED!

Re: Not at all true

*Message #22 Posted by [Rafa, Spain](#) on 18 Feb 2001, 1:22 p.m.,
in response to message #21 by Mike*

That's the most truthful I've ever read!

I'm from Spain, and there the HP calculator era began but very recently with the spreading all around of the HP-48. I could easily find a used HP-48 calculator in my country nowadays, but before that HP calculators were known but to many many few. Figure that I considered the possibility (very roughly though) of bidding on that \$100 card reader. I discarded it quickly however because I think it has not this value at all (at least for me). Now what else can I do? --wait for the great occasion :-)

Re: Not at all true

*Message #23 Posted by [Jim L](#) on 18 Feb 2001, 1:34 p.m.,
in response to message #21 by Mike*

Mike - did I ever say that card readers are WORTH \$10 or have a value of \$10? I don't believe I did. If I did, I apologize as I didn't mean it.

What I believe I said was that it isn't hard to PAY \$10 for a card reader. After PAYING \$10, that doesn't mean you have to SELL it for \$10.

Think of any product you like. What's it worth? The parts cost? The total manufacturing cost? The manufacturer's price? The distributor's price? The retailer's price? If you don't like the retail markup, you're welcome to try to bypass him. It may require some effort - sorry.

As for favors: have you ever heard the thing about teaching a man to fish rather than giving him a fish? Yes fishing involves effort and may involve travel. If you don't like that then pay the retail price of a fish and be happy! I don't consider it my mission in life to feed "starving" calculator collectors.

Re: Not at all true

*Message #24 Posted by [Rafa](#) on 18 Feb 2001, 2:32 p.m.,
in response to message #23 by Jim L*

Well at least one thing has come out clear of all that. This card reader value was not \$99 in the end since nobody bought it. Seems like the seller will need to put a more juicy worm on the hook next time if he/she wants to sell :-)

End of the story

Favors do exist here

*Message #25 Posted by [Dave Hicks](#) on 18 Feb 2001, 3:25 p.m.,
in response to message #21 by Mike*

Dan's HP-97 parts give-away is just one example, however, most of the favors on an Internet forum are in the form of information and not all of it will apply to you. I'm just glad that when Reinhard noted that you can get better prices on German ebay that no one demanded that he translate all the German auctions for us. ;-)

Re: Favors do exist here

*Message #26 Posted by [Reinhard Hawel \(Austria\)](#) on 18 Feb 2001, 4:33 p.m.,
in response to message #25 by Dave Hicks*

I have to note, that this was in the time, when the national eBays had different databases.

In general, there's a few of German collectors who sometimes seem to be much crazier sometimes, than the people in America. Thank God, I have most of the common calculators already (and some rare pieces too, like my prototype 71B).

Interestingly the second prototype 71B offered on U.S. eBay (I don't remember when, must be 18 months ago) went to Germany...

I think, I couldn't afford beginning my collection nowadays.

I do not often look at German eBay, just because most of the items are overpriced or too new or crap... There are not much offers too...

The item I mentioned was an especially large portion of luck. I was bored and entered "HP 01" and saw, that one was going in two hours!!! I got it complete and boxed boxed for an apple and an egg.

Re: Favors do exist here

*Message #27 Posted by [Reinhard Hawel](#) on 18 Feb 2001, 4:53 p.m.,
in response to message #25 by Dave Hicks*

BTW: Dave, I really believe, that your "prices and rarity" page is a part of the pressure driving the prices higher and higher. That's the reason, I wanted you (and the community) to know, that there are also some cheap offers.

Sure, that every seller wants to sell his item for the highest price in the list and sure, that the buyers are prepared paying the price. (I know it, because I surely have a prominent place in the prices section - I'm one of the ~\$600 "red dots" and some other of my eBay bids are in the list too).

I'm pretty sure, that there's some sort of speculation, like it is in all collecting markets. When it's "out" collecting old and (for actual work) "worthless" calculators the prices will break down, like the prices for oldtimers did years ago.

Yes, I'm prepared for the flames now...

This all won't matter for me, because I'm not speculating. It just hurts sometimes, but I wasn't that crazy buying the extremely overprized 9100A (though I'd want to have one, maybe for \$10 :-)).

Yeah I know...

*Message #28 Posted by [Dave Hicks](#) on 18 Feb 2001, 5:05 p.m.,
in response to message #27 by Reinhard Hawel*

Years ago people constantly asked me what things were worth and weren't satisfied with non-answers so I started tracking and publishing them. (I resisted for several years.)

Now I get complaints about the high prices shown there all the time. I also get complaints whenever I miss (or ignore) the latest ebay record. I understand that a high price there can cause the "I can bid \$5 more than that" effect.

These days the prices are almost pure ebay. I've always had a policy of not including flea market prices because that makes the price for every calculator something like \$2-300. I'm not convinced that averaging \$2 and \$300 presents a useful answer either.

I'm open to suggestions on how to make them more useful or more realistic or...

Re: Yeah I know...

*Message #29 Posted by [Katie](#) on 18 Feb 2001, 9:01 p.m.,
in response to message #28 by Dave Hicks*

Dave,

I've noticed that professionals who track the prices of collectable items simply record every price that they know of (from an auction or a private sale) over the past XXX time period. This avoids having to resort to statistics. All prices are simply included, regardless of condition and accessories included as long as the item isn't just "junk". You've done that to some extent on the price list, but you don't state the time period nor list every price.

For starters watching just ebay and the classified ad section here would provide a lot of data. Of course it would be a fair amount of work to track all this, but perhaps some of this can be farmed out to volunteers. Or you could simply limit it to just the most collectable (i. e., highest priced) machines.

-Katie

Re: Yeah I know...

*Message #30 Posted by [Dave Hicks](#) on 19 Feb 2001, 4:32 p.m.,
in response to message #29 by Katie*

Unfortunately, I'm finding that I'm not getting a lot of price reports these days. I used to get them frequently in previous years. Also, some of the web dealers I used to check have disappeared. This is why most of what's in the price list these days is what I see on ebay.

Perhaps just a list of prices is a good idea, but I think I need much

more data than I'm getting right now.

Re: Yeah I know...

*Message #31 Posted by [Steve \(Australia\)](#) on 19 Feb 2001, 5:25 p.m.,
in response to message #30 by Dave Hicks*

If people contacted you when they got something for a good price, the ebay effect (i.e. the escalation of average prices on your list) could be countered.

The appearance of lower prices on your list *may* have an effect on ebay prices, but I wouldn't bet on it.

Pity those of us with currency falling with respect to the US Dollar!

Re: Yeah I know...

*Message #32 Posted by [db \(martinez, california\)](#) on 20 Feb 2001, 1:37 a.m.,
in response to message #31 by Steve (Australia)*

good idea steve. and be patient with the exchange rate; it probably won't look this unfavorable in a year. so dave, here's my addition to your list per steve's suggestion: one broken but fixable (now fixed, knock on wood) half nut cx, one not running but fixable (now running) 82143a, and a 41 card reader with cards, all for free from a retired former boss. two seperate people each turned me on to two ex-mem chips, which gives the 41 room to store 299!! points using northings and eastings only. i'm not gloating; this and my marriage are the only two places where life has been overly generous. i'm just following steve's logic and trying to weigh the insane average prices down a bit. and tell me; do you think they give me this stuff for the entertainment value of watching someone actually use these things nowadays?

Re: Yeah I know...

*Message #33 Posted by [Paul Brogger](#) on 20 Feb 2001, 12:03 p.m.,
in response to message #28 by Dave Hicks*

Dave:

You probably ought to punt on this, and tell 'em how to go to eBay & do a "past auction" (or whatever the terminology is) search.

eBay IS the default collectors' marketplace, and nearly everyone knows about it now. It should provide a useful upper bound on prices, and unarguably realistic information on availability and cost through that venue.

A simple note like "If you can find things elsewhere, you may be able to do better . . ." should give hope on the low end of the price spectrum, without promising anything.

A useful service (that some programmer might consider) is a bot/crawler that would periodically do a series of specific, user-specified eBay "past item" searches and report the # of hits and the median, mean, deviation, etc. of their final prices. (I imagine such a service would be quite popular, if it doesn't exist already.)

Re: Not at all true

*Message #34 Posted by [Rich Andrews](#) on 18 Feb 2001, 3:33 p.m.,
in response to message #21 by Mike*

Hmmmm. Sounds like somebody is in a state of Denial. If you believe that, then you must believe that Clinton pardoned Marc Rich out of the goodness of his heart and not because Denise Rich (who has a 42-inch chest and made lots of trips to the White House when Hillary wasn't around) made funny-money campaign contributions.

Irregardless of what anybody says, here's my bottom line: I hate:

1. bloodsuckers who ask sky-high prices for stuff on the classifieds
2. price gougers who ask sky high prices on eBay (I'm convinced there's a conspiracy here)

3. snipers on eBay who crawl out from under their rocks, STEAL from those who play by the rules, and then retreat into their burrows until the next time.

Value and Worth are absolutely irrelevant when a seller KNOWS an item is not worth the asking price, but he asks anyway. Total scum in my book.

My 2 cents. Sorry to vent.

Rich

Waiting the Nasdaq-here calm down

*Message #35 Posted by [Marx Pio](#) on 18 Feb 2001, 6:23 p.m.,
in response to message #34 by Rich Andrews*

C'mon, let's be free. I hate the idea of being a slave and I won't be a ebay's high-prices slave just to maintain my hobby. I'm thinking in go back for my Fender stratocaster playing hobby and wait the things calm down. There are many other no expensive hobbies. Marx

Re: Waiting the Nasdaq-here calm down

*Message #36 Posted by [db \(martinez,california\)](#) on 19 Feb 2001, 3:52 p.m.,
in response to message #35 by Marx Pio*

rich; 1)i agree with you but it doesn't make me mad since i don't really collect. i decided that while collectors and greedy sellers are both driving up the prices; they are also both keeping lots of fine machines from being used for landfill. 2) irregardless is not a standard english word. between your vocabulary and my punctuation and spelling, berlitz is going to get dave thrown off the net. marx; there is always brazil's national hobby: "art appreciation". the "art" is so beautiful there.

Re: Waiting the Nasdaq-here calm down

*Message #37 Posted by [Rich](#) on 19 Feb 2001, 9:17 p.m.,
in response to message #36 by db (martinez,california)*

Yeah, I know "irregardless" isn't a word. I wanted to check and see how many people would notice. I shoulda used "disirregardless". Sorry about that. ;-)

Rich

Re: Waiting the Nasdaq-here calm down

*Message #38 Posted by [Reinhard Hawel \(Austria\)](#) on 19 Feb 2001, 10:07 p.m.,
in response to message #37 by Rich*

It also looked strange to me, but who am I to explain some people their mother tongue?

Anyway, I think I'll use it in some speeches to put other people to the test. The adverb form sounds even better ("irregardlessly" or "disirregardlessly"). One of the long words we German-speaking people like to see (or to hear).

When some of my friends are unsure about their English speaking performance, I always tell them listening to the Japanese :-)

Sorry, whoever reads this, I didn't want to insult somebody.

Re: Waiting the Nasdaq-here calm down

*Message #39 Posted by [Marx](#) on 19 Feb 2001, 11:07 p.m.,
in response to message #37 by Rich*

db: What do you mean with word "art"?

Re: Waiting the Nasdaq-here calm down

*Message #40 Posted by [db \(martinez, california\)](#) on 20 Feb 2001, 12:52 a.m.,
in response to message #39 by Marx*

marx; that was kind of obscure, wasn't it?. art as in: the brazilian women that i saw were so beautiful that a bad polaroid of 90% of them would belong in an art museum. and i never got any farther than tabatinga, where they are only average. so "art appreciation" includes waiting for a taxi while thanking god for the wonder and diversity of creation. what does this have to do with calculating? not much since i never learned to even learned to count past three in portugese.

Re: Waiting the Nasdaq-here calm down

*Message #41 Posted by [Marx Pio](#) on 17 Mar 2001, 6:02 p.m.,
in response to message #40 by db (martinez, california)*

db: Lesson 1: Um, dois, três, quatro, cinco(1,2,3,4 and 5)

Lesson 2: As mulheres brasileiras são realmente lindas
(brazilian women are really beautiful)

Lesson3: Tell me next time you come here, I live in Manaus, and I think I can lead you to a museum.

just kidding...

Marx

irregardless...disirregardless

*Message #42 Posted by [Dane](#) on 19 Feb 2001, 11:51 p.m.,
in response to message #37 by Rich*

How about plain old regardless, that may even be in the dictionary!

Re: irregardless...disirregardless

*Message #43 Posted by [Greg Harris \(Sydney Australia\)](#) on 20 Feb 2001, 9:03 p.m.,
in response to message #42 by Dane*

The English language is a living language, it evolves and expands every day, dictionaries just slow the natural evolution.

Feel free to invent new words as you see fit!

The technology business has been inventing new words for years, why should we stop now and follow the dictionary?

Re: Waiting the Nasdaq-here calm down

*Message #44 Posted by [Reinhard Hawel \(Austria\)](#) on 19 Feb 2001, 10:07 p.m.,
in response to message #37 by Rich*

It also looked strange to me, but who am I to explain some people their mother tongue?

Anyway, I think I'll use it in some speeches to put other people to the test. The adverb form sounds even better ("irregardlessly" or "disirregardlessly"). One of the long words we German-speaking people like to see (or to hear).

When some of my friends are unsure about their English speaking performance, I always tell them listening to the Japanese :-)

Sorry, whoever reads this, I didn't want to insult somebody.

Re: Do they really want to sell?

*Message #45 Posted by [Pat](#) on 20 Feb 2001, 8:53 a.m.,
in response to message #1 by Marx Pio*

I need some help, my father recently passed away and in his garage was an old Victor adding machine. This thing weighs a ton. I know absolutely nothing about these things. The serial number is 154260. It is black with a pull handle and is approx. 16" by 9.5" You push the numbers then pull the crank. This is definitely no portable adding machine...Help!

Re: Do they really want to sell?

*Message #46 Posted by [Marx Pio](#) on 20 Feb 2001, 6:42 p.m.,
in response to message #45 by Pat*

The only help I can afford is to carry it for you when you move. ;) Pio

Re: Do they really want to sell?

*Message #47 Posted by [GE](#) on 21 Feb 2001, 6:58 a.m.,
in response to message #46 by Marx Pio*

The proper place to talk about this is James Redin's site at www.dotpoint.com/xnumber, in the Forum. Beware, when you submit a message it takes one full minute to process.

Re: Do they really want to sell?

*Message #48 Posted by [Frank Knight](#) on 21 Feb 2001, 9:10 p.m.,
in response to message #45 by Pat*

I have a number of older victors, most have a display and seem to bring more with, but never as much as the shipping. Seems not to be many collectors of the big old printing calcs! Does make them cheap to collect, however, but they eat space and postage. The Victors seem to be among the best made. Regards, Frank

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battery holder for HP 41C

Message #1 Posted by [Christian](#) on 16 Feb 2001, 4:34 p.m.

My HP 41C is dead. I think that my NiCd-package gave up working. Since I do not find my original battery holder for my calculator I am not able to use my HP 41 C any more. Does anybody know where I can get a battery holder for my HP 41C ?

Re: battery holder for HP 41C

Message #2 Posted by [Rene Beltran](#) on 17 Feb 2001, 4:05 p.m.,
in response to message #1 by Christian

Christian:

I heard that you can find it in CALPRO.

Here is the e-mail

sales@calcpro.com

Re: battery holder for HP 41C

Message #3 Posted by [Steve \(Australia\)](#) on 17 Feb 2001, 7:36 p.m.,
in response to message #1 by Christian

Here is a perfect chance to fix something!

The HP41 nicad pack isn't the easiest to open, but isn't too hard either.

Replacement cells are fairly easy to come by, and depending on how handy you are with a soldering iron (you'll need one) you can also modify the charging circuit to prevent nasty surprises later.

I'll have to drag up the circuit diagrams and take some photos to make an article on it...

Re: battery holder for HP 41C

Message #4 Posted by [Reinhard Hawel](#) on 18 Feb 2001, 3:36 p.m.,
in response to message #3 by Steve (Australia)

When you have a better charging circuit, I'd really like to see it. I could design one by myself, but everything I design ends up with containing at least one microprocessor + 15 supporting chips :-)

I have then to minimize it and produce my own chip for these limited space purposes :-)

If you post it fast, I could integrate it into Christians battery pack.

Re: battery holder for HP 41C

Message #5 Posted by [Steve \(Australia\)](#) on 18 Feb 2001, 5:40 p.m.,
in response to message #4 by Reinhard Hawel

It's in the email...

Nothing with more than 3 leads!!!!

Re: battery holder for HP 41C

Message #6 Posted by [Erik Wahlin](#) on 18 Feb 2001, 4:46 p.m.,
in response to message #3 by Steve (Australia)

Steve, what size battery do you use? Can you get the 1/2N in Australia?

Replacement cells

Message #7 Posted by [Steve \(Australia\)](#) on 18 Feb 2001, 5:21 p.m.,
in response to message #6 by Erik Wahlin

I bought a couple of packs of 1/2 N from the US a while ago (in advance of getting a nicad pack of my own to fix) but for other packs that I've fixed, I've used 1/3 AAA

Re: battery holder for HP 41C

Message #8 Posted by [John Robinson \(Australia\)](#) on 18 Feb 2001, 9:07 p.m.,
in response to message #6 by Erik Wahlin

Erik, I recently (within the past year) had two 41c nicad packs rebuilt by a company called Powercell Repackers here in Australia (~\$US20 each). They used N75, not 1/2AA or 1/3 AA, I am pretty sure N75 are the correct cells, and I checked that they could source these cells before I went ahead with the job. I can give you some contact details if you're interested. Cheers, John

Re: battery holder for HP 41C

Message #9 Posted by [Erik Wahlin](#) on 18 Feb 2001, 9:54 p.m.,
in response to message #8 by John Robinson (Australia)

Hi John, I just rebuilt one with 1/2 AA. Talk about a tight fit! The good thing is they have higher capacity than the 1/3 AAA or 1/2 N. Are N75 a metric type size? I will have to see if I can find them here in the US. Erik

Re: battery holder for HP 41C

Message #10 Posted by [Glynn](#) on 18 Feb 2001, 11:30 p.m.,
in response to message #9 by Erik Wahlin

I believe the reference was to Sanyo Cadnica N75P 1/3-N size cells. HP 41c packs I think had 1/2-N cells, didn't they?, but since those had all disappeared, the 1/3-N's were the next best thing.

But even the 1/3-N is dying. Sanyo is/was the last manufacturer supplying "N"-dimensioned NiCd product in the U.S., and a survey of their website seems to indicate that they have dropped all "N" diameters in favor of AA and AAA.

Some spot supplies of the N75P cell may still be around. I bought 16 recently at a Batteries Plus, and had them spot weld tabs on each (I already have a project for them, sorry). Since there are some 170 Batteries Plus stores in the U.S., it might well be worth a sweep in YOUR area.

And as Katie Wasserman has pointed out in her excellent summary (Articles Forum), 1/3-AAA NiCads are smaller and so will fit great. Their capacity, while not as large as the N75P, is probably very much in line with the old 1/2-N NiCd cells that were manufactured 25 or more years ago...

By the way-- other configurations of batteries may prove entertaining, if you're a designer-type. Varta makes button-cell NiCds; paralleling a couple of these to increase capacity and so forth, you might come up with an optimal packing of that plastic shell... :-)

Re: battery holder for HP 41C

*Message #11 Posted by [Erik Wahlin](#) on 19 Feb 2001, 1:32 a.m.,
in response to message #10 by Glynn*

I made a mistake in my earlier post. I used 1/3 AA NiCads. To get these to fit, I had to mill out the inside of the plastic case, amongst other things. The great thing about using these batteries is they provide 110 mAh each for a total 440 mAh. This is more than twice the capacity of the 1/3 AAA. The big negative is it was a very difficult rebuild.

Re: battery holder for HP 41C

*Message #12 Posted by [Viktor Toth](#) on 19 Feb 2001, 9:03 p.m.,
in response to message #11 by Erik Wahlin*

> they provide 110 mAh each for a total 440 mAh

Erik, since the cells are connected in series, you'd still only get 110 mAh; but you get that 110 mAh at the nominal voltage of 5V instead of 1.25V.

Viktor

Re: battery holder for HP 41C

*Message #13 Posted by [Reinhard Hawel \(Vienna, Austria\)](#) on 18 Feb 2001, 3:20 p.m.,
in response to message #1 by Christian*

Hi Christian

Since you live (or at least work in Vienna - University of Vienna) we could meet and rebuild the battery pack. It's not that hard, if we try to get the next matching batteries. The originals are not available anymore, so we'll have to replace them with another type.

I'm working in the TU Wien (University of Technology, Vienna) and you can reach me (Wed-Fr) using this phone number 58801/42811 .

It's an easy fix, as soon as we have the accus I think it is done in minutes. I'll try to find out where to get them fast. I would have answered in German, but don't consider this being polite in

an English message board.

If you send me an email (hawe1@teleweb.at, checked three or 4 times everyday) you can get my mobile number too.

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hp 41CX

Message #1 Posted by [thib](#) on 16 Feb 2001, 1:34 p.m.

Hello,

My beloved HP-41 CX died today! It started loosing time and date one month ago. Then making errors with the card reader (stopping in the middle of a card, it was necessary to remove the battery pack to start it again...memory lost and so on...). Then it occasionnaly resetted the time and date and nothing else. Today it just stopped in the middle of a calculation : $\ln 2 = 0.69$ and then no keyboard response...I removed the battery pack, put it back, got some really strange signs on the LCD and it eventually did a memory lost. I started it again but it soon fails... Any suggestion is welcome! Thib

Re: hp 41CX

Message #2 Posted by [Erik Wahlin](#) on 16 Feb 2001, 2:42 p.m.,
in response to message #1 by thib

That sounds like the battery connection block. There probably is poor contact somewhere. Is the battery contact terminals ok on the block? If so, the place where the block makes contact inside the calculator may be faulty. What I usually do is remove the back cover with block and clean the lower contacts. Sometimes kind of pinching the contacts into a slight point helps. The spongy material underneath loses its springyness overtime.

Yeah, i 'd also thought about a battery problem

Message #3 Posted by [Thibaut.be](#) on 16 Feb 2001, 2:48 p.m.,
in response to message #2 by Erik Wahlin

I suggest you, in addition to Erik's recommendation, to open the calc, take the sponge contats, and try to enlarge them slightly in inserting a needle between the sponge and the contacts (of course to remove it afterwards). Take this opprtunity to clean all contacts.

Good luck !

Re: Yeah, i 'd also thought about a battery problem

*Message #4 Posted by [bill duncan](#) on 16 Feb 2001, 7:46 p.m.,
in response to message #3 by Thibaut.be*

...with something non-abrasive, like a pink eraser. I've seen too many people use something like sandpaper and take off the plating for contacts...

thank you all!

*Message #5 Posted by [thib](#) on 17 Feb 2001, 6:55 a.m.,
in response to message #4 by bill duncan*

Thank you all! I'll try to clean the internal contacts and I'll give you some news!
Thib

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Where can get info on Technical Applications Manual

Message #1 Posted by [Mike Burns](#) on 15 Feb 2001, 8:22 p.m.

Seeking all people who have info & accessibility to this Manual: Step by Step Solutions For Your HP Calculator Technical Applications HP-19B & HP-27S Reorder #00027-90053 Printed in Canada Nov198 ISPN#088698000205

Right here

Message #2 Posted by [Jim L](#) on 15 Feb 2001, 8:38 p.m.,
in response to message #1 by Mike Burns

I see that one listed on the CDs available on this site.

See <http://www.hpmuseum.org/software/swcd.htm> for the whole list.

Re: Right here

Message #3 Posted by [Mike Burns](#) on 16 Feb 2001, 1:06 p.m.,
in response to message #2 by Jim L

Thanks Jim L. Maybe you or some one out there can help me further. Re: calculator manuals CD's 1-3 where can I locate a table of contents for these manuals & which Reference Manual, Advanced Functions Manual, and Technical Applications Manual would be most suitable for a HP17BII especially the equation solver. I will give an example of an equation on a new posting soon. I have combined 2 equations into one.

Equation problem using HP17BII

Message #4 Posted by [Mike Burns](#) on 16 Feb 2001, 2:12 p.m.,
in response to message #3 by Mike Burns

The original book equation for (speed walking aerobic fitness points) $PT=(D \times 60/T)-1) \times D-1$ e.g. $(2 \times 60/30)-1) \times 2-1=5$ points Where PT =points, D =distance(2miles), & T =time (30 minutes). My equation: PM =seconds per mile(based on 13 minute miles eg 13:21 where $PM=21$ seconds) I used an equation for distance to combine two equations into one: $D=(T/(PM/60+13)) \times 60$. Therefore; $PT=(T/(PM/60+13) \times 60)/T-1 \times (T/(PM/60+13) \times 60)-1$. When working out equation in a step by step procedure it only works out properly up to $PM=(T/(PM/60+13) \times 60)/T-1$ when I put the rest of the equation in the answer is way off. What am I doing wrong?

A guess

Message #5 Posted by [Dave Hicks](#) on 16 Feb 2001, 3:26 p.m.,
in response to message #4 by Mike Burns

I don't really understand what you're doing but I think you might want:

$$PT=((T/(PM/60+13) \times 60)/T-1) \times ((T/(PM/60+13) \times 60)-1)$$

That's what you had with some more parens where I think you might need them.

Or perhaps

Message #6 Posted by [Dave Hicks](#) on 16 Feb 2001, 3:42 p.m.,
in response to message #5 by Dave Hicks

$$PT=((T/(PM/60+13) \times 60)/T-1) \times (T/(PM/60+13) \times 60)-1$$

This one most closely matches your original expression.

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HP-91 power supply problems

Message #1 Posted by [Chris Dalla](#) on 15 Feb 2001, 11:48 a.m.

Okay, so here's the thing: I've got this HP-91 that I picked up at the flea market a while back, and it clearly wants to work: Display comes up nice and bright, all the keys respond (too well, in fact: the keybounce is awful), everything's happy. Until I light too many segments of the display. As soon as I do that, the calculator resets (the display goes dark for a moment) and comes back up with 0.00. I'm pretty sure it's a power supply problem and not some sort of bizarre short in the display module because the reset point is clearly linked to the amount of power being drawn: I can load the display up with 1's, but I can only get about four 8's on the display before it resets. In addition, setting the printer switch to ALL or NORM or pressing one of the buttons that would cause the printer to try and print causes a reset.

Now, having said all that, what I'm ideally hoping to find is a schematic of at least the power supply section of the calculator...at worst, I'd just like to know for sure what the 3-pin semiconductor with the heat sink tab is (since all the other parts in the power supply are discrettes, I can just measure the ones that aren't marked to find out what their values are). If anyone can help, I'd be grateful.

-Chris

Re: HP-91 power supply problems

Message #2 Posted by [Viktor Toth](#) on 15 Feb 2001, 5:27 p.m.,
in response to message #1 by Chris Dalla

Chris,

That large semiconductor is just a plain NPN power switching transistor. I don't remember its pinout; I do remember that I was able to replace it with a 2N3053, which worked fine, but was too large (case didn't close), so I used a power Darlington instead, and it's working great.

The function of this transistor is to let through extra current during times of heavy loads, such as printing, so your assumption that it's the one causing the problem is quite reasonable.

The power supply schematic, by the way, is the same as that of the HP-97, which can be found on the MoHPC CD-ROM set.

Viktor

Re: HP-91 power supply problems

*Message #3 Posted by [Chris Dalla](#) on 17 Feb 2001, 5:30 p.m.,
in response to message #2 by Viktor Toth*

Viktor:

Excellent...that's what I was hoping (both about the component and the schematic: I ordered the CDs, they're just a bit behind in production). Once I figure out what's going on, I'll post a follow-up.

-Chris

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can't shake the guilt...

Message #1 Posted by [Michael Hyche](#) on 15 Feb 2001, 9:16 a.m.

I was poking around ebay yesterday and ran across this... <http://cgi.ebay.com/aw-cgi/eBayISAPI.dll?ViewItem&item=555478840> which I thought was pretty cool - it would nicely complement the HP Corvallis boxer shorts that I picked up about 6 months prior ;). The only problem was that the high bidder's handle was wlodek.mj. First I thought it was some very enthusiastic HP collector paying homage to the esteemed M. J. Wlodek, but I looked at the email address (wlodek@hpc.org) and it appears to indeed be "the man". To make a long story short, I sniped (I bid 11 min before auction close - not a ruthless snipe, but snipe nevertheless) him, and now I feel stupid/guilty/etc. So you think what I did was wrong? Please help me earn absolution (if justified)!

Re: can't shake the guilt...

Message #2 Posted by [Thibaut.be](#) on 15 Feb 2001, 9:39 a.m.,
in response to message #1 by Michael Hyche

Excuse me,

who is this Mr Wlodek ? I think I've heard about him before. Isn't he the "inventor" of RPN ?

This question because he contacted me about calcs I am currently selling...

I'm sure Wlodek will enjoy this message...

Message #3 Posted by [Jim L](#) on 15 Feb 2001, 11:56 a.m.,
in response to message #2 by Thibaut.be

unless he thinks it's a reference to his age! :-)

Wlodek has written many great books on HP calcs and organized clubs and meetings etc. However, I think you may have him confused with Jan Lukasiewicz who would be around 120 years old now.

Re: I'm sure Wlodek will enjoy this message...

Message #4 Posted by [Michael H.](#) on 15 Feb 2001, 12:15 p.m.,
in response to message #3 by Jim L

Thanks for "getting" my post...my intention was NOT to open the sniping debate again. I guess it was just a bad stab at humor.

Sniping, and, yes, Wlodek did enjoy this message...

Message #5 Posted by [Wlodek Mier-Jedrzejowicz](#) on 9 Mar 2001, 4:53 p.m.,
in response to message #4 by Michael H.

1. Well, I've followed this thread with interest - and amusement! Amazement too, that anyone could have thought RPN was invented this recently. Actually, an uncle of mine, when he was at university, attended lectures by Jan Lukasiewicz, so it was not that long ago. 2. Michael Hyche's was not a ruthless snipe - you won it fair - don't worry :-) I would have liked it, but if I had really wanted it, I would have bid more. 3. One point I would like to add - when an HP calculator book/brochure is offered on eBay and I do not have it, nor is it on the Museum's CD-ROM collection, I bid on it, and if I get it I offer copies/scans to the other bidders, and to Dave Hicks for the Museum. It would be nice if those of us who visit here could make an agreement to do this. But I don't want this to result in only one person bidding on brochures, and denying sellers a good price! Comments?

Re: nothing wrong with sniping

Message #6 Posted by [Tom](#) on 15 Feb 2001, 10:12 a.m.,
in response to message #1 by Michael Hyche

I hope this does not touch off another "snipe" thread but I find nothing wrong with sniping.

- 1) It is done at live auctions all the time. Often people don't bid until the low bidders are through.
- 2) The only people that complain are the ones that are ticked because they tried to get something cheap and did not.
- 3) If you snipe and don't bid more than an item is worth, the low bidder would not have gotten it anyway, even if you bid early.
- 4) What sniping does is keep the price from skyrocketing out of sight. NO MATTER what bid you put, withing reason, it will NEVER win, if you place it early. There is always someone out there in the world that says "if it's worth that to him, it's worth that + \$2, to me". So, sniping is

the ONLY way to ever get an item without bidding a ridiculous bid.

Re: nothing wrong with sniping

*Message #7 Posted by [D. Banks](#) on 15 Feb 2001, 11:12 a.m.,
in response to message #6 by Tom*

I keep losing to sniping, and it kind of makes me grumble, but what the heck.

I always try to make my initial bid the maximum I'm willing to pay. If I get outbid 3 days or 3 seconds before the end of the auction, it doesn't matter.

It's just that sometimes, I think I'm gonna get it and... well, I would have rather known 3 days ago.

Although the other day, I did bid too low on something, and didn't realize it until I got hit by a 10-second snipe. Grrrr.

Re: nothing wrong with sniping

*Message #8 Posted by [Thibaut.be](#) on 15 Feb 2001, 11:47 a.m.,
in response to message #7 by D. Banks*

Well... sniping is bad, but as Tom said, it's the only way to get something you really want on ebay that other people may want too.

Last time I did put a bid on an item that I really wanted, I put it very high to systematically outbid overbidders. Believe me or not, someone did bid on this item above my max and it sold for 2x the retail price....

This is one limit of ebay (not for them though...)...

What I have always done in to first propose for 10 days my stuff for sale on this site and if unsuccessful to list them on ebay.

As a buyer, If a fellow collector wants the same item, I drop him a mail asking him if he's really interested...

Re: That is a very poor strategy

*Message #9 Posted by [Tom](#) on 15 Feb 2001, 11:54 a.m.,
in response to message #8 by [Thibaut.be](#)*

Your strategy: "Last time I did put a bid on an item that I really wanted, I put it very high to systematically outbid overbidders. Believe me or not, someone did bid on this item above my max and it sold for 2x the retail price...."

That is because he did the same thing as you did. He did not realize that you overbid and was just using "your tactic"

This may sound good when you believe that people will simply bid a few dollars above you and you are protecting against a \$2 or \$3 loss. But it is a POOR strategy. I saw you bid \$200 on something once that was only worth less than \$100.

Why is that a problem? Because it leads to a lot of no-pays. You may pay but many don't when they get caught. What's worse is that people identify you as such a person and know that you will bid \$200 on something that is worth \$100. So they bid \$199 to force you to take it in the shorts.

The ONLY sound strategy is to bid only what you think the maximum value is to YOU, and NO MORE.

Re: That is a very poor strategy

*Message #10 Posted by [Thibaut.be](#) on 15 Feb 2001, 12:11 p.m.,
in response to message #9 by [Tom](#)*

Yes, indeed, I know this is a poor strategy, but the problem is always the same : scarcity.

Now I'm far more reasonable, and mostly bid the maximum worth to me. I always bid once at a low price, so that the listing appears in my "bidding" section and try to bid at the latest moment.... even if most of the time I'm sleeping when auctions end.

In addition, I try not to bid rounded numbers, so that the chance to guess my bid becomes smaller.

Now I understand why sometimes I had to pay exactly my bid.

I totally agree with your strategy, but often you have to leave some items you

really wanted to other people... so the rule is often "money talks"...

Re: nothing wrong with sniping

*Message #11 Posted by [D. Banks](#) on 15 Feb 2001, 12:55 p.m.,
in response to message #8 by Thibaut.be*

Well, the question is, how do you identify the person as a "fellow collector?"

It seems to me that if someone is bidding significant \$\$ on a 20-30 year old calculator, it's probably a collector, "fellow" or otherwise.

Re: nothing wrong with sniping

*Message #12 Posted by [Thibaut.be](#) on 15 Feb 2001, 1:27 p.m.,
in response to message #11 by D. Banks*

I meant any member of this community, I guess that 95% of the collectors have been browsing this very site form time to time.

Re: nothing wrong with sniping

*Message #13 Posted by [Dane](#) on 15 Feb 2001, 7:27 p.m.,
in response to message #12 by Thibaut.be*

Atleast sniping is honest, unless you don't pay. I have a bigger problem when someone makes a high opening bid then never bids again or makes a low bid on a "buy it now" and does the same. I would suspect shilling but I don't think they could know that many different people, I really think it is someone trying to manipulate the price whenever he sees an item that is below his "market price". I have seen one person do this many times. It doesn't take a genius to know your not going to get a pristine 41cx for \$5, either get in or stay out and leave it to the serious bidders. Snipe if you want to, if only one person could bid it wouldn't be an auction.

Buy it now

*Message #14 Posted by [Nenad Vulic \(Croatia\)](#) on 16 Feb 2001, 5:02 a.m.,
in response to message #13 by Dane*

Would somebody explain what does the expression "buy it now" mean in terms of E-bay? Thanks

Re: Buy it now

*Message #15 Posted by [Viktor Toth](#) on 16 Feb 2001, 9:23 a.m.,
in response to message #14 by Nenad Vulic (Croatia)*

"Buy It Now" is a new eBay feature. A seller may specify a "Buy It Now" price for an auction; a buyer then has the opportunity to buy the item right away at this price instead of going through the bidding process. Unfortunately, as soon as a single bid is submitted, the "Buy It Now" option disappears.

Viktor

I prefer ebay (am I crazy?)

*Message #16 Posted by [Steve \(Australia\)](#) on 17 Feb 2001, 2:25 a.m.,
in response to message #8 by Thibaut.be*

I don't buy too much from the classifieds because people generally ask for "offers".

I don't want to pay too much, and I don't want to insult people by offering too little.

When I buy at auction, I know that my bid cannot be an insult, and the final price (if I win) represents an amount I am willing to pay.

Sure, I may have paid more than necessary for some things, but at the time the price seemed reasonable. There is no point complaining if you get an HPxx at auction for \$100 and the next day pick up 10 for \$20 from a thrift shop.

I must say that I far prefer dealing with other collectors if at all possible. But many ebay sellers (as opposed to other collectors) seem to be nice guys (and gals) too.

I don't understand your distinctions

*Message #17 Posted by [Jim L](#) on 17 Feb 2001, 1:46 p.m.,
in response to message #16 by Steve (Australia)*

To me:

"best offer" = "auction"

"offer" = "bid"

How can one be more offensive than the other?

The only distinction I see is that some "best offers" are run like sealed bid auctions which have plusses and minuses. For example, you may pay a greater increment over the 2nd highest bidder, but the final price may still be lower because you don't get the "I'll pay \$5 more than him" effect.

Re: I don't understand your distinctions

*Message #18 Posted by [Steve \(Australia\)](#) on 17 Feb 2001, 6:56 p.m.,
in response to message #17 by Jim L*

Put it this way. If someone asks \$20 for an HP16C and I accept that price, and later they find they could have sold it for much more, then tough.

But if someone has an HP16C in their hand and they ask me what I'll pay for it, I would feel very uncomfortable offering \$20.

They might just laugh and go away (because they wanted *at least* \$40, or maybe they knew it's true worth). And if they gladly accept, they might go away happy until they find out that a collector who *knew* what the calculator was worth just offered them peanuts.

My ethics are that I would far prefer to pay a fair price and have the seller remain happy with me than scam a really good deal and leave potentially bitter feelings.

My method of dealing with "best offer" and the like is to ask the seller what they were expecting (or wanting) to get for the item. If I'm prepared to pay that, then that's what I offer. If not I walk away. I suppose the only time I haggle is if I've bought a whole stack of things, but then many sellers have offered that to me anyway (if you buy this and this I'll throw in that).

Maybe that means I have paid more than some others when buying directly from people, but I feel good about the purchases, and for me that counts for a lot too.

An auction allows me to bid low without ethical concerns, because the seller has placed the item in an open market, and others are free to bid higher if they please.

On another topic, the simple answer to the "why do people bid low and never bid again", e.g. \$4 on an HP41 (knowing they'll never get it for that) is simply so that they can have ebay "remember" the item for them. If they come back near the end of the auction and find the price is too high for them they don't bid again. I find that the number of low and/or early bids is a good indication of how much excitement there will be at the end of an auction. I tend to keep away from items that were listed for 1c and now have 10 bids on them after 1 day, but the price is only \$20, and I would expect the price to be far higher. Typically nothing much happens for 8 days, then on the last day/hour/minute the price spirals upward to unimaginable heights as 2 or 3 of these bidders come back.

Re: I don't understand your distinctions

*Message #19 Posted by [Dane](#) on 17 Feb 2001, 7:33 p.m.,
in response to message #18 by Steve (Australia)*

Steve, I agree with you not wanting to insult someone or feeling like you've pulled something over on them. I have bid low on a item so I can keep track on it too. The one I dont understand is bidding high first and then disappearing? I have seen one person do this several times and then disappear like they are trying to set a high price, looks like shilling to me but I've seen this person do it so many times that I have a hard time believing they have that many aliases or know that many different people around the country. If it was someone new to ebay I would think they don't understand the maximum bid but this person has bought hundreds of items.

Re: I don't understand your distinctions

*Message #20 Posted by [Jim L](#) on 17 Feb 2001, 9:18 p.m.,
in response to message #18 by Steve (Australia)*

"An auction allows me to bid low without ethical concerns, because the seller has placed the item in an open market, and others are free to bid higher if they please."

Sorry Steve, I thought you were talking about someone placing a "Make Offer" ad in the classifieds here, rather than a private sale.

I can understand your concern when dealing with someone in private, but then I feel you should just offer what it's worth *to you* unless you plan to resell it in which case I could see some ethical concerns there.

I've made offers out of the blue to total strangers. Some people thought I was goofy but I don't remember anyone acting offended. :-)

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NiCad battery Questions

Message #1 Posted by [Dale Richmond](#) on 14 Feb 2001, 2:55 p.m.

I was in the process of rebuilding 5 82001A/B battery packs this weekend and wondered if the replacement NiCads, which are rated for 700 milliamp-hours offer any improvement in operating time over the original ones. Does anyone know the ratings of the original AA NiCads? I also have 2 batt packs from 1985 and one from 1989 that have not been used and appear to hold a charge like they were new. Is there any problem with using these or do they pose additional risk to the calculator because of their age. I am most worried about leakage due to the early manufacture date. And finally, will storing NiCads in the freezer when not in use prolong their life. I typically use 2 batteries and the other ones just sit on the shelf unused so I thought that perhaps they could be frozen when not used. Maybe this is a crazy idea but since the production of electricity in a battery is a chemical reaction at the colder temperature should slow down the self discharge but will this process prolong its useful life? Should the packs be frozen in a charged or discharged state? Thanks in advance to your thoughts Dale Richmond

Re: NiCad battery Questions

Message #2 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 14 Feb 2001, 7:39 p.m.,
in response to message #1 by Dale Richmond

I think the original NiCd batteries that HP used on the Classics and Woodstock series were 500 mAH, so the newer 700 mAH batteries should offer some more operating time (one may assume that the time will increase as per the 700/500 ratio, but few things are linear these times...).

I think you should store your batteries charged and in a fresh place, but never heard anything serious about freezing them, try to obtain credible advice on this!

Re: NiCad battery Questions

Message #3 Posted by [Reinhard Hawel](#) on 14 Feb 2001, 9:10 p.m.,
in response to message #1 by Dale Richmond

You might want to try these:

[http://www.conrad.at/cgi-bin/conshop/ConShop.pl?TK_PAR\[USER_ID\]=0204052880982201667&TK_EV\[SHOWPAGE\]=&TK_PAR\[PAGEID\]=156900&TK_PAR\[MEDIUM\]=62](http://www.conrad.at/cgi-bin/conshop/ConShop.pl?TK_PAR[USER_ID]=0204052880982201667&TK_EV[SHOWPAGE]=&TK_PAR[PAGEID]=156900&TK_PAR[MEDIUM]=62)

(sorry for the long link)

1000mAh min. isn't bad (Type P100 Mignon*).

You can take any battery, that's 50 x 14 in the "Abm. mm" column (This is AA for our U.S. friends).

You might also look around in model car stores. These need any capacity you can get and they maybe have even better NiCads. NiMh isn't recommended with "normal" NiCad chargers like in the HP calcs, because of their heat developed during certain conditions in the charging process.

I re-celled my 82161A cassette drive (82033A batt. pack) with Panasonic "RED-AMP" Nicads abt 15 years ago. These can live with the pulse currents draen by the drive motors (other NiCads died rather fast). The RED-AMPS were designed for model car applications.

This battery pack lasted til today (though I don't use the cassette drive too much nowadays).

Sure, that all these specialized accus are not too cheap, but if they save you opening the pack again in 3 years, you will be glad...

Sorry, no info about freezing Batteries. I think you should consult the datasheets. I'm pretty sure you can find them from the large companies, like Panasonic, Varta or Sonnenschein. There might be lot's of others manufacturers and I don't want to highlight some of them. These are just what I remembered in some seconds.

Re: NiCad battery Questions

Message #4 Posted by [Rick M.](#) on 14 Feb 2001, 10:58 p.m.,
in response to message #1 by Dale Richmond

I believe that storing alkalines in the fridge prolongs their life. I never tried the freezer.

NiCads are much less temperature sensitive. That's why I use NiCads in my camera outside in the winter. That might mean that the fridge or freezer will have little effect on their self-discharge rate and corrosion rate too. This is pure guessing though.

Re: NiCad battery Questions

Message #5 Posted by [Tom \(UK\)](#) on 15 Feb 2001, 12:40 p.m.,
in response to message #1 by Dale Richmond

I rebuilt a classic series battery pack a year ago. After ripping off the cardboard tube from around the dead batteries the writing on the side said 450mAh, I don't know when the original was made. One problem with higher capacity Nicads is the HP standard charger is now a bit slow and to get a full charge can take 24 hours (and my little transformer gets quite hot). Does anyone know what the charging rate is for classic series transformers? (I'd guess about 50mA)

As far as freezing the battery packs goes I would not do it unless the storage temperature range from the manufacturer indicates it is safe to go down to the lowest temperature of your freezer.

I have been told the best life can be extracted from Nicads by using them. I think this is because the self discharge will eventually kill the Nicad if it is not topped up on a slow charge every so often. So cycle the use of each battery pack in your calculator.

PS Books have been written on the care and use of batteries and I don't pretend to know what is best in each case. I use these simple rules of thumb for Nicads: Don't charge at too high a rate (especially repeatedly), don't leave them flat for too long, don't leave them in equipment that is not going to be used for a long time (month+).

Re: NiCad battery Questions

*Message #6 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 15 Feb 2001, 10:39 p.m.,
in response to message #5 by Tom (UK)*

When simple charging circuits are used (I mean, there is no feedback mechanism that detects the battery status and adjust the charging current), the rule is to use a charging current that is 10% the rated capacity. So, for a 500 mAh battery, the charging current will be 50 mA, which is more or less what a typical HP 21/22/25 delivers to its batteries.

We may assume that, in such case, the charging time should be 10 hours, but things are not so simple. Fully charging a battery usually takes up to 40% more than such simply calculated value; on the other hand batteries are usually recharged while there still is some remaining charge on them. It usually ends in 14 hours for a fully discharged battery, and some 8 hours for a normal recharge.

If you replace the original batteries with newer, more capable units (700 to 1000 mAh), charging time will also increase.

Re: NiCad battery Questions

*Message #7 Posted by [Stefan Vorkoetter](#) on 15 Feb 2001, 2:03 p.m.,
in response to message #1 by Dale Richmond*

For what it's worth, all my HPs are running on Sanyo 1100AAU cells. These are 1100mAh AA sized cells. The cells I recently removed from an old HP-21 were 475mAh. In any case, I use both my HP-32E and 34C almost daily, and only need to recharge them about once a month.

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Frustrations...

Message #1 Posted by [John](#) on 14 Feb 2001, 2:14 p.m.

This last weekend, I was 'stuck' out in the boondocks, without my HP that normally goes with me everywhere. Then, for a somewhat complicated calculation that popped up, I was also 'stuck' with the only available calculator at the moment, namely an algebraic one. The many frustrations I went through, with wrong sequences, wrong key strokes, well you can just imagine - I'm probably too steeped in the RPN world...

THEN, I happened to think - is that the same thing that happens to people who are SO used to the other side of 'perfection'? And which might steer them away from RPN??

John

Re: Frustrations...

*Message #2 Posted by [Frank Knight](#) on 14 Feb 2001, 6:16 p.m.,
in response to message #1 by John*

When I first got a scientific in '75 it was algebraic, but then as soon as I could justify I got an HP in late 76, and I forced myself to use both interchangeably by taking different ones different days and swiching around on homework. As TI moved to their version of AOS in what, 77 or so it added a bit of further complexity to remaining "bilingual" as did efficient keystroke programming.

Re: Frustrations...

Message #3 Posted by [Jim L](#) on 14 Feb 2001, 7:19 p.m.,
in response to message #1 by John

I had been using algebraics for years before RPN but I found the transition very easy. I've found it very hard to go back though. I can enter an expression on paper into an algebraic just fine but then when I realize I need to multiply that result times 5 I always press 5 x and then I look at it wondering where my answer is.

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Re: HP67 - Card Reader Problems

Message #1 Posted by [Matt Kernal \(US\)](#) on 14 Feb 2001, 12:04 p.m.

Yes, the problem you describe is a disintegrating drive wheel. Even though your 67 has been taken care of, the rubber breaks down with age and becomes gooey (or sticky).

Using the article Warren is referring to (Steve Loboyko's "How to Fix Classic Models"), I just replaced my first 67 card reader drive wheel last week. I varied from his instructions by using two rubber O-rings instead of the fuel line tubing he suggests. You might have trouble finding the same O-rings in Germany (1/4 inch Outside Diameter by 1/8 inch Inside Diameter which means 1/16 inch thickness).

The only problem I found in Steve's procedure was the absence of any description of removing the Pin which holds the drive wheel/worm gear in the plastic frame (where the motor mounts). This pin "appears" to be a plastic slotted screw head that "looks" like you should turn to unthread it, but it is actually a pin that needs to be pulled to free the drive wheel/worm gear from the frame.

For a better feel of what I'm talking about, first look at this photo of a completed HP41 card reader (similar to a 67 CR) repair with O-rings, <http://www.hpmuseum.org/guest/card/cr5.jpg> . Notice what appears to be a slotted screw under the black and red wires. This is the pin that must be pulled to remove the drive wheel/worm gear, as shown in this photo, <http://www.hpmuseum.org/guest/card/cr4.jpg> . These photos can be found in the article "Repairing the HP 82104A Card Reader" at <http://www.hpmuseum.org/repair.htm> .

As other people have said, accessing the two screws under the back label of the calculator will be the most painful part of the job, because you have to disturb the label to remove it (especially painful on a good condition calculator). And it never looks original when you put it back on (with rubber cement). I used a hair dryer to loosen the adhesive and a long flat knife blade to lift the label without creasing it. Sorry this message is so long.

Good luck, Matt

Re: HP67 - Card Reader Problems

Message #2 Posted by [Hans Brueggemann](#) on 14 Feb 2001, 12:45 p.m.,
in response to message #1 by Matt Kernal (US)

something about the tiny plastic bolt with a slot that 'looks like a screw': actually, you do adjust the pinch roller pressure with it. you can either achieve quite a strong 'pull' on the cards or, reduce mechanical wear on the driving parts as far as possible and still maintain proper card intake.

after reassembling is done, test the drive with a card. then, turn the bolt a quarter turn in one direction and repeat the test. if the pickup is stronger now, you might turn the bolt 1/2 into the opposite direction and test again. if it is still too strong, just give it another quarter turn into the same direction. just keep in mind: one full turn into any direction will travel through all possible adjustments, so there is no difference in effect between one full turn and two full turns. cheers,
hans

Re: It's more than a shaft

Message #3 Posted by [Mike](#) on 14 Feb 2001, 2:40 p.m.,
in response to message #1 by Matt Kernal (US)

Comment on this statement: "The only problem I found in Steve's procedure was the absence of any description of removing the Pin which holds the drive wheel/worm gear in the plastic frame (where the motor mounts). This pin "appears" to be a plastic slotted screw head that "looks" like you should turn to unthread it, but it is actually a pin that needs to be pulled to free the drive wheel/worm gear from the frame."

This is more than just a shaft. This shaft has a slot because it is used to adjust the pressure on the drive wheel. I have seen readers NOT work, if this is not properly adjusted. Also, this adjustment may be more or less required, depending on the material that you use for the wheel.

Thanks Hans and Mike, I didn't know that.

Message #4 Posted by [Matt Kernal \(US\)](#) on 15 Feb 2001, 12:28 p.m.,
in response to message #1 by Matt Kernal (US)

Thanks for the info on adjusting the drive wheel pressure by turning the pin. How come I didn't see this anywhere else (until you guys commented on this detail)? I'm curious, is this documented anywhere, or was the slot a giveaway (as it's a common adjusting device to you mechanical folks)? In order for the pin/shaft to vary drive wheel pressure, it must be eccentric (non-symmetrical), right?

I need to correct my previous statement where I used the term "drive wheel/worm gear". I was

trying to indicate the assembly that consists of the drive wheel and driven gear that are mounted on the same shaft. This driven gear is technically a "helical" gear, as the teeth are at an angle to it's axis (vs. a "spur" gear where the teeth are parallel to it's axis), and it meshes with the actual worm gear.

The "worm gear" itself is the straight, spiraling gear that is part of (and parallel to) the motor shaft assembly.

I must have been lucky because my card reader works even though I didn't know about making this pressure adjustment.

Thanks again, Matt

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Battery for 88014B used in 9114B Disk Drive?

Message #1 Posted by [Philip Reagan](#) on 14 Feb 2001, 10:56 a.m.

Does anyone know of a source for the Sealed Lead-Acid battery that is in, at least, the 9914B Disk Drive. The HP Part Number for the battery module is 88014B and it uses a battery with the number: LCR-226P (6V, 2.4Ah/20hr. The replacement is easy but finding the battery is not. I found one on the shelf at a Batteries Plus store but haven't found it elsewhere. DigiKey said it is discontinued and they couldn't recommend a replacement.

In addition, has anyone successfully reconditioned a Lead-Acid? Thanks

Re: Battery for 88014B used in 9114B Disk Drive?

Message #2 Posted by [Victor](#) on 15 Feb 2001, 3:30 a.m.,
in response to message #1 by Philip Reagan

I was able to find one at Battery Station. It was a PowerSonic PS-628, and it fit in the battery case and seems to work well.

Try the following URL:

<http://www.batterystation.com/gelcell.htm>

Re: Battery for 88014B used in 9114B Disk Drive?

Message #3 Posted by [Philip Reagan](#) on 15 Feb 2001, 12:45 p.m.,
in response to message #2 by Victor

Thanks. I'll give it a try and let you know. I've got about 5 of these I need to repair.

Re: Battery for 88014B used in 9114B Disk Drive?

*Message #4 Posted by [Raymond Hellstern](#) on 16 Mar 2001, 7:43 p.m.,
in response to message #3 by Philip Reagan*

Hello,

the replacement type is 'Panasonic LCR 6V2.4P'. I was able to get one of these at <http://www.battery-kutter.de> some time ago.

Raymond

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HP67 - Card Reader Problems

Message #1 Posted by [Jochen Lange](#) on 14 Feb 2001, 3:43 a.m.

Hi there!!!

My name is JOCHEN from GERMANY and I'm looking for a solution concerning the following problem:

I bought an unused HP67 before some weeks. The calculator looks very good like freshly made from the factory. At the beginning the card reader worked fine, but after approx 20 readings the reader starts to transport the last card very slow with the result that the 2nd side was not readable because the motor speed was near "0" (zero) - or to say it with other words: the card reader motor goes stuck!!! For the first time I thought, the battery pack is empty but now it is clear that the source of the problem is the transport mechanism. At the moment the motor is running but it's not possible to read a card because the mentioned mechanism don't pick up the card - it's only possible to insert the card and to start the motor - nothing more!!! I think the problem is the word "unused"!!! The preowner stored the calculator very safe for a long time and used the card reader only from time to time - I recognized on several cards (on the magnetic side) a substance, maybe it comes from the lubrication of the card reader. The substance was only removeable from the magnetic cards with technical alcohol. Long speech (sorry...), short sense: WHO CAN HELP???

By the way: I believe it's a mechanical problem, but is it possible to solve it via DO IT YOURSELF??? My education as electronic engineer does not include good mechanical skills so it would be great to find someone or a company which is able to repair the calculator.

Greetings from Germany,

JOCHEN

Re: HP67 - Card Reader Problems

Message #2 Posted by [Rafa, Spain](#) on 14 Feb 2001, 12:12 p.m.,
in response to message #1 by Jochen Lange

Yes this problem is the most common with HP card readers. There is a roller made from rubber inside the calculator that grips the card and passes it through. Unfortunately this kind of rubber disintegrates with the time. I would counsel you not to make any further use of the card reader while it isn't repaired --some parts could be damaged due to the disintegrating rubber messing all around and causing the card reader parts to get stuck.

Re: Very Common Problem

Message #3 Posted by [Mike](#) on 14 Feb 2001, 2:35 p.m.,
in response to message #1 by Jochen Lange

This problem exists in practically all 67s that have not already been repaired. Even if a person tells you that it works fine, they don't always test it enough times.

I once asked a person on eBay that claimed that the reader worked, to run a card through the reader a couple of dozen times. He came back to me and said, "you are right, it now does not work".

The good news is that if the motor turns, you can have it repaired. Just make sure you send it to someone who knows what they are doing.

Re: Very Common Problem

Message #4 Posted by [alditenen](#) on 20 Mar 2001, 9:17 p.m.,
in response to message #3 by Mike

yes, it is a very common problem..... I bought my hp41 in 1980 and I have to repair the card reader in 2 oportunities.....!!!!

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Information... OR... Rumor-mongering???

Message #1 Posted by [Dan M \(New England, USA\)](#) on 12 Feb 2001, 7:11 p.m.

hp.com shows the 32sii (recently discussed in this Forum as a decent RPN calc) as "out of stock."
What does this really mean?

What with all the discussion, and with the sad end of HP-Calcs-with-RPN seemingly ever nearer, I decided to get a 32sii for knock-about, every-day use. During this process, I made some interesting observations, including:

1. hp.com shows the 32sii as "out of stock." The 30s is available for purchase, i didn't check any others.
2. you can still order the 32sii through staples.com, but you can't buy it at a staples store near here. I don't know if it will come through, but they have "1 to 4" business days to complete the contract.
3. Staples.com lists the 32sii over MSRP (\$63.99 vs. \$59.99) but has the 30s under MSRP (\$14.98 vs. \$15.95)
4. The 30s looks like it could have been a nice calculator if it had been bothered to be designed to use RPN.
5. This (32sii calc) cost more than some of my 41's (C/CV), so why don't I use them for every-day knock-about use?
6. How much cumulative radiation my 42S has taken in by being in carry-on baggage going through many, many airport x-ray machines. It still works fine.
7. ebay has many 32sii's available. bleah.
8. The staples real stores near here still have HP10B's in the teal/green version on the shelf.
9. The staples "electronics lead" person at the closest store to me does not know of any rumors

involving either HP's departure from or dedication to the calculator market. He has noticed that they (staples) only carry a couple of HP calcs but have a bewildering variety of TI products available.

There's probably more, but it's been an interesting and slightly expensive proposition.

Totally off-topic, but also slightly expensive... I bought a copy of both Dr. Gilberto Urroz' books for the 49G, and picked up that calc to try and use it again. OK, so he explains how to use it (something the "users guide" never did), but he can't make the thing any smaller, and it is big. After using the 45-41-42 as my calculators of choice for so many years, it's tough to justify the size of the 49G for the types of numbers I now have to crunch. It would have gotten tossed out of the carry-on bag long ago for size alone (never mind it's real or perceived faults) where the 42S hung in there for years. I'll still try to use the thing, but I'll be danged if I can find an equation I need to integrate or graph in my current everyday life. I might be able to find a Fourier that I ought to Transform if I look REAL hard, but unless Cauchy or Euler will come over and shovel snow out of my driveway, I don't think I'll ever see them again.

Happy calculating, (and rumor-mongering)

Dan

Re: Information... OR... Rumor-mongering???

Message #2 Posted by [Peter](#) on 12 Feb 2001, 10:00 p.m.,

in response to message #1 by Dan M (New England, USA)

Well, I work a small college electronics store that has been selling HPs since the 35 (by the way, we have a least one 32SII in stock for \$52.95, if you want it, let me know). I would tend to think that if anything were to happen at HP, we'd know about it, since we're one of their oldest (and at one point, largest) retailers. As I was checking in a box of 17BIIs this afternoon I got to thinking: even though they don't seem to sell a whole lot of scientific/graphing calculators anymore (we might sell one every other week, if we're lucky), we go through dozens of financial calculators in that same time period. I really doubt they would completely close up the calculator shop, since the financial calculators have been hard to keep on the shelves, so I find it hard to believe they'd just give up the scientific line (maybe scale it back a bit). There is a small but dedicated need for them. Anyway, my \$0.02.

Re: Information... OR... Rumor-mongering???

Message #3 Posted by [Chris Randle \(Old England, UK\)](#) on 13 Feb 2001, 3:05 p.m.,
in response to message #1 by Dan M (New England, USA)

Dan,

I keep toying with the idea of buying a "usable" RPN HP. I have a 48SX, but it's overkill for my needs and bit too big.

I think the 42S looks about right. Why do you want a 32SII if you've got a 42? Is it because the 42 is quite valuable nowadays?

Chris

Re: Information... OR... Rumor-mongering???

Message #4 Posted by [Dan M \(New England, USA\)](#) on 13 Feb 2001, 9:48 p.m.,
in response to message #3 by Chris Randle (Old England, UK)

I love the HP-42S, but yes, it's getting a little too valuable. I would not enjoy paying the replacement cost if it got lost or damaged, so I'll use it at the home office and take another one on the road.

Also, I probably just needed an excuse to get another calculator :-0

Re: Information... OR... Rumor-mongering???

Message #5 Posted by [D. Banks](#) on 14 Feb 2001, 11:49 p.m.,
in response to message #4 by Dan M (New England, USA)

I cannot understand why they quit making the 42S. It is, in my opinion, the best all-around calculator they've ever produced.

I have mine, right here next to me on my desk. It looks like it's been drop-kicked at least once, it's got a couple of food spills on it, and it's still the first thing I look for if I have to do some cypherin'. (Unless it involves 64-bit binary arithmetic, in which case, the 16C is still handy.)

Every once in a while, I think about how bad it would be if my 42S ever crapped out, which seems highly likely given the way I treat it. I cruise the boards looking for a replacement, and am never surprised to see them going for more now than what they cost new.

Re: Information... OR... Rumor-mongering???

Message #6 Posted by [Paul Brogger](#) on 15 Feb 2001, 12:58 p.m.,
in response to message #1 by Dan M (New England, USA)

You might check into a 32S rather than an Sii -- the keyboard is SO much cleaner! The only drawbacks (that I know of) are slightly smaller digits, and no "fractions" features. There are generally a couple available on eBay at any time, and, for my money, it's a MUCH nicer machine.

Also, you should consider buying a 17Bii for spare parts to keep that 42S running. I believe (though you'll want to verify) that the display is the same, and the internal keyboard parts of any Pioneer may be used to extend the life of a 42S.

My 42S' display was o.k., but the case was shot, so I've got a 14B case with 42S guts -- the keyboard face is spray-painted black, and a flip-out, laminated color-print image (the MoHPC's 42S picture -- thanks, Dave!) gives me the keyboard legend indirectly. Not ideal, but it works!

Anti-Rumor Mongering

Message #7 Posted by [Dan M](#) on 15 Feb 2001, 10:14 p.m.,
in response to message #1 by Dan M (New England, USA)

OK, So now I have it from a reputable source that HP will concentrate on more traditional calculators.

Read for yourself at...

<http://news.cnet.com/news/0-1006-200-4820908.html>

Where Dan Feeney, HP's product marketing manger is quoted as saying, among other things:

>For now, Feeney said the company will concentrate on developing more traditional calculators and on making sure there is more niche software, such as the calculator program, available for Pocket PC-based handhelds.

OK, so on to the future.

On the other hand, my new 32sii arrived today, and I have to report that it seems to be a very

nice little calculator. We could debate about the color scheme and the busy keyboard, but I was able to pick it up, perform mathematical functions on numbers, and write simple programs without opening the manual (which was included). How refreshing!

What's the story on the "new" color scheme anyway? I don't have any particular bias against it, and the contrast seems OK to me, but why change???

OK, so on to the future, I'm still waiting for those more traditional calculators, or even a nice HP calculator program for my Palm Pilot.

Happy rumor-mongering, and don't bother messing with my carry-on bag, there's just a crappy little 32sii in it for a calculator :^)

Re: Anti-Rumor Mongering

*Message #8 Posted by [Wayne Brown](#) on 16 Feb 2001, 6:49 a.m.,
in response to message #7 by Dan M*

I just hope that "developing more traditional calculators" means "building calcs like we used to make," not "making the same algebraic junk everybody else makes."

Re: Anti-Rumor Mongering

*Message #9 Posted by [Raymond Hellstern](#) on 16 Mar 2001, 7:56 p.m.,
in response to message #8 by Wayne Brown*

>Developing more traditional calculators > I would hope that it means they would be making something like the 11C, which is very handy. Or, as an alternative, a 42SII with a slightly better-to-read display;-)

Raymond

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HP 41C batteries

Message #1 Posted by [Thibaut.be](#) on 12 Feb 2001, 5:28 a.m.

HP recommends this address for abtteries problems.

International Calculator and Computer 2916 Corrine Dr. Orlando, FL 32803 USA phone: 407-898-0081.

Anyone having already experienced something with them ?

Re: HP 41C batteries

Message #2 Posted by [Peter Ohanessian](#) on 13 Feb 2001, 10:41 a.m.,
in response to message #1 by [Thibaut.be](#)

Hello:

It's been awhile since I have dealt with International Calculator. Donald O'Rourke was the gentleman (owner) I have spoken to. I have purchased a new 82120A pack from them (one of the last new ones), and an 82033A pack that they refurbished with new cells. I have also bought various other items, including an 82104A card reader, which was used/refurbished. Parts that were refurbished are working just fine, always pleasant, and prompt with shipment.

Hope this helps

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Thank you to Ty Rogers

Message #1 Posted by [Dale Richmond](#) on 11 Feb 2001, 2:14 p.m.

I would like to publicly thank Ty Rogers for repairing the gummy pinch roller in my HP41 card reader. Not only did he fix the card reader for a very very low price, he even provided pictures of the repair process! Thank you very much Ty, Dale Richmond

Ty's pictures are online now

Message #2 Posted by [Dave Hicks](#) on 11 Feb 2001, 2:35 p.m.,
in response to message #1 by Dale Richmond

Ty's pictures have been added to Dave's "Repairing the hp 82104A Card Reader" posting - #57 in the articles forum.

Thanks for that also Ty!

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Stupid HP-25 Questions

Message #1 Posted by [Tom](#) on 11 Feb 2001, 1:47 p.m.

I have just received a nice HP-25C. But there are a few confusing things that make me wonder if

1) there is something wrong with the 25C or 2) I don't know what I'm doing (most likely)

First, the basic operations seem fine. The storage registers seem to work ok. The values are saved between sessions. The batteries are fine.

But for some reason the programs act wierd. The don't seem to be saved between power on-off-on. I'm not sure if it has something to do with the way I write the programs.

Sometimes, after an off-on, the program is there, sometimes it's not, sometimes it gets corrupted. Wierd! Also, sometimes when the program gets trashed, the registers do also.

Everything seems to power up ok.

Anyone ever seen this or know what might be wrong. All I can think of is that maybe the power-up circuit is bad and it may corrupt data. Anyone?

Re: Stupid HP-25 Questions

Message #2 Posted by [Viktor Toth](#) on 11 Feb 2001, 9:54 p.m.,
in response to message #1 by Tom

Tom,

I've seen the problem you describe, in an HP-25 in which I replaced the "old style" memory chips (two chips) with a "new style", single chip, I found that it was also necessary to add a 100K resistor, one that's present in newer model HP-25Cs but absent from the older ones.

Of course, unless someone tinkered with your machine already, this is unlikely to be of any assistance. My guess is that your machine may have a fried memory chip that works intermittently.

Viktor

Re: This one has 4 chips

Message #3 Posted by [Tom](#) on 11 Feb 2001, 10:42 p.m.,
in response to message #2 by Viktor Toth

This has a year code of 1610A. It has 4 chips.

Two of these S 7629 1820-1843

One of these AMI 7607PE 1820-1741

One of these Mostek Mk60027 (or something like that; poor eyesight you know)

But I don't see any 100K resistor anywere. Which resistor was changed to 100k? There is a 10K at the end of the Mostek beside a diode and large cap.

Anyway, is there a web site with schematic of this model?

Thanks,

Re: This one has 4 chips

*Message #4 Posted by [Katie](#) on 12 Feb 2001, 8:10 p.m.,
in response to message #3 by Tom*

Take a look in the Forum Archives back in August 2000 under the topic "Challenging Woodstock Repair". I came up with a fix for a problem that's not unlike your memory retention one. There are also suggestions from other collectors on that topic that might be of help.

Unfortunately, I don't know of a schematic for these machines. I was going to draw one up, but without having the IC pin descriptions, it's going to take a lot of work to infer their functions.

-Katie

Re: This one has 4 chips

*Message #5 Posted by [Viktor Toth](#) on 13 Feb 2001, 9:58 a.m.,
in response to message #3 by Tom*

The 1820-1843 is the old memory chip (of which two are required), and in that configuration, I've not seen the 100K resistor I mentioned.

If you have access to a broken HP-29C or HP-19C (there are, sadly, quite a few of these around), you might be able to use one of its memory chips to replace the two chips in your calculator. In this case, however, you do need that resistor. If you're going to attempt this particular repair, write to me at [vttoth @ vttoth.com](mailto:vttoth@vttoth.com) and I'll give you the details.

Viktor

Re: And the problem IS...

Message #6 Posted by [Tom](#) on 15 Feb 2001, 10:07 a.m.,
in response to message #5 by Viktor Toth

After plowing through the archives, I have found that the problem is 100% consistent with the articles that posed the possibility that the memory chips need some sort of warmup (i.e. pre-charging or something) before they become stable.

Originally, when I first got this, I had the battery pack in and out many times for varying amounts of time. Whenever I found a problem, I might for instance, remove the battery to check (clean) the contacts. Of course, this would reset my problem.

After reading these articles, I let the calc sit for 15 or so minutes. NO PROBLEM ever again. I would then remove the battery pack for a period of time and THE PROBLEM RETURNED. Let it sit for 15 or so minutes and the problem went away again.

When I say it went away, I have eliminated the possibility of intermittent problem by performing numerous resets and running of programs and checking register data.

I can find no errors ever after the calculator has had the battery connected for 15 or so minutes.

I DO find this a bizarre behavior though.

Possible reason for behavior?

Message #7 Posted by [Tom \(UK\)](#) on 15 Feb 2001, 12:56 p.m.,
in response to message #6 by Tom

Sorry if I appear a bit thick as I don't know too much about the 25C calc but does the calculator have a battery back up capacitor so the memory is saved when you change batteries?

If this is the case then the circuit for charging the capacitor (including the capacitor itself) may have become highly resistive and hence takes 15 min to charge up enough to hold the memory.

This is just a pure guess but could be the reason why your calculator does what it is doing. High value capacitors do age badly and many battery holding circuits can be repaired by simply changing the capacitor. A copy of the calculator's circuit would be invaluable to solve this problem, am I right in thinking they are

not available?

If I have grabbed the wrong end of the stick then please ignore this message.

Re: I think you may be right but don't know for sure.

*Message #8 Posted by [Tom](#) on 15 Feb 2001, 1:38 p.m.,
in response to message #7 by Tom (UK)*

I only came to this conclusion by reading what others have found. Normally, I would expect that the charge-up path should be much quicker than the discharge path. It may well be that age is a factor.

All I know for sure is that this is the way it is working now AND others have seen this also. I guess I could just replace the cap and see if the behavior changes. But I suspect that others have the answer to that (been there, done that, you know).

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digital cassettes

Message #1 Posted by [Dane](#) on 10 Feb 2001, 11:37 a.m.

Does anyone have a source for digital cassettes?

Re: digital cassettes

Message #2 Posted by [Ty Rogers](#) on 10 Feb 2001, 6:19 p.m.,
in response to message #1 by Dane

<https://www.calcpro.com/cgi-bin/catalog.cgi>

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Sick 42S...

Message #1 Posted by [Scott](#) on 10 Feb 2001, 11:17 a.m.

I have a 42S that I have owned for 13 years, has seen tough service and has worked great until now. It will turn on with no problem about 50% of the time, otherwise I have to shake it, take the batteries in and out and hit the "on" button repeatedly. Once on, it will work fine sometimes, other times after a few functions it will cut out. HP said "sorry...can't help you" Anyone out there have any suggestions? Am I wasting my time? -bsbuck@peoplepc.com 1/10/01

Re: Sick 42S...

Message #2 Posted by [Paul Brogger](#) on 10 Feb 2001, 11:47 a.m.,
in response to message #1 by Scott

In the MoHPC "Articles" section, see ["Pioneer Observational Internals" HREF=<http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/articles.cgi?read=5>] . You may be able to replace, for instance, the internal keyboard components with mylar and rubber parts from a more recently-made (or less-used) Pioneer model. You might also want to check the battery-to-pcb connections & see if that helps. Good luck!

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Pulled apart the 32E

Message #1 Posted by [Steve](#) on 9 Feb 2001, 7:33 p.m.

OK, I searched the site...

I removed 2 screws from the 32E, and pulled...

I put it down and re-read the instructions. Thenn I pulled a little harder...

Then I looked again. And closed my eyes. And VERY firmly pulled. CRACK! Still not open.

Take deep breath. Close eyes. Ignore thoughts of breaking the bottom off the calculator.
Puuuuuuuuuuuuuuuuull! CRACK! Ping! open!

(Then I saw how easy it was to put together and repeated the last effort one more time :-)

OK, There seem to be brass and plastic clips, and it looks like this may be one of the variety that have chips just sitting there.

What do I do from here?

Not too much corrosion that I can see at the moment. I'm hoping that I can clean up the contacts inside and it will spring into life.

Are the 3xE series seriously damaged if connected to charger without nicads (or with dead nicads). I don't have a charger, but that may be a cause for an otherwise good looking dead calculator I fear.

Re: Pulled apart the 32E

Message #2 Posted by [Reinhard Hawel \(Austria\)](#) on 9 Feb 2001, 9:35 p.m.,
in response to message #1 by Steve

I'd simply take two new NiCads and charge them externally (that's what I do). Do you have the old battery pack with the part, that holds the pack together ?

I must admit, I didn't even try powering a 3x series machine this way. I don't often use them, though I have all of these series - there are much more other prettier machines

I like the classics, which you can power without the batteries. I'm sure, most of the people in the 70s left their machines at their desk charging all the time (a small incarnation of a "desktop" calculator) and killed the batteries after a short period.

Re: Pulled apart the 32E

Message #3 Posted by [Steve](#) on 9 Feb 2001, 10:57 p.m.,
in response to message #2 by Reinhard Hawel (Austria)

No, I don't have the original battery packs.

But what I really want to know is how to take the clipped on backbone off?

Maybe someone has done it before, because there's only 2 small chips, (the space in the middle is empty) and one of them appears to be oriented opposite to the other (the writing on one is the opposite way around to the other).

Re: Pulled apart the 32E

Message #4 Posted by [Frank \(Germany\)](#) on 10 Feb 2001, 9:37 a.m.,
in response to message #3 by Steve

You may want to have a look at

<http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/archv003.cgi?read=4683>

Is it an early or a late series model (<http://www.hpmuseum.org/30comp.jpg>)?

I recently opened a model from the early series. Pretty easy. First bend the plastic clips a little so that you can get the backbone out of the case. After that you can use a screwdriver to bend the metal clips on one side. Voila!

Frank.

Fixed the 32E

*Message #5 Posted by [Steve](#) on 18 Feb 2001, 3:28 a.m.,
in response to message #4 by Frank (Germany)*

Yay!!!!

It works.

The problem was broken connections in the flexible connector between the batteries and the inverter.

Small easy patchups didn't work, I eventually soldered a wire between the clip and the inverter PCB.

Re: Pulled apart the 32E

*Message #6 Posted by [Viktor Toth](#) on 10 Feb 2001, 9:59 a.m.,
in response to message #1 by Steve*

> Puuuuuuuuuuuuuuuuuull! CRACK! Ping! open!

Hehe, you've passed the test. Looks like you have what it takes to become a qualified Spice mechanic :-)

> Are the 3xE series seriously damaged if connected to charger without nicads

Not as easily as Woodstocks but yes, they can be damaged.

You also asked in another message about one of the small chips oriented opposite to the other. Is it just the writing or is the notch marking Pin 1 facing the other way as well? Those chips should be oriented identically, if they're not, that's trouble (and in my experience, it's usually these small chips that get fried due to overvoltage, even when oriented properly.)

Viktor

Re: Pulled apart the 32E

*Message #7 Posted by [Steve](#) on 10 Feb 2001, 6:38 p.m.,
in response to message #6 by Viktor Toth*

After looking more closely, I realiser it's my aging eyes that must be inserted incorectly. :-(

The circle containing hp is on the end pointing upward.

Re: Pulled apart the 32E

*Message #8 Posted by [Stefan Vorkoetter](#) on 14 Feb 2001, 12:50 p.m.,
in response to message #1 by Steve*

I purchased a DOA (known in advance) HP-34C on eBay. It was one of the early models, with the plastic backbone just like your 32E. I did a major repair job on it, and now it works perfectly. Here's what I did:

- took it apart.
- soldered all the chips to the flexible board. This requires a reasonably powerful (45W), very fine tipped soldering iron so you can heat up the pads on the board quickly enough to not melt the board itself.
- filed away at the part of the backbone that normally pressed the pins against the board to allow for the added thickness of the solder.
- put it all back together.
- put new NiCd's in (1100AAU).

This machine now works perfectly, and will never suffer loose back bone problems again. It's a bit drastic of a repair, but it worked for me.

Stefan

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9825A Power Up Problems

Message #1 Posted by [Steve](#) on 9 Feb 2001, 7:20 p.m.

I just got an HP 9825A. When I turn it on the fan runs but the display is dark. Sometimes I hear a beep on power up, sometimes not. I have no idea what to test/check. Any ideas ? Does the unit have to have specific ROM cards installed to power up ? Does the Display normally light up ? Is there a test sequence (hold down a key on power up) ?

Any advice would be appreciated.

Re: 9825A Power Up Problems

Message #2 Posted by [Reinhard Hawel \(Austria\)](#) on 9 Feb 2001, 9:44 p.m.,
in response to message #1 by Steve

In an early model you have to have a rather large (long) ROM with the operating system at the left side of the machine. You might remove this one and insert it again (maybe cleaning the contacts might help).

I can't say, what the display does, because the first part of the display of my 9825A seems to be defunct (lights up all the time). Does anybody know, if this is a common error? What's to replace ?

When you hear the beep sometimes, chances are, that it's just some dirty connection, especially, when the machine has been in storage for a long time.

I have all manuals and will look for a test sequence (keys)

Best of luck for you and your 9825A

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HP timers

Message #1 Posted by [Erik Wahlin](#) on 9 Feb 2001, 5:52 p.m.

Just for fun, I ran my HP-45s, HP-55, and HP-41CX in timer modes for an hour. Since the HP-45s do not have a quartz crystal, I was interested in their performance compared to the HP-55 and HP-41CX which do have clock crystals. The results are:

HP-41-CX; 1:04:04:59

HP-55; 1:04:04:68

HP-45#1; 56:45:55

HP-45#2; 57:55:50

HP-45#3; 57:34:77

The HP-55 and HP-41CX were very close (within 0.09 seconds) The HP-45s ran slow and were 7 minutes off the pace. It was not easy to start all these calculators at the same time, but I do not think the error would be greater than about 0.02 seconds.

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The Old Smack The HP 41C Trick

Message #1 Posted by [Jim L](#) on 9 Feb 2001, 5:26 p.m.

I've often noticed that when I find a new 41C and first install the batteries and turn it on that nothing happens.

If I then smack it firmly but not too aggressively into the palm of my hand, it will very often spring to life. Is this a common experience? Is it understood or is it just strange luck?

Re: The Old Smack The HP 41C Trick

Message #2 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 11 Feb 2001, 9:42 a.m.,
in response to message #1 by Jim L

Pressing and/or gently twisting the case may improve the contact between internal connectors. Do it carefully!

Re: The Old Smack The HP 41C Trick

Message #3 Posted by [Frank Knight](#) on 11 Feb 2001, 7:36 p.m.,
in response to message #1 by Jim L

Tighten the screws, do not strip.

Re: The Old Smack The HP 41C Trick

Message #4 Posted by [Steve Kersey](#) on 3 Mar 2001, 6:30 p.m.,
in response to message #1 by Jim L

More 41's die from breakage of the internal screw posts than any other cause. I suggest you find a different technique for starting your 41.

Re: The Old Smack The HP 41C Trick

*Message #5 Posted by [db](#) on 3 Mar 2001, 7:37 p.m.,
in response to message #4 by Steve Kersey*

yes jim, at least give it a chance and type in (alpha)look; if you don't turn on i'm gonna have to smack you (alpha).

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ThinkJet Printer 2225B

Message #1 Posted by [dane](#) on 9 Feb 2001, 3:36 p.m.

Has anyone used one of these printers? Would it be a better than a thermal printer? thanks for you advice

Re: ThinkJet Printer 2225B

Message #2 Posted by [Reinhard Hawel \(Vienna, Austria\)](#) on 9 Feb 2001, 9:05 p.m.,
in response to message #1 by dane

I used the one of my friend Leo while we were in School. Some of the works we did were printed in the lunch break in the car :-). Ya know, this is a battery-powered device and with a HP-71B this printer was an unbeatable machine.

You had to use a special inkjet paper which was rather heave, but gave a nice feeling. I believe, the modern Printheads don't need this anymore, but I gave up Word processing on the 71B, when I began working with PCs (when I look at MS Word I believe I should go back to the roots :-).

BTW: the printheads are available for sale in these days (HP sells POS printers with a narrow ThinkJet system). I even remember seeing clones from Pelikan somewhere in Germany some years ago.

The obvious advantage is that you can use regular paper (ANSI A, or DIN A4 in Europe) and you don't have to copy the sheets, like you have to do with thermal paper. For daily use with your system, I'd strongly recommend getting one, though I don't see them very often. A disadvantage is, that it misses a cut-sheet paper feeder, it was mostly designed for "endless" (is this the right word?) paper ("Endlospapier" in German) - aaah, my mind's getting better, seems it's called "fanfold" paper.

I also own a 2225A for my HPIB test equipment, but to my shame I must admit, that I've never made a Hardcopy in my home lab. Anyway, I could get it on eBay for \$3.25 . Shipping to Europe was considerably more :-)

Re: ThinkJet Printer 2225B

*Message #3 Posted by [db\(martinez,california\)](#) on 9 Feb 2001, 11:04 p.m.,
in response to message #2 by Reinhard Hawel (Vienna, Austria)*

i used one a lot around 15 years back. not many canned programs are written to use it's power (well, what was power in the mid 80's) but you can mabye write your own. the only thing it misses that the ribbon printers have is the little angle symbol that ascii dosn't have. they are great with a plain paper cartridge, which, phyllis kerber told me, might still available from www.mei-microcenter.com

Re: ThinkJet Printer 2225B

*Message #4 Posted by [Dane](#) on 10 Feb 2001, 1:45 a.m.,
in response to message #3 by db(martinez,california)*

I found a brand new one in the box for \$75 and dont know if its a good deal, i checked hp's site and it looks like plain paper cartriges are available. Has anyone used this with a hp41?

Re: ThinkJet Printer 2225B

*Message #5 Posted by [Steve \(Australia\)](#) on 10 Feb 2001, 4:26 a.m.,
in response to message #4 by Dane*

I paid \$US 6.50 for one new in the box on eBay.

\$75 may be a little on the high side.

Re: ThinkJet Printer 2225B

*Message #6 Posted by [Dane](#) on 10 Feb 2001, 11:18 a.m.,
in response to message #5 by Steve (Australia)*

I think I'm going to pass on this one, thanks for the help

Re: ThinkJet Printer 2225B

Message #7 Posted by [bill smith](#) on 11 Feb 2001, 8:36 p.m.,
in response to message #4 by Dane

i acquired a 2225B along with an HP 82973A PC-hpil card, and hooked it up to my 41 just long enough to check it out. the 41 doesn't really seem to take advantage of the large paper format, but other than that it's perfectly servicable.

in particular, i haven't tried to plot graphs. i would assume that the graph too is limited to the part of the page (left 1/3) used for text.

now if someone would just create a PCMCIA version of the 82973A, i could use the printer with my 200LX.....

Re: ThinkJet Printer 2225B

Message #8 Posted by [db\(martinez,california\)](#) on 11 Feb 2001, 11:56 p.m.,
in response to message #7 by bill smith

dane; iv'e only used it with 41's. as i kind of said, the canned programs don't use the whole sheet but you can write your own to look like a spreadsheet. at times i used the hp survey pac vc program that printed sta. and design elev. out on that green and white lined paper. there was room for columns for azimuth, hd, vd, el, and cut to be figured and handwritten in. i admit that this was pretty much a hillbilly method even in '86. as someone said; it wasn't much good as a plotter although kodak made a unit called the dikonix using the same technology with the addition of a reverse on the roller that did ok in that department. if you'r interested; i have a spare thinkjet i'd let go for 20 bones. its well used but they were made to last. chao - d

Thanks for the site!

Message #9 Posted by [Philip Reagan](#) on 12 Feb 2001, 10:20 a.m.,
in response to message #8 by db(martinez,california)

I have to admit, my wife thinks the same thing, but she understands since she considers me a geek. I visit the site more than once per day. It has helped me greatly. Although I haven't felt qualified to contribute, that is changing as my collection grows and my experiences increase. Thanks for the time and effort putting this site together. Please keep it up.

Thanks Philip!

*Message #10 Posted by [David Hicks](#) on 12 Feb 2001, 6:25 p.m.,
in response to message #9 by Philip Reagan*

Re: ThinkJet Printer 2225B

*Message #11 Posted by [Dane](#) on 12 Feb 2001, 11:15 p.m.,
in response to message #8 by db(martinez,california)*

Thanks db, I picked up a thermal printer I'm going to try out, thought I had run across a good deal with the 2225b, but it appears I didn't

Re: ThinkJet Printer 2225B

*Message #12 Posted by [db\(martinez,california\)](#) on 12 Feb 2001, 11:48 p.m.,
in response to message #11 by Dane*

de nada dane. since it sounds like you're a nubie to the thermal world; theres four things to remember. the black print paper lasts longer, crank up the heat on the printer, keep the paper cool and off your dashboard both before and after use, and photocopy anything you need to be permanent. an old boss gave me a 82143a reciently. after i had it apart about 7 times and got it happy i decided that i really like it. hope your's treats you right. - d

Re: ThinkJet Printer 2225B

*Message #13 Posted by [Dane](#) on 13 Feb 2001, 12:08 a.m.,
in response to message #12 by db(martinez,california)*

thanks for the advice db, I am sort of new, I coveted a 41cx while in college but couldn't afford one and I finally got sick of the disposable ones they sell now. The nice thing about this site is you get good advice and everyone whats to help. Thanks Dave and everyone who contributes!!

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Battery Polarity

Message #1 Posted by [Steve](#) on 9 Feb 2001, 7:29 a.m.

I have a number of HP calculators without battery packs.

I know that I should be careful with battery polarity, so I'm going to ask first before I try things:-)

The first is the HP21 and HP25C (I'm assuming the battery polarity is the same.) If I look at the back of the calculator, with the top of the calculator pointing away from me, the contacts are at the bottom (toward me). From what I can determine, -ve is to the left -- is this right?

And then the HP34, 32, 31 type. Again looking at the back of the calculator, top away from me, the contacts are on the left top corner. If HP were consistent, I'd assume the top one is -ve and the bottom one +ve. Am I correct?

I'm planning on using rather flat 1.5v cells initially to try them out. Later I will try to fabricate something from nicads.

Re: Battery Polarity

Message #2 Posted by [Steve](#) on 9 Feb 2001, 9:14 a.m.,
in response to message #1 by Steve

Figured it out!

Re: Battery Polarity

Message #3 Posted by [Dave Hicks](#) on 9 Feb 2001, 5:00 p.m.,
in response to message #2 by Steve

If anyone else is curious, there is some information at:

<http://www.hpmuseum.org/batts/battery.htm>

Re: Battery Polarity

Message #4 Posted by [Steve](#) on 9 Feb 2001, 7:06 p.m.,
in response to message #3 by Dave Hicks

And very good information it is too!

After I searched (probably badly :-)) some of the archives, I had a bit of a snoop around and found the annotated images.

Just what I was after!

I have another question, but I'll snoop around some more first. Maybe I won't look so foolish :-D

Re: Battery Polarity - a little OT

Message #5 Posted by [Reinhard Hawel \(Austria\)](#) on 9 Feb 2001, 9:17 p.m.,
in response to message #4 by Steve

I wouldn't consider somebody foolish, just because he/she didn't find something here on the website. I've seen the site growing over the years and there are lots of info stored somewhere in the pages - thanks Dave !

I also have to look around sometimes, when I remember, I've seen something, but don't know exactly where, so you even should ask, so that everybody can learn...

Though I began posting here 2 or three years ago, I watched the site much longer (I just didn't feel "qualified" for posting here in the upper league - this changed a little when I actively began collecting). I even remember the time, when I saw the page the first time - seems like I used the then new Netscape 3 - or even Ver. 2. The site didn't have this fancy URL, but I don't remember the old one.

Dave, when did you start this site ?

A little site history

*Message #6 Posted by [Dave Hicks](#) on 9 Feb 2001, 10:21 p.m.,
in response to message #5 by Reinhard Hawel (Austria)*

Hey that's answered in the FAQ you know! ;-)

OK the site went "live" in May 1995. I probably started thinking and planning around Dec 94/Jan 95. It took some start up time because before starting the web site, I only had the few HPs that I just happened to have - very small and random bunch. I wanted to have all the scientific classics and woodstocks to start the museum. After I launched it with those, I got many messages along the lines of "Great! Wonderful! Hey where are the rest of them?" The collection was completed in early 1996. Since then, it's mostly been more details, software, etc...

Friends and coworkers thought I was crazy because in 1995 they thought the whole web/net thing was a fad. (A little later my company overreacted in the opposite direction and put the word Internet into the plans of every single group.)

The site was all coded by hand (no HTML editors yet) and still mostly is today. The original pictures were scanned on a flat bed scanner at work after hours. A scanner of my own seemed much too exotic and expensive in 1995. Pictures were carried home on conventional floppies and uploaded over an analog 33K modem. The original URL was www.teleport.com/~dgh/hpmuseum.html. This hasn't existed for several years but there are still approximately 400 links to it.

In 1995, I had no idea how big this site would become. I sometimes think that I should analyze all the stuff that's here and reconsider how it's organized. I'm afraid doing that might just drive me crazy however. (And maybe the long time visitors too.) Hopefully the search function on the main page helps new people. Assuming they find that :-)

Re: A little site history

*Message #7 Posted by [Marx Pio](#) on 10 Feb 2001, 1:20 p.m.,
in response to message #6 by Dave Hicks*

...and after all this work my wife thinks I am crazy because I spend time visiting your site and collect old machines. Thanks Dave. Pio

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41CV Batt Pack

Message #1 Posted by [Rene Beltran](#) on 9 Feb 2001, 12:47 a.m.

I have a 41CV in mint condition, but the battery pack (82120a) is dead! I do not have the Battery Holder. The Calculator do not turn on. Any solution is welcome :)

Re: 41CV Batt Pack

Message #2 Posted by [Steve \(Australia\)](#) on 9 Feb 2001, 6:33 a.m.,
in response to message #1 by Rene Beltran

It's totally dead, not worth a thing, send it to me!

Well, maybe not...

The cells can be replaced. The original 1/2 N cells are rare as hens teeth, but you can use 1/3 AAA cells.

1/3 AA *almost* fit, but require some truly extraordinary hacking to fit them (I would not advise it).

There is a problem with some nicad packs that will pass ummm well in excess of 12V to the calculator if the nicads are stuffed - so be careful trying to run it without the cells replaced.

I would suggest you fit the charger to the pack (outside the calculator) and measure the voltage. If it's less than 6V, then the calculator is almost certainly undamaged. If it exceeds 6V by much of a margin, there is a chance that your calculator may be damaged (sorry).

There is a "fix" to this problem that you can do when replacing the cells if your pack is one of these.

Re: 41CV Batt Pack

*Message #3 Posted by [Dave Hicks](#) on 9 Feb 2001, 4:58 p.m.,
in response to message #1 by Rene Beltran*

If you don't want to fix the rechargeable pack, I think I have a spare disposable holder that I could send to you.

Disposables are good if you're using just the basic calculator and ROM/RAM modules. They can get expensive if you're also powering the card reader or HP-IL.

Re: 41CV Batt Pack

*Message #4 Posted by [Rene Beltran](#) on 9 Feb 2001, 5:56 p.m.,
in response to message #3 by Dave Hicks*

Dave:

Thank you, that's the solution to my problem !

I sent you by e-mail my response.

Please let me know if you need more data.

Regards.

Re: 41CV Batt Pack

*Message #5 Posted by [Dave Hicks](#) on 9 Feb 2001, 8:26 p.m.,
in response to message #4 by Rene Beltran*

Rene,

It will ship out tomorrow.

Dave

Re: 41CV Batt Pack

*Message #6 Posted by [Rene Beltran](#) on 17 Feb 2001, 3:52 p.m.,
in response to message #5 by Dave Hicks*

Dave: I received the battery holder! Thank you for your support.

Please let me know in which way I can help the Museum.

Best Regards.

Rene Beltran

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HP97 Card Reader Repair

Message #1 Posted by [Fran LaPierre](#) on 8 Feb 2001, 8:15 p.m.

Anyone repairing HP97 card readers, please contact me with approximate cost and address to send calculator. It seems HP is no longer repairing this unit.

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Re: EbayTruth@yahoo.com strikes again...favor?

Message #1 Posted by [Frank knight](#) on 8 Feb 2001, 6:54 p.m.

Note that if any one including myself and Gene prices something too high on ebay that it does not get bids, the auction fee is paid anyway and only reused if it is priced lower and sells. Hence there is some punishment in time and potential for overpricing above the market, which changes from week to week. I have certainly overpaid for items I wanted to get them when I wanted them verses waiting. Why does any individual care if someone else happens to get lucky and happens to make money selling something on ebay, they may loose on the next one. Is it envy?

Re: EbayTruth@yahoo.com strikes again...favor?

Message #2 Posted by [Jim L](#) on 8 Feb 2001, 10:04 p.m.,

in response to message #1 by Frank knight

Frank, if the 30 cent listing fee at eBay is too steep, you can list them in the classifieds section of this site for free.

Re: EbayTruth@yahoo.com strikes again...favor?

Message #3 Posted by [Frank Knight](#) on 9 Feb 2001, 6:21 a.m.,

in response to message #2 by Jim L

Better recheck your facts on those listing fees, Mr. Jim L. (hey, your not Mr. JK/ebaytruth again are you?!) In God I trust, others please bring facts & data. They are in the dollars if listed as high as was being discussed, not pennies. As a matter of fact, here's some facts: Minimum Bid, Opening Value or Reserve Price Insertion Fee \$0.01 - \$9.99 \$0.30 \$10.00 - \$24.99 \$0.55 \$25.00 - \$49.99 \$1.10 \$50.00 - 199.99 \$2.20 \$200.00 and up \$3.30 Additional resurve fees (refunded if sold: Reserve Price Reserve Price Auction Fee \$0.01 - \$24.99 \$0.50 \$25.00 and up \$1.00 Another fee based upon the selling price is added if successful: Closing Value Final Value Fee \$0 - \$25 5.0% of the closing value \$25 - \$1,000 5.0% of the initial \$25 (\$1.25), plus 2.5% of the remaining closing value balance. Over \$1,000 5.0% of the initial \$25 (\$1.25), plus 2.5% of the initial \$25-\$1000 (\$24.38), plus 1.25% of the remaining closing value balance. Of course there are additional ways to list that cost more: Fees for additional listing options When you list your item for sale, you can choose several

optional seller features to promote your listing and get more bids! Please note that these options have non-refundable fees.

Seller Feature Description Insertion Fee Home Page Featured (see example) Receive the highest level of visibility on eBay! Your item will be listed in a Special Featured section and will most likely be rotated for display on eBay's Home page. Your item may also appear on the main Browse page and in your category index page Featured items section. See example \$99.95 **Featured Plus!** (formerly Featured in Category, will now include Featured in Search. See example) Appear in your category's Featured Item section and in bidder's search results. Plus, your item may be selected for display in another area — your category index page Featured Items section. See example. \$19.95 **Highlight** (See example) Emphasize your listing with an eye-catching yellow colored band. \$5.00 **Bold** (see example) Add instant emphasis to your listing by putting your item title in bold. \$2.00 **Gallery** (See example) A small picture of your item will appear in our Gallery, eBay's miniature picture showcase. Remember, you need a picture in a JPEG (.jpg file) format to use the Gallery. \$0.25 **Gallery Featured** (See example) In addition to appearing in the Gallery, your item will also be featured at the top of the Gallery in a larger size — almost double the size of regular gallery pictures. \$19.95 **List in 2 Categories** When you list your item with the List in 2 Categories feature, your item listing appears in two categories, giving it added visibility. Double the insertion and optional feature fees (excluding home page featured) **10-Day Auction Duration** Choose the longest listing duration available: 10 days. \$0.10

Final Value Fees At the end of a listing, you will be charged a Final Value Fee based on the final sale price (final value) of your item:

Regular and Reserve Price Auctions (when the reserve has been met) The final value is the closing bid. Remember, there is no Final Value Fee charged if the reserve is not met.

Dutch Auctions The final value is the lowest successful bid, multiplied by the quantity of items you sold.

Here's how you calculate your Final Value Fee (if you sold real estate, see below):

Take the first \$25 of your final value, and calculate 5% of that. If your item sold for \$25 or less, this is your Final Value Fee. If your final value was more than \$25, take the additional amount, from \$25.01 to \$1,000, and calculate 2.5% of that. If your final value was more than \$1,000, take that additional amount and calculate 1.25% of the remaining amount. Add these amounts together and you have your Final Value Fee!

Closing Value	Final Value Fee
\$0 - \$25	5.0% of the closing value
\$25 - \$1,000	5.0% of the initial \$25 (\$1.25), plus 2.5% of the remaining closing value balance.
Over \$1,000	5.0% of the initial \$25 (\$1.25), plus 2.5% of the initial \$25-\$1000 (\$24.38), plus 1.25% of the remaining closing value balance.

Re: EbayTruth@yahoo.com strikes again...favor?

Message #4 Posted by [Jim L](#) on 9 Feb 2001, 10:52 a.m.,
in response to message #3 by Frank Knight

Frank,

The basic fee is 30 cents as you have verified, so, we've both checked my facts and they're correct. You were complaining of items that didn't sell so final value fees are irrelevant. The other fees are add-ons. If you don't think the add-ons are good deals, then don't pay for them.

If you don't trust ebayer's to bid low opening prices up high, then, as I said before, you can sell them here and avoid the 30 cents. However, this concern is unfounded in my experience. I've sold about 40 items on eBay and I think it's an excellent deal. If you don't like it, there are other choices.

Program for figuring fees!

Message #5 Posted by [Randy Smith](#) on 9 Feb 2001, 11:34 a.m.,
in response to message #3 by Frank Knight

Has anyone thought about putting one of our HPs to use and writing a program to figure out the final fee you owe to eBay if your item sells?? Just wondering!

Re: Program for figuring fees!

Message #6 Posted by [Marx Pio](#) on 9 Feb 2001, 2:08 p.m.,
in response to message #5 by Randy Smith

Isn't more easy show an add on MoHPC and wait a dozen of email from possible buyers and sell the items via paypal.com than become an ebay.com slave? Just Wondering too... ()8^)

My thoughts on eBay

*Message #7 Posted by [Dave Hicks](#) on 9 Feb 2001, 4:06 p.m.,
in response to message #6 by Marx Pio*

I've done a little buying and selling on eBay. Almost none of my transactions have been HP related. I buy very few because I've had good luck getting them for much less elsewhere and I've sold none because... well mostly because I've just sold very few HPs period :-). I also feel a little too "connected" to the HP community to use eBay. That's hard to explain - just a personal feeling. All of the items I've dealt with have been "collectible" however.

I started eBay as a buyer. I learned that prices are generally very high but you can find something good now and then. One of the best ways to get a good price is to paw through all the listings rather than searching. Good eBay prices happen due to misidentification and misspelling. This takes time - it's the old work/reward thing. Some people may think I'm ripping people off due to their mistakes or ignorance but all of these items still get a bid or two so they're going to sell cheaply to someone. It might as well be me.

Other times you can get a reasonably good price if you follow the eBay cycles. I've seen several cases where the first item of its type appeared on eBay and sold for a medium price. This gets announced on the specialty forums and newsgroups. Then a few more of the same item starts to appear, and prices rise dramatically because everyone is looking. Then bunches come out of the woodwork, and eventually the price comes back down to medium or sometimes even low. Then they often stop appearing for awhile and the cycle repeats later.

I first started selling on eBay two summers ago. I realized I needed to make some room in my house so I was originally going to throw a bunch of stuff out (don't gasp - not HP stuff!) but then I decided that I should sell at least some of it. Garage sales, flea markets and antiques dealers seemed like a lot of work so I turned to eBay.

I was really surprised at how painless it is. I often grumble that eBay is the most profitable CGI script in history, but this is really a "Why didn't I think of it???" rant. (And I know it's not CGI.) In reality, while eBay surely makes tons of money due to volume, the fees on any individual sale are extremely low. The barriers to entry are essentially non-existent. Not only was the basic listing fee \$.25, but you could start your auctions on credit. You could get your first items sold before sending eBay any money.

By the end of the first day, my first batch of items were already selling above the

prices I thought I would get and more than I had paid for them. By the end of the week, the prices were just AMAZING! Just ask anyone who sat near my cube at work how many exclamations they heard :-)) I started all my auctions at the bottom and never used a reserve. In my experience, if your title is correct, there seems to be little risk of getting a truly low price on eBay. Besides, last time I checked, they allow a seller to make one bid on their own item. This will make bidders mad and you'll probably never need it, but if you're really nervous it's good to know that you have the ultimate option in reserve.

It's not just HPs that fetch the big bucks on eBay. The items I was selling consisted of mechanical clocks and wristwatches, movie posters, old children's toys, a vacuum tube radios etc. After I ran out of my own items, I started buying items from the local antique malls and continued to make money.

In the fall, my work got intense and moved me overseas and I got out of the eBay habit. I think, though, that I may resume it this summer. It may be a little harder now, because I've found that at my favorite antiques store, most of the "good stuff" is now kept in the office where a PC keeps tabs on their current eBay prices.

My take on eBay is that if maximum money is your goal, eBay is hard to beat for selling. For buying be very selective if price is an issue.

That said, I still encourage buying, selling and trading among the HP community. The rewards are different than selling through eBay. As I said above, when I do finally get around to selling some HPs, I probably won't do it on eBay. Also, if you sell through eBay, do feel free to post an ad here too. What makes eBay work is having the maximum number of eyes focused on a limited number of items. A few more eyes never hurt. It might even save you from selling low due to a spelling mistake.

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Pics of a 28's innards??

Message #1 Posted by [Angus \(UK\)](#) on 8 Feb 2001, 6:19 p.m.

Having got a 28S recently, I'm curious about what its guts look like, but can't find any scans/photos anywhere - anyone got any ideas (or pics)?

Thanks.

Re: Pics of a 28's innards??

Message #2 Posted by [Wlodek Mier-Jedrzejowicz](#) on 10 Feb 2001, 5:28 p.m.,
in response to message #1 by Angus (UK)

If you're in the UK, you might make it to a meeting of the British HP handhelds club one day. Most meetings are in London but we're happy to arrange them elsewhere too. And there you could ask to see a copy of our journal from when the HP-28 was introduced and we took one apart and published photographs. See www.hpcc.org for more details. I'd mention my HP28 book with pictures in it too, but it's out of print. Maybe time to get a copy scanned and put on a site or a CD-ROM?

Re: Pics of a 28's innards??

Message #3 Posted by [Dave](#) on 15 Feb 2001, 12:24 p.m.,
in response to message #2 by Wlodek Mier-Jedrzejowicz

I have this book for sale. E-mail if interested.

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FREE HP-97 Parts

Message #1 Posted by [Dan](#) on 8 Feb 2001, 1:23 p.m.

I have an HP-97 that I used for a part (a key). It is not nice enough to restore so I'm offering some parts for FREE.

But please follow these simple instructions so we don't clutter up the board. It's parts only.

Post what specific small part you need with your email address and I'll contact you about sending the part, for free. Don't ask for something that has already requested.

Available: Individual keys, printer idler gear, nylon balls from reader, other small parts.

NOT Available: A complete card reader A complete printer A complete keyboard

I will delete this email in 2 days. If this is against board policy, the host is free to delete it at any time. Make sure you can delete your replies.

Re: FREE HP-97 Parts

*Message #2 Posted by [Jan H. Bos](#) on 8 Feb 2001, 1:51 p.m.,
in response to message #1 by Dan*

I would need a card reader. After having applied all the known repair methods (replacing the rubber wheel, adjusting the head) it just does not seem to work, making me despair. If you have any cost, I am very willing to pay back. Regards, Jan

Re: FREE HP-97 Parts

Message #3 Posted by [Erik Wahlin](#) on 8 Feb 2001, 2:29 p.m.,
in response to message #1 by Dan

Hi Dan I am looking for the following parts: HP-97 print head plastic tearbar for printer the two copper contacts that go under the keys. LED with ribbon card reader ribbon cable Any help would be greatly appreciated. Erik

Re: I'm real disappointed - Pars still available

Message #4 Posted by [Dan](#) on 11 Feb 2001, 2:45 p.m.,
in response to message #3 by Erik Wahlin

I specifically asked if this large number of parts was for your own computer, as I could not imagine that this was all for one single calculator.

1) LED module with ribbon cable 2) 2 keyboard contact sheets 3) print head 4) card reader ribbon cable 5) tear bar 6) battery cover locking tab

Your response was "This calculator I am now fixing was at the bottom of the barrel so to speak, and that is why it looks like I am fixing more than one."

Then the very next day after I said I would ship these parts, I find an ad on the HP Museum site soliciting for HP-97 repair jobs.

It was my intention to provide FREE parts to those who were fixing their own calculators. I specifically inquired about the use of these parts and asked about such a case.

Sorry, but I cannot provide this many parts to someone who is just going to charge others. That is not in the spirit of my FREE parts offer, as stated in my emails. Maybe it was my fault for not specifically stating that in my post but IT WAS stated in my emails.

These parts are now available to others who need them for their OWN calculators. Sorry.

If anyone else needs these parts, please send email.

Re: I'm real disappointed - Pars still available

*Message #5 Posted by [Erik Wahlin](#) on 11 Feb 2001, 8:05 p.m.,
in response to message #4 by Dan*

Dear Dan Sorry to get your message. The parts I wanted from you were for my own HP-97. As I explained to you an an earlier email, the machine was from the bottom of the barrel from a basket of parts that I received from someone last year. From that box of parts, I was able to fix two, giving one to my father for X-mas and one to pay for the box of parts.

The service I provide is replacing card reader rubber wheels, basic printer repair, and general cleaning only. The printers can almost always be fixed by taking them apart and cleaning (except for the broken idler gears, which I buy from PIC Design). As far as the repair work, I do this as a service to the HP community. These old calcs are no longer serviced by HP as you know. Believe me, the amount of time I spend fixing these compared with the small amount of money I charge is not very profitable. I use the money from this venture to expand my HP collection. By the way, you very rarely see this service offered on the hp site. I have never seen an ad for repair of HP 97s. I actually got into collecting HP calculators after performing several repairs, and enjoy doing this on my spare time. Please do as you feel fit. Just remember, I did offer to pay/trade for the parts including the shipping. I was not intending to profiteer from your generous offer, but was just trying to fix my own machine.

Sincerely Erik Wahlin

Re: Ok, peace...

*Message #6 Posted by [Dan](#) on 11 Feb 2001, 8:25 p.m.,
in response to message #5 by Erik Wahlin*

I will still send you the parts anyway.

Re: Ok, peace...

*Message #7 Posted by [Erik Wahlin](#) on 11 Feb 2001, 8:52 p.m.,
in response to message #6 by Dan*

Hi Dan, Please don't send the parts if you have any mixed or bad feelings. I'll understand. Thanks Erik

Re: I'm real disappointed - Pars still available

*Message #8 Posted by [Reinhard Hawel](#) on 11 Feb 2001, 11:20 p.m.,
in response to message #5 by Erik Wahlin*

There's surely no way making it into the Fortune 500 list with repairing HP calcs :-)

I'm pretty sure, nobody could afford paying the hours for a pro repairing such things as a business.

I even don't have the time servicing my own calcs, so I couldn't even try to take other peoples calcs into service...

Guess I could need a Keyboard PCB for my HP-92, where half the keys don't react, but I'm not sure now and didn't have the time to make extensive checks. Additionally, if there are some broken traces, it might be easier to repair it, than sending items worldwide.

Anyway, the keyboard layout is different and so I'm not a candidate for this offer.

Erik, you might post a photo series, showing how to repair a completely damaged 97, on this site. I wouldn't want to damage one, only to repair it again :-)

I think, this could be a help for a lot of people (and very interesting too).

BTW: A good restored HP-97 is a nice Christmas gift.

Re: FREE HP-97 Parts

*Message #9 Posted by [Dan M](#) on 8 Feb 2001, 10:08 p.m.,
in response to message #1 by Dan*

Dan:

I am in need of two keys:

In

x^2

My 97 works, but it would be great to have these two keys looking "real" again.

Thanks for your kind offer.

Re: FREE HP-97 Parts

*Message #10 Posted by [Ken Delano](#) on 9 Feb 2001, 5:13 p.m.,
in response to message #1 by Dan*

Dan, I could use the printer gear. If you decide to get rid of the circuit card, I could use that also. I have one key that won't register and another that registers multiple times when pressed once.

Thanks for your generous offer,

Ken

Re: Gear already gone

*Message #11 Posted by [Dan](#) on 18 Feb 2001, 12:35 p.m.,
in response to message #10 by Ken Delano*

Sorry

Re: FREE HP-97 Parts

*Message #12 Posted by [Chris Dalla](#) on 15 Feb 2001, 12:44 p.m.,
in response to message #1 by Dan*

Dan-

If you've still got the circuit boards, I'm thinking I could use the 3-pin semiconductor with the heat sink tab that's on the right-hand side of the PCB (assuming you're looking at the opened calculator from the bottom with the printer at the top left)...I think it's probably a voltage regulator of some sort, and it may help me with a power supply problem I'm having with an HP-91. Thanks very much...

-Chris

Re: FREE HP-97 Parts

*Message #13 Posted by [Erik Wahlin](#) on 15 Feb 2001, 6:07 p.m.,
in response to message #12 by Chris Dalla*

Hi Chris, I have one but don't know if it works. Somebody had cut it out of the circuit board. You are welcome to it if Dave does not have one. Thanks Erik

Re: FREE HP-97 Parts

Message #14 Posted by [Mark Sims](#) on 17 Feb 2001, 6:17 p.m.,
in response to message #1 by Dan

Hello Dan, Thank you for your extraordinary offer. I could use the (i) keytop. If unavailable the "i" keytop or any of the other small keytops would do nicely.

My email in spam busting format is: pyrotexas at rocketryonline daught com

Re: Have lots of keys -

Message #15 Posted by [Dan](#) on 18 Feb 2001, 12:40 p.m.,
in response to message #14 by Mark Sims

Are you referring to the (i) key just above the % sign. I have that one, if that is what you are looking for. I need your email address so I can contact you offboard.

Others have already received parts and others are on the way.

Re: Have lots of keys -

Message #16 Posted by [Mark Sims](#) on 27 Feb 2001, 6:18 p.m.,
in response to message #15 by Dan

Thanks Dan, you have saved another '97 from the heartbreak of missing keyitis.

Re: FREE HP-97 Parts

Message #17 Posted by [jeff brown](#) on 1 Apr 2001, 8:38 p.m.,
in response to message #14 by Mark Sims

wondering if the led driver chip is available.

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EbayTruth@yahoo.com strikes again...favor?

Message #1 Posted by [Gene Wright](#) on 8 Feb 2001, 7:52 a.m.

Hi all. Our price-police busybody struck again. Got an email telling me that only ignorant people would bid on my ebay auctions. Then he accused me of misleading with my auction descriptions... Sure, that's how I got feedback of +325. ;-)

Anyway, do any of you see anything misleading in this auction or its description?

<http://cgi.ebay.com/aw-cgi/eBayISAPI.dll?ViewItem&item=1212539533>

I'd like to know. I think I took great pains to put good pictures of the "problem" areas on this HP67.

What do you all think? Gene

Re: EbayTruth@yahoo.com strikes again...favor?

*Message #2 Posted by [Viktor Toth](#) on 8 Feb 2001, 9:30 a.m.,
in response to message #1 by Gene Wright*

Gene,

I see nothing wrong with your auction, especially since you're saying such nice things about the replaced battery terminal that may, by the looks of it, be the one I did for you :-)

Viktor

Re: EbayTruth@yahoo.com strikes again...favor?

*Message #3 Posted by [Thibaut.be](#) on 8 Feb 2001, 9:45 a.m.,
in response to message #2 by Viktor Toth*

I checked your auction, current highest bidder is a fellow belgian that is has just joined our community of international hp collectors.

If you check my "me" page on ebay (user ID = visu), you'll see the picture of a HP 67 set I sold to one of our fellow members fir USD 200.

I thought this was a good price for both of us, and if someone of us accepted this price it definitely means that is was worth it. Yours seems a bit more complete and in the same condition, so the current price doesn't seem weird to me.

After all, the price of a thing at a certain moment is what the market is ready to pay for it at that moment.. that's why 41CX's go sometimes above the USD 200 on ebay after a week without seeing one there, though they're USD 150 worth....

Re: EbayTruth@yahoo.com strikes again...favor?

*Message #4 Posted by [Gene](#) on 8 Feb 2001, 10:44 a.m.,
in response to message #3 by Thibaut.be*

I appreciate the replies of you two.

I know that Ebaytruth@yahoo.com is just someone with too much time on their hands (or he has some sort of imbalance that causes him to need to do these things), but I wanted external validation that I was trying to disclose fairly the condition of my auction item.

My feedback on ebay is at a +325 right now. The two negatives are not related to the condition of an item (one was from an idiot who dinged me because his email he sent to me bounced (like that was my fault?), the other was a weird incident where my emails to a person in Italy never reached him and his never reached me...quite unfortunate!). The neutral comments are from people who are no longer registered.

Add to that the fact that I've had a HP and TI website up since 1997 and have contributed pictures to Wlodek's HP book. I just get PO'd at some calculator-police nut who thinks he can tell me what something should sell for or tell me that I'm misleading the buyers.

Sorry for the rant. I just needed some reassurance from my fellow collectors that I'm a good guy. :-)

Gene

Re: EbayTruth@yahoo.com strikes again...favor?

*Message #5 Posted by [Rick M.](#) on 8 Feb 2001, 11:52 a.m.,
in response to message #4 by Gene*

"Add to that the fact that I've had a HP and TI website up since 1997"

Add to that the fact that since years before and after that, you've spammed hundreds of non-calculator news groups weekly with your "I'm a poor old kook who can't pay much but I'm looking for old HP calculators" messages. :-)

Come on Gene, ebay pays you well enough to put up with the occasional email. Please deal with it like an adult.

Re: EbayTruth@yahoo.com strikes again...favor?

*Message #6 Posted by [Frank](#) on 8 Feb 2001, 6:43 p.m.,
in response to message #5 by Rick M.*

I can vouch for Gene as fair and I have bought from him. I certainly would not blame anyone for picking up a bargain by a willing seller either as long as they did not intentionally misrepresent the value as an expert.

Re: EbayTruth@yahoo.com strikes again...favor?

*Message #7 Posted by [Rick M.](#) on 10 Feb 2001, 5:02 p.m.,
in response to message #6 by Frank*

I guess the question is what is the "fair price" or "fair markup" for spam? In my opinion, less than zero.

As for "as long as they did not intentionally misrepresent the value as an expert." That's an interesting distinction. I think you're saying it's OK to BE and expert and offer low. You just can't LET THEM KNOW you're an expert and offer low.

Re: EbayTruth@yahoo.com strikes again...favor?

Message #8 Posted by [Frank Knight](#) on 11 Feb 2001, 7:34 p.m.,
in response to message #7 by Rick M.

Before I reply, Rick M. are you by any chance JK ebaytruth? ;+}

I'm feeling left out

Message #9 Posted by [Dave Hicks](#) on 11 Feb 2001, 8:37 p.m.,
in response to message #8 by Frank Knight

Could you please suggest that I might ebay truth too? ;-)

Re: I'm feeling left out - OK, I'll help you

Message #10 Posted by [Reinhard Hawel](#) on 11 Feb 2001, 11:03
p.m.,
in response to message #9 by Dave Hicks

Hi Dave, I'd just like to know, if you're ebaytruth :-)

I haven't even got an email til now. Maybe I should buy something for a ridiculously huge price to get into the club :-)

I haven't to admit, that my last eBay deals were test equipment and there's nobody complaining about prices. This might have to do with the ridiculous price niveaus the used equipment dealers show on their websites.

When asking them about the real price of some items, they loose their trousers rather fast :-)

Thanks Reinhard! ... but wait a minute...

Message #11 Posted by [Dave Hicks](#) on 12 Feb 2001, 12:05 a.
m.,
in response to message #10 by Reinhard Hawel

You say you're an active user of ebay and not receiving these emails. A logical explanation for that is that it's because you're *sending* them. I think *you* could be ebay truth ;-)

Re: Thanks Reinhard! ... but wait a minute...

*Message #12 Posted by [Reinhard Hawel](#) on 12 Feb 2001, 5:23 a.m.,
in response to message #11 by Dave Hicks*

Hey, I'm in the list of the suspects (at last). I already felt not taken seriously as a collector, when I was not mentioned :-)

Somehow I feel, that the prices on eBay are getting more and more crazy, but I have to admit, that some of my bids are in your "Prices and Rarity" list (remember the last "red dot" HP-35 ?). There are also other outstanding entries in the list, that are caused by my eBay perations.

BTW: abt. one and a half year ago I got a complete boxed stainless steel HP-01 for abt \$350 (DM 700) on German eBay. You see, understanding German has it's benefits. You can add this to the list, if you like. Bidding on a HP-01 is an operation for the really crazy guys.

Unfortunately the bids on the recently selling 9100A got so high, that I even didn't have the chance to bid on it. I just wanted to show presence in this auction, but not for \$1700 :-)

So I wouldn't have any reason to complain about the crazy prices, because I'm ready to pay them myself.

Additionally, my self-understanding is, that I'm man enough to not hide behind an unknown yahoo email address. I feel, I can say, what I want without hiding. And how crazy the prices get, I'd never interfere with other people's bids.

Speaking German

*Message #13 Posted by [Dave Hicks](#) on 12 Feb 2001, 6:19 p.m.,
in response to message #12 by Reinhard Hawel*

"You see, understanding German has it's benefits"

Or as the man said while we were haggling over a calculator in Munich: "You should learn German. I had to!"

I've added your HP-01 price. I get people complaining that the prices in the list are too high which is probably true because I've been taking the easy way out and only tracking auctions. On the other hand I also get complaints that I missed a new record high auction.

Re: I'm feeling left out

*Message #14 Posted by [Frank Knight](#) on 12 Feb 2001, 9:37 a.m.,
in response to message #9 by Dave Hicks*

Only if you start going by Dave M. or something else will you be suspect ;+}! JK ebaytruth seems to have many aliases, or is that alia?

Re: EbayTruth@yahoo.com strikes again...favor?

*Message #15 Posted by [Rick M.](#) on 12 Feb 2001, 1:48 p.m.,
in response to message #8 by Frank Knight*

No. Are you "Gene"? Oh never mind. I understand that this is just a diversion. :-)

Re: EbayTruth@yahoo.com strikes again...favor?

*Message #16 Posted by [Frank Knight](#) on 12 Feb 2001, 2:07 p.m.,
in response to message #15 by Rick M.*

Actually Gene and I co-founded the Nashville Area Branch of people who discuss calculators all the time and we are not the same person. ;+}

Re: EbayTruth@yahoo.com strikes again...favor?

*Message #17 Posted by [Rick M.](#) on 12 Feb 2001, 4:03 p.m.,
in response to message #16 by Frank Knight*

Ah the NABOPWDCATT.

Seriously Frank, now that I understand that I'm talking about behavior in the abstract and you're talking about your friend I can see how we're never going to agree so let's drop this.

Re: EbayTruth@yahoo.com strikes again...favor?

*Message #18 Posted by [Almost a customer](#) on 8 Feb 2001, 3:33 p.m.,
in response to message #4 by Gene*

>I just needed some reassurance from my fellow collectors that I'm a good guy

Thanks to the power of free email accounts, I've been able to have conversations with you both as a collector and as a typical naive owner of an old calculator who responded to one of your spams. Based on that, I would have to say that you're a highly successful used calculator dealer. Does that make you a "good guy"? I don't know. Personally, I think the world could do without used car and used calculator dealers. However, they obviously appeal to many people because they stay in business. Maybe I'm not a "good guy" either for tricking you into showing both sides of your business. Sorry.

You're a successful businessman. Criticism comes with the job. It wasn't even public until you made it that way. I don't think it's a big deal.

What's not a big deal is your anonymous remark

*Message #19 Posted by [Don](#) on 8 Feb 2001, 5:16 p.m.,
in response to message #18 by Almost a customer*

Criticizing someone without naming yourself is very low.

Cut the guy some slack.

OK Folks - Time for a new rule

*Message #20 Posted by [Dave Hicks](#) on 8 Feb 2001, 7:02 p.m.,
in response to message #19 by Don*

Please don't use multiple names to back up your position when you post here. If you're concerned about privacy, It's OK to use a name that can't be used to identify you but please stick to just one name.

"Don" I know who you are. Before this post, I was considering your email request to censor this thread. It was a difficult issue but your posting under an assumed name (and criticizing someone for what you just did) has simplified it for me. I will not delete the messages you don't like

I really dislike having to make posts like this.

Re: EbayTruth@yahoo.com strikes again...favor?

*Message #21 Posted by [John](#) on 8 Feb 2001, 11:29 a.m.,
in response to message #1 by Gene Wright*

> Our price-police busybody struck again. Got an email > telling me that only ignorant people would bid on my > ebay auctions. Then he accused me of misleading with > my auction descriptions...

This will be my one and only comment on this posting, to you. You seem to have a guilty conscience.

- 1) You fail to tell everyone that this email that you refer to was a _response_ to an email that _you_ sent me.
- 2) The content of the email said _nothing_ about anyone being ignorant. And no where did it say that you were misleading. Your description, in fact, was quite accurate.
- 3) It was simply a response to your _boasting_ (to me) how you were getting way more than the \$130 that I predicted.
- 4) I simply pointed out that my prediction said \$130, unless you got a newbie to bid on it. Fess up, that's what _this_ email said. Why do you feel the need to exaggerate the content and tone?

That was the sum total of the email. Why do you feel the need to bring to a public forum something that no one else ever saw and was simply a response to _your_ email.

It is true that it is none of my business. I simply pointed out what I thought you might get. If you did not need the suggestion, fine. Communication would have ended there had you not continued to communicate with me on the progress of your auction.

99% of all of the emails that ebaytruth sent were just emails that told people where they could get HP merchandize at rock bottom prices. When I started collecting HPs, readers of this forum emailed me that same information.

In closing, I would like to point out one fact, that you learn in psychology 101. A person who makes up an email content and uses words such as _ignorant_ is using words from his mind not mine. It shows what _you_ think and not what I said.

J.K.

EbayTruth himself speaks!

*Message #22 Posted by [Gene](#) on 8 Feb 2001, 11:59 a.m.,
in response to message #21 by John*

1. Yes, this second email you sent WAS in reply to my initial response to your unsolicited email to me. Guilty.
2. True, you did not use the word "ignorant" about my ebay bidders. You stated "newbie" which I took to mean "uninformed". Think that's correct.
3. I did not "boast" to you that I was getting away with anything. I pointed out how your "truth" prediction of about \$130 on my auction was apparently flawed. This was also the case on those auctions you emailed me about from 2 weeks ago - they sold for much more than you had predicted - again unsolicited, I might add.
4. No need to exaggerate anything. You feel the need to email people unsolicited and accuse them (me anyway) of providing misleading information in their auction listings. Find something better to do with your time.

Sorry, but if you bring it upon yourself to email people, you can't shirk responsibility away if they decide to tell you how uninformed you may be.

My conscience is fine. Apparently, your impressions of the auction listing is not shared by those on this forum. That's what I wanted to confirm.

So, in addition to being a price police person, you're also a pyschologist? What does your psych training say about someone who emails sellers telling them they are asking too much

or have done this or that without their desire to communicate with you?

The emails that ebaytruth may have sent to bidders on ebay were against ebay policies. Violating rules is another of your traits?

I'm hardly ignorant of HP's or calculators. Not at all. I support them and sell extras that I get and have a very good reputation. What's your reputation and how has it been established? We'll wait.

Continue being the ebay auction price police if you want. But if you continue sending unsolicited email you'll only annoy people who do not wish to talk to you.

Free country, I guess. Gene

Re: EbayTruth@yahoo.com strikes again...favor?

*Message #23 Posted by [Frank](#) on 8 Feb 2001, 6:46 p.m.,
in response to message #21 by John*

IT'S HIM!! Ebaytruth just found, alias John King, JK, who knows what else.....

Re: EbayTruth@yahoo.com strikes again...favor?

*Message #24 Posted by [DaveJ](#) on 8 Feb 2001, 11:30 a.m.,
in response to message #1 by Gene Wright*

Obviously this person has a lot of time on his hand to waste. Only issues are if you greatly misrepresent a product as working or cosmetic condition. Obviously for any transaction on EBay the risk is taken by the buyer and noone should be too surprised when things are too good to be true or greatly overpriced. EBay is prone to shill bidding by buddies or by fake e-mail addresses.

Re: EbayTruth@yahoo.com strikes again...favor?

*Message #25 Posted by [Frank Knight](#) on 8 Feb 2001, 6:39 p.m.,
in response to message #1 by Gene Wright*

Glad to hear your part of the team! I thought I was the only one originally! Frank

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And the winner is...

Message #1 Posted by [Thibaut.be](#) on 8 Feb 2001, 4:42 a.m.

According to your votes, the final results are :

- n° 12 ----> HP 28S/C - n° 11 ----> HP 38E/C - n° 10 ----> HP 34C - n° 8 ----> HP 15C and HP 27 -
n° 7 ----> HP 32S/SII - n° 6 ----> HP 67 - n° 5 ----> HP 35 - n° 4 ----> HP 97 - n° 3 ----> HP 48G/G+/
GX/SX - n° 2 ----> HP 41C/CV/CX And the winner is.....

- n° 1 ----> HP 42 S

Feel free to comment these results.

Please note that 20 people took part in this inquiry.

Re: And the winner is...

Message #2 Posted by [Ron Ross](#) on 8 Feb 2001, 8:44 a.m.,
in response to message #1 by [Thibaut.be](#)

I don't have an Hp97 but I would probably have to agree with the top 5 candidates. I also feel that the hp42s is beyond a doubt the best of the bunch, not only because of power but it still fits in the pocket.

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Postion of + - x / keys

Message #1 Posted by [Chris Randle](#) on 7 Feb 2001, 3:14 p.m.

From my deep & extensive research of about half an hour, it would appear that the HP35 in 1972 and all subsequent handhelds up until the HP10C in 1981 had their four function keys in the order / x + -. Suddenly there's a switch to + - x /.

- 1) Where did this "odd" / x + - come from? It seems natural, to me, to have the + at the lower corner since it's the most likely to be used.
- 2) The desktops before, during & after these nine years all had + - x /.
- 3) Surely there must have been a hoo-har in '81 when, after nearly a decade, a fundamental and, by now, "standard" layout was completely altered? Something akin, I'd imagine, to suddenly having a little piddly enter key hidden away somewhere. What? They have? Oh sorry, didn't notice!

I cannot find any reference to this in any history. Any info, reminiscences, comments?

Re: Postion of + - x / keys

Message #2 Posted by [Dan M](#) on 7 Feb 2001, 5:04 p.m.,
in response to message #1 by Chris Randle

Chris:

Don't forget, that not only did the "order" change, but the keys themselves moved from one side of the number keys to the other. From my desktop survey today:

HP 97: Keys on right side, /x-+

HP 41: Keys on left side, -+x/

HP 42S: Keys on right side, /x-+

This really bugs me when I try to do calculator math without looking, and I get used to one machine, then use one of the others.

From my earlier research into the matter, nobody knows why the "switch" was made or whatever. There is some history of key position dating back to manual or electro-mechanical calculators that I don't recall in enough detail to report on. Anyway, if anybody knows more, please enlighten all us curious users.

Dan M.

Re: Postion of + - x / keys

*Message #3 Posted by [Doh Evans](#) on 7 Feb 2001, 6:41 p.m.,
in response to message #2 by Dan M*

Where is the "equals" key relative to those?

-Doh

Re: Postion of + - x / keys

*Message #4 Posted by [Chris Randle](#) on 9 Feb 2001, 4:37 p.m.,
in response to message #3 by Doh Evans*

Couldn't tell you. All my HP calcs seem to have a factory fault and are missing their equals key!

Re: Postion of + - x / keys

*Message #5 Posted by [Steve \(Australia\)](#) on 9 Feb 2001, 8:04 p.m.,
in response to message #4 by Chris Randle*

Have a closer look!

It hides on:

the 2 key in a 41

the 0 key on a 48GX (and probably on 48S, 48SX, 48G, and 48G+)

somewhere on a 6

And umm, the 38G has one too, but it's called enter!

: -)

Re: Postion of + - x / keys

*Message #6 Posted by [Victor](#) on 11 Feb 2001, 2:30 a.m.,
in response to message #5 by Steve (Australia)*

It's right out in the open on my HP-28S (on the keyboard on the left side). But it doesn't work right! When I try to do $2+2=$ (and expect to get 4) it says "+ Error: Too Few Arguments" (Dang!) ;-)

Re: Postion of + - x / keys

*Message #7 Posted by [Kevin Schoedel](#) on 8 Feb 2001, 9:06 a.m.,
in response to message #2 by Dan M*

As Chris points out, (almost) all the desktops have the +-x/ order, and (almost) all the calculators have either +-x/ on the right, or /x+- on the left. Note that for 'matching' pairs of models like the HP67 and HP97, the handheld has /x+- and the desktop has +-x/.

Most non-HP calculators I've seen have had the right-side +-x/ layout. (A few old ones have the keys in a square, or some other odd variation.) I think this makes sense from the point of view of the evolution of adding machines, beginning with a large "+" on the right, and adding new operations above in the order of ease of mechanical implementation. I assume HP switched their handhelds to this layout to be consistent with everyone else.

As for the /x+- layout, last time this came up I speculated that HP put the most 'important' operation, "+", on the 'home' row of the keyboard, that is, across from "5", and the rest of the layout follows: /x should go together, so they're together where they fit, below "+", and "x" is adjacent to "+" since multiplication is more important and 'closer' to addition than is division.

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HP-21 Battery Charging Problems

Message #1 Posted by [Jonathan](#) on 7 Feb 2001, 12:07 a.m.

My dad found his old HP-21 and gave it to me! Nice calculator, only I find the rechargeable batteries very annoying. When I charge them, sometimes they'll keep a charge and other times they don't accept any power at all! I've checked the contacts, the charger gets warm, the calculator stays cold. Any suggestions? Any place to buy batteries? One last thing...being new to this calculator and not having a manual, how the heck do you properly use the memory recall arithmetic? Thanks.

Re: HP-21 Battery Charging Problems

Message #2 Posted by [Viktor Toth](#) on 7 Feb 2001, 5:07 a.m.,
in response to message #1 by Jonathan

Jonathan,

If the calculator stays cold, there's a bad contact somewhere. There are two likely possibilities. Perhaps the charger cable is broken near the wall wart or the connector. More likely in my experience is a bad contact between the battery terminals and the connectors inside the battery bay. This problem is troublesome (those tin-plated contacts tend to oxidize, hence the problem) and it's also dangerous, because if you ever turn on the calculator while the charger is hooked up and the battery is not connected properly (and cannot perform its power regulation function) you can destroy the calculator in a matter of seconds.

Viktor

Re: HP-21 Battery Charging Problems

Message #3 Posted by [Frank](#) on 7 Feb 2001, 3:12 p.m.,
in response to message #1 by Jonathan

Viktor is likely on to the solution as the battery pack springs weaken with age as well. Go to Radio Shack and buy a small package of the flat "matchlight" solder. taking two strips, fold each in half individually, and slide in front of the battery contact in the pack just past the plastic housing so it will stay in. Reinsert pack and test. Try two strips if needed but can make the pack hard to get out.

Re: HP-21 Battery Charging Problems

Message #4 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 7 Feb 2001, 7:15 p.m.,
in response to message #1 by Jonathan

Do not use the AC adapter if the batteries are not in good condition or with good contacts. You may ruin your nice machine in a few (milli)seconds. See article by Katie Wassermann about rebuilding batter packs, at the Articles Forum here at the MoHPC.

Re: HP-21 Battery Charging Problems

Message #5 Posted by [db](#) on 8 Feb 2001, 12:18 a.m.,
in response to message #4 by Andrés C. Rodríguez (Argentina)

take all that good advice seriously. i didn't know and killed a 22 a few years ago; a calculator that could have lived another 20 years. i still feel dumb.

Re: HP-21 Battery Charging Problems

Message #6 Posted by [Reinhard Hawel \(Austria\)](#) on 9 Feb 2001, 9:26 p.m.,
in response to message #4 by Andrés C. Rodríguez (Argentina)

I'd even charge the battery pack externally to avoid any damage. I always have a risky feeling, when I'm charging such batteries inside a 20 series calc.

Besides that, the charging circuit seems to be not much more than a diode and a resistor (can anybody confirm that ?) which I consider a very bad design practice, even when it was state of the art in the 70s.

The batteries could live much longer when you don't "grill" them using that charging circuit.

Using the battery pack to smoothen the rectified power is a crime from the view of the electronics engineer, especially when the contacts simply can't hold forever. Most HP-2x users surely didn't ever know, what killed their calculator...

Re: HP-21 Battery Charging Problems

Message #7 Posted by [Steve \(Australia\)](#) on 9 Feb 2001, 9:31 p.m.,
in response to message #6 by Reinhard Hawel (Austria)

> Besides that, the charging circuit seems to be not much
> more than a diode and a resistor (can anybody confirm that ?)

I certainly can. I was inside a couple of these last night and I confirm that

Re: HP-21 Battery Charging Problems

Message #8 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 11 Feb 2001, 9:38 a.m.,
in response to message #6 by Reinhard Hawel (Austria)

The half-wave rectifier (one diode) produced a pulsating current that was supposed to help charging the batteries in a shorter time than a steady current does. I remember I read this at the time, I cannot quote the source.

In "defense" of HP 2x, keep in mind that simple ICs as voltage regulators or charging controllers were not available at the time. And I admit I have a soft spot for designs a mere mortal can understand. But some more protection, like a zener diode should be there, indeed.

Re: HP-21 Battery Charging Problems

Message #9 Posted by [bill duncan](#) on 12 Feb 2001, 1:30 a.m.,
in response to message #8 by Andrés C. Rodríguez (Argentina)

I wonder if there's something to be said for retrofitting with a zener?

I have an HP-29C which is one of my favourite machines. Fortunately I had the foresight at the time to get the external reserve power pack charging unit (82028A). So that, along with a spare battery means I never have to plug it in directly. Nevertheless, it would be nice to be able to plug it in ... (without being worried sick) <g>

And many people, probably most, don't have the external unit. Maybe there's room for a project to build some for those people that need them. (They're pretty simple. I haven't opened mine up, but I suspect that the most difficult part would be to fashion a connector which worked.)

Cheers!

Re: Update on HP-21

Message #10 Posted by [Jonathan](#) on 11 Feb 2001, 12:56 a.m.,
in response to message #1 by Jonathan

Thanks for all of your advice and education guys. My calculator is doing something really strange now. I haven't charged it since before I posted the original message, but when I turn the calculator on, the calculator LEDs light up for about 5 seconds and then die off. The same thing happens again when I turn it on about 20 seconds later (over, and over...). Does this show something faulty in the calculator's circuitry? Something tells me this may turn out to be a good lab project for me next quarter in school (I'm taking a course in electricity & magnetism).

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HP 85B Power Supply Question

Message #1 Posted by [Michael \(Texas\)](#) on 6 Feb 2001, 9:33 p.m.

I recently purchased a surplus HP 85B that apparently had been modified to operate at 48V. In fact the warning on the side of the machine states: "CAUTION - THIS UNIT HAS BEEN MODIFIED FOR 48V OPERATION GND=_12V ON RELAYS AND MODEM". The machine has MCI property tags on it. I guess my questions are:

- a) has anyone ever run across a similarly modified 85B?
- b) does anyone have a power supply wiring diagram for the 85B or a service manual?
- c) could the existing power supply have been modified to run on 48V (or ~60V) without replacing the transformer (maybe bridging a phase on the 220V input tap?? - please excuse my ignorance of electronics design if that statement happens to be preposterous)?
- d) what could be meant by the second part of the warning "GND=_12V ON RELAYS AND MODEM"?
- e) what should the transformer output tap voltages be (it does appear to have two output taps - I guess one for the CRT and one for the other circuitry)?

Any help would be greatly appreciated.

Re: HP 85B Power Supply Question

Message #2 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 7 Feb 2001, 7:12 p.m.,
in response to message #1 by Michael (Texas)

Some equipment used by telecommunications companies is adapted to run with 48 V DC, so to simplify the use of batteries as a backup power source. It may be your case, if so, please note that it is DC, no AC !!

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41CV Won't Turn On

Message #1 Posted by [Jim Kimes](#) on 6 Feb 2001, 10:20 a.m.

Two years ago I bought a 41CV from a friend who hadn't taken very good care of the unit. The battery holder connections were somewhat corroded. I cleaned it up and it worked, although intermittently, until now. Now it won't turn on at all, even when I switch battery holders (I have two other 41s) or try the MEMORY LOST routine. The contacts do not actually look that bad. Is there something else I should try? Also, Radio Shack has an expensive spray (\$10.00) especially suited for cleaning contacts. Has anyone tried that? Would like to get the unit going. Otherwise, it's in good shape. Thanks. Jim K.

Re: 41CV Won't Turn On

Message #2 Posted by [Frank](#) on 7 Feb 2001, 3:49 p.m.,
in response to message #1 by Jim Kimes

Yes, tighten the case screws, especially the lower one's under the feet. Do not strip them. If stripped, this site has repair instructions.

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HP49 Algebraic mode manuals

Message #1 Posted by [Fernando](#) on 6 Feb 2001, 3:52 a.m.

I need to get information of how to program the HP49 in algebraic mode. Is it possible to write and check progrms in the PC and then transfer them to the HP49?

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MANual for HP3421A

Message #1 Posted by [Gerhard M. Oberforcher](#) on 5 Feb 2001, 9:23 p.m.

I am looking for the owner's manual for a HP3421A data aquisition/ control unit. Also, I need the breadboard assembly manual (P/N: 44464A, option 040).

I would be willing to photo copy it and return it to you, paying for shipping both ways, if you need the documentation yourself.

Since HP no longer supports the unit I am out of luck with them.

Thank you, Gerhard

Re: MANual for HP3421A

*Message #2 Posted by [Reinhard Hawel](#) on 5 Feb 2001, 11:56 p.m.,
in response to message #1 by Gerhard M. Oberforcher*

I scanned the manual some time ago and have now to assemble the single files into a *.pdf file.

When this task is completed, you can get it.

I also own xeroxed copies of the service manual, but these are not scanned right now.

Re: MANual for HP3421A

*Message #3 Posted by [Philip Reagan](#) on 6 Feb 2001, 10:38 a.m.,
in response to message #2 by Reinhard Hawel*

I'm also interested in the manual once you have the info compiled.

Thanks

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HP48G MEMERYPROBLEMS

Message #1 Posted by [jack heiden](#) on 5 Feb 2001, 5:29 p.m.

Can anyone tell me how to upgrade my 48G with 32kb to 128kb? I would like to run bigger progtams on it an d want to know how it could be done

thnx

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hp48g memeoryexpansion

Message #1 Posted by [jack heiden](#) on 5 Feb 2001, 5:19 p.m.

I was wondering whether it is possible to upgrade the memory of my 48g. i noticed that I'm having memoryproblems running bigger programs and want to know how it could be done because Hp doesn't upgrade 32kb to 128kb like the g+ or gx. thnx

Re: hp48g memeoryexpansion

Message #2 Posted by [Paul Brogger](#) on 5 Feb 2001, 9:40 p.m.,
in response to message #1 by jack heiden

Below in the forum you'll see a couple responses from me re: "48G Display Problem (Does anyone know how to open?)" -- There's a link to a web site that describes how to open.

Do Google (or whatever) search on "HP-48G memory upgrade" and you'll probably find several descriptions of what to do.

I upgraded a couple, and it turned out to be pretty easy. (I do have some experience with digital electronics.) You might also consider simply buying a GX or G+ -- simpler and less painful!

helpme please!!!

Message #3 Posted by [Nacho](#) on 12 Feb 2001, 7:18 a.m.,
in response to message #2 by Paul Brogger

Hello Everybody, my name is Nacho, from Spain.

(Excuse my poor english)

I'm searching for people who could help me with my HP48G+. I've got it 1 year ago, and i would receive the biggest number of program, information, help, and everything you can post me. THANKS.

And I want information about HP49 for a fool friend that hasn't any idea about it.

I w desesperately information about SYSEvals an how to cheat ROM.

Thank tou very much.

Re: helpme please!!!

*Message #4 Posted by [Reinhard Hawel \(Austria\)](#) on 12 Feb 2001, 10:03 a.m.,
in response to message #3 by Nacho*

Hi Nacho

Great you found this site. Unfortunately this is not exactly the right address for your needs (though some people here might be able to help you with a more specific question).

I'd just visit another site:

<http://www.hpcalc.org>

This site stacks tons of software and info for the 48/49 series and you'll surely find, what fits your needs.

This site here is mainly intended for older calculators (til 1986, but the border isn't that exact).

However, you're invited to participate in the diskussions here in the museum, it's just mainly about older calculators.

Is your 48 your first HP calculator?

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Hp12C

Message #1 Posted by [Ruby](#) on 5 Feb 2001, 4:33 p.m.

HELP!!

How do I reset the display (LCD) to show dollars and cents, carried out to 5 places?

I know it's a simple procedure, but I can't remember what it is.

Thank you....whoever you are... ;o)

Re: Hp12C

Message #2 Posted by [Gene](#) on 5 Feb 2001, 5:05 p.m.,
in response to message #1 by Ruby

By the way, the display won't show the dollar sign, if that's what you mean. Therefore, it can't show dollars and cents carried out to 5 places.

It can show 5 places. It can show 2 places to mimic dollars and cents.

But it can't really show both at the same time.

Re: Hp12C response

*Message #3 Posted by [Ruby](#) on 5 Feb 2001, 5:48 p.m.,
in response to message #2 by Gene*

I realize the Hp 12C doesn't show the \$ sign! However it does calculate \$ and cents showing 5 places after the decimal point!

All I need to know is how to get back to that setting....."00.00000". I would be happy for 4 places after the decimal point, ie; "00.0000".

Please.....?

thank you.....

Re: Hp12C response

*Message #4 Posted by [Gene](#) on 5 Feb 2001, 5:57 p.m.,
in response to message #3 by Ruby*

Actually, this is answered down below.

Press the yellow key then the digit key for the number of decimal places you want.

It will show 0.00 if you press yellow shift 2 It will show 0.0000 if you press yellow shift 4

Good luck, Gene

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HP 33C repairs

Message #1 Posted by [Frank \(Germany\)](#) on 5 Feb 2001, 2:25 p.m.

Hi,

I try to fix a HP 33C, which doesn't do anything when I turn it on. So my first guess was, that it might be a contact problem. I managed to open the case - it is one of the older models, which has metal retainers inside and where the spine holds the chips in place (like the left one in <http://www.hpmuseum.org/30comp.jpg>).

I don't want to disassemble the calculator completely, so my question is: does anybody know if the minus pole of the battery has to have contact with any part of the circuit board you can access easily (i.e. through the "windows" of the plastic cover)? The positive pole has contact (on/off switch in off position) with the first three little contacts (from the left) in the left window, but I can't find any point the negative pole has contact to.

Thanks in advance, Frank.

Re: HP 33C repairs

Message #2 Posted by [Frank \(Germany\)](#) on 9 Feb 2001, 1:35 p.m.,
in response to message #1 by Frank (Germany)

So I have to answer the question myself. Actually, disassembling the calculator after opening the case isn't that bad. It turned out that the problem really was a contact problem (battery "-" is connected with the fourth little contact in the left "window"). Treating the flexible connection between the batteries and the circuit board with a little bit of silver paint solved it. Wow!

Frank.

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File transfer between hp71 and Laptop

Message #1 Posted by [opotente](#) on 5 Feb 2001, 12:51 p.m.

I have a HP 71b and a HP IL - RS 232 interface HP 82164. Is it possible to transfer text files, LEX files and basic binary files back and forth between the hp 71 and the laptop ? Do I need a special software in order to do this?

I thank everybody in advance for the help

Opotente

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HP-21 and Alkaline Cells

Message #1 Posted by [Stefan Vorkoetter](#) on 5 Feb 2001, 11:23 a.m.

Does anyone know if an HP-21 will operate on alkaline cells, or will the too-high voltage damage it? I'm restoring a 21 for a friend, and he no longer has the charger, so using alkalines would be the best option.

Re: HP-21 and Alkaline Cells

Message #2 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 5 Feb 2001, 12:41 p.m.,
in response to message #1 by Stefan Vorkoetter

I had used alkaline batteries on a HP 25 (not C) without problems. It seems that the voltage, while a little greater than NiCd, is within tolerance. The HP 21 should be the same (no warranties!).

Please check previous postings and obtain more opinions, to reassure yourself.

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Free video on using HP12C on web

Message #1 Posted by [Gene Wright](#) on 5 Feb 2001, 10:20 a.m.

I went up to Rhode Island back in December and was videoed giving a presentation on the time value of money using the HP12c calculator.

The company that did this provides review material for the CFA exam (chartered financial analyst). For a limited time, they have made these real video sessions available for free viewing on the web. They total about 3.5 HOURS of instruction on things from simple interest to net present value calculations.

If anyone's interested in seeing these, drop me an email.

Seeing how I explain things may also interest a couple of you in my business math textbook. ;-)

Gene

Re: Free video on using HP12C on web

Message #2 Posted by [Ruby](#) on 5 Feb 2001, 4:40 p.m.,
in response to message #1 by Gene Wright

YES! I am interested in viewing the "Free video on using HP12C on web".

I am particularly interested in resetting the LCD display to show dollars and cents, carried to 5 numbers.

THANK YOU....I can't wait...

HP12C display formatting

*Message #3 Posted by [Gene](#) on 5 Feb 2001, 5:04 p.m.,
in response to message #2 by Ruby*

To change the number of decimals on the HP12C, do the following...

Press the yellow shift key which is labelled "f" the press the digit key corresponding to the number of decimal places desired.

For example, to show 2 decimal places, press Yellow Shift 2

To show 5 decimal places, press Yellow shift 5.

That's all there is to it. No need for a video for that. :-)

Re: Free video on using HP12C on web

*Message #4 Posted by [Ruby](#) on 5 Feb 2001, 7:20 p.m.,
in response to message #1 by Gene Wright*

hello...

I am again requesting access to the "Free video on using HP12C on the web" as offered.

In response to your latest message to me, I am interested in learning how to use my 12C....other than the display format.

Thank you...

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Anyone else getting weird email from "EbayTruth"?

Message #1 Posted by [Gene Wright](#) on 5 Feb 2001, 10:07 a.m.

As most here know, I sell quite a bit of goodies on ebay.

The last two times I've listed items, I've received bizarre email from a John King aka Ebaytruth@yahoo.com telling me how crazy I am for placing "Buy it Now" prices as I did, then offering his supposed expert advice as to how my descriptions are inaccurate and his thoughts on where the final bid will end up.

As far as I know, my descriptions are perfectly accurate. I disclose anything I know about an item.

I tend to believe that I'm a fairly reputable person in the HP community, since I've been at it longer than many and do have a website around. Hey, I even contributed pictures of HPs to Wlodek's collectors book. You may not like that I sell stuff on ebay, but I've got to support my habit. :-)

First of all, I know that some people have don't have enough to do, so perhaps that is his problem.

Second, he doesn't know what he's talking about, as his predictions bear little resemblance to where the final bids end up. :-)

Third, is it just me that this person is picking on or has anyone else received email?

Don't worry, I am not bothered by this...it's just strange that there is now an apparent ebay-price-police person around.

Gene

Re: Anyone else getting weird email from "EbayTruth"?

Message #2 Posted by [Thibaut.be](#) on 5 Feb 2001, 10:15 a.m.,
in response to message #1 by Gene Wright

Hello,

I also received a mail (I have to check by whom) that courteously explained that I was stupid to offer low prices for a buy it now option sale; as people would bid on the item just to blast this option.

I'm not sure it comes from the same person, I'll check it for you.

Don't worry for selling things on ebay, I also do; it's still one of the best place to sell stuff and when you're looking for something, there is a chance you find it there... What I usually do is to advertise the stuff here and propose unsuccessful items on ebay, so that the museum community gets a first chance to buy what I have for sale...

Re: Anyone else getting weird email from "EbayTruth"?

Message #3 Posted by [Chris Catotti \(Florida, USA\)](#) on 5 Feb 2001, 12:33 p.m.,
in response to message #2 by Thibaut.be

Yes, I received an email from him late December 2000, chastising me for selling magnetic cards on ebay with the words "Why only \$0.41 - NO RESERVE? To make bidding fun and because we all know its worth more! (and you pay \$3.50 shipping)." I sell on ebay to support a committed collection of three things that I generally USE:

1. The HP-41C/CV/CX (circa 1979-1986)
2. The Cambridge Z88 computer (circa 1987-1990)
3. A world type set of coins from my birthyear (1959) -- well I don't exactly use them, but ever since I was a teenager the idea of collecting the whole set (400+ coins) and finding a museum to donate them to in exchange for the museum displaying them has appealed to me.

Anyway, I sell to support this collecting which can be expensive (\$300+ for an ADVANCED HEPAX module for the HP-41). But, despite its cost, I use it and the HEPAX with its 16K RAM is plugged into the HP-41CX that I carry back and forth from home to office.

Generally, I sell on ebay to maximize revenue, but specifically I love to trade with other

collectors, and go out of my way to help someone who wants an HP-41 item TO USE, not just cross off a list of what they don't have yet.

Re: Anyone else getting weird email from "EbayTruth"?

Message #4 Posted by [Opotente](#) on 5 Feb 2001, 12:54 p.m.,
in response to message #1 by Gene Wright

Perhaps you discovered another "mail spammer"

Br. and don't worry !

Re: Anyone else getting weird email from "EbayTruth"?

Message #5 Posted by [Rafa, Spain](#) on 5 Feb 2001, 2:24 p.m.,
in response to message #1 by Gene Wright

I also received an e-mail from a John King a month ago or so, when bidding for an HP item. I don't remember exactly the message, but it say something as I was crazy in putting my bid causing the price to increase. It said that if I retracted my bid! this person could tell me a place out of e-Bay where I could find the item cheaper...following the secure tip posted on e-Bay for this cases I simply ignored the message. No more news from this person since then.

Perhaps if we all emailed "ebaytruth@yahoo.com"...??

Message #6 Posted by [Gene](#) on 5 Feb 2001, 3:52 p.m.,
in response to message #5 by Rafa, Spain

Maybe we should all tell him to get a life?

Actually, just kidding...don't do a massive email!

Message #7 Posted by [Gene](#) on 5 Feb 2001, 3:59 p.m.,
in response to message #6 by Gene

Lest anyone think i was serious...don't do this...would not be nice! :-)

Re: Perhaps if we all emailed "ebaytruth@yahoo.com"...??

Message #8 Posted by [Frank](#) on 5 Feb 2001, 4:16 p.m.,
in response to message #6 by Gene

As quoted in my last message to him, he did not! ;+}

Re: Anyone else getting weird email from "EbayTruth"?

Message #9 Posted by [Frank](#) on 5 Feb 2001, 4:13 p.m.,
in response to message #1 by Gene Wright

Yes, Gene and others, I have gotten email from this individual and have forwarded/reported same. Messages range from threatening to coaching on price and offerings, including low offers at times. Had to finally block it.

Re: Anyone else getting weird email from "EbayTruth"?

Message #10 Posted by [Robert](#) on 5 Feb 2001, 5:04 p.m.,
in response to message #1 by Gene Wright

I think this is just a case where you have to take the good with the bad.

Last year I got all sorts of weird emails from one of my top bidders. He was, to say the least, eccentric, but he was giving me a \$5100 profit on a \$200 item, so I figured, what the heck! We all sell on ebay to seek out these crazies so I think of this as just a cost of doing business.

Re: Anyone else getting weird email from "EbayTruth"?

Message #11 Posted by [Glynn](#) on 5 Feb 2001, 10:01 p.m.,
in response to message #1 by Gene Wright

Back in December, while Chris Catotti was on vacation (so I know it isn't him! ;-)) I bid in a dutch auction for some magnetic cards for the HP97, from Fred Klinzmann of San Clemente, CA...

I got an email shortly after my bid:

"I see you bid on HP products a lot. But I also see that you are bidding \$17+ for packs of 80 mag cards.

Are you not aware that these can be purchased for \$1.75 for packs of 80?

If you send me a mailing address, I will send you 2 packs FREE.

Trust me, I would not do this if they were worth anywhere near \$20/pack.

Merry Christmas,"

And that is just how it ended. It was sent by a "John King", and the email address was

ebaytruth@yahoo.com.

I took it as a possible dissuasion from my bid-- somebody wanting me to drop my bid to allow him to acquire cards for less. Now, I happen to know that if I sit and wait, I can find cheaper on eBay than I did. But I was wanting them THEN, and that's why I bid the 17. on the cards. I got them.

I searched for ebaytruth@yahoo.com on eBay. Not a registered user. I looked for John King. Same result. I looked at my fellow bidders. Nothing that pointed to a yahoo address. So maybe just a "concerned citizen" (yeah right) or else a missive from someone who chose to reveal himself to me through an email account at a site (Yahoo) where ANYONE can be anyone else, just a dummy mail-account.

I did not respond to John King, though I felt like saying, AFTER this auction, if your offer still stands, you can simply tell me where to buy them, thanks. But I decided that, since he did not offer to tell me his info, it was probably a fellow buyer upset that his five-buck bid wasn't going to hold up in the dutch auction.

I am GLAD people will sometimes inform me when I am being stupid. I accept criticism and advice from people who are open and either known to me or willing to make themselves known to me. But anonymous stuff or from pseudonyms, who don't even have the guts to tell me who they are or why they are concerned on my behalf, whom I don't know from here at MoHPC, that just suggests FRAUDULENT behavior.

I would have responded better if he had given me a real contact address and offered to sell cards to me at \$16!

I don't know anything about John King but...

*Message #12 Posted by [Dave Hicks](#) on 5 Feb 2001, 11:06 p.m.,
in response to message #11 by Glynn*

I do believe that \$1.75 for a pack of 80 cards was (still is?) the EduCalc shutdown / Jim Carter price. I bought many packs from him (and a lot of other stuff) but I don't know if he's still selling them.

I've seen a lot of Jim's stuff resold on eBay for 3-15 times his price. You can search for "Jim Carter" further down in the forum (Jan 11) or go to:

<http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/forum.cgi?read=7562>

By the way, I believe eBay's user agreement specifically forbids what "Mr. King" did (auction interference) so it might be understandable that he was shy if he was/is an ebay

user.

Re: Anyone else getting weird email from "EbayTruth"?

*Message #13 Posted by [Viktor Toth](#) on 6 Feb 2001, 4:51 a.m.,
in response to message #11 by Glynn*

> would have responded better if he [...] offered to sell cards to me at \$16!

That reminds me of a funny incident. Many years ago, when I was still a high-schooler in the fine city of Budapest (darn, it WAS many years ago!) a buddy of mine and I saw a rather cute-looking girl selling the evening paper on the street. It was getting quite late, she still had some 30 of her papers unsold, we felt sorry for her (and, well, we were goofy, hormone-crazed teenagers not aging geeks!) so we bought all her papers. We then started to give them away for free to passers-by.

The amazing thing was that most of them were offended. Most refused to take the paper, even those who actually bought one a few minutes later while still within sight. Some WANTED to give us money even when we refused to take it. Others accused us of trying to con them into taking yesterday's paper or something. Almost none accepted the paper with a simple "thanks" :-)

Viktor

Re: Anyone else getting weird email from "EbayTruth"?

*Message #14 Posted by [Thibaut.be](#) on 6 Feb 2001, 8:36 a.m.,
in response to message #13 by Viktor Toth*

Well, what does interest us iw what happened with the girl ? :-)

(Sorry Katie)

Re: Anyone else getting weird email from "EbayTruth"?

*Message #15 Posted by [Viktor Toth](#) on 6 Feb 2001, 7:24 p.m.,
in response to message #14 by Thibaut.be*

Thibaut,

I think I ought to tell you instead about any calculators I might have had in my pocket at the time of the incident, otherwise we'll both be told that this is not the appropriate place for discussing girls :-)

Viktor

Re: Anyone else getting weird email from "EbayTruth"?

*Message #16 Posted by [Thibaut.be](#) on 6 Feb 2001, 5:11 p.m.,
in response to message #1 by Gene Wright*

Hello,

I found out who sent me a mail, it was a certain Mike Davis

"You have ZERO chance of getting a quick sale by "buy it now" when you start at .41. People cruise eBay looking to bid minimum bids. These people NEVER buy anything, they just kill the "buy it now" options.

If you use "buy it now" you should start at a more realistic price to keep these people from bidding. You will NEVER sell using "buy it now" with a low starting bid. Just a tip. "

I thought this mail was quite correct...

On the other hand, I saw a "John King" active on the comp.sys.hp48 newgroup, mainly giving technical advices on the 48...

Re: Anyone else getting weird email from "EbayTruth"?

Message #17 Posted by [Chris Catotti \(Florida, USA\)](#) on 6 Feb 2001, 11:21 p.m.,
in response to message #16 by Thibaut.be

I was amused to see someone say I could not be "ebaytruth@..." because I was on vacation. I confess that I am hooked on computers enough that I did check e-mail a couple of times while on vacation. But rest assured, I made a conscious decision to use my Federal Communications (FCC) Amateur Radio (ham) call sign in my e-mail name. This is so that ANYONE who wants to find me, as long as I am alive can locate me ... my ham call sign is cross-referenced to my name and to my address as part of my license, and is readily available on web-based database, Ham call sign books, etc. I never send anonymous e-mail.

Re: Anyone else getting weird email from "EbayTruth"?

Message #18 Posted by [Glynn](#) on 8 Feb 2001, 4:07 a.m.,
in response to message #17 by Chris Catotti (Florida, USA)

Chris: Ya know: I knew it wouldn't be you anyway. :-)

Your auctions are fun and worthwhile. There was, though, an odd "reason" I mentioned you in my above post.

I had wanted some 97-type cards right away, and since I have bought some card-media from you before (for my 75d) I thought of you first. But the auction I ended up using to get my 97's cards was ending within a few days; I was hurrying... etc.

When you wrote here in this thread stating that Mr. "ebaytruth" had jibed you for your way-low starting prices, that was funny to me, since probably a few days or weeks before he emailed you with his selling advice, he was busy telling me not to pay as much as what I was perfectly willing to pay!

I was teasing you, Chris, for your momentary eBay absence around the holidays. But I'm very glad sellers like you are there, Chris, so apologies if I blundered with my offhand remark. As my feedback to you said on eBay, I stand by it:

Prompt, well-packed, great merchandise and seller. Utterly professional. A+++!!!

THAT is the "ebaytruth" that matters, isn't it? That you as a seller and I as a buyer can BOTH win... without aid of a busybody price-meddlers...

Re: Anyone else getting weird email from "EbayTruth"?

Message #19 Posted by [Frank Knight](#) on 8 Feb 2001, 7:00 p.m.,
in response to message #16 by Thibaut.be

However, Mike's a good guy and appreciates the finest of HP's (and a few other makes) ;+}
He's *not* JK ebaytruth for certain. Sounds like he's been found on the hp48 newsgroup

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41C repair

Message #1 Posted by [Oliver Kraetzschmar](#) on 4 Feb 2001, 10:00 a.m.

I have a 41C which died about 10 years ago. The battery contacts were totally damaged when the batteries ran out. Now I powered it by an 6V DC power supply and found that it's running without any problems after a power on reset. But once I turned it off it never starts again. With a multimeter I measured a current of 0.33 mA in the ON state which drops to 0.3 μ A when I turn it off. After pressing ON again the current is 0.33 mA again, but nothing happens in the display. Any ideas what's wrong with my 41C ?

Re: 41C repair

Message #2 Posted by [Steve](#) on 4 Feb 2001, 5:20 p.m.,
in response to message #1 by Oliver Kraetzschmar

What sort of 6V power supply is it?

What voltage does it deliver when unloaded?

Does it start again if you remove power and reapply it?

Where do you connect the power supply? To the battery terminals?

Re: 41C repair

*Message #3 Posted by [Oliver Kraetzschmar](#) on 10 Feb 2001, 4:33 a.m.,
in response to message #2 by Steve*

1. It's a well regulated adjustable power supply. I connect the ground cable first, then turn on the power supply and when the voltage is 6V then I connect the 41C to the +6V by a banana pin.
2. If I remove the power and reapply it then I mostly get the same results, but sometimes the current becomes so high that the power supply limits it. This looks like a short-circuit, but after a POR everything is fine again.
3. I soldered a wire to BAT+ at one of the diodes on the logic board, so I don't need the I/O-Port-Block for testing. The ground wire is soldered to one end of C2, that's the 470 μ F capacitor.

Re: 41C repair

*Message #4 Posted by [Steve \(Australia\)](#) on 11 Feb 2001, 5:27 a.m.,
in response to message #3 by Oliver Kraetzschmar*

Do you have any other peripherals attached?

The current draw of an HP41 alone when running id in the order of 20mA. The card reader can require peak currents exceeding 1A

I would suggest that if you're seeing currents in excess of 20 (ish) mA then something is seriously wrong.

Also, I'd be wary of attaching power to anywhere else but the battery terminals.

What current does your powersupply trip out at>

Re: 41C repair

Message #5 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 11 Feb 2001, 3:39 p.m., in response to message #4 by Steve (Australia)

I had to wire batt power (+ to a diode, - to ground) to the CPU board, tired of false contacts, broken posts, etc. It is fine IF YOU ARE SURE ABOUT WHAT YOU ARE DOING.

If memory helps, the positive battery side is series connected to a GERMANIUM diode (it is preferrable to lose 0.3 volts of battery voltage with germanium than losing 0.7 with silicon, another proof of HP good thinking at the time) as a reverse polarity protection. So, if you trace the connection from the battery positive to the keyboard printed circuit board, and then to the CPU board, you may connect to the same point I did.

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In a Quandry

Message #1 Posted by [Harvey](#) on 4 Feb 2001, 8:22 a.m.

I just found this great site and suddenly I'm worried. I have an 11C which I bought almost 20 years ago and I worry that if it goes kaput then I'm fscked!

I have only ever replaced the batteries TWICE in 19+ years. No wonder HP can't make a decent profit on them. Heck, if I had 2 more in the closet at this rate they'd last me until I was 80 years old! I had 2 HP calcs prior to this one, but this 11C is my bread and butter calculator.

I'm not going to pay 200 on ebay for a new one. I might consider paying more than that for a 42s but I wonder if a 32sii would be better? From what I've read here the 32sii would probably be OK for my needs, but if the 42s is the last, best hope for HP then maybe I should look for one or two of those for posterity's sake. What say ye?

Re: In a Quandry

Message #2 Posted by [Juan-J](#) on 4 Feb 2001, 2:21 p.m.,
in response to message #1 by Harvey

The most 11C-alike machine available is the 32sii. The 42S is no longer made and is sold at very high prices (\$120 apiece at the least on eBay.)

The 32Sii is much like the 11C, and includes an equation solver and fractions. You will also feel comfortable with a 32S, which has a simpler equation solver and does not make fractions. It is no longer made but prices are more reasonable.

Re: In a Quandry

Message #3 Posted by [Todd Garabedian](#) on 4 Feb 2001, 8:45 p.m.,
in response to message #1 by Harvey

Harve,

What do you use your 11C for? I assume you like RPN entry (?). If so, the best (and virtually only) choice for a NEW calculator would be the 32SII. Alternatively, you can find used 11C units on eBay for reasonable amounts of money (\$50-75). You just have to be patient. The Classifieds on this site are a good source too.

Of course, there are some individuals selling HP calculators on eBay that ask outrageous prices for the opening bid (you know who you are). You can pass on those, or pay the asking price.

Best of Luck!

Todd

Re: In a Quandry no more?

Message #4 Posted by [Tom \(UK\)](#) on 5 Feb 2001, 7:57 a.m.,
in response to message #3 by Todd Garabedian

The HP32Sii should be fine as an HP11c replacement. If you only use the calculator as a 4 banger (-+ / x) the 12c could be useful if you like the horizontal format - see the HP web pages for the functions. As the 32Sii is still made and are available cheaply second hand you can use/abuse it for the next 10 or so years and put your 11c on the back burner.

Re: In a Quandry

Message #5 Posted by [Frank](#) on 5 Feb 2001, 4:19 p.m.,
in response to message #3 by Todd Garabedian

No Todd, who am we? ;+}

Can't be me!

*Message #6 Posted by [Gene](#) on 5 Feb 2001, 5:28 p.m.,
in response to message #5 by Frank*

I always start my auctions at \$0.99 or \$9.99.

It's not MY fault if people then bid the price up to a couple of thousand dollars (if only...)

;-) Gene

Re: Can't be me!

*Message #7 Posted by [Jim L](#) on 5 Feb 2001, 9:26 p.m.,
in response to message #6 by Gene*

That's the way to do it. It seems very consistent to me that high starting prices and reserves discourage bidders.

I remember when Educalc was having its closeout sale and selling HP-IL adapters for \$9. Several people were reselling these on ebay. People who started under \$10 usually got around \$75 - 100, but people who started around \$50 usually got \$50 - 60. Of course, your mileage may vary but I think a little risk is worth it.

Thanks for Responses

*Message #8 Posted by [Harvey](#) on 5 Feb 2001, 7:44 p.m.,
in response to message #1 by Harvey*

Thank you to all who responded. I can't use a calculator that doesn't have RPN anymore so, yes, that's the primary reason I want to stick with HP. I do use it for the occasional programming when I'm on the road. I think I'll try out a 32sii for starters. I saw 11Cs on ebay going for \$200 which is a bit too much, IMO, but I'll keep looking.

Some of the ebay prices seem insane but like one respondent said, it's not the seller's fault if they set low opening bids and would-be buyers bid it up to stratospheric levels.

Thanks again for the advice.

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Re: HP97 program card reader

Message #1 Posted by [Gil Petri \(Brasil\)](#) on 2 Feb 2001, 10:05 p.m.

wanna check my auction? :) <http://cgi.ebay.com/aw-cgi/eBayISAPI.dll?ViewItem&item=1211019026>

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Odd 41C Fix

Message #1 Posted by [Ion Abraham \(New Mexico USA\)](#) on 1 Feb 2001, 9:22 a.m.

Hello all,

I'd like to follow up on my recent postings about trying to fix a couple of 41C's. I found a rather strange item that maybe some of you have encountered already.

One would not turn on at all. I took it apart and found that one of the fingers between the display board and the main circuit board had come off. So I soldered that back on , reassembled it and put in a rechargeable pack. To my great excitement, it came on with memory lost right away, and seemed to work just fine. But that's not the end of the story.

Later that evening I put in a regular battery pack (the four N cells), and the 41C started to go haywire. Strange display things, all sorts of bizarre behavior. So I put the NiCd's back in, and everything returned to normal. Now, the service manual goes into some detail (which I haven't fully sorted out) about the voltage regulation part of the power supply. My current suspicion is that the supplied voltage of the two packs is slightly different, and the voltage regulation function is not working properly. I have not yet ruled out simpler things like bad battery contacts, however. (The NiCd pack contacts on the two outermost contacts, while the N cells touch all four).

Meanwhile, I just thought I'd ask whether any of you have seen anything like this, or have done any digging into the voltage regulation part of the power supply. If I'm right, then I suspect that a lot of the strange reset sequences (cntrl-enter-clx, etc.) that people have posted for these calculators are just trying to juggle random states of the chips, really caused by improper voltages on the board. But I don't really know, I'm just guessing here.

Any questions or comments would be gratefully received.

Best regards,

Ion Abraham Albuquerque, New Mexico

Re: Odd 41C Fix

Message #2 Posted by [r. d. bärtschiger](#) on 1 Feb 2001, 12:55 p.m.,
in response to message #1 by Ion Abraham (New Mexico USA)

If I am not mistaken, the two center contacts of the 41 battery compartment are just a 'bridge'. That is they just complete the serial connection of the four batteries. On the rechargeable pack, this bridge is internal to the pack. rdb.

Re: Odd 41C Fix

Message #3 Posted by [r. d. bärtschiger](#) on 1 Feb 2001, 3:26 p.m.,
in response to message #2 by r. d. bärtschiger.

Correction. Make that series connection of the batteries. rdb.

Re: Odd 41C Fix

Message #4 Posted by [Ion Abraham \(New Mexico USA\)](#) on 1 Feb 2001, 11:34 p.m.,
in response to message #3 by r. d. bärtschiger.

Yes, yes, I understand that. What about my main point, though? Have you, or any others out there, seen a 41C act very differently with a NiCd pack vs. a set of N batteries?

Thank you sincerely for your reply.

Regards,

Ion Abraham Albuquerque, New Mexico

Re: Odd 41C Fix

Message #5 Posted by [Viktor Toth](#) on 2 Feb 2001, 5:26 a.m.,
in response to message #4 by Ion Abraham (New Mexico USA)

Ion,

Based on my experience, I'd suspect the battery contacts. I sincerely doubt that it's an electronic problem. These battery contacts can do the oddest things, and as you yourself pointed out, "N" cells use all four contact pads, increasing the chance of an intermittent contact that can make your machine to weird things.

Viktor

Re: Odd 41C Fix

*Message #6 Posted by [Ion Abraham \(New Mexico USA\)](#) on 3 Feb 2001, 11:43 a.m.,
in response to message #5 by Viktor Toth*

Dear Viktor,

Well, you were right, it looks like. I knew I should have waited until I checked the battery contacts before posting (as I originally mentioned). I cleaned the contacts where they actually contact the board, and the row on the board, and things improved considerably. It still is a bit flaky, giving Memory Lost messages every once in a while, and, in addition, the number 4 key seems intermittent. Sheesh. I was really hoping that the keyboard would be OK.

Any more suggestions would be greatly appreciated.

Best regards,

Ion Abraham Albuquerque, New Mexico

P.S. Any of you all out there know anyone (in the US) who is currently willing to fix calculators for a fee? I am willing to be much more accomodating than the fellow who got Joe Rigdon's dander up. (I recently saw that exchange in the archives, after trying to contact Rigdon by email).

Re: Odd 41C Fix

*Message #7 Posted by [Marx Pio](#) on 4 Feb 2001, 10:28 a.m.,
in response to message #6 by Ion Abraham (New Mexico USA)*

I cleaned my batt contacts using some sand stick. After I painted with a conductive silver based ink and waited for 24 hour and it works fine.;

Re: Odd 41C Fix

*Message #8 Posted by [Viktor Toth](#) on 5 Feb 2001, 3:41 p.m.,
in response to message #6 by Ion Abraham (New Mexico USA)*

Ion,

Do those intermittent problems occur also if you're using the NiCd pack?

Keep in mind that inside the calculator there are several pressure contacts. If they are corroded or contaminated, or if the calculator's case has been damaged (e.g., cracked screwposts) and no longer holds the calculator securely together, you may get intermittent problems.

Viktor

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Re: 82040A Charger for HP-97

Message #1 Posted by [Victor](#) on 31 Jan 2001, 5:28 p.m.

One major difference is that the terminals on the 82040A are connected with no empty space between them. While this will work with the HP-97, it will not work with the HP-41 or its accessories.

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HP calculators in K-12

Message #1 Posted by [raf](#) on 31 Jan 2001, 10:39 a.m.

I've had 'em all. The 35, 45, 21 (my all time favorite), 41 (with ALL the attachments which died a few years ago...but I wasn't using much anymore), the workhorse 9825's (which always ended up on my desk) and the two 32S's which roam around my domicile now in my retirement. The one thing I have never been able to understand is why HP refused to challenge TI in secondary education. My wife is a teacher of mathematics and so I am familiar with all the recent initiatives in the teaching of high school math. Almost all the recent textbooks are geared to the use of the TI calculators (graphing or not) and frequently include a tutorial TI operation appendix. I cannot believe that the secondary school mathematics teachers have so completely embraced the algebraic paradigm of the TI calculator. I can only conclude that the mathematics curricula are prepared by non-mathematicians. Sure, if HP had tried, they too could have assisted/funded textbook writers to prepare better written tomes based on the HP calculators than the ones which are now almost de riguer in high school systems. I would love to hear comments on this.

Re: HP calculators in K-12

Message #2 Posted by [Randy Smith \(Germany\)](#) on 31 Jan 2001, 12:42 p.m.,
in response to message #1 by raf

I think that HP has lost the race for school kids. TI is so firmly entrenched from the sounds of it, HP could never make a dent. Some other people here have suggested HP is losing sight of what made their calculators great in the first place, reliability, good customer service among others mentioned. I agree with that. I am not a number cruncher or engineer by trade but I love my HP calcs, 9 at last count! Well, maybe I don't love the 38g! I have trouble doing chain calculations with an algebraic anymore. RPN logic is so much easier to use, only a few minutes to learn. Also, TI's are easily found, even in drugstores and grocery stores. This has led to the TI calc dominance in school. Unless HP makes their machines more accessible to the masses they will never make inroads into math books or into schools in general. I was 1 of only 5 people to have an HP in my high school 15 years ago (11C). There were nearly 1200 students. Staples and other office superstores didn't exist at the time, got mine from Service Merchandise! I don't think that has changed much at all since. Just some ramblings. Randy

Re: HP calculators in K-12

Message #3 Posted by [Peter](#) on 1 Feb 2001, 1:06 a.m.,
in response to message #2 by Randy Smith (Germany)

I work at a college electronics store, and our manager has been at her position longer than even HP calcs, and she delved into this subject one day. She said that what TI basically did in the early 1980s was to completely go after the K-12 market. They had a big celebrity spokesman (Bill Cosby), and ran promotions like giving away free calculators to teachers. With a generation of kids growing up on TIs, and educators using TIs for 15+ years, it's not surprising that TI holds a very big part of that market. It seems that HP stuck to it's professional (engineers, scientists, etc.) market for too long, and there's no way to topple TI from the throne of primary/secondary education. Being a TI kid myself, I'm a good example of their influence throughout the 1980s. I've been getting into HPs a lot recently, since I respect not only their history, but their engineering and power as well (even through you'd have to pry my TI-89 from my cold dead fingers). RPN was a completely alien concept to me at first, but now it's almost second nature. I can't imagine using a scientific calculator without it.

Re: HP calculators in K-12

Message #4 Posted by [Bryan](#) on 1 Feb 2001, 3:17 p.m.,
in response to message #1 by raf

I spent 20-some years as a loyal TI customer (57, 58, 85, 86), and I agree their texts and the books written by outside agents are superior to most that are available for HP products.

Grad-school gave me a chance to re-think my loyalties, and I made the jump to RPN/RPL with a HP-49G. I can't imagine working with another calculator! It's top-of-the-line.

I couldn't have gotten over my TI habit-pattern without the help of an outstanding pair of manuals from an engineering/science instructor with a penchant for HP calculators (the 48 series in particular). If this type of documentation was available with the high-end calculators from HP "out of the box", I think they'd have many more converts and satisfied customers!

For those who care:

The manuals are written by Gilberto E Urroz, PhD, PE (this guy is my hero!) -- and can be obtained on the net at greatunpublished.com. Titles are "Science and Engineering Mathematics with the HP-49G", ISBN 1-58898-043X for volume 1 and -044-8 for Volume 2.

Caution: The manuals are RPN/RPL focused, so if you're planning to use the '49 in algebraic mode (I don't recommend it!), these probably aren't for you.

They run about \$25 each for hard-copy and \$20 in electronic format (which they'll e-mail to you). If you buy hard copy, you may also request electronic format for no additional charge.

~Bryan

Re: HP calculators in K-12

*Message #5 Posted by [db](#) on 2 Feb 2001, 12:40 a.m.,
in response to message #4 by Bryan*

bryan; several people here will be glad for that info you gave on the manuals. not me - i don't want a 49. but if the books are as good as you say; you and dr. urroz are going to be getting lots of thank you letters.

Re: HP calculators in K-12

*Message #6 Posted by [Bryan \(again\)](#) on 3 Feb 2001, 12:51 a.m.,
in response to message #5 by db*

db,

They're awesome! I should've had them as prep-guides before starting grad-school work -- they're a fantastic review of math and science applications in addition to being great operator's manuals for the calculator!

Note: He's a die-hard 48SX and 48GX fan. He compiled notes he'd passed out over the years in class to help students become more proficient with their calculators. In fact, I think his original versions were tailored for the HP-48G series (there's still some text in my books that references 48 keystrokes - many are the same on the 49). The 48 texts may be avail also.....

;)

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Preferred calculator

Message #1 Posted by [Thibaut.be](#) on 31 Jan 2001, 10:32 a.m.

As teh trheard "what is your preferred calculator" was that succesful, I'd be delighted to gather all the information and establish a "top 10" of the HP clauclators ever made.

To keep it KISS, I suggest you send me an e-mail with your top 5 preferred calculators. I will treat the datas and of course inform the wholae community of the results.

Any suggestion is of course most welcome !

Re: Preferred calculator

Message #2 Posted by [Thibaut.be](#) on 1 Feb 2001, 4:35 a.m.,
in response to message #1 by [Thibaut.be](#)

Hello,

Thanks for all those who have already sent me an e-mail with your 5 preferred HP calcs.

All the other people are strongly encouereaged to do so.

Please consider the following rules : versions of each models count for a model : ie 25 and 25C is HP25, 41C and CX, 41 halfnut or full nut are 41's.

I propose to give teh following ratag: top 1 = 10pts, top 2 = 7pts, top 3= 5pts, top 4 =2pts, top 5 = 1 pt.

Any suggestion in calculating ratings is of course welcome.

I'll give the results in 15 days.

Cheers to all !

Re: Preferred calculator

*Message #3 Posted by [<bump>](#) on 2 Feb 2001, 2:13 a.m.,
in response to message #1 by [Thibaut.be](#)*

keeping this thread on Daily Forum a while longer

Re: Preferred calculator intermediate results

*Message #4 Posted by [Thibaut.be](#) on 5 Feb 2001, 8:58 a.m.,
in response to message #1 by [Thibaut.be](#)*

In order not to affect the poll result, please find hereafter the top 5 HP calculators, sorted by year of release and not by preference :

HP-97 HP 41C/CV/CX (though no wonder that all the voters did vote for the CX model) HP 32S HP 42S HP 48G/G+/SX/GX

It is interesting to nothe that :

- out of 5 preferred calcs, 3 "recent" calcs are in the top 5 though prices go high for other models for which few or no votes were expressed (10C, 27, 01, 35 red dot, 70, ...) - the voyager series, though well appreciated for fonctionnality, met very few votes - all the nominates do have one thing in common : they are very powerful and are capable of various kinds of calculation, and are all connectable/expandable - Excepted for the 97, all are LCD displays calcs...

I am under the impression that all the voters expressed their votes for the capabilities/utility of their machines rather than which one they prefer in their collection...

I need more votes to improve the accuracy and take better conclusion !

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48GX with bad pins, inventory reduction sale

Message #1 Posted by [Dave in MS](#) on 31 Jan 2001, 9:10 a.m.

FWIW.....The guys at SMI are selling off some 48's with the bad pins and a few used ram cards.
www.smi.com Dave

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HP-48GX cards

Message #1 Posted by [Jonathan](#) on 29 Jan 2001, 10:46 a.m.

Does anyone know if cards made for the 48SX will work in the 48GX? Also, where are good places to buy general subject cards (calc, physics, chemistry, etc.)? Thanks for the help.

Re: HP-48GX cards

Message #2 Posted by [Juan-J](#) on 29 Jan 2001, 10:10 p.m.,
in response to message #1 by Jonathan

Yes. In general, HP 48SX cards run well on the HP 48GX. However, since port configuration is different, try to use application cards in port 1 only. Port 2 can also be used, but execution will be significantly longer (especially on those Indonesia-made 48GXs.)

For suppliers, try www.calcpro.com.

Re: HP-48GX cards

Message #3 Posted by [Andreas Stockburger \(Germany\)](#) on 30 Jan 2001, 1:01 p.m.,
in response to message #2 by Juan-J

Hey,

are there any differences between Indonesia-made 48GXs and others ? Differences in electronics ? Quality of components used ?

I never heard about this ...

Best regards

Andreas

Differences in Indonesian HP-48GX's

*Message #4 Posted by [Matt Kernal \(US\)](#) on 31 Jan 2001, 7:20 p.m.,
in response to message #3 by Andreas Stockburger (Germany)*

The only apparent difference I'm aware of, is that my Indonesian 48GX calculator has painted(screened?) lettering on the keys themselves. Whereas my older 48G (made in Singapore) and 48SX (made in USA) have the famous double-injection molded keys (where the character is formed by injecting white plastic into the cavity of the dark key).

Some tell-tale indications of injected molded keys can be seen in the letter "N" on the TANgent and SIN keys. The three lines that form the letter are not actually straight, but are formed with three bowed (slightly curved) lines. The lines do not have even thickness (but are consistent when comparing the same relative line on a different letter "N") and the intersecting junctions are very square.

The painted version of the same letter "N" are formed with three perfectly straight lines that are uniform in thickness (but are much thinner than the injected molded counterpart) and have rounded intersecting junctions.

Isn't this exciting?? ;-)

Matt

Re: HP-48GX cards

*Message #5 Posted by [John](#) on 30 Jan 2001, 10:41 a.m.,
in response to message #1 by Jonathan*

I have a "Mathematics Pac" card from SPARCOM. Works very well in my 48SX.

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key labels

Message #1 Posted by [Bill](#) on 29 Jan 2001, 9:57 a.m.

I had a HP42S and now own a HP32SII. In both calculators, some of the key labels appeared as someone painted over them for the new label. Why did they do this?

Re: key labels

Message #2 Posted by [Marx Pio](#) on 29 Jan 2001, 5:59 p.m.,
in response to message #1 by Bill

I really don't know what's that but i will be a happy one if I could find the 42S metal sheet to glue in my old and corroded 42S. 8^)

Re: key labels

Message #3 Posted by [Glynn](#) on 29 Jan 2001, 11:54 p.m.,
in response to message #1 by Bill

Well, if you are talking about the symbols printed ON the keys themselves, there is a sound economic reason for doing this.

If you have to do double-shot precision molding, that isn't really cheap, but the more of it you do using the exact same tooling (and thus legends), the cheaper it is per unit. So you anticipate the total eventual demand for a product, add a percentage for replacement and repairs, go to your plastics guys, and have them mold a heck of a lot of key assemblies. You warehouse them until needed in production.

Or, you decide to print the keytops instead, since printing is cheaper per key. But to make key legends durable, the printing must be thick and hard-- the usual ink/paint for this is an epoxy-based paint that is as hard and tough as the plastic beneath. Smaller runs of this is okay, but the process is very variable; to assure color consistency and clarity and durability throughout the product's run, you'll make a lot of them all at one time, then warehouse them until your assembly line calls for them.

But your wonderful product may not sell quite as good as you estimate. Oops.

Eventually, the Marketing department determines that what is needed is a new model of calculator, with different symbols and functions on the keys. You COULD just redesign case and keys and such from scratch, going to all the expense you did for the prior calculator that didn't sell. OR...

You can ask your design team to reuse some of the elements of the prior design. This saves a lot in the design, tooling, inventory, production startup costs. It is also apparent you'll NEVER get rid of your prior parts inventory unless you take some of it to put in your new calculator. Why write off and destroy what you can re-use?

Keys are easily "reused" in a design, except for one minor detail: the symbols are all wrong for your new device. But there is spray repainting and then new printing, which allows you to paint and re-legend the old keys to your new specs. No, it doesn't look as great as a "fresh" keytop, it has less color consistency, and isn't as deep or hard on the surface as an original pad-print on a blank key-- but it solves so many of your problems, and users just don't seem to care as long as the product meets their needs and is cheap enough to buy.

That, Bill, is what you are seeing. Manufacturers face a dilemma: not every product they focus-group and test market and then release will actually be met with marketplace success. Then you cut your losses, re-design to follow market trends, and use the experience (and sometimes even the parts) of the failed product as leverage to be faster rolling out the Right product, have it cheaper, and have the features the public desires.

Repainting and subsequent pad-printing is a standard activity of manufacturers of keyboards and keypads. What they do it OVER, depends entirely on what they already have as molded and/or painted key stock.

It is maybe a problem that HP was so good at their keys for so long-- on much of their product, they designed their keypads as elegantly as the rest of the machine, sparing little expense to make them durable and cosmetically attractive. So you REALLY notice when HP cuts a corner here.

TI (and many other manufacturers that HP has felt it had to compete with) rarely went to such troubles; their keystack was typically blank, their legends ALWAYS epoxy pad-printed in "more-realistic" runs since they aimed to make many different models along basic design "families", and they knew their product was not dependent on cosmetic consistency as much as its functionality and price-point. Maybe also for a while, HP was too optimistic estimating its market, in the face of gaining competitors.

So as HP adjusted more and more into their "Be Competitive" philosophy, you have noticed

that some keys on your "new" calculators are "leftovers" from excess runs of old stock.

If you feel slightly *cheated* that you got some leftovers in a calculator you paid so much for, you might check the list prices of the models that preceded it. To keep up with the dramatic change in the economics and fashions of the calc world, HP (in a tumultuous period) exercised some miserly options.

Your calculators are good ones, and will ALWAYS be highly valued for their utility. But few would argue their cosmetics, finish and durability were as high a priority for HP on those calculators as those of prior "generations".

Re: key labels

*Message #4 Posted by [Bruce Cohen](#) on 30 Jan 2001, 5:27 p.m.,
in response to message #1 by Bill*

The black painted backgrounds on the metal overlay are used to distinguish the shifted keys on the HP-42S which lead to other menus.

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HP25 keys no longer register.

Message #1 Posted by [Rafael LT](#) on 29 Jan 2001, 5:01 a.m.

Two keys of my HP25 no longer register. How to clean a keyboard?

Re: HP25 keys no longer register.

*Message #2 Posted by [Frank Knight](#) on 30 Jan 2001, 1:19 p.m.,
in response to message #1 by Rafael LT*

I have had a bit of success with using a couple of strands of fine wire brush (still attached to brush (radio shack has a small solder brush in a soldering acc. kit that works well for this) placing the few strands through the plated through hold under the offending keys and slanting so it goes past the upper edge, overlapping into the contact area above. Rotate the brush strands while applying pressure to the key(s) to get contact cleaning wiping action. This process has returned to functionality key contact corrosion from battery packs which got into the keyboard for me, try at your own risk.

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what else?

Message #1 Posted by [db](#) on 27 Jan 2001, 6:21 p.m.

i've been thinking about getting a 32. i don't need it but just as a toy. i'll use the 41 for real stuff. what mail order place has the best price for a new one of these? and while were at it, the 12c too - some business type might be thinking along these lines. btw; has anyone seen the new tds ranger? i guess that after selling a bunch of 41's, 48's, 95's and 200's for hp (and husky fs3's) and never knowing when the platform was going to be obsoleted, they took the bull by the horns and built their own. i wish them luck but now they will only have themselves to blame if the program doesn't work. they might look at their customer service philosophy too. it's a pretty impressive unit on the paper blurb i got; 320x240 touch screen, carbon fiber shell, nimh batteries that run 40 hours on a charge, ir, 9 & 26 pin ports, 32 mb ram with flash disk for data storage. not bad for a handheld that runs at 192 mhz and uses windows. i can't tell for sure what kind of keyboard it has. there is some info at www.atworkcom.com. its not set up as a calculator as is, and god only knows what language you use to program it but at least someone is trying to take up the high end torch.

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20 Year battery. Am I the only one?

Message #1 Posted by [CJ](#) on 27 Jan 2001, 3:22 p.m.

This is not pure HP...

I had to finally replace my battery in my port-x-tender after 20 years of service. I have many modules in it. One with memory.

I read back 1 year in the archives and saw no postings concerning them, and the museum pages only mention it in passing. Great site BTW.

Anybody else have one of these?

CJ

Re: 20 Year battery. Am I the only one?

Message #2 Posted by [Steve](#) on 27 Jan 2001, 8:48 p.m.,
in response to message #1 by CJ

I think it's a testament to

a) the life of these batteries

b) HP's good design to make memory modules when they did using as little power to retain memory as they did (and still do).

Incidentally, my port extender uses that same sort of batteries as one of my (old) cameras. These cameras are powered all the time. The battery is used for the meter and the automatic setting of aperture. These batteries are widely known to last between 10 and 15 years in these cameras.

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What's your favorite [(hp)]?

Message #1 Posted by [Marx Pio](#) on 27 Jan 2001, 2:49 p.m.

I have two, a 41CV and a 48GX what's yours?

Re: What's your favorite [(hp)]?

Message #2 Posted by [db](#) on 27 Jan 2001, 6:06 p.m.,
in response to message #1 by Marx Pio

to run canned programs on: 48 -s or g- x. for real life and work: the 41cx. accept no substitutes.
good question.

Re: What's your favorite [(hp)]?

Message #3 Posted by [Mike](#) on 27 Jan 2001, 9:52 p.m.,
in response to message #2 by db

I like the size of the 11C but my favorite is the 42s Just the right amount of power and very fast at what I do.

Re: What's your favorite [(hp)]?

Message #4 Posted by [Reinhard Hawel](#) on 28 Jan 2001, 12:13 a.m.,
in response to message #3 by Mike

My first love was a HP-71B and I used it years after hp gave up on the BASIC-programmables.

I've bought a much-hated HP-49G used but boxed last week (looks like new) and I think I'm gonna like it somehow. Unfortunately it looks like a Casio.

I entered the HP community with my 71B, so I was never really in the 41 scene. So I can't also really understand the HP-42S hype. Yes, I own one in my collection and it's a nice calculator, but the large screen and the advanced programming features of the

48/49 series beats everything.

Everytime I look onto the 49Gs keyboard I'm starting to whine ...

Re: What's your favorite [(hp)]?

*Message #5 Posted by [Reinhard Hawel](#) on 31 Jan 2001, 7:46 a.m.,
in response to message #4 by Reinhard Hawel*

I forgot mentioning my 9815, which is in daily use at work.

Re: What's your favorite [(hp)]?

*Message #6 Posted by [Victor](#) on 28 Jan 2001, 12:55 a.m.,
in response to message #1 by Marx Pio*

There are so many, it's hard to choose one.

The HP-27 is the one I drooled over the possibility of owning when I was going to high school. I am glad that through the miracle of the internet and eBay, I was able to acquire one (more expensive than I had hoped. Oh well...).

I like the HP-97 because of its high computing power (for its time), the built-in printer and the big, easy to press buttons.

I like the HP-41 series because of all of the neat gadgets you can plug into it.

Finally, I like the HP-48 series because of their computing power in a portable unit and the fact you can easily download programs to them from the internet and your PC.

Re: What's your favorite [(hp)]?

*Message #7 Posted by [Thibaut.be](#) on 28 Jan 2001, 4:07 a.m.,
in response to message #6 by Victor*

On daily basis (I'm a financial manager, so do not need complicated calculations like engineers do), I love my 11c and 15C that both permanently stay on my desk.

I of course like the CX, mainly for its expanding capabilities, but the 42S is far more convenient : faster and smaller.

I also use a 49, even if this can't be called a handheld calculator, mainly to check integration and derivatives calculations that I sometime have to do.

Difficult to say what is the preferred calculator.... I do like the 2X series, I like this kitsch look and admire the power of a 27.

I also like the 34C, that I consider like the dashboard of a Boeing 747, each key having 4 functions !

Finally, one of the most practical calculator under my opinion is the 19BII : powerful financial solver, but also complete mathematician, and despite being not programmable its solver can settle lots of problems.

Re: What's your favorite [(hp)]?

Message #8 Posted by [Todd Garabedian](#) on 28 Jan 2001, 8:12 a.m.,
in response to message #1 by Marx Pio

Like many of the visitors to this forum, it's hard to choose ONE favorite. I've been using HPs for over 20 years. I started with a 33E my dad got me in high school. I moved up to a 34C, then a 41CV. I have to say there is a soft spot in my heart for my 41CV. Not because it's "better" than any of the other models, but because I used it for so long.... it's like an old friend, familiar and trustworthy. I bought it new in 1982. It got me through many chemistry, physics and statistics courses while in college, and helped me crunch tons of data while I was a grad student. When it finally died in 1997, I was devastated! I went onto the internet and found this site (as well as eBay), and got myself a new (used) one. Today, I use it on a fairly regular basis. At about that time, I also got hooked on collecting HP calcs, so now I own a copy of nearly every model! It's a fun hobby, but my wife thinks I'm crazy!

Todd

Re: What's your favorite [(hp)]?

Message #9 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 28 Jan 2001, 11:02 a.m.,
in response to message #1 by Marx Pio

These are my all-time favorites:

The first I had and the one I miss most (was stolen from a friend): HP 25. Oh, it made us sweat but taught us a lot about how to do so much with that few resources. I found relief with the Java simulator, perhaps I would buy a good and used one sometime in the future... And excellent manuals, even useful today!!!!

The one I would like to have at the time: HP 29C, more memory and subroutines, at a time when I was sharp with -25 methods.

The marvel: HP 41C, I still had mine with some modules, card reader (refurbished) and wand. Only criticism: contacts and screws, lack of a simple I/O apart from the complex HP-IL. It is a little slow and bulky for today standards, and extended functions are not at all intuitive... But a wonderful thing at its time, and usable today. Good manuals!

The best calculator ever made: HP 42, only lacking some I/O for backup purposes... and a better Alpha mode. I have a mint one. Acceptable manual...

The one I most use today: HP-200LX, good calculator and organizer... And DOS 5.0 was a classic on itself, perhaps the last personal OS than a single person could understand entirely. Good manual

The hope: Will a HP 43 appear... I doubt it, but...

The not so good: HP 31/32/33/34 of the spice series, the HP 15 (clumsy for my taste), 28C (little RAM), the 48 series (I don't like RPL nor infinite stacks), the current 6/30/49 "flashy" series... And the HP 32 SII, while a good product, is not as friendly as it could have been.

Of course, these are just VERY personal opinions!

Re: What's your favorite [(hp)]?

Message #10 Posted by [Ion Abraham \(New Mexico USA\)](#) on 28 Jan 2001, 11:35 a.m., in response to message #1 by Marx Pio

Hello all,

I pretty much agree with everything the rest of the people have said on this topic. My favorite HP's? The ones I use the most, of course. I am slowly getting drawn into collecting, to my wife's amusement, but mostly I use these things. My first HP was a 41CX, since '86. I have probably used every command on that thing at one time or another, including the stopwatch, very handy to time experiments, particularly good for storing splits (intermediate time segments). Show me another calculator that has one of those (and a wand, and...) I am also very fond of my 11C and 15C, for sheer portability. Their only drawback is that I found it very cumbersome to program on them (I hate key codes). But they are practically indestructible. My 11C has hit the floor a couple of times, with only minor dents. The 41CX would have shattered in a million pieces. I have recently bought a 97, because I decided that a printing calculator would be a useful thing (for taxes, etc.) The printer on the 41 is OK, but, for occasional use, I got tired of swapping the cord in and out. Plus the fact that, at least on the 82143A printer, it runs down the battery for you while you're not using it.

Best regards,

Ion Abraham Albuquerque, New Mexico

Re: What's your favorite [(hp)]?

Message #11 Posted by [bill smith](#) on 28 Jan 2001, 3:42 p.m.,

in response to message #1 by Marx Pio

like many here, i've had a progression of HP's since the late 70's. My first was the 25, and was vastly improved by the 34C, with continuous memory. before graduating, i bought a 15C, and it remains my favorite to this day. it has the perfect size and functionality for my stand-up engineering uses today, runs forever on a set of cheap batteries, and has good documentation (in the unlikely event i need a new program for it).

in the early 80's i bought a 41CV with a cardreader. it was my desktop computer for the time, and i still love the gadgetry, hence it is the focus of my collection. i also have a 200LX, which does all the calculation i could require in a hand-held, using spreadsheets, solver, QBASIC, perl, and the occassional Fortran77 program. of course there are also my desktops for the heavy lifting.

i had assumed that the 15C and 200LX would suffice through the end of my career. in fact, i had intended to get rid of the 41 system after finally porting my programs to the 200LX (a project still incomplete). but learning how / figuring out the porting stuff has certainly invigorated my interest in the 41, and thus i'd have to say it is the most _fun_ to work with.

Re: What's your favorite [(hp)]?

Message #12 Posted by [Matthew Riehl \(U.S.A.\)](#) on 29 Jan 2001, 6:47 p.m.,

in response to message #1 by Marx Pio

My first "real calculator" was the HP-25 in my senior year of high school. It served me well throughout college and on into the military. When it eventually died, I was given an HP-11C by my brother (who is surprisingly a Texas Instrument weenie). It is a good and dependable calculator, though without the charm of the HP-25.

My real first love though was the HP-65 which came out in my first year of high school. I played with the demo model at the local Macy's store several times a week for months. Of course as a high school student I couldn't afford the \$795 price tag. I have purchased one (two actually) from on eBay and have fixed them up with help from people here. It's still a great calculator. I carry it with me daily as I use it on a project I am working on. Now if they would just come out with a new special 25 year anniversary model in 2002 . . .

Re: What's your favorite [(hp)]?

*Message #13 Posted by [r. d. bärtschiger](#) on 29 Jan 2001, 9:52 p.m.,
in response to message #12 by Matthew Riehl (U.S.A.)*

How did you arrive at 2002? The 65 was introduced in 1975. rdb.

Re: What's your favorite [(hp)]?

*Message #14 Posted by [Matthew Riehl](#) on 30 Jan 2001, 7:41 p.m.,
in response to message #13 by r. d. bärtschiger.*

Boy do I hate doing math in public! I guess that would rule out them putting out a 25 year anniversary model in 2002. I guess I should use my calculator instead of talking about it. OK, how about a 30 year anniversary model in 2003 or 2004?

However, according to this museum's HP-65 web page the calculator was introduced in 1974 and it shows the earliest serial numbers as being 1333 which would be the 33 week of 1973 (this is what my calculator shows).

Matt

Re: What's your favorite [(hp)]?

*Message #15 Posted by [john](#) on 30 Jan 2001, 11:03 a.m.,
in response to message #1 by Marx Pio*

I used 41s since they were introduced. Then a 48SX since that one came on the market. Beyond using it for everyday practical calculations, I also have, more or less hobby-wise, an interest in investigating various mathematical things. This is where I think that the 48 is unsurpassed(?) (so far?). BUT very often, I try to use my slide rules - a special joy! BTW Are there others among you out there who are also slide rule fans? I have some trouble with some of my fellow 'slipstickers'. They are convinced that slide rules were God's gift to man. (Calculators were probably the Devil's gift:-))

Re: What's your favorite [(hp)]?

Message #16 Posted by [Ron Ross](#) on 30 Jan 2001, 1:35 p.m.,
in response to message #1 by Marx Pio

My favorite might just be my first, an Hp15c. Later my wife got a job with Hp and one day at her desk with a casio was told that she should use another calc. She asked me what I would recommend and I told her that a 27S was a big step up. Since she got a discount, I decided to buy a 42s also. The 42s is the best pocket calc ever MADE. Now I use a 48 G. Why? Because it is like having a desk reference available with all the conversions and it IS replacable. My 42 and 15 stay at home (with lots of other hp friends).

By the way, my wife still uses her 27s after 10 years and it is still her favorite. My opinion is that it is Hp's 2nd best pocket calc and it is a shame Hp no longer makes either of its finest calcs. I wish the 42 had a clock and alarm like they furnished with the 27s or 17b.

The 19b is worth metioning only because it has rpn and algerbraic and after the battery door redesign might be more Hp tough. Battery doors are this and the 28's Achilies heel.

Re: What's your favorite [(hp)]?

Message #17 Posted by [Tom \(UK\)](#) on 30 Jan 2001, 2:32 p.m.,
in response to message #1 by Marx Pio

The first HP I owned (HP67 - LED, card prog., very solid, great handbook and chunky keys)

And the one I don't have but would most like (HP42 - under stated, the right level of features (but maybe add a timer), small size, but sadly far too valuable now for everyday use/abuse).

Re: What's your favorite [(hp)]?

Message #18 Posted by [Stefan Vorkoetter](#) on 30 Jan 2001, 4:02 p.m.,
in response to message #1 by Marx Pio

It would be a toss up between the 41C/CV/CX, and the 34C.

I like the 41 series simply because they can do just about anything a person could want (especially once you've added a few modules).

I like the 34C because it does almost everything I want, is a lot easier to use (everything it does is right there in front of you on the keyboard), and I have a soft spot for LED displays.

Stefan

Re: What's your favorite [(hp)]?

*Message #19 Posted by [Stefan Vorkoetter](#) on 30 Jan 2001, 4:04 p.m.,
in response to message #18 by Stefan Vorkoetter*

I just want to add that I also own a 32E, 19C, and 42S, just so you know what I'm comparing to.

My favorite HP that I don't have would probably be the 29C (smaller non-printing version of the 19C).

Re: What's your favorite [(hp)]?

*Message #20 Posted by [Ron Ross](#) on 30 Jan 2001, 4:40 p.m.,
in response to message #19 by Stefan Vorkoetter*

What can I say. I also like LED displays and the 34c is a calc I don't yet have. I have the 32 and 33e and c. I use the 33c at home for general number crunching at my desk. For anything fancy I have a 48GX. I also have the newer models and my daughter likes her 39G (probably only because of its game capabilities).

Re: What's your favorite [(hp)]?

*Message #21 Posted by [Marx Pio](#) on 30 Jan 2001, 6:51 p.m.,
in response to message #19 by Stefan Vorkoetter*

I would like to mention HP28S that introduced me in Forth-like programming and 42S that makes me feel that I lost time using all those Casio's FX602P and Texas' TI59. I recently acquired an HP41CV from a friend and I was very impressed with its capabilities even if you compare it with the new machines. But my brain extension is really an HP48GX. Pio

Re: What's your favorite [(hp)]?

*Message #22 Posted by [Juan-J](#) on 31 Jan 2001, 7:52 p.m.,
in response to message #18 by Stefan Vorkoetter*

Amid lots of advice for Japanese models, I bought an HP-41CX when I was in the university. A really nice machine. Armed with the Math/Stat Pac and a card reader, it could do almost anything you needed. It was funny to see my classmates consuming their time invoking library numbers on their Japanese machines just to get an intermediate answer for another library number, while the trusty 41 calculated the whole problem in a breeze.

I upgraded to the 48GX shortly before graduating. A very nice machine, mine was one of the first (serial 3330S...) Sadly, I lost it and got an Indonesia-made replacement. Thankfully,

the 41 stayed at home and is still with me.

I thought I was the only one doing hobby mathematical research (namely, matrices, special functions for quantum mechanics and the Euler's constant) on the 48. It is a good machine for this. You can do it a thousand times faster on a PC, but there's a nice feeling about probing things with the 48.

Despite this, I've always been fond of the 41 series. The best machines ever built by HP, especially the 41CX. All that functions, and a timer. And that fine craftsmanship feeling. It's just great. Just define the algorithm, write the program and you're in business. An XROM or a peripheral if you need extra refinement/power, and you're ready to tackle anything.

I retired the 41 back in '93. As with other users, it now stays at home (after a brief career calculating moving averages for my mother) with other "friends" I've bought over the years. Now I'm getting a 41C.

As for later models, I've been using a 28S lately, and I think it's a nice one. Like a mini-48.

A pity that HP is not interested in calculators anymore.

Re: What's your favorite [(hp)]?

*Message #23 Posted by [Rick Bensene](#) on 7 Feb 2001, 7:25 p.m.,
in response to message #1 by Marx Pio*

My favorite HP calculator is the HP9100B.

Cool CRT display, core memory, mag-card program storage, all-transistor electronics (no IC's), and built like a tank. Not a handheld by any means...but it's definitely got a place in my heart.

Rick Bensene The Old Calculator Web Museum <http://www.geocities.com/oldcalculators>

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Re: So it was the clutch in the end

Message #1 Posted by [Rafa, Spain](#) on 27 Jan 2001, 2:28 p.m.

Thank you all very much for your counsels. I think it was the clutch after all.

I observed the worm gear closely and it appeared to make little stops when rolling, so the clutch was worn and the motor was slipping inside it.

I've thought of how to reinforce the clutch without using the glue and finally I have found it: I've taken a piece of film plastic --the one used in the kitchen to cover aliments, etc. and I've cut it to the size of the little shaft that comes out of the motor (great patience). I simply have interposed it between the motor shaft and the worm gear. The resulting clutch is sufficient so that the motor does not slip, but as there is no glue it may slip (I think) in case the motor is forced. (The plastic piece must be sufficiently small so that when the worm gear is attached there are no traces of plastic to be seen).

I've reassembled the card reader and it works properly --WITHOUT noises!!

Rafa.

Re: So it was the clutch in the end

Message #2 Posted by [Steve \(Australia\)](#) on 27 Jan 2001, 8:42 p.m.,
in response to message #1 by Rafa, Spain

You might like to post an article in the article forum describing what you did in more detail.

I'm sure there will be others with this problem, and many (myself included) prefer easily reversible fixes wherever possible.

Re: So it was the clutch in the end

*Message #3 Posted by [Rafa, Spain](#) on 28 Jan 2001, 12:35 p.m.,
in response to message #2 by Steve (Australia)*

Thank you Steve, I'll post an article in the article forum explainig what I did in more detail. I also will ad some more tips that I'm learning repairnig this card reader and that may too be interesting.

the clutch article and reader repair

*Message #4 Posted by [Glynn](#) on 29 Jan 2001, 2:21 a.m.,
in response to message #3 by Rafa, Spain*

Thank you Rafa, great and thoroughly clear post in the Articles Forum.

I had just been messing with an HP-97 card-reader the day before I got to your article, and thanks to dried gummy marmalade-like stuff in the worm gear, my "clutch" had given up, too.

My solution was probably a bit more drastic than yours: after cleaning all parts in alcohol, I punched out the remaining plastic fragments inside the aluminum sleeve of my clutch, filled it with clear RTV silicone, and slid it onto the motor, then pushed the worm gear home... a bit of positioning and it seems to work just fine, but only time will tell if it has longevity and adequate "give". Your fix Rafa, with the cling-wrap, seems very sensible. Wish I'd thought of that...

My card-reader appears to be a little strange. The little nylon balls and single nylon roller-wheel have mysteriously gone quite rough and porous; I can scratch powder off them with my fingernail. Never seen nylon DO this before. I may have to change them out soon, though for now they will still work marginally. Katie W. has said the balls are available from SmallParts.com; I may have to lathe a new little wheel myself, though.

For the rubber capstan, I epoxied on a small piece of latex surgical tubing. I had not intended to glue it at all, but the "tire" sometimes stalled on the moving shaft as a card met it. I am waiting for the epoxy to finish its set right now, in fact.

For assembly: I put the balls and wheel on the one side of the sandwich, cut a strip of paper a bit less wide than a mag-strip and wrapped it around the ball-laden carriage-piece, securing the ends on the other side of the piece with tape. Then on the other side of the sandwich, I installed the springs. I laid the piece with the balls in it on top and snapped them together, then cut off the tape and slid the paper out from between. I wonder how they did this at the factory?

Repairing the mag-card reader seems to be the initiation, the rite of passage that HP users must go through. This is my first; I just got the '97 a few days ago and thanks to the articles on this site, I think I shall now have an operable machine and figure I can learn 67/97 programming. (I think a nametag or badge that looks like a mag-card, with the MoHPC logo, would be a fun memento for the gift shop, Dave...) :-D

Re: porous little nylon balls

*Message #5 Posted by [Rafa, Spain](#) on 29 Jan 2001, 12:07 p.m.,
in response to message #4 by Glynn*

Thanks Glynn for reading it. What a pity you had glued yours by then. Now it is true that old HP calculators have proved to be very robust except for the card reader system!, but well, after 25 years or so...it could be expected!

I don't know how the HP-97 looks like, but in my HP-65 reassembling the card reader seemed to be relatively easy. I just put the nylon balls and idler roller in its hole-places in one part of the sandwich, and then placed the two springs carefully in the other one part. The springs appeared to hold on, so I put this sandwich part upside down and reassembled. All seemed to fit properly in its place. I then adjusted the screws.

It's very strange the case of the nylon balls. I also don't know nothing about nylon physic properties, but when reading your problem the idea came to me that you may perhaps apply a synthetic varnish to them. You may repeat the operation many times so that the balls get well protected. I suppose this would stop the disintegrating process (as long as the varnish endures, of course). I'm just supposing, I've never done this before and don't know if it will work. To varnish a so small pieces may prove to be a very complicated process! –it may so happen too that the varnish doesn't get properly stuck to the nylon.

Re: little nylon balls and such

*Message #6 Posted by [Glynn](#) on 30 Jan 2001, 1:39 a.m.,
in response to message #5 by Rafa, Spain*

Thanks, Rafa!

Since the replacements are quite cheap, I think I'll opt right now for the new balls. Well, as far as that one that is the shape of a roller wheel, I might just try some light coating, if I can figure out what will stick to a porous nylon without becoming sticky or flaky after drying.

An immediate thought was a thin coat of cyanoacrylate glue, which dries shiny and non-sticky. But I felt it possible that the highly-active cyanoacrylate might just attack the nylon further, fracturing it or making it more brittle.

My experiences with enamel paints and plastic sprays are that they tend to be "sticky" or frictive, even when dry, especially in contact with other plastic surfaces. I wonder about my sister's nail polish or nail hardening compound, but haven't an appropriate "test" area of porous nylon on which to experiment safely. Not to mention having to ASK for the nail polish... ;-)

Whatever attacked my nylon balls left the nylon bearing shaft (on which the capstan turns) alone. It is not deteriorated in any way like the balls are. Very odd.

As new nylon stock is not terribly hard to find, and as it should not be difficult to turn a small rod of it into the roller-wheel's shape and size, I figure that is probably my best bet, if I haven't found a coating I can count on in the next week or two.

As an update, my card-reader is not yet ready to write/read cards without error. Seems that now my latex surgical tubing is too smooth to reliably grab and pull the card through. I am taking it apart again so I can rough up its surface with some fine sandpaper. I'll just order and replace those nylon balls while I'm at it-- maybe they are just not smooth enough to LET the latex capstan do its job.

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HP-19Bii

Message #1 Posted by [Jim Kimes](#) on 27 Jan 2001, 9:15 a.m.

I don't read much on the Forum about an HP-19Bii. It seems to have many of the combined features I find on various different calculators I have, e.g., -12C, -14, -10B, -48GX, etc. Does anyone have an opinion on this calculator you would care to share? Thanks.

Re: HP-19Bii

Message #2 Posted by [Thibaut.be](#) on 28 Jan 2001, 4:09 a.m.,
in response to message #1 by Jim Kimes

Sure ! read my opinion on the thread above !

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HP-65 card reader motor with squeaking noises

Message #1 Posted by [Rafa, Spain](#) on 26 Jan 2001, 11:56 a.m.

Hello,

I have aquired a HP-65. I've check the card reader and it works, but when the motor rolls it makes horrible squeaking noises. I suspect they are due to some oxidation problems, but don't know exactly. Does anyone know what they are for and how to amend these awfull noises?

Re: HP-65 card reader motor with squeaking noises

Message #2 Posted by [Erik Wahlin](#) on 26 Jan 2001, 2:00 p.m.,
in response to message #1 by [Rafa, Spain](#)

I have seen (heard) this happen when the motor is slipping inside the small gear that is attached to it. There is a small plastic insert inside this gear that acts like a clutch. It slips if there is too much torque required to drive the card. I would take the card reader apart and clean the teeth on both gears and use a small drop of "super glue" cyanocrylate on the motor shaft if the gear is too loose on it. Otherwise, remake the plastic insert. There are some consequences to gluing the gear to the shaft however. The motor no longer has a clutch to protect it if the reader gets jammed up and you need to make sure the glue does drip down into the motor.

The other possible reason for noise might be that the motor has become loose or is not tightened evenly (i.e is cocked) to the calculator. There are two small screws that retain it to the calculator. Make sure these are tight and one is not tighter than the other one, which will cock the motor. Hope this helps.

Re: HP-65 card reader motor with squeaking noises

*Message #3 Posted by [Angus \(UK\)](#) on 26 Jan 2001, 7:44 p.m.,
in response to message #2 by Erik Wahlin*

It may also be where the shaft that the worm gear is on goes into the plastic. (One end of it is fitted to the motor spindle and the other end goes into the plastic) I'm not sure if it is exactly the same as a HP97, but my HP97 was making an awful noise until I put a minute amount of oil here. Fortunately it happened at the same time as I was replacing the rubber drive wheel, so at least I did not have to strip the little beast down just for that (though it really was an annoying squeak!)

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41 CV

Message #1 Posted by [David K. Brown](#) on 25 Jan 2001, 12:14 a.m.

Is a 41 CV with a membrane keyboard unusual ?

Re: 41 CV

Message #2 Posted by [Erik Wahlin](#) on 25 Jan 2001, 1:12 a.m.,
in response to message #1 by David K. Brown

Hi, I think you are referring to the optional membrane style keyboard overlay. I believe it is the #82200A Touchpad Keyboard Overlay and was purchased separately.

Re: 41 CV

Message #3 Posted by [David K. Brown](#) on 25 Jan 2001, 10:53 a.m.,
in response to message #2 by Erik Wahlin

THANKS Erik. I see now.

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HP 71B UV EPROM

Message #1 Posted by [Freda](#) on 23 Jan 2001, 4:18 p.m.

Hi: I saw on Ebay this Eprom. Anybody knows what is the use of this ? Anybody knows where to get documentation / information ?

Thanks a lot

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Re: Can anyone identify this: CMT71-32E

Message #1 Posted by [Grant Goodes](#) on 23 Jan 2001, 1:40 p.m.

Yes, this is an EPROM, made by Corvalis Micro Technologies (CMT). It was programmed by a separate programming fixture, or by sending them in to CMT. Sorry, don't know much more (I'm mostly an HP-41 guy, and the CMT stuff was pretty expensive when new).

grant..

Re: Can anyone identify this: CMT71-32E

Message #2 Posted by [Reinhard Hawel](#) on 24 Jan 2001, 11:55 p.m.,
in response to message #1 by Grant Goodes

There were also some other memory extensions in these days. They fit into the card reader and were made by "HHP" (hand held products) and these were really expensive. CMT was a bargain against these. HHP vanished from the market (does anybody know, if they still do exist?)

AFAIK the EPROM in the HHP devices was a standard part in this time and removable. I remember other devices too, such as a 32kRAM/32 k EPROM combination and devices with larger (non-removable) EPROMs up to 128k.

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Advice needed on 20-series battery "Power Pack"

Message #1 Posted by [mkernal](#) on 23 Jan 2001, 12:26 p.m.

I picked up an HP 20-series "Power Pack" (external battery recharger) device along with the Ni-Cd AA battery/holder.

The problem is that years ago, somebody left the battery in the recharger, and it has leaked/discharged to the point where the battery is stuck in the recharger.

Since it's too frozen to muscle it out with brute force, and I don't want to damage the plastic by prying it out, how can I remove the battery from the Power Pack? Can it be submerged in some kind of mild solution (like citric acid or distilled water) that doesn't damage the plastic or electronics, so the parts can be separated?

Any advice would be appreciated.

Thanks, Matt

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HP48SX 2 manuals searched

Message #1 Posted by [Roger](#) on 23 Jan 2001, 12:10 p.m.

Hello, I am a proud owner of a HP48SX. I now urgently need have access to the manuals (I am looking for the binominal coefficient function, and also want to do some programming) Where can I download/get the 2 manuals for my calculator??? Thanks for your help R+

PS: I cannot believe it that these manuals are not published on the HP website...

Re: HP48SX 2 manuals searched

Message #2 Posted by [Jim L](#) on 23 Jan 2001, 12:52 p.m.,
in response to message #1 by Roger

Maybe not on the HP site but they are available on CD here.

See: <http://www.hpmuseum.org/cd/cddesc.htm>

Re: HP48SX 2 manuals searched

Message #3 Posted by [Frank \(Germany\)](#) on 25 Jan 2001, 9:36 a.m.,
in response to message #1 by Roger

Don't know about the HP48SX, but the User's Guide for the HP48G can be downloaded from www.hpcalc.org .

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Re: HP-94 Software development system disc

Message #1 Posted by [David Dederscheck](#) on 23 Jan 2001, 11:14 a.m.

Hmm. I'm looking for them too, and for general documentation how to program and interface the 94. Perhaps we could search together.

Re: HP-94 Software development system disc

Message #2 Posted by [Don Williams](#) on 23 Jan 2001, 11:20 a.m.,
in response to message #1 by David Dederscheck

Also interested in the same subject, but unfortunately don't even know where to start looking. Dave, can you help ?

Re: HP-94 Software development system disc

Message #3 Posted by [David Dederscheck](#) on 23 Jan 2001, 5:24 p.m.,
in response to message #2 by Don Williams

I found a very [detailed and technical description](http://www.finseth.com/~fin/hpdata/hp94d.html) as a text file. It also says something about software development and RS232 level converters. Have a look at it yourself.

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HP 38E Decimal point switch

Message #1 Posted by [Thibaut.be](#) on 23 Jan 2001, 7:38 a.m.

Hello,

I've had the nice opportunity of purchasing 2 beautiful HP 38.

As I live in Europe, I'd like to swap the , decimal point into a .

I've read in this site that there was a jumper on the machine. Can anyone provide me more details on that ?

Thanks !

Re: HP 38E Decimal point switch

Message #2 Posted by [Katie](#) on 24 Jan 2001, 10:49 p.m.,

in response to message #1 by [Thibaut.be](#)

The decimal point "switch" is actually a wire jumper on the small power supply board inside the 3x series calculators. If the jumper is in place (i.e. shorted), the decimal point will be a period, if not in place (i.e., open) it will be a comma. The location of the jumper varies slightly among version of these calculators, however it is always right above the location on the board where the flexible circuit connector is attached.

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Why purchase a 128k card for 48GX?

Message #1 Posted by [Dan](#) on 22 Jan 2001, 5:02 p.m.

Other than the card being a small attachment, why wouldn't you purchase another HP 48G+ for \$80 vs. \$150 expansion 128k memory? I know the expansions would be nice for programs such as surveying data collection cards, but why not just get a new calculator if you're needing more memory? Does the 48GX have 128 kb of available memory?

Thanks.

Re: Why purchase a 128k card for 48GX?

Message #2 Posted by [Mike](#) on 22 Jan 2001, 7:34 p.m.,
in response to message #1 by Dan

If you plan on using alot of programs that require memory then get a 48GX + card. If not then the 48g is a much better deal.

Re: Why purchase a 128k card for 48GX?

Message #3 Posted by [Marx Pio](#) on 23 Jan 2001, 9:55 a.m.,
in response to message #2 by Mike

I'd rather carry one 48 than two in order to have 256Kb of memory. However it's a good idea to have a couple of a 48 machines, each one with its own specifics programs e.g. structural engineering and surveying.

Re: Why purchase a 128k card for 48GX?

Message #4 Posted by [Angus](#) on 23 Jan 2001, 12:11 p.m.,
in response to message #1 by Dan

If you get a non-hp card it will cost much less - a 128K and 1M together can be bought for about \$80. This way, you can install a good selection of programs (see the number available on sites like hpcalc.org and area48.com - many of which can make the 48 easier to use) If you have your programs on a card which is write-protected, there is much more chance of them still being there if your calc crashes, batts go flat, etc. You can also store backups of your entire Home directory or any important data in it.

Non-HP Memory Cards?

Message #5 Posted by [Dan](#) on 23 Jan 2001, 12:47 p.m.,
in response to message #4 by Angus

Can you tell me where I can find non-HP memory cards on the web or by phone? I was wandering if they were available. I can see the advantage if a 128kb and 1Mb can be purchased for less than \$80. Thanks.

Re: Non-HP Memory Cards?

Message #6 Posted by [Angus](#) on 23 Jan 2001, 4:59 p.m.,
in response to message #5 by Dan

Have a look at <http://www.hpcalc.org/buying.php> There is some info and tables with links for the various companies. The only comments I can make is that I have noticed 1 or 2 posts about problems people had with Cynox cards, but have not noticed anything negative about Mikes cards (one of which I use) which are available from Dirk Stolte.

Anyone else got cheap ram card comments? (cheap cards, not comments :-))

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82033A Rechargeable Battery Pack Rebuild

Message #1 Posted by [Ty Rogers \(Texas\)](#) on 19 Jan 2001, 5:49 p.m.

Who rebuilds the 82033A Rechargeable Battery Pack for the HP 42143A Printers, and how much does it cost.

Re: 82033A Rechargeable Battery Pack Rebuild

Message #2 Posted by [Les Bell \(Australia\)](#) on 19 Jan 2001, 8:30 p.m.,
in response to message #1 by Ty Rogers (Texas)

There's no shortage of people who can do it, Ty. I just looked in the Yellow Pages here in Sydney, Australia, and rang a company listed there. Sent them the 82143's battery pack, along with a battery pack for an Icom radio, and got both back ten days or so later, good as new. I forget how much it cost, but I reckon it was good value.

Best,

--- Les [<http://www.lesbell.com.au>]

Re: 82033A Rechargeable Battery Pack Rebuild

Message #3 Posted by [Wayne Brown \(Alabama\)](#) on 20 Jan 2001, 5:05 p.m.,
in response to message #1 by Ty Rogers (Texas)

I had mine rebuilt at Batteries Plus. If I remember correctly, it was about \$30.00 for an 82033A pack last year and about \$20.00 for an HP-41 battery pack a couple of years ago.

Re: 82033A Rechargeable Battery Pack Rebuild

Message #4 Posted by [Katie](#) on 20 Jan 2001, 10:35 p.m.,
in response to message #3 by Wayne Brown (Alabama)

You might want to rebuild this yourself and save some time and money, it's not all that hard. Take a look at the article I posted in the "articles" section here for details on what to buy and where to get it.

-Katie

Battery Pack Disassembly

Message #5 Posted by [Ty Rogers](#) on 21 Jan 2001, 7:58 p.m.,
in response to message #4 by Katie

Thanks for the post. Katie, how does one disassemble the battery pack without destroying it?

Re: Battery Pack Disassembly

Message #6 Posted by [Katie](#) on 21 Jan 2001, 9:37 p.m.,
in response to message #5 by Ty Rogers

Yeah, the hard part is doing just that, opening up the pack without destroying it. Here's what I do...

First: only the ends of the pack are actually bonded together. Don't try to open the pack along its length (other than to cut through the warning labels).

Take a heavy-duty razor blade mounted in a heavy-duty handle (or a #19 X-acto knife blade in the heavy-duty handle, is what I use). Find a corner of the pack that looks like it's the least cleanly put together and force the blade diagonally into the corner with **a lot** of pressure (be very careful not to slip and cut yourself!). The idea is to bury it about 1/16" into the plastic crack formed by the 2-halves of the pack. Now twist the blade and hope that the pack starts to open up. It does about 50% of the time, if not, either try another corner and/or use the blade to dig into the seam on the ends of the pack and try the corner thing again. Once you get one end of the pack open the other side always just pulls apart.

Battery replacement is obvious if you order the pre-configured pack from Digikey that I suggest in the article. I use Duco Cement to put the plastic back together after replacing the batteries. Of course, I only use the glue on the ends of the pack and I clamp in together for a few minutes until the cement sets.

-Katie

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How to reset a HP41CV?

Message #1 Posted by [Pio &\[\(hp\)\]](#) on 21 Jan 2001, 6:09 p.m.

How can I reset my 41 machine to obtain a memory lost?

Re: How to reset a HP41CV?

*Message #2 Posted by [Ty Rogers](#) on 21 Jan 2001, 7:45 p.m.,
in response to message #1 by [Pio &\[\(hp\)\]](#)*

Hold the CLX/A button down and turn the calculator on.

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A good 28C/28S simulator

Message #1 Posted by [Steve \(USA\)](#) on 19 Jan 2001, 10:35 p.m.

Is there a good simulator program usable on handheld devices (Palms (TM) and Compaq Ipaqs and such) for the 28C/28S? How about for a full blown windows desktop/laptop? By good I mean handling matrices/complex/binary-numbers implicitly without changing modes, and having an infinite stack with 4 line visibility. I may be one of the few supporters of the 28 series calcs.

TIA

Re: A good 28C/28S simulator

Message #2 Posted by [Jan \(CH\)](#) on 21 Jan 2001, 3:11 p.m.,

in response to message #1 by Steve (USA)

I wished, somebody would take up this great idea for the most important HP calcs (27S, 28, 41...). I would be willing to pay an amount for a reliable Palm HP emulator in the area of a new HP calculator.

Re: A good 28C/28S simulator

Message #3 Posted by [Paul Brogger](#) on 22 Jan 2001, 11:45 a.m.,

in response to message #1 by Steve (USA)

HP could probably make some money on HP-branded calculator software for PDA's. A 28S "skin" for the Palm & CE devices (Journada???) would be right on. No nice button feel, but all the functionality and RPN usefulness anyone could ask for, plus the opportunity to save and restore programs, etc. Most of HP's investment in functionality and software could be leveraged into new, profitable manifestatons of a truly venerated product line. (The future lies in customizable software running on connected, general-purpose hardware, anyway.) Knock, knock! Aytch Pee? Anyone listening in there?

A good simulator / Calculator applications

*Message #4 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 22 Jan 2001, 4:20 p.m.,
in response to message #3 by Paul Brogger*

HP had an excellent calculator application software, running on the limited HP 100LX/200LX palmtops. Although a little business oriented (I suppose it is similar to the HP 27S), it included logs, trigs, plotting, solver, stats, 4-model curve fitting, least from date calculations, TVM, amortizations... Oh, it also accepted both algebraic and RPN modes. It lacks programability, complex mode, matrices, symbolic math, base conversions; but is very usable and friendly, at least for engineers that became managers like me :-)

As I had stated in this Forum before, when the first Windows CE machines appeared in 1997, I expected HP to announce a model which a good calculator application. I could not believe when the WinCE based HP 300LX appeared... and the "calculator" feature was a very basic Windows 4-function calc! Needless to say, I was much dissapointed because of that step back from the 200LX.

If HP had such good calculator application in 1994, running on a 8086-class, 7 MHz chip with 1 MBy RAM, and even made it multitasking on a MS-DOS 5.0 environment, the only reason for HP not doing something comparable for a current PDA is that HP does not believe it makes sense (for them) on a business perspective.

On the other hand, if you see the HP home page, where a legal settlement notice shows how HP had to spend a lot of money in reimbursements and lawyer fees due to a supposedly misleading Jornada advertising, you could understand that HP may be reluctant to announce any new product or software that may lead to such situations. For collectors, an "allbugs" machine is a dream, but the business rules of today make a big financial problem from any imperfection.

I know I am getting too nostalgic for old times, but sometimes I wonder if the HP 35, (with some initial bugs), or the HP 41 (with its bugs and weak contacts), or, for that matter, the almost perfect HP42S, with its PERM and COMB bug, could be announced today without being subjects of lawsuits; instead of being the functional marvels they were at their time...

Just in case, I am not affiliated with HP in any way, and have no position or interest on the Jornada claim.

Re: A good simulator / Calculator applications

*Message #5 Posted by [Mike](#) on 22 Jan 2001, 6:30 p.m.,
in response to message #4 by Andrés C. Rodríguez (Argentina)*

You might want to check these out

<http://www.kktechnologies.com/software.html>

<http://www.creativecreek.com/>

I have a slightly different opinion and think an interface like RPN by Russ Webb is more suited to these kind of devices. The HP keyboard layout was awesome but in my opinion doesn't translate well to the touchpad screens.

Re: A good simulator / Calculator applications

*Message #6 Posted by [Steve \(USA\)](#) on 23 Jan 2001, 1:19 a.m.,
in response to message #5 by Mike*

Thanks for the info. The KK15C looks interesting. I am, however, suspecting that I need to use my C++ skills to create an emulator with a 4 line display and infinite stack. Keyboard layout need not be exactly like the 28 series, but it does need '#', '[', ']', '(', ')', plus a few more. As well as inherently doing all I think is right with the 28 series ("everything is an entity and no mode changes are needed" concept) Anyone out there in HP-calculator-geek-land interested?

I have to agree with you to some degree on the 28 series. The book format seems an accident waiting to happen and the split keyboard is kludgy. But if one was to take out unnecessary keys and combine the keys to one pad while keeping all the good features, it would be a thing of beauty. And, NO, it would not be the 48/49 series. I think 'handheld calculators' should be 'hand holdable'!!

Re: A good simulator / Calculator applications

Message #7 Posted by [Paul Brogger](#) on 23 Jan 2001, 12:10 p.m.,
in response to message #6 by Steve (USA)

Yes.

I'm not much of a C++ programmer (I've taken some classes and got peripherally involved in one project) I think I could pick it up more completely than I have.

I'm thinking of a hybrid 32S/42S keyboard (42S with alphas and an "alpha mode"), but with a 28S behavior and a 48G-style graphic screen (capable, at least, of a four-line stack display). The object type symbols (brackets etc.) would be needed, more of the various functions would have to be moved to multi-layer menus, but a 28S-style CUSTOM menu capability would allow return of the desired subset to a "place" of convenient access.

But really, being as it's a piece of software for a touch screen or workstation, the entire layout could be made more fluid, with a tabbed or other method of altering the available "keys" to suit particular circumstances . . .

Re: A good simulator / Calculator applications

Message #8 Posted by [Mike](#) on 23 Jan 2001, 8:29 p.m.,
in response to message #7 by Paul Brogger

Agreed , actually I think all the HP calculator's with the possible exception of the 49G have wonderful keyboards. Earlier I was just remarking on the fact that hp keypad's are much larger than display's on most handheld's which means just copying the keypad doesn't work. I think something like the 42s user configurable menus are the answer also. Maybe two rows of keys with menu sets and some type of double shift with the keys dynamically renaming themselves. Instead of c++ how about quartus Forth it has a stack implementation inherently and supposedly compiles fairly fast executables

Those keyboards

*Message #9 Posted by [Viktor Toth](#) on 24 Jan 2001, 6:51 a.m.,
in response to message #8 by Mike*

I never really believed just how good those old keyboards are until I recently came across an HP-95LX. Previously I was of the opinion that a pocket-size QWERTY keyboard is sheer nonsense. Now, having spent some of my free time in the last week or so replaying ZORK I on this HP-95LX, I have changed my opinion: a pocket-sized QWERTY keyboard makes a lot of sense if it's done right... like when it's done with the "old" HP keyboard technology!

Viktor

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Is a PC Connectivity Kit required for 48GX downloadable files?

Message #1 Posted by [dan](#) on 19 Jan 2001, 12:26 p.m.

I was looking at the hpcalc.org site and downloaded a few programs. I know I have to unzip the files, but after that is a PC Connectivity kit required to get the program on your calculator or is the actual program viewable and able to be placed into the calculator by the user (actually programming it into his/her calculator). Thanks.

Re: Is a PC Connectivity Kit required for 48GX downloadable files?

*Message #2 Posted by [DaveJ](#) on 19 Jan 2001, 1:30 p.m.,
in response to message #1 by dan*

Software is available on the web but you will need a cable to download the programs, some may be stored in ascii format which may be keyable with much painful effort..

Re: Is a PC Connectivity Kit required for 48GX downloadable files?

*Message #3 Posted by [Dan](#) on 19 Jan 2001, 3:44 p.m.,
in response to message #2 by DaveJ*

After I unzip the file, does the software run the user through the procedures to transfer the file onto the HP? Are all file types transferred? One more question, is this cable available from other manufacturers like Radio Shack?

Thanks Again.

Re: Is a PC Connectivity Kit required for 48GX downloadable files?

*Message #4 Posted by [Chuck Ratliff](#) on 19 Jan 2001, 10:33 p.m.,
in response to message #3 by Dan*

The two data transfer programs that I successfully use are 1) Link 48, and 2) 48 Explorer, which is more full featured and freely available on the 48.org site. Data transfer with Explorer is a snap. It has its own help files.

Get the cable from Don O'Rourke at 407.898.0081 in Orlando, FL, although he may not have Link 48 any more, it's ancient. See his site at internationalcalculator.com. Good folks.

Good luck!

Re: Is a PC Connectivity Kit required for 48GX downloadable files?

*Message #5 Posted by [Marx](#) on 19 Jan 2001, 11:15 p.m.,
in response to message #4 by Chuck Ratliff*

Try www.samsomcables.com they sell the cable separately. Don't buy the connectivity soft, they are free . I use HPCComm.

[(hp)]

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HP-41CV "private" program

Message #1 Posted by [Erik Wahlin](#) on 19 Jan 2001, 11:32 a.m.

I just recently turned on my HP-41CV, and heard two beeps before it turned on. When I went into program mode, the display showed PRIVATE. In this mode, it did not allow me to enter any program steps. Has anyone ever seen this strange behaviour before? I had to do a reset before the calculator returned to normal.

Re: HP-41CV "private" program

Message #2 Posted by [DaveJ](#) on 19 Jan 2001, 1:35 p.m.,

in response to message #1 by Erik Wahlin

The card reader can be used to make programs private so they are not editable. Somehow the internal flags must have been set to make your whole calc private. There were tricks to getting around private programs detailed in PPC mags and the like.

Re: HP-41CV "private" program

Message #3 Posted by [Andrés C. Rodríguez \(Argentina\)](#) on 20 Jan 2001, 9:16 a.m.,

in response to message #1 by Erik Wahlin

In previous threads here at the Museum, and (if memory helps) in the articles forum, there are explanations about Private programs and how to un-private a program so protected by accident. The idea of Private mode was to protect the program code from scrutiny, copying or alterations, while allowing full use of it. There are few other ways in which to protect code when the source code is loaded in RAM and interpreted at run time, as in a calculator. On a computer you may distribute compiled and linked executable code without risking the source code.

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49G manuals (help!)

Message #1 Posted by [Bryan](#) on 19 Jan 2001, 2:39 a.m.

The manuals provided with the 49G are useless, and the advanced user's guide (while a valiant attempt) falls well short of the in-depth discussion on using this great new tool to its limits.

I finally ditched my TI-86 after years as a loyal TI fan -- but this transition (as worthwhile an effort as it is) will absolutely kill me if I can't find a good reference text to help me hone my skills with the graphing, statistic, calculus and other functions.

For those of you who have both a 48 and a 49 -- would one or all of the 48GX manuals help me get a grip on the 49? If so, which one(s)???

Thanks!

P.S. - Anybody have problems graphing fractional exponents on the 49? (negative x values won't plot, but re-writing the equation with a radical in the denominator works fine...?) -- does the 48 have this problem?

Re: 49G manuals (help!)

Message #2 Posted by [Erwin](#) on 19 Jan 2001, 4:54 a.m.,

in response to message #1 by Bryan

Hello Bryan,

To get to know the HP49G, i had to buy a secondhand HP48G with user's guide. If i had not do that, i would propebly never learned what to do with the HP49G, especially when you want to use HP's famous RPN mode.

The manual that came with the HP49G are an insult to the buyer. The unit cost's US\$ 170,- . You would expect a decent manual, like HP use to provide with there calculators in the past.

Re: 49G manuals (help!)

*Message #3 Posted by [Tom \(UK\)](#) on 19 Jan 2001, 9:11 a.m.,
in response to message #2 by Erwin*

I agree. You will need the standard HP manual for the HP48G(X) and the Advanced User Guide (for programming) to get to know the HP49G as a new user . I find the HP49G documentation far to scant.

Also look at some of the documentation at hpcalc.org, some of it is very deep (e.g. saturn processor) but other bits fill in the gaps in the users knowledge.

Gilberto Urroz has written a book (or 2) for the HP49G. See it at: www.greatunpublished.com/Authors/Gilberto_Urroz.htm

I have not seen this book so can't recomend it. I think it may be available as a down loadable file, but I don't yet know the address.

Tom.

Re: 49G manuals (help!)

*Message #4 Posted by [Bryan](#) on 19 Jan 2001, 3:09 p.m.,
in response to message #3 by Tom (UK)*

Thank you for the link to Mr. Urroz' books -- they appear to be just what I need!

Re: 49G manuals (good ones!!!!)

*Message #5 Posted by [Bryan](#) on 22 Jan 2001, 11:46 a.m.,
in response to message #1 by Bryan*

To all,

Thanks to the above for the help! I don't remember who's lead I followed, but I finally located the quintessential HP49G manuals and figured I'd share this gem of info with other frustrated 49G users (I know there's more than a few out there!).

The manuals are written by Gilberto E Urroz, PhD, PE and can be obtained on the net at greatunpublished.com. Titles are "Science and Engineering Mathematics with the HP-49G", ISBN 1-58898-043X for volume 1 and -044-8 for Volume 2.

Caution: The manuals are RPN/RPL focused, so if you're using the '49 in algebraic mode, these

probably aren't for you.

They run about \$25 each for hard-copy and \$20 in electronic format (which they'll e-mail to you). If you buy hard copy, you may also request electronic format for no additional charge.

Hope this helps!

Again, to the forum - thanks!

~ Bryan

Thanks Tom!

*Message #6 Posted by [Bryan](#) on 29 Jan 2001, 1:25 a.m.,
in response to message #5 by Bryan*

Tom, Sorry I didn't give credit where it was due in my earlier entry. The books are outstanding and they blow the Texas Instrument TI-86 books away! I'd recommend them as a refresher in engineering mathematics as well as for calculator operating instruction.

I'm thoroughly enjoying the 49G now -- it's like night and day.

Bryan

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Seeking manuals for 71B modules

Message #1 Posted by [Viktor Toth](#) on 19 Jan 2001, 2:03 a.m.

I am looking for the manuals of the following 71B modules:

5061-7226 HP-71 Math 5061-7237 HP-71 AC Circuit 5061-7241 HP-71 Curve Fit 5061-7269 HP-71 41 Translator

I understand that these are not (yet?) on the MoHPC CD-ROMs. Dave, are you planning to include them? Alternatively, can anyone help me out with a copy or scan (or perhaps by selling me the originals?) I'd also gladly accept a loan and scan them myself, and of course provide copies to Dave for possible inclusion on a future MoHPC CD-ROM set.

Thank you,

Viktor

Re: Seeking manuals for 71B modules

Message #2 Posted by [Reinhard Hawel](#) on 19 Jan 2001, 2:17 a.m.,
in response to message #1 by Viktor Toth

I own Math and Translator. Sorry no sell. My problem is time. I am behind with putting two scanned manuals for David together (sorry Dave).

I have very bad xeroxed copies of the other modules ...

Maybe in the holidays there's more time (less problems with the students at the university where I work). Some of them tend to be really time-consuming. If there wouldn't be all my other (hardware) projects...

Maybe I can establish a Diploma thesis at the institute: "A scientific scan of RHs available HP manuals". Guess that would qualify a MS degree more or less... :-)

Re: Seeking manuals for 71B modules

Message #3 Posted by [Dan M \(Vermont, USA\)](#) on 19 Jan 2001, 10:04 a.m.,
in response to message #1 by Viktor Toth

I have promised to scan the 41 Translator manual for Dave. It has not been started yet, and is very thick (appx. 200 pages) but comprehensive. I've honed my techniques on other manuals, so am ready to tackle this one. I may be done by Feb 12 or so (I'm spending a lot of time on the road between now and then). In the meantime, enjoy your modules!!!

Re: Seeking manuals for 71B modules

Message #4 Posted by [Michael Hyche](#) on 23 Jan 2001, 10:32 a.m.,
in response to message #1 by Viktor Toth

I have a 71 Math manual that I would be glad to donate. Please tell me where to ship.

MH

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Calling all HP-65 Owners and Lovers

Message #1 Posted by [Matthew Riehl \(U.S.A.\)](#) on 18 Jan 2001, 4:55 p.m.

Guys and Gals,

I have a question that I need help with. The HP-65 destroys the contents of Storage Register 9 when performing the following functions: sin, sin-1, cos, cos-1, tan, tan-1, R->P, P->R, $x < > y$, $x < = y$, $x = y$, and $x > y$.

I have been able to determine what it places there for the sin (the tan(X-Register)), cos (the reciprocal of the tan(X-Register)), R->P (Y-Register squared), P->R (the tan(Y-Register)), and the relational tests all deposit the original value of the X-Register in Storage Register 9.

However, I have been unable to decipher what the sin-1, cos-1, tan, and tan-1 put there. As close as I can tell it has something to do with the inverted squared root of indefinite multiples of a complex random number (just kidding). I have tried plotting values versus results but have had no luck making sense of it.

If anyone out there can tell me what these four functions deposit into Storage Register 9 I would really appreciate it. Any takers?

Matt Riehl

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Is the 48GX worth +\$40 over the 48G+

Message #1 Posted by [Dan](#) on 18 Jan 2001, 4:43 p.m.

How many people actually use the expansion slots? I'm a structural engineer and don't think I'd ever pay \$300+ for a card with engineering formulas programmed into it. What do you guys think?

Thanks.

Re: Is the 48GX worth +\$40 over the 48G+

Message #2 Posted by [Mike](#) on 18 Jan 2001, 6:28 p.m.,
in response to message #1 by Dan

Yes it's worth the money. It's quite difficult to upgrade the memory without the slot. Look on hpcalc.org there are numerous free programs which you might want that will quickly absorb 128k

Re: Is the 48GX worth +\$40 over the 48G+

Message #3 Posted by [Marx Pio\(Brasil\)](#) on 18 Jan 2001, 7:57 p.m.,
in response to message #1 by Dan

I think the prices are high because they know the final price of a structural design. Imagine that a HP41CV costs 130,00 US Dollars (auction) and it has just a bit of the power of a 48GX. There's something like the NASDAQ market. It's a total insanity.

Re: Is the 48GX worth +\$40 over the 48G+

Message #4 Posted by [Chan Tran \(USA\)](#) on 20 Jan 2001, 11:52 a.m.,
in response to message #3 by Marx Pio(Brasil)

Certainly, I always opted for the X version. I have both the HP48SX and HP48GX

Re: Is the 48GX worth +\$40 over the 48G+

Message #5 Posted by [David Fenyes](#) on 5 Feb 2001, 12:49 a.m.,
in response to message #1 by Dan

Not in the year 2001, and if you're not in high school. For that matter, (unless you are really picky about the display contrast) the HP 48G/49G are not worth the premium over the HP48S, which you can get on Ebay for \$30.

If you need to, you can upgrade is yourself to 288K (Which I have done for both of mine). More likely, after the initial phase of loading every existing program into it, you'll settle into using it straight, maybe with Java loaded (the stack replacement, not the platform).

While you're inside there, I recommend you clip off the serial connector, and solder (+epoxy) in a 0.100"-center Molex connector, so you can easily build your own serial cable.

Regards,

David.

Re: Is the 48GX worth +\$40 over the 48G+

Message #6 Posted by [Frank Knight](#) on 5 Feb 2001, 5:51 p.m.,
in response to message #5 by David Fenyes

Well, I figured students would go for at least the inexpensive 48G on ebay to get the equation library, I could have used it when I was in, I used to keystone program during an exam or hw for repetitive calculations after I could afford a simple(non mag card) programmable like the SR56/HP25 but before C models ! Besides, in one respect they all are cheap now compared to the 70's! We used to compare them with the kind of car we could get for the same money. Remember the saying "for that much, you should be able to drive it" ;+}

Re: Is the 48GX worth +\$40 over the 48G+

Message #7 Posted by [Tom \(UK\)](#) on 6 Feb 2001, 8:17 a.m.,
in response to message #1 by Dan

When the HP48G+ model was introduced I think the G+ and GX calculators then used the same circuit board but with slightly different ROMs to cope with the expansion slots. If this is true the only *production* cost difference between the 2 models is the connector for the cards. The connector is likely to cost around 1 to 2 dollars so a \$40 premium is a bit steep. However HP would be fools to sell the calc at anything less than they could get away with.

If HP dropped the G+ model then overall production costs would probably be lower as they would only have to deal with one model and save some money on not making, stocking and selling 2 models.

A product *range* (e.g. HP10/11/12/15/16) is liked by customers and manufacturers as although they may cost almost the same to make (nearly the same case, display, keys etc.), gives the purchaser some choice, and the producer some profit from the more expensive models. The price ramp from cheapest to most expensive is a balance between how much the manufacturer wants to recoup the development costs for making the fuller featured products and the lower number of sales due to the higher cost.

There were a couple of Casio calculators on sale in the mid 80's. Both had exactly the same features. On the cheaper model the statistic features were not advertised and when the customer pressed the key for stats the display lit up 'err'. On the more expensive model the same key stroke displayed 'SD'. The smart buyer bought the cheaper model and labeled some of the keys with the stat functions that worked perfectly on the cheaper model. But how many users knew that, and how many extra dollars did Casio get?

There are many other factors in setting the price (e.g. competition, support, manuals etc.) and price setting is between a science and an art.

Re: Is the 48GX worth +\$40 over the 48G+

Message #8 Posted by [db](#) on 6 Feb 2001, 9:52 p.m.,
in response to message #7 by Tom (UK)

tom; that was an interesting story about the casio but i didn't get the part about the error message. could you expand on it please? it sounds a bit like the story i heard that intel sold chips with and without math coprocessors, the w/o model being \$80 cheaper. the sick thing was that it was the same chip but before they sold the cheaper one they had to physically distroy the math co. circuitry that was already printed on it. - d

Re: Is the 48GX worth +\$40 over the 48G+

Message #9 Posted by [Tom \(UK\)](#) on 7 Feb 2001, 1:36 p.m.,
in response to message #8 by db

This is something I saw about 15 years ago. The 2 calculators were in the same series as the fx100 but simpler if my memory serves me correctly. One of them might have been the fx82? Could someone give me a link to a casio collectors page so I can check the model numbers?

The 2 calcs looked exactly the same with the same number of keys etc. The only 3 differences between the 2 calcs were:

- 1) The price (about 20% I think)
- 2) The display (the LCD element on the more expensive one had 'SD' and the cheaper one 'ERR' or perhaps 'ERROR' in exactly the same place)
- 3) The key legend on the face plate (the more expensive one had $\text{SUM}(x)$ $\text{SUM}(x^2)$, $\text{Sigma}(n)$, $\text{Sigma}(n-1)$ etc. printed on the metal, the cheaper one was blank in these places.

The operation went something like: Key sequence to enable stats mode (on the cheaper one it displayed 'ERR', the user then probably pressed AC and the 'ERR' annunciator went away). On the more expensive one 'SD' lit up and the user could then enter data and calculate $\text{AVG}(x)$ etc.

HOWEVER if data was entered on the cheaper model when it displayed 'ERR' all the stat functions worked by using the same keys as the more expensive one.

The guy who showed me this had scratched into the metal face plate the key symbols printed on the more expensive model so he could use stats on his cheaper calc.

Re: Is the 48GX worth +\$40 over the 48G+

*Message #10 Posted by [db](#) on 8 Feb 2001, 1:06 a.m.,
in response to message #9 by Tom (UK)*

that was a very interesting story. if i see a cheap used fx82 sometime i'll pick it up and try this. so, when the bean counter that made the business decision to downgrade one of his products (and limit his customers) to make a couple of extra bucks got home and his kid asked what did you do today daddy?... i guess we could add to this list the rumor that hp managment left off a real interface from the 42 so it didn't compete against the 48. does anyone have a new story of messrs hewlett and packard challenging thier engineers to build a calculator that does MORE?

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HP 48GX: Program for adding feet and inches?

Message #1 Posted by [Dan](#) on 18 Jan 2001, 3:54 p.m.

I posted the 48GX question for adding fractions. Actually, I need a program that will add feet and inches in 32nds of an inch. EX:

$$4'3 \frac{15}{32}'' + 2'4 \frac{16}{32}'' = 6'7 \frac{31}{32}''$$

There are construction calculators that you enter this in as follows:

$$4 \ 3 \ 15 + 2 \ 4 \ 16 = 6 \ 7 \ 31$$

There has to be a program because HP's can do anything.

Thanks.

Re: HP 48GX: Program for adding feet and inches?

Message #2 Posted by [Paul Brogger](#) on 18 Jan 2001, 6:52 p.m.,
in response to message #1 by Dan

The HP-32SII has a conversion capability that supports fractions, on the keyboard. Gimmicky, but that's why my 32SII is in the garage.

Re: HP 48GX: Program for adding feet and inches?

Message #3 Posted by [Mike](#) on 18 Jan 2001, 6:56 p.m.,
in response to message #1 by Dan

I am asking because I was thinking how I would program it. How does it add

$$4'3 \frac{13}{16}'' + 2'4 \frac{7}{16}'' = 6'8 \frac{4}{16}'' = 6'8 \frac{1}{4}''$$

$$4 \ 3 \ 13 + 2 \ 4 \ 7 = 6 \ 8 \ 4$$

Does it assume that the fractions entered are always 32nd's or does it have a mode?

I realize you said this "Actually, I need a program that will add feet and inches in 32nds of an inch" but saying 8/32 instead of a quarter inch seems odd. Is it always true that you mean 32nds? Do you need - * / ?

Re: HP 48GX: Program for adding feet and inches?

Message #4 Posted by [Dan](#) on 18 Jan 2001, 11:21 p.m.,
in response to message #3 by Mike

Well, 32nds of an inch was just an example. The construction calculator in our office uses a set denominator (16ths). So when you have 1/4", you enter 4 in as the last number. It must be easier to program that way. If you come up with a program, I'd appreciate it if you'd let me take a look at it. I'm not that fluent in programming a 48GX, but I'll get there. Without the set denominator would be perfect. Thanks.

Re: HP 48GX: Program for adding feet and inches?

Message #5 Posted by [Stuart Dawson](#) on 29 Jan 2001, 3:32 p.m.,
in response to message #4 by Dan

Dan:

If I can tempt you to the Dark Side, my package at:

<http://www.dawson-eng.demon.co.uk/download/nx89mf11.zip>

for the Texas Instruments TI-89 will handle your problem

Regards, Stuart Dawson, Dawson Engineering, Belfast, NI.

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HP49G s/n

Message #1 Posted by [Sam](#) on 18 Jan 2001, 12:30 p.m.

What is the earliest HP49G serial number? I can't see it listed on these pages.

I'd guess there were a few pre-production models about so what would be the earliest production number?

The earliest HP49G I have seen is ID936008xx. I can't remember the last 2 digits, but it was a couple of hundred less than mine.

I know that this calc is way too young to be listed here (and probably isn't your favorite HP calc) but if someone does not make a note of these things now we may never know these facts in the future.

Sam.

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Question about HP48G calculator

Message #1 Posted by [Greg Hu](#) on 18 Jan 2001, 1:20 a.m.

1. How to enable the last stack after it was disabled?(see User's Guide B-6 Error Messages) 2. Some hp48g calculators frequently losing memory. It happens sometime while turning it on. Is there any solution to solve the problem? Thanks!

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NSIM ROM file translator available

Message #1 Posted by [Greg Dunn](#) on 17 Jan 2001, 9:23 p.m.

Just thought I'd post this...

Thanks to forum contributors I was able to figure out the format for the NSIM UNIX/X HP41 simulator ROM. If you have a copy of any HP41 ROMs in raw binary format (i.e., no headers/checksum/wrappers) I have a small program that will convert them to a format suitable for use with the NSIM emulator.

Basically, you create a text file listing the ROM image names and the starting addresses for each one, and this script will translate the ROMs into a text list file that NSIM wants to see.

It's a Perl script, written so as to be cross-platform usable (I wrote it on a Mac and tested it on a Linux box as well) and is rather simplistic but will get the job done. If anyone wants a copy, I'll be happy to mail it to them. It's very small -- about 60% of the script is documentation. I make no warranties, expressed or implied, but the price is right. And you have the source. :-)

Re: NSIM ROM file translator available

Message #2 Posted by [CJ](#) on 29 Jan 2001, 8:32 a.m.,
in response to message #1 by Greg Dunn

Hi Greg,

Will your script convert *.ROM files to the NSIM format? I think I have just about every rom in this format.

Also do you know what the format is for the config file(~/.nsimrc)? NSIM keeps asking for the file at startup. There is nothing in the docs mentioning the format of this file nor an example file in the archive.

I have NSIM running as a CV right now. It does work. I even got synthetic hacks to work.

While looking at the source I noticed that phineas is in there. I would like to get the clock module working. Most of my programs use the module. I also want to get the PPC rom working to make synthetic programming easier.

Thanks CJ

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WTB Battery for HP-21

Message #1 Posted by [Vic Santana](#) on 17 Jan 2001, 6:46 p.m.

I am looking to purchase two rechargeable batteries for my HP-21 calculator. IF you are interested in selling yours and/or know where I can purchase them, could you please email me with information. Thank you Sarah for Vic Santana

Re: WTB Battery for HP-21

Message #2 Posted by [Erik Wahlin](#) on 17 Jan 2001, 8:25 p.m.,
in response to message #1 by Vic Santana

You should try posting this message on the HP museum site advertisement section <http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/adforum.cgi>. Good luck, they are getting hard to come by.

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Simulator modification

Message #1 Posted by [Reed Figley](#) on 17 Jan 2001, 5:52 p.m.

I'm a structural engineer. I have to add and subtract a lot of feet and inch dimensions in my work. You can buy a cheap calculator that does this, but not one in RPN.

I am not a programmer, so I am hoping somebody has already thought of this. I'd like to have a Java simulator where feet and inches can be entered from the computer keypad. Ideally, the feet and inch and fractional units would be seperated by two decimal points in succession.

For instance: the expression $5'-3 \frac{1}{2}" + 4'-10 \frac{9}{16}" + 1'-6" = 10'-2 \frac{1}{16}"$ would be entered like 5..3..8
<enter> 4..10..9 <+> 1.5 <+>

producing 11.8.1 as the answer. Wouldn't that be nice?

By the way, Paul Lutus' Arachnocalc (<http://www.arachnoid.com/lutus/calc/index.html>) is a great simulator, but won't do what I want it to do.

Can anybody help me? Please send replies to feedrigley@hotmail.com

Reed Figley Boise, Idaho

Re: Simulator modification

Message #2 Posted by [Jeff Brower](#) on 17 Jan 2001, 8:40 p.m.,
in response to message #1 by Reed Figley

I've found a great rpn freeware calculator that will do this. It's called Excalibur, you can find it here:

http://sota.softseek.com/Education_and_Science/Math/Calculators/Review_12971_index.html

If you have trouble do a quick search for "Excalibur calculator"

Regards, Jeff

Re: Simulator modification

Message #3 Posted by [Jeff Brower](#) on 17 Jan 2001, 8:43 p.m.,
in response to message #2 by Jeff Brower

Sorry, I jumped the gun, it takes .. as fractions only, no feet... but it's still good software!

Re: Simulator modification

Message #4 Posted by [Reed Figley](#) on 18 Jan 2001, 5:03 p.m.,
in response to message #3 by Jeff Brower

Thanks anyhow, it's a great piece of software! Maybe I could coax a modification out of its author.

Reed

Re: Simulator modification

Message #5 Posted by [Paul Brogger](#) on 18 Jan 2001, 11:56 a.m.,
in response to message #1 by Reed Figley

Using my browser, I obtained all the components for the Jave HP-25 simulation that's been available at the MoHPC site, and played around a bit. I think I understand the code and how it works, and it should be possible to modify the .GIFs (or whatever -- I can't remember just now) to change the keyboard layout. I'll chase it down and take another look. (If you know anything at all about Java, you could do the same yourself -- I'm a programmer, but this is the first big piece of Java I've ever looked at.) I can't promise responsiveness, as I'm really busy right now, so maybe this post isn't worth all that much!

Re: Simulator modification

*Message #6 Posted by [Reed Figley](#) on 18 Jan 2001, 5:06 p.m.,
in response to message #5 by Paul Brogger*

After graduation, I promised myself I'd never program again! But I love a challenge. If you make any headway in doing something with that code, I'd appreciate it. I'll even beta test it for you!!

Thanks again, Reed

Re: Simulator modification

*Message #7 Posted by [Matthew Riehl \(U.S.A.\)](#) on 19 Jan 2001, 1:12 p.m.,
in response to message #1 by Reed Figley*

There is a really nice calculator that adds, subtracts, divides, multiplies all kind units including feet, inches, yards and metrics.

You can download it at:

<http://www.cast-db.com/archCalc/ConvertUnit1.0.sit.bin>

Hope this helps.

Matt

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HP 48GX Question

Message #1 Posted by [Dan](#) on 17 Jan 2001, 5:14 p.m.

Can an HP 48GX add fractions? Rather than always converting the fractions to decimals, is there a program where you can enter in numbers to the 1/16ths of an inch and add the fractions. This is a common feature on construction calculators and would be very nice on a 48GX. I'm ordering one this week and am possibly ordering an 12C for adding fractions, it just seems that the 48GX should be able to handle this.

Thanks.

Re: HP 48GX Question

Message #2 Posted by [Mike](#) on 17 Jan 2001, 8:18 p.m.,
in response to message #1 by Dan

I don't know if the 48 natively adds fractions as I don't own one but there are numerous programs on hpcalc.org that refer to fractions so I am sure it is possible at the very least to program it to do so

Re: HP 48GX Question

Message #3 Posted by [Ron Ross](#) on 17 Jan 2001, 9:48 p.m.,
in response to message #2 by Mike

The Hp48 has programs available to do fractions as stated. It also comes with a built in quotient key that converts any decimal into simplest fraction and can also be forced to show (round or truncate) values of fractions to 16ths or 32nds.

Just add your decimal numbers up, hit purple key, then symbolic above #9. Use next key below the f key and the soft menu will display a Q. Hit that and the decimal value will be reduce to lowest common fraction.

Re: HP 48GX Question

Message #4 Posted by [mkernal](#) on 18 Jan 2001, 11:00 a.m.,
in response to message #1 by Dan

If it's not too late, I'd change your order to a 32SII instead of the 12C. The 32SII is the only RPN calculator that can natively operate in fractions "mode". Other than the Divide key, the 12C doesn't have a true fractions mode. Check the specs on HP's calculator webpages.

For more information on this, see the thread named "Program for adding fractions?" in early Dec. 2000.

In this thread, on Dec. 7, 2000, Fred ALBERT (France) said "That's right : the 32SII is able to work with fractions. You just have to activate the FDISP function. One of the restriction is that the denominator must be inferior to 4095. You have different modes of fractions to fix the max value of the denominator (up to 4095 of course). You can fix the denominator too,"

Good Luck,

Matt

Re: HP 48GX Question

Message #5 Posted by [Marx Pio\(Brasil\)](#) on 18 Jan 2001, 3:34 p.m.,
in response to message #4 by mkernal

Better try a 49G or change into metric system like the rest of the world do. ;^)

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How to clean HP41's battery contacts

Message #1 Posted by [Marx Pio\(Brasil\)](#) on 17 Jan 2001, 6:28 a.m.

There is one battery contact that is showing signs og corrosion. How can I clean without damage it? Finaly I got my first fullnut 41CV. Lets party!

Re: How to clean HP41's battery contacts

Message #2 Posted by [Erik Wahlin](#) on 17 Jan 2001, 8:23 p.m.,
in response to message #1 by Marx Pio(Brasil)

I know of no better method except to cautiously scrape off the corrosion. Make sure that you don't scrape off the gold plating. If you do, you can try using a conductive epoxy on the damaged area. This has worked for several of my rebuilds.

Re: How to clean HP41's battery contacts

Message #3 Posted by [Katie](#) on 17 Jan 2001, 10:04 p.m.,
in response to message #2 by Erik Wahlin

Erik,

I've tried your conductive epoxy method for battery contact rebuilding. All the contacts in one of my 41's had completely disintegrated. The conductive epoxy worked sort of intermittently until I coated the epoxy with a conductive coating from a "circuitworks" pen, now it works great!

-Katie

Re: How to clean HP41's battery contacts

Message #4 Posted by [Erik Wahlin](#) on 17 Jan 2001, 11:12 p.m.,
in response to message #3 by Katie

Hi Katie, I have found that you have to mix the epoxy just right to get good results. I have never had any problems with one particular batch I made. I had repaired about three contacts with it and they still seem to be ok. My first attempt I must not have had the proper ratio (50:50) or blended it well, because the batch was not very conductive.

Re: How to clean HP41's battery contacts

Message #5 Posted by [Marx Pio\(Brasil\)](#) on 18 Jan 2001, 8:05 p.m.,
in response to message #4 by Erik Wahlin

Wahlin,

Can I use a silver based conductive ink on the contacts? I didn't find the epoxy you mentioned. Thanks,

Re: How to clean HP41's battery contacts

Message #6 Posted by [Erik Wahlin](#) on 19 Jan 2001, 12:07 a.m.,
in response to message #5 by Marx Pio(Brasil)

Hi I have not used that kind of conductive ink before. I suppose it would work if it has good conductivity and is reasonably durable.

Re: How to clean HP41's battery contacts

Message #7 Posted by [David Fenyes](#) on 5 Feb 2001, 12:55 a.m.,
in response to message #1 by Marx Pio(Brasil)

The battery contacts in mine seem fine, so I haven't had to try anything yet, but I've used dilute phosphoric acid (followed by distilled water, followed by alcohol) to clean copper surfaces in the past.

Alternatively, It looks like you could cut and place copper electrical tape over the contacts, and solder to the PCB.

Regards,

David.

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HEPAX Module for HP-41C/CV/CX and VM Electronics

Message #1 Posted by [Chris Catotti](#) on 16 Jan 2001, 11:20 a.m.

The HEWlett-PAckard 41 eXpansion (HEPAX) Module was developed and marketed by VM Electronics ApS. The HEPAX Module provided a powerful ROM with and provisions for up to 32K of RAM. All of the functionality of the Extended Functions Module was provided, and it allowed m-code functions to be written. The manuals for the HEPAX were printed in Denmark and are dated February 1988.

I have tried to locate VM Electronics ApS, its successor, heir, etc. with no success. I would like to reproduce the HEPAX manuals Volume 1 and Volume 2, and would like to respect the copyright law. Any leads or suggestions?

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HP 28S battery cover

Message #1 Posted by [Ron](#) on 15 Jan 2001, 11:24 p.m.

I am looking to replace the battery door for my 28S. There was a thread a while back on another HP calculator whose cover would also work for the 28S. Can someone help me out and let me know which model and where I can order the piece from? Thanks

Re: HP 28S battery cover

Message #2 Posted by [Iqbal](#) on 16 Jan 2001, 5:23 a.m.,
in response to message #1 by Ron

Try Jim Carter at :

PHONE ORDERS MAIL ORDERS Phone (949) 582-2631 Interfab Corporation - HP
liquidation Fax 582-1445 27959 Cabot Road, #J Laguna Niguel, CA 92677 Email -
Jimeducalc@tio.com

Last time I checked, it was \$2.00

Re: HP 28S battery cover

Message #3 Posted by [Charles Perry](#) on 17 Jan 2001, 11:00 a.m.,
in response to message #1 by Ron

The 19BII uses the same door and is still in production.

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Hewlett Packard 9825A 9872A

Message #1 Posted by [Norman Sherfield](#) on 15 Jan 2001, 1:57 p.m.

I have a framed image (using red, blue and black ink) looks like it was generated mathematically with a computer. Its says BIRTHDAY DEMO on the top left corner and HEWLETT-PACKARD SYSTEM 9825A/9872A on the top right corner. Framed size is 11 inches by 14 inches<P> I do not know if this is a demo for someone's birthday or a demo for the birthday of the System 9825A/9872A. There is no date to be found anywhere on the framed image or back of the frame.

Anyone have any ideas?

I can send a jpg of the image if interested?

Norman

Re: Hewlett Packard 9825A 9872A

*Message #2 Posted by [Don Williams](#) on 16 Jan 2001, 8:58 a.m.,
in response to message #1 by Norman Sherfield*

The "Birthday Demo" was a program supplied on tape with the 9825 computer/9872 plotter system. The program prompted for your birthdate and using this input as a seed, plotted a diagram of vectors unique to your birthdate. I remember that it was fascinating to watch the plotter " do its thing " , and produced an image for everyone in my family based on their birthdate.

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Can the HP15C interpolate?

Message #1 Posted by [Daniel Cook](#) on 15 Jan 2001, 2:34 a.m.

I still have my trusty old HP15C, although I can't find the manual any longer. I'd like to use it in the field for doing photography calcs. I have graphs of exposure time vs. adjusted exposure time for pinhole cameras. I'd like to enter a series of X,Y data points from those graphs and ask the 15C do an interpolation (i.e. expected value) of a value of Y for a known value of X. Does anybody know if the 15C can be programmed for this type of operation and, if so, whether my best bet for doing learning the trick is to spring for the manuals on CD? Thanks.

Re: Can the HP15C interpolate?

Message #2 Posted by [Thibaut.be](#) on 15 Jan 2001, 3:31 a.m.,
in response to message #1 by Daniel Cook

Yes, irt can, by doing a linear regression.

First, clear your stat reg (f <GSB> Key in your Y,X values by doing Y1 <ENTER> Y2 <ENTER> Then key f <L.R.> A linear regression calculates a straight line that best fits with your series, equation $Y=aX + b$ you get 2 values : in X register is the b value stored, and in Y register the a value.

So all you have to do is with your new X value multiply it with your Y register value and add the X register value.

Should you wish to get other kind of regression, the following formulas are appliccable :

Power regression ($Dx/x = C$; $Dy/y = C$) : $y = ab^x$ Exp. regression : ($Dx=C$, $Dy/y=c$) : $y : kax^b$

just write down all X & Y values, calculate Dx, Dy, and Dx/x, Dy/y, and check what best fits. Then with 2 samples (preferably the most far of each other) calculate the 2 variables system of equation. Remeber your logs formulas : $\log a/b = \log a - \log b$ $\log ab : \log a + \log b$ $\log a^b = \log a \cdot \log b$

Good luck

Re: Can the HP15C interpolate?

*Message #3 Posted by [bill smith](#) on 16 Jan 2001, 1:09 p.m.,
in response to message #1 by Daniel Cook*

yes, it can. in fact there is a built-in function on the bottom row of keys, $y^{\wedge} r$ (the linear estimation key). which operates on the data stored in the statistics registers.

providing your curves can be linearized with respect to the coefficients, probably you would like to calculate these coefficients once, and then create a program to use them. that way the statistics registers can be used for other purposes.

alternatively, the 15C manual describes an interpolation technique using tabulated values which involves entering the bracketing table values and calculating the intermediate one of interest. this served me well in my thermodynamics courses, but may not be too handy for your field work.

finally, i have a pretty nice one page summary of straight-line functions of certain equations. i'd be glad to mail you a copy if your interested.

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Classic Display Problem - Suggestions?

Message #1 Posted by [Mike](#) on 14 Jan 2001, 9:56 p.m.

I have a classic calculator that has some extra segments lit. The segments are not hard on. They come and go, to some extent, based on which keys are pressed.

The calculator, otherwise, works fine.

My problem is 'where to begin'. If you have worked on these before, is this a problem that is more likely in the display, the driver chips or the processor. I have extra drivers and LED modules but both are a pain to replace.

Which is more likely the cause?

Re: Classic Display Problem - Suggestions?

Message #2 Posted by [Viktor Toth](#) on 15 Jan 2001, 12:01 a.m.,
in response to message #1 by Mike

I'd start with cleaning the circuit boards in case there's any residue or oxidization (under the chips, too!) This problem is more prevalent with VFD displays due to their higher operating voltage, but I've seen that even a small amount of residue between traces is enough to cause visible crosstalk between digits. Since the keyboard and the display share some scan lines, it is also normal for the crosstalk to change its appearance in response to keystrokes.

Viktor

Re: Additional Information

*Message #3 Posted by [Mike](#) on 15 Jan 2001, 1:12 a.m.,
in response to message #2 by Viktor Toth*

The affected digits are the 1st and the 11th. I removed the main processor board and powered up the calc. The same 1st and 11th digits had segments lit. The 1st and 11th are in the same digit position within each module. Wonder if that is a coincidence?

So, it appears that these digits are being driven independent of the processor. Looks like it might be one or both of the LED driver chips (I assume that is what they are just below the LEDs) or the LEDs themselves. Possibly the traces but they look good.

Anyone know where a display circuit schematic is for an HP-65?

Re: Additional Information

*Message #4 Posted by [Viktor Toth](#) on 15 Jan 2001, 12:25 p.m.,
in response to message #3 by Mike*

Mike,

I don't think the fact that it's the 1st and 11th digit has any special significance. A question: when you say 'lit', exactly what are we talking about? Lit to full brightness? Which segments are lit, and how do they respond to keystrokes?

Viktor

These segments, these digits

*Message #5 Posted by [Mike](#) on 15 Jan 2001, 1:46 p.m.,
in response to message #4 by Viktor Toth*

On digit 1, segments a, f and g are lit. These are lit slightly dimmer than what would normally be on.

On digit 11, segment e and g are lit. normal brightness.

If I press keys, some segments go off some do not.

If I press '.', '1', '4', or '7' as the first digit, all these segments go off. But pressing other keys turns one or more back on.

The board is very clean; no apparent oxidation or shorts.

I think I'm going to remove the driver chips tonight and 1) look under the chips and 2) look for shorts between leads.

But I don't think I will find anything.

I do also find that if I disconnect the CPU board, that these two digits still have segments on but at a much brighter level.

I think some basic troubleshooting will lead to the solution. I just wish it were easier to remove the parts.

Re: These segments, these digits

*Message #6 Posted by [Viktor Toth](#) on 19 Jan 2001, 1:57 a.m.,
in response to message #5 by Mike*

Mike,

The fact that your segments are on even when the CPU board is removed suggests a short somewhere. At this point, I'd begin by poking around with my 'scope and a continuity tester. At least you should be able to determine what is shorted to what, and whether or not the short is likely within a driver chip. Those are rather difficult to desolder, so I'd not attempt it until I am reasonably sure that they're the cause.

Viktor

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41C Service ROM?

Message #1 Posted by [Ion Abraham \(New Mexico USA\)](#) on 13 Jan 2001, 10:21 a.m.

Hello,

The HP 41C service manual refers to a service/diagnostics ROM, that is a plug-in ROM that can be used for diagnostic tests.

Do any of you have one of these things, or know anything about it?

Best regards,

Ion Abraham Albuquerque, New Mexico

Re: 41C Service ROM?

Message #2 Posted by [Philip Reagan](#) on 16 Jan 2001, 2:19 p.m.,
in response to message #1 by Ion Abraham (New Mexico USA)

Yes, I have one. I acquired from someone about a year ago. The ROM works as indicated in the Service Manual. It came with another ROM that wasn't labeled. It could be the "Flag Wired" ROM that is referred to in the Service Manual but I'm not sure. I remember seeing that one of the HP41 Emulators had a copy of the Service ROM in soft copy. It worked the same as my real one. I can't remember which emulator it was; it may be Tcalc, I just don't remember.

That's what I know.

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HP 34C calculator

Message #1 Posted by [Henry Minden](#) on 12 Jan 2001, 7:27 p.m.

I have an old calculator that appears to be in good condition. The calculator would be very useful in an elementary school teaching volunteer activity of mine. It looks like it needs a new battery. Can you tell me where I might buy one? Henry

Re: HP 34C calculator

Message #2 Posted by [Steve \(Australia\)](#) on 13 Jan 2001, 8:38 p.m.,
in response to message #1 by Henry Minden

The best bet may be to have the original battery pack rebuilt.

I'm not sure, but I believe these calculators can be destroyed if you use the recharger without batteries (or with bad battery pack connections).

Don't try it until you are sure it's not going to fry the moment you run it on.

Re: HP 34C calculator

Message #3 Posted by [Hank Minden](#) on 13 Jan 2001, 9:44 p.m.,
in response to message #2 by Steve (Australia)

Thanks for the advice from down under. I don't know a place that rebuilds HP battery packs. The charger itself measures 10 V AC at the terminals. Connect the charger with the switch off and the battery terminals measure 14 V DC. Turn the switch on, and the voltage drops to 7 V DC.

In addition to the bad battery, I think the on-off switch is shot.

I might as well give up. It seems a shame. I've already thrown away two PC's and am about to jettison two more. My HP 15C still works fine and I treasure it. But I don't want to subject it to the rough and tumble of 13 year old students.

Perhaps I can buy a second hand reverse Polish calculator with storage registers and functions that still is in good condition.

Thanks again for responding to my woes.

Hank

Re: HP 34C calculator

*Message #4 Posted by [Viktor Toth](#) on 14 Jan 2001, 12:11 a.m.,
in response to message #3 by Hank Minden*

And keep in mind that that 14VDC hits your calculator's C-MOS continuous memory regardless whether the power switch is in the ON position or not.

Viktor

Don't throw it away!

*Message #5 Posted by [Glynn](#) on 14 Jan 2001, 4:05 a.m.,
in response to message #3 by Hank Minden*

Or, umm, *I* have a trash bin and if you'll send it to me, I'll get rid of it FOR you... yeh, that's the ticket...

Seriously, if the calc is dead, parts of it may help others here-- offer it as is. If it works, but has flaws, such as a bad power switch, a few of us may want to try to repair it for ourselves. Sell it. If you only need batteries, heck, that's not an insurmountable obstacle... and you may want to even do it yourself.

A 34c is a good calc for students especially-- though it has no I/O or cards, it IS programmable and RPN (two addictions that ought to be fostered).

Just don't feel like an HP calc is too old or a hopeless throwaway-- if there's any thing we know from experience, it is that the newest models ain't perfect, either....

Recycle! :-)

Re: HP 34C calculator

Message #6 Posted by [Randy Smith](#) on 14 Jan 2001, 11:48 a.m.,
in response to message #1 by Henry Minden

You never said if you tried it with plain old AA batteries. All you need to do is put a small piece of aluminum foil at the end opposite the contacts, pay attention to the polarity and give it a go. Let us know if it works. Randy

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Bill Hewlett Reported dead 1/12/2001

Message #1 Posted by [Gene](#) on 12 Jan 2001, 2:46 p.m.

<http://www.cnn.com/2001/TECH/computing/01/12/hewlett.obit.ap/index.html>

Re: Bill Hewlett Reported dead 1/12/2001

Message #2 Posted by [Juan-J](#) on 13 Jan 2001, 10:50 p.m.,
in response to message #1 by Gene

A great loss.

Lately I've had this feeling that HP is not interested anymore in calculators and instruments. Yes, there's Agilent Technologies to deal with instruments, but what about calculators? Is e-business and related technologies becoming an idée fixe for HP?

Re: Bill Hewlett Reported dead 1/12/2001

Message #3 Posted by [Marx Pio\(Amazonas\)](#) on 14 Jan 2001, 7:50 a.m.,
in response to message #1 by Gene

From dust to dust. Calculators users will be on themselves. No one in HP is interested in Calculators anymore. TI, here we go! This is pathetic.

Re: Bill Hewlett Reported dead 1/12/2001

*Message #4 Posted by [Todd Garabedian](#) on 14 Jan 2001, 8:44 a.m.,
in response to message #3 by Marx Pio(Amazonas)*

I would agree with the above two comments. The quality of HP calculators is not what it used to be. There are many reasons for this, including the culture and direction at HP, but I think a main reason is purely economic. Due to the low cost of chips, it's hard to make any money on calculators anymore. I wouldn't be surprised if HP got out of calculators entirely.

Todd

Re: Bill Hewlett Reported dead 1/12/2001

*Message #5 Posted by [Juan-J](#) on 14 Jan 2001, 12:51 p.m.,
in response to message #4 by Todd Garabedian*

So my suspicions are true. What a pity.

We all have developed a sort of loyalty towards HP and its little machines, but it seems likely to become a thing of the past. And we might end up with a lot of nostalgia about it.

Thankfully, we have Dave and his museum. As someone wrote, a place for us HP enthusiasts to keep in touch with each other. So let's keep on sharing our knowledge and experiences with our little machines.

Re: Bill Hewlett Reported dead 1/12/2001

*Message #6 Posted by [Greg Dunn](#) on 14 Jan 2001, 1:16 p.m.,
in response to message #5 by Juan-J*

- > Thankfully, we have Dave and his museum. As someone wrote, a
- > place for us HP enthusiasts to keep in touch with each other. So
- > let's keep on sharing our knowledge and experiences with our
- > little machines.

I agree! I just got the CDROM set and all I can say is WOW. Dave, you have done an outstanding job on pulling all this vital info together for us enthusiasts. I feel that I can concentrate on getting the most out of my calculators, without worrying about early obsolescence.

Re: Bill Hewlett Reported dead 1/12/2001

*Message #7 Posted by [Tom](#) on 16 Jan 2001, 8:48 a.m.,
in response to message #1 by Gene*

Amen

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HP 28S repair

Message #1 Posted by [Fabrice](#) on 12 Jan 2001, 1:06 p.m.

I have a 28S since few years now, and it worked very nice till few weeks, and today the first row is out of order.

So does anybody know the good way to repair this keyboard, I feel it's a flex circuit problem. How I can dismantle it ?

Many thanks.

Fabrice

(fabrice.creze@gadz.org)

Re: HP 28S repair

Message #2 Posted by [Angus \(UK\)](#) on 14 Jan 2001, 10:12 a.m.,
in response to message #1 by Fabrice

A bit about this was mentioned here - you can search the Forum Archives. One message referring to opening a 28 is:

<http://www.hpmuseum.org/cgi-sys/cgiwrap/hpmuseum/archv003.cgi?read=4841>

I think that the article mentioned in that thread is currently at: <http://www.hp48.org/docs/misc/hp28io.txt>

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HP-41 ROM / Nsim emulator

Message #1 Posted by [Greg Dunn](#) on 11 Jan 2001, 11:58 p.m.

I downloaded the Nsim emulator (the only one, it seems, that will run on Unix/Linux) and compiled it. However, I don't have a ROM in the format that it wants. All the HP-41 ROM images I have are in raw binary or p41 format, and the simulator wants a text file with ROM addresses and ASCII hex values, one per line. I can't find any conversion software to do this (there's a format converter for Windows, but it doesn't seem to support the format I need among its half-dozen).

I can whip up a converter to do this without too much pain (though it'll either run on Mac or Linux -- I don't have a Windows box at home)... but if someone already uses Nsim and has the ROM file in the proper format, I'd be indebted to you for a copy.

Re: HP-41 ROM / Nsim emulator

Message #2 Posted by [Dave Hicks](#) on 12 Jan 2001, 1:15 a.m.,
in response to message #1 by Greg Dunn

The reason Eric doesn't include the ROMs with the simulator is because they are copyrighted and, though he has asked, HP has not given him permission to copy them.

Re: HP-41 ROM / Nsim emulator

Message #3 Posted by [Greg Dunn](#) on 12 Jan 2001, 5:36 p.m.,
in response to message #2 by Dave Hicks

That's cool, I understand. I have ROM images, but only needed a better understanding of how to translate them to the proper format and assign correct memory addresses to the ROM partitions. When my CDs arrive with the 41 doco, I should get even smarter about how to do this. :-)

I got a couple of pieces of EMail explaining this a bit better, so I'm working now on hacking something together which should allow legit owners of the ROMs to convert them to the Nsim format. If I get a chance to complete something usable (as opposed to a hack that only I can use :) I'll mention it here. Thanks, all.

Re: HP-41 ROM / Nsim emulator

*Message #4 Posted by [bill duncan \(Canada\)](#) on 12 Jan 2001, 7:30 p.m.,
in response to message #3 by Greg Dunn*

I use Linux and nsim all the time myself. It's great.

I only have images for the 41C, PPC rom and extended functions modules, so if you do generalize it, I'd be interested. (I'd like to get some of the other modules in there.)

Thanks.

Re: HP-41 ROM / Nsim emulator

*Message #5 Posted by [CJ](#) on 29 Jan 2001, 8:40 a.m.,
in response to message #4 by bill duncan (Canada)*

Hi Bill,

Could I possibly get the PPC rom and X-funcs/mem rom for NSIM from you?

Thanks

CJ

Re: HP-41 ROM / Nsim emulator

*Message #6 Posted by [Dave Hicks](#) on 12 Jan 2001, 7:57 p.m.,
in response to message #3 by Greg Dunn*

That would be great!

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hp-01 glass

Message #1 Posted by [richard allen](#) on 11 Jan 2001, 5:36 p.m.

Are there any repair shops that can replace the red glass crystal on an hp-01?

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Chargers for the 82162 thermal printer and the HPIL- rs232c

Message #1 Posted by [Opotente](#) on 11 Jan 2001, 2:17 p.m.

Anybody knows the technical characteristics for the chargers of the thermal printer and the HPIL - rs232 interface ? I need to manufacture two but wasn't able to find the specs.

Best regards

Re: Chargers for the 82162 thermal printer and the HPIL- rs232c

*Message #2 Posted by [Steve \(Australia\)](#) on 11 Jan 2001, 7:21 p.m.,
in response to message #1 by Opotente*

Why not just buy some?

Anyway -- They're rated at 8 VAC 7 W, however they also not an output of only 3 W, which is about 375 mA RMS.

They're VERY poor in terms of load regulation, so I'd suggest that the specs are not to be taken too literally.

Unloaded, one I just tested measures 12.5 VAC.

You don't have to use an AC source either...

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Message for Jim Carter about EduCalc remainders

Message #1 Posted by [Randy Smith](#) on 11 Jan 2001, 4:39 a.m.

Mr. Carter, can you post a list of the items you still have remaining in your inventory from the EduCalc buy-out? I'm sure you still have some item we may be interested in. I am a two time buyer myself. Thanks, Randy

Re: Message for Jim Carter about EduCalc remainders

Message #2 Posted by [db](#) on 11 Jan 2001, 12:06 p.m.,
in response to message #1 by Randy Smith

Jim seemed to lose interest (or maybe just ran out of stuff) about the same time that things he was selling started turning up on eBay at triple or more the price that he was asking. I don't have any inside info about the cause, effect or synchronicity of this. I do know we all owe him thanks for all the information and assistance that EduCalc gave out over the years though. And where is Richard Nelson now days anyway?

Re: Message for Jim Carter about EduCalc remainders

Message #3 Posted by [Steve \(Australia\)](#) on 11 Jan 2001, 7:29 p.m.,
in response to message #2 by db

I have bought quite a bit of stuff from Jim (mostly by putting together larger orders with one or more collectors).

I have compared his prices with eBay, done the sums, and figured I could make a tidy profit.

But I haven't done it. I've bought one of most things (except certain consumables) and I still have it all.

I regret that I didn't buy some things he has run out of, and regret still more that I didn't find him a lot earlier.

He's done a great service in my books. He could have easily made far higher profits by

selling stuff on ebay himself.

I guess his philosophy is such that he prefers to sell at what he has established as a fair price, not simply what the market will bear.

Thanks Jim.

Re: Message for Jim Carter about EduCalc remainders

*Message #4 Posted by [Jim L](#) on 11 Jan 2001, 8:11 p.m.,
in response to message #2 by db*

Definitely "or more". Modules, especially HP-IL modules were routinely ebaying at 10x of Jim's price.

Re: Message for Jim Carter about EduCalc remainders

*Message #5 Posted by [Ion Abraham \(New Mexico USA\)](#) on 11 Jan 2001, 8:10 p.m.,
in response to message #1 by Randy Smith*

Hello,

I received an email on Dec 16 of last year with Jim's current list, which looked fairly similar to his list of about eight months before that. I assume he still has some of the things on the list. I'm about to try and find out.

His prices are quite reasonable, and yes, I guess the people on eBay don't know about him, otherwise they wouldn't be buying magnetic cards and other stuff at those prices.

Regards,

Ion Abraham Albuquerque, New Mexico

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Battery door for clamshell series

Message #1 Posted by [Thibaut.be](#) on 10 Jan 2001, 8:43 a.m.

Hello,

If I can remember correctly, someone asked a few weeks ago where to find battery doors for clamshell series (28C/S, 18C, 19B, 19BII)

Seems that HP still provide these as well as rubber feet.

check http://www.hp.com/calculators/contact_hp/contact_info.html

Re: Battery door for clamshell series

Message #2 Posted by [Frank Knight](#) on 10 Jan 2001, 6:07 p.m.,
in response to message #1 by [Thibaut.be](#)

I sure did and it turned out Jim Carter still had some. Good to know hp will sell as well.
Anybody else see the new battery door location design for the 19BII yet?

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HP 82240B IR Format

Message #1 Posted by [Golden Chiu](#) on 9 Jan 2001, 10:37 p.m.

I am looking for the IR format of HP 82240B Infrared Printer. Anyone know where I can get or buy it. Thanks.

Re: HP 82240B IR Format

Message #2 Posted by [Thibaut.be](#) on 10 Jan 2001, 12:45 a.m.,
in response to message #1 by Golden Chiu

I think that this issue was pretty ell exposed on the articles section of this site

Re: HP 82240B IR Format

Message #3 Posted by [John Kono](#) on 10 Jan 2001, 7:46 a.m.,
in response to message #1 by Golden Chiu

From the question you left in the articles forum, I'm assuming that you wish to purchase the printer. If that's the case, then brand new units can be purchased directly from HP for \$135, but used ones can be purchased on eBay for just about half that (on average). If you would like to buy from HP, got to <http://shopping.hp.com/> and look for calculator accessories. The last time I checked, they offered free shipping on orders over US\$100, but I don't remember if they accept orders from outside the US. If you can't find the page, e-mail me directly and I'll send you the exact URL.

Re: HP 82240B IR Format

Message #4 Posted by [db](#) on 11 Jan 2001, 10:49 p.m.,
in response to message #3 by John Kono

and hurry, i heard that they are to be discontinued soon; so the ebay price will double.

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HP41 IR Module

Message #1 Posted by [Kurt Jensen](#) on 9 Jan 2001, 8:26 p.m.

Can anybody tell me what the Ir module consists off. Also does anybody have a schematic drawing.
thanks in advance

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HP67 keyboard cleaning

Message #1 Posted by [John Robinson \(Australia\)](#) on 8 Jan 2001, 6:43 p.m.

I have a HP67 I am repairing/restoring that has some clear spots on the keyboard (not on the keys). The spots are definately on top of the keyboard lettering, so I guess they could be glue or lacquer etc. My question is, how harsh a cleaner can I use to clean the keyboard (dismantled) without risking damage to the keyboard lettering ?. I have tried soap and water, I was thinking of trying isopropanol (~70%) next. Thanks - John

Re: HP67 keyboard cleaning

Message #2 Posted by [db](#) on 8 Jan 2001, 9:13 p.m.,
in response to message #1 by John Robinson (Australia)

i did this once by leaving carbon tet (which i was using to clean the gold dome thingers from behind) on the face of a 41 for more than a few seconds. it does clean very dirty contacts. it bleaches plastic too.

Re: HP67 keyboard cleaning

Message #3 Posted by [Todd Garabedian](#) on 9 Jan 2001, 8:56 a.m.,
in response to message #1 by John Robinson (Australia)

John,

From what you've stated, I believe you're going to have a tough time cleaning that gunk off. The dilemma is that if you use a strong cleaner, you risk removing the lettering underneath! The lettering on the Classic and Woodstock models is known to be delicate, so that condition compounds the problem.

I suggest that you start with the least harsh cleaners and work your way up. I use the same principle when I detail my car. Perhaps you could start with a 20% solution of your 70% ethanol. If that doesn't work, increase the concentration of ethanol a bit. Alternatively, you may want to try a cleaning solution with a bit of organics in it, such as Fantastik or 409 Glass cleaner.

Good luck,

Todd Garabedian Glastonbury, CT USA

Re: HP67 keyboard cleaning

*Message #4 Posted by [John Robinson \(Australia\)](#) on 9 Jan 2001, 6:20 p.m.,
in response to message #3 by Todd Garabedian*

Thanks for the suggestions guys, I have had a pretty good result. I started with diluted isopropanol solution, which didn't do anything, then used the 70% solution neat with a soft toothbrush (your wifes is generally softer than yours :-). After cleaning though, the plastic looks kinda white, I have noticed this before when using isopropanol on a HP41 display plastic, the solution is simple, a good quality finishing (not cutting) car polish.

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Re: HP 28S Battery cover Probs and Dissassembly

Message #1 Posted by [Frank Knight](#) on 8 Jan 2001, 3:56 p.m.

Check out the recent redesign on the 19BII (buy a new one dated at least 10/00 forward)to address this problem, pretty good redesign by them. No more pressure on the door since it's moved to the back of the case but the compartment is the same. Now why didn't they think of that while the 28s was still in production! I'm sure they had returns.

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My HP Calculator Colletion on the Web

Message #1 Posted by [Victor](#) on 8 Jan 2001, 2:58 p.m.

I have put my HP calcuator collection on the web. If you are interested, go to the page www.photopoint.com, enter vrollinger@usa.net under Friend's Email, press the Visit button, and select HP Calculators.

Enjoy!

Re: My HP Calculator Colletion on the Web

Message #2 Posted by [Andreas Stockburger \(Germany\)](#) on 9 Jan 2001, 9:20 a.m.,
in response to message #1 by Victor

Hi Viktor,

this must be a lot of work to create one picture from one calculator. If you are interested you can see my calculators under "www.1st.to/andi" and then select HP Calculators 1, 2 and 3. The pictures are a littlebit dizzy - i will create new ones with an update of my collection.

Andreas

Re: My HP Calculator Colletion on the Web

Message #3 Posted by [Thibaut.be](#) on 9 Jan 2001, 2:10 p.m.,
in response to message #2 by Andreas Stockburger (Germany)

What an impressive collection !

It deserves better pictures and maybe some comments !

Looking forward to having a look to these.

Best regards,

Thibaut

I would like to see other people's collection as well

*Message #4 Posted by [Victor](#) on 9 Jan 2001, 4:02 p.m.,
in response to message #1 by Victor*

www.photopoint.com is absolutely free. I would like to encourage some of you to put pictures of your collection on the web if you have the time and energy.

Well of course mine is on the web

*Message #5 Posted by [Gene Wright](#) on 10 Jan 2001, 10:26 a.m.,
in response to message #4 by Victor*

<http://members.aol.com/hpgene>

Unfortunately, I haven't put pics of my HP70 on there yet.

gene

Re: I would like to see other people's collection as well

*Message #6 Posted by [Y K Wong \(Singapore\)](#) on 11 Jan 2001, 2:26 a.m.,
in response to message #4 by Victor*

Hi,

I have just started my web page (or photo album) of my collection about a month ago!
Currently I am still working on my calculator collection, you might like to take a look of "my calculator family photo" and "serial number of the calculators" of what I have collected!

The web page is <http://www.geocities.com/jagpage>

Cheers,

Y K Wong.

Re: I would like to see other people's collection as well

*Message #7 Posted by [Frank \(Germany\)](#) on 13 Jan 2001, 7:22 p.m.,
in response to message #4 by Victor*

Another collection - nothing fancy, just the standard ones.

<http://www.fbalzer.de/tr/calculators.html>

Frank.

Re: My HP Calculator Colletion on the Web

*Message #8 Posted by [Hank Minden](#) on 13 Jan 2001, 9:52 p.m.,
in response to message #1 by Victor*

Would any of these old calculators be for sale? I still use an HP 15C, but it is too valuable for my current rough and tumble teaching duties.

Re: My HP Calculator Colletion on the Web

*Message #9 Posted by [Victor](#) on 14 Jan 2001, 2:35 a.m.,
in response to message #8 by Hank Minden*

Sorry, no.

Re: My Calculator Collecting starts with One...

*Message #10 Posted by [Glynn](#) on 14 Jan 2001, 4:38 a.m.,
in response to message #8 by Hank Minden*

While the collections posted for viewing in this thread are carefully restored (and very nice) groups shown by serious collectors, Hank, go to the Classified section of this museum and all your dreams will be realized (well, maybe or maybe not, but have a look).

Perusing this Museum does take some time, but it yields incredible info. Check out the Articles section and see what Katie Wasserman has to say about finding NiCd batteries for the various models, for instance. Or the Memories of users and the experiences they've had with their favorite machines. Learn more about calculating machines than you ever thought you could know, by way of Dave's incredibly complete historical surveys and tutorials... and then introduce yourself to collecting via the Prices and Variations feature here...

Your HP-15c (and even your ersatz 34c) qualify you to start a collection of your own. Read Dave's summary of how and where to start doing it. Come on in, the water's fine!

(P.S., you'll find a lot of HP out there IF you are looking. What you find in the Classifieds here are often the cream of the crop, as collectors tend to be picky. But your hometown may have estate sales, fellow collectors, sale papers, and so on-- keep a sharp eye out. Since rare calcs and their accessories are the "coin of the realm" amongst collectors, finding a good thing to trade with them for what you really want may become part of your strategy. In this way, you are helping ALL of us-- by sniffing out the undiscovered stuff we haven't laid eyes upon yet.

Happy hunting.

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HP12C question

Message #1 Posted by [kip curran](#) on 8 Jan 2001, 11:07 a.m.

Re: HP12C How do you remove a "C" in the lower right side of display. What does this mean ??

Re: HP12C question

Message #2 Posted by [r. d. bärtschiger.](#) on 8 Jan 2001, 1:15 p.m.,
in response to message #1 by kip curran

Hi;

Check page 59 of your hp-12c guide. The 'c' stands for compound interest. Clear it by pressing 'sto eex'. Hope this helps.

rdb.

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List program modules

Message #1 Posted by [Freda](#) on 8 Jan 2001, 10:28 a.m.

Hi Anybody knows if it is possible to list a program from a software module for the HP 71 or HP 41 calculator ?

Br

Re: List program modules

Message #2 Posted by [db](#) on 8 Jan 2001, 9:02 p.m.,
in response to message #1 by Freda

i think you are asking for the i.l. and i.r. function PRP. ie PPrintProgram.

Re: List program modules

Message #3 Posted by [Rupert \(European Union\)](#) on 8 Jan 2001, 10:21 p.m.,
in response to message #1 by Freda

> Hi Anybody knows if it is possible to list a program from > a software module for the HP 71 or HP 41 calculator ?

With the HP-41, in order to list a ROM module program just type in GTO <label>. Switching to PRGM mode you'll be able to list the program (but not to edit it).

In order to copy it in the RAM, type in COPY <label>. Let's say you want to copy the root solver packed in the Math I module (just an example): XEQ [alpha] COPY [alpha] [alpha] SOLVE [alpha].

Re: List program modules

Message #4 Posted by [Reinhard Hawel](#) on 9 Jan 2001, 4:10 p.m.,
in response to message #1 by Freda

Copy your HP71 BASIC program into main memory and unprotect it with one of the numerous utilities created for that purpose. An example is one of the special POKE programs, that allow tampering with the file header (The built-in POKE doesn't allow that)

If you need such a utility, then please email. I'll try to supply such a program somehow.

It's not easy printing LEX or BIN files (you have to disassemble them for that purpose. For the Forth/Assembler ROM there's an Internal Design Description.

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Replica Labels - Example Shown

Message #1 Posted by [Mike](#) on 7 Jan 2001, 10:12 p.m.

I have a couple of pictures I took of two replica labels, for a couple of HP Classics, that were sent to me. I could have done a better job, I guess, of taking the pictures:-)

I still think these should not be used on calculators that are for sale, unless they have some sort of disclosure. But they are nice for one's own calculator.

<http://www.halcyon.com/ipscone/label1.jpg>

<http://www.halcyon.com/ipscone/label2.jpg>

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Powerpack for 41CX

Message #1 Posted by [Kurt Jensen](#) on 6 Jan 2001, 11:03 a.m.

My name is Kurt Jensen and I'm living in Denmark. As a navigational officer in the merchant marine, I've been using my 41CX everyday, even when we started with GPS. I lost my printer and some other accessories due to theft, among it the powersupply and the rechargeable batterypack. I cannot obtain a rechargeable batterypack, and the small batteries are very hard to come by so I'm thinking of building an external powersupply. So my questions are: Can anybody help me with a diagram and an internal picture of the rechargeable powerpack for the HP-41CX calculator. Also does anybody know if it is possible to connect an external powersupply via the two missing joints in the framehole for the powersupply. Looking forward to hear from You. Regards Kurt Jensen

Re: Powerpack for 41CX

Message #2 Posted by [Rupert \(European Union\)](#) on 6 Jan 2001, 7:56 p.m.,
in response to message #1 by Kurt Jensen

You might want also to have a look at this site:

<http://stolte-edv.com/english/shop.cgi>

It has replacement parts for the HP-41.

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Who know's which calculator has the hidden HP Logo in the LED decimal points?

Message #1 Posted by [Bruce Cohen](#) on 5 Jan 2001, 7:52 p.m.

I am suprised I have never seen any mention of this in the museum. One of the LED display calculators has the letters HP on every decimal point. I remember reading this in calculator publication, either "HP Key Notes" or "The PPC Journal". I challenge the readers to try and discover which model has this "subliminal" advertising. As I recall, you will need about 20X magnification to see it clearly.

Happy hunting!

Re: Who know's which calculator has the hidden HP Logo in the LED decimal points?

*Message #2 Posted by [mkernal](#) on 16 Jan 2001, 1:12 p.m.,
in response to message #1 by Bruce Cohen*

Bruce Cohen wrote (on Jan 5, 2001):

"I am suprised I have never seen any mention of this in the museum. One of the LED display calculators has the letters HP on every decimal point. I remember reading this in calculator publication, either "HP Key Notes" or "The PPC Journal". I challenge the readers to try and discover which model has this "subliminal" advertising. As I recall, you will need about 20X magnification to see it clearly.

Happy hunting!"

So Bruce, how about a hint?? Can you tell us which to which series it belongs. I'm guessing one of the 1968 to 1971 High End Desktop Series, because I suppose they had larger LED displays and were AC powered, where extra (miniscule) current draw wouldn't be an issue (in comparison to one of the battery-powered handhelds).

I'll take a shot in the dark.. 9810??

Re: Who know's which calculator has the hidden HP Logo in the LED decimal points?

*Message #3 Posted by [Bruce Cohen](#) on 17 Jan 2001, 1:33 p.m.,
in response to message #2 by mkernal*

Due to the overwhelming response to this challenge, I'll drop a few hints!

It has 99 fully merged program steps.

It is both AC and battery powered.

It has a built-in printer.

It has continuous memory.

It is hand held.

It is black.

Good Luck,

Bruce

Well that would be yer basic 19C there.

*Message #4 Posted by [mkernal \(US\)](#) on 17 Jan 2001, 2:58 p.m.,
in response to message #3 by Bruce Cohen*

I only asked for "a" hint ;-) I'm going to have to see this one. I'll take a look on mine tonight.

Imagine that.. A hardware Easter egg.

Thanks, Bruce Matt

Re: Who know's which calculator has the hidden HP Logo in the LED decimal points?

*Message #5 Posted by [Katie](#) on 18 Jan 2001, 12:02 a.m.,
in response to message #3 by Bruce Cohen*

And let's not forget the very much less capable but still quite interesting cousin of this one. It too has the magic decimal points!

THAT'S SO COOL!!!

*Message #6 Posted by [Todd Garabedian](#) on 19 Jan 2001, 11:15 p.m.,
in response to message #5 by Katie*

OK, I just dug out my XXX and took a look at the decimal points with a 10X jeweler's loupe.

I'll be dipped! Sure enough, I could make out "hp" on the decimal points!

Todd

Re: Who know's which calculator has the hidden HP Logo in the LED decimal points?

*Message #7 Posted by [Paul Brogger](#) on 18 Jan 2001, 11:39 a.m.,
in response to message #3 by Bruce Cohen*

(That would be 98 program steps, then.)

And so, the MoHPC should be formally asked to add another close-up or two to its store of images, right?

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Help ! HP-42S Invalid Type Error

Message #1 Posted by [Doug](#) on 5 Jan 2001, 12:27 p.m.

I have a 42-s that is giving an "invalid type" error whenever I attempt to perform ANY of the statistical functions (E+ or E-)- any of them. Other functions and features work fine.

This is bugging me as this is my workhorse and has been working for me without problem since the 80's.

Doug

Re: Help ! HP-42S Invalid Type Error

Message #2 Posted by [Doug](#) on 5 Jan 2001, 1:57 p.m.,

in response to message #1 by Doug

Ok, so how often does the same person that posted the question have the first response? Duh, Well I tried to clear the summation register and couldn't - same error. So I cleared everything (CLALL). Oh well, I can punch in the several programs I had later..

Then I got another error - Size error. So then I relocated the first summation register to R11 (default), and poof it works.... Whew !

In the process of this whole problem, I have discovered that there is a world of HP calc nuts out there (I guess I am now an accomplice too.) I am disappointed to dsicover that HP has discontinued the 42s. I can see why so many folks love it. I used to just think it was an old HP (dime a dozen) and I treated it pretty rough (a testament to its ruggedness. Now that I know I will probably pay more to replace it than I paid for it, I will treat it accordingly.

Re: Help ! HP-42S Invalid Type Error

*Message #3 Posted by [Marx Pio\(Brasil\)](#) on 5 Jan 2001, 8:40 p.m.,
in response to message #2 by Doug*

Hi,

I tried to simulate in my 13-old and tired 42S the error you've mentioned on your help request

1- If your stack is empty and you enter a real number and use the E+/E-, the answer is the counting number of your entry. 2- If your x-reg has a complex number (i.e. -1 SQRT)) and you use E+/E-, the answer is the Invalid Type error message. 3- If your x-reg has a matrix (i.e. [7X7 MATRIX]) and you use E+/E-, the answer is Dimension Error message. 4- If your x-reg has a real number and y-reg has a matrix or a complex number and you use E+/E-, the answer is the Invalid Type error message.

It seems old 42S' E+/E- function uses two real arguments in x and y-registers. Try checking the contents of the y-reg in your program before using E+/E- function.

Hope it can help

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Re: New article and battery search help

Message #1 Posted by [Katie](#) on 5 Jan 2001, 1:13 a.m.

I finally got to the bottom of the 82120 battery pack replacement cell story. The Sanyo 1/2N cells that TNR Technical used to have are no longer available. Furthermore, the person at TNR, Marty, who had rebuilt these packs in the past, is no longer working there.

I confirmed with several manufacturers and distributors that 1/2 N nicads are no longer made by anyone. However, I have found a suitable replacement: 1/3AAA size nicads. They have a smaller diameter but are only 1mm longer and therefore fit just fine. Their capacity is only 50mah versus 75mah for the 1/2 N cells so they'll need to be recharged more often.

Most Sanyo distributors carry them as part number: 1/3AAA-50WT for a single quantity retail cost of \$3.50, but I'm sure that can be had for around \$2.00. One source for these (and where I bought them from) is Dan Tona in New York City - phone: (800) DANTONA.

Re: New article and battery search help

Message #2 Posted by [Ion Abraham \(New Mexico US\)](#) on 6 Jan 2001, 1:51 p.m.,
in response to message #1 by Katie

Katie,

Sorry to hear about the demise of the TNR option for rechargeable battery packs. I guess it was too good to last. Kudos to you for all the digging into the battery question.

The only other thing I wanted to know is, do you rebuild the packs yourself with the new batteries you found, or have you found someone to do it?

Best regards,

Ion Abraham Albuquerque, New Mexico

Re: New article and battery search help

Message #3 Posted by [Kevin Schoedel](#) on 8 Jan 2001, 8:17 p.m.,
in response to message #2 by Ion Abraham (New Mexico US)

Recently I dismembered a "9V" nicad battery (actually 7.2V, but in the common 9V size), and guess what was inside? Six 1/2N cells. Granted, this battery was not brand new, but it had not been used much, and all the cells were good.

I haven't needed more cells, so I haven't looked at any new batteries yet. The battery casing should have one or more vents, so that it may be possible to peer inside without having to buy and open one. Even if no currently available batteries use 1/2N cells, if they do use discrete cells, as nicad packs generally seem to, and they are not long and thin, then four should fit comfortably in the same space as four 1/2N cells.

Re: New article and battery search help

Message #4 Posted by [Katie](#) on 10 Jan 2001, 12:44 a.m.,
in response to message #3 by Kevin Schoedel

Ion,

I've only done one 41C battery pack rebuild with these 1/3AAA batteries so I don't have much in the way of experience with it. I've done a zillion of the other HP battery pack rebuilds and I can tell you that this is by far the most difficult. It's too bad that Marty isn't at TNR, \$20 for rebuilding one of these was a real bargain!

Kevin,

I've never opened up one of those rechargeable 9V batteries, but it must be an awful tight squeeze to get 6 - 1/2 N cells in there. Externally, I can't see how they can do it. Can you tell me which make of 9V battery you opened up, I'd like to see if whatever's in there might be a better to use for 41C battery re-builds.

Thanks,

Katie

Re: New article and battery search help

*Message #5 Posted by [Kevin Schoedel](#) on 10 Jan 2001, 9:51 a.m.,
in response to message #4 by Katie*

The battery I used was labelled as a supermarket house brand, from the Weston chains (Loblaws, Zehrs, etc.) here in Canada. (I don't think they sell nicads any more, but I could be wrong -- if they do still have the same ones, I'll post an offer to forward in the classified section.) I don't recall seeing any manufacturer's marking, and unfortunately I threw away the casing at the time. I do remember that the casing was black plastic, pretty thin, and the two short edges opposite the contacts were curved around the cells, giving the battery a "U" shape. There was a single round vent between the battery contacts, through which it was possible to see the first two cells. The cells were arranged in "six-pack" form, i.e. in rows with sides touching rather than in columns with contacts touching.

It turned out that the connection between the 'rows' was long enough that I could fold/twist them into a straight line. I guess one could also tear tabs off flush with the 'extra' cells to join them that way. I also 'lazily' soldered the charging circuit to the pair of spring tabs in the caculator pack, rather than to the cell tabs.

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HP48 display problem

Message #1 Posted by [John Robinson](#) on 3 Jan 2001, 11:45 p.m.

I've just been given a HP48GX with a problem. Now I know absolutely nothing about these things. The problem is that some pixels don't display properly, either always on or always off. The curious thing is that it appears to be basically in two lines, but diagonal lines across the display. One set is near the bottom, and the other set just above the "4:" near the top. Seems to be a bit of a problem at the very top line of pixels too. If any one has any suggestions about this problem (apart from "throw it in the bin"), then please let me know. Thanks - John

Re: HP48 display problem

Message #2 Posted by [Menno](#) on 4 Jan 2001, 5:18 a.m.,

in response to message #1 by John Robinson

I had a 48SX who died due to static electricity, which switched some pixels permanent "on" and gave random errors. In your case could it be a connection problem: try to "warp" it a little bit (not to much). If the dots switch on and off it's a connection problem in the rubber between the LCD and the printboard. Though an connection problem will cause pixels (and mostly a complete row) not to function in stead of functioning when not wanted.

Dit you perform the selftest?

Menno

Re: HP48 display problem

Message #3 Posted by [Charles Perry](#) on 4 Jan 2001, 1:52 p.m.,
in response to message #2 by Menno

Here is something else to try. This worked for an old monochrome notebook PC that I had and has also worked on at least one HP48GX (not mine). Remove the batteries and let the machine set for a day or so. Press the on key a few times. Then put fresh batteries in, not the ones you took out. This MAY fix the display problem. Seems some of these displays can get a "memory" from a charge buildup or something. You might also try shorting the contacts in the battery compartment (without batteries of course).

I have not heard of a diagonal line problem, but I know this fix has worked on HP48 calcs with verticle or horizontal lines.

Re: HP48 display problem

Message #4 Posted by [John Robinson](#) on 4 Jan 2001, 11:41 p.m.,
in response to message #3 by Charles Perry

Hi Charles,

Thanks for the suggestion, I'll give it a shot. Does anyone know how to disassemble a 48 ?? Thanks - John

Re: HP48 display problem

Message #5 Posted by [Steve \(Australia\)](#) on 7 Jan 2001, 7:05 a.m.,
in response to message #4 by John Robinson

Do I know how to open a 48?

Well, I've seen it described, but I wouldn't wish it on my worst enemy's 48.

I found it by doing searches on the web for something like "hp48 disassemble"

Re: HP48 display problem (How to open a 48?)

*Message #6 Posted by [Paul Brogger](#) on 8 Jan 2001, 11:20 p.m.,
in response to message #4 by John Robinson*

John:

I've taken both of my -48G's apart, added memory, and put 'em back together, and they work fine.

HPCALC.ORG has a number of files that can be downloaded which describe memory upgrades for HP-48G's. Opening the calculator is a crucial 1st step. Search on "disassemble 48g" or "open 48G".

One thing, though: you DON'T need to take off the foil keyboard overlay on the front of the calculator. Some of the early directions suggested this step to release some melted plastic rivets that hold the case halves together -- it turns out it's unnecessary.

It's been so long since I've done it, I don't know which are the best directions, and I don't have time to wade through 'em all right now. (I took a cursory look, but I can't keep at it . . .)

My memory tells me I had to cut away some of the plastic posts from inside the battery compartment, release the front case at four or six points around its edge through tiny slots in the edge of the keyboard, and (I think) gently yank the thing apart to break the internal plastic rivets behind the keyboard. (This last part I'm a bit fuzzy about, because that's what I've done with my Pioneers, too.) In any case, DON'T take the foil off the front -- it'll never go back on as nice as it was!

Good luck!

Re: HP48 display problem (How to open a 48?)

*Message #7 Posted by [Paul Brogger](#) on 8 Jan 2001, 11:36 p.m.,
in response to message #6 by Paul Brogger*

John:

After claiming I had no time, I continued, and found Adrian Drury's article "How2Open" at www.hpcalc.org . (Just search "How2Open" as one word on their site, and it's the only "hit".) It's a well-illustrated download that lets you do a cosmetically clean job of opening an HP-48. Like I say, I've done two this way, and the method described works fine.

I remember struggling a bit with the screwdrivers in the little slots trying to get the edges freed -- it ends up easier than I thought going in -- just take your time and be gentle. (In fact, the best tool for the job that I found was a metal stay from an old brassiere -- a flat piece of metal about 2mm x 6mm -- it went further "in" than did a screwdriver bit, which widens too quickly.)

Again, good luck!

(And don't worry too much -- 48G's are going pretty cheap these days . . .)

Re: HP48 display problem

*Message #8 Posted by [John Robinson](#) on 4 Jan 2001, 11:40 p.m.,
in response to message #2 by Menno*

Hi Menno,

I already tried "warping" it a bit, but to no effect. How do I perform a self test ?. I have no manual, and I know nothign about these things. Thanks - John

Get a manual !

*Message #9 Posted by [Menno](#) on 5 Jan 2001, 7:19 a.m.,
in response to message #1 by John Robinson*

Get a Manual, without it you will never learn how to use the 48 properly. And it will answer a lot of questions !!!

Download the 48sx manual if you are low on cash

Menno

HP 48 Self test

*Message #10 Posted by [Iqbal](#) on 6 Jan 2001, 5:35 a.m.,
in response to message #9 by Menno*

John,

the self test is 1 turn the calc. on. 2 press and hold 'ON' 3 Press and release the 'E' key 4 Release 'ON'

It will repeat continuously until you do a system halt

1 press and hold 'ON' 2 Press and release the 'C' key 3 Release 'ON'

If you get fail of course it needs service.

There is also a keyboard test.

1 turn on the calculator 2 press and hold 'ON' 3 Press and release the 'D' key 4 Release 'ON' 5 Press and release the 'E' key. KBD1 will appear in the upper left corner of the display 6 starting at the upper left corner and moving left to right, press each of the 49 keys on the keyboard. Make sure it's in that order and when you reach the last key i.e. '+' the display should change to KBD1 OK. By the way, there is a high pitch noise when eah key is pressed.

hope this helps. Iqbal

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Hinged HP calculators.

Message #1 Posted by [Robert King](#) on 2 Jan 2001, 9:22 p.m.

It's been too long (about a year or so) since I've paid a visit to this forum...

Anyways, I've was wondering if my HP 28s, which is my favourite 'big' calculator by far, could be repaired if the hinge ever broke? I know that Hewlett Packard don't support their old calculators or offer much in the way of repair services. I do take good care of it but accidents do happen and other people who aren't acquainted with the fact that they are not very easy to find could inadvertantly be carless etc. This question was prompted by the fact that a friend accidentally elbowed it off the edge of a desk yesterday while it was folded up. Fortunately the 28s emerged unscathed, probably aided by the carpet on the floor, and the unit seems to be more sturdy and robust when in its folded position.

-Robert King <http://members.nbc.com/wobit/>

Re: Hinged HP calculators.

Message #2 Posted by [Paul Brogger](#) on 3 Jan 2001, 12:37 p.m.,

in response to message #1 by Robert King

Except for the bulky hinged-case format, the -28S is my favorite. If its functionality could be squeezed into a 42S-style (Pioneer) case, I think THAT would be the ultimate calculator.

I bought a couple through eBay for ~\$40 each a few years back and they are what my kids are using. I suggest you do the same -- get a backup unit or two. The 28S and 48G's seem to have relatively lower prices still, and so offer a lot of value.

Re: Hinged HP calculators.

*Message #3 Posted by [Juan-J](#) on 3 Jan 2001, 2:20 p.m.,
in response to message #2 by Paul Brogger*

Yep. The 28 is very functional. I just got one myself a few months ago and feel comfortable with it.

My machine felled from a desk into a steel floor about a month ago and emerged unscathed. Anyway, I was considering buying a backup too. Might be a good idea.

Re: Hinged HP calculators.

*Message #4 Posted by [Robert King](#) on 6 Jan 2001, 1:40 p.m.,
in response to message #3 by Juan-J*

The Hewlett Packard calculators on the whole seem to be fairly rugged; The 32Sii has had several short and fast trips to the floor from desks in various places too.

I suppose that advice of having a spare working unit as a backup would apply to any HP calculator these days, given that HP don't seem terribly interested in the calculator field any more.

-Robert King

Re: Hinged HP calculators.

*Message #5 Posted by [Juan-J](#) on 6 Jan 2001, 5:09 p.m.,
in response to message #4 by Robert King*

I've been suspecting that lately. Newer models are not only algebraic, but also cheap-looking. As if HP would be trying to get rid of its reputation as an instrument maker.

Getting a backup unit applies to accessories and peripherals as well, I think. And it's better to hurry up.

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HP-42S/41 programming info

Message #1 Posted by [Greg Dunn](#) on 2 Jan 2001, 7:32 p.m.

Hiya folks,

I just added a 42S to my collection (35, 34C, 15C), because I couldn't pass up the great price at a pawn shop. Of course, at the price, there was no manual or case :(I have ordered the HP Museum CD set so that I can get a manual to use the calc to its fullest -- but in the meanwhile, I'd like to learn a bit about it. It's rather different from the programming interface on my 15C in some respects, so I've only been able to find a few of the more obvious features by poking around.

Is there a "quick reference" for this or the 41 that I could peruse to get my feet under me until the CD set arrives and I can refer to the real manuals? A web search came up with nothing directly related, and I'm not totally clear on the programming differences between the 41 and 42 (other than memory and display size, of course).

Also, does anyone have a suggestion for a protective case substitute? I don't want to put any unnecessary wear and tear on the calc while carrying it around.

Re: HP-42S/41 programming info

Message #2 Posted by [Steve](#) on 2 Jan 2001, 9:16 p.m.,

in response to message #1 by Greg Dunn

I have only been fortunate enough to own a 15C, 41CV, 28S. I don't know the true usable value of the easy to carry 42S, but I know one thing I would do if I had one.

KEEP IT AT HOME!!!!!!!

The cheapest you will find them on the forum is \$250, for the few that are for sale. Carrying one one anywhere outside the home is, in my humble opinion, asking for it to be stolen.

Please listen to the pleas of one who could give it safe and comfortable home. If you plan to open it up to theft at the hands of some unscrupulous vagabond in the cold cruel world, send it to

me and I will keep it in my 1/2 hour at 2000 degree fireproof safe.

Re: HP-42S/41 programming info

*Message #3 Posted by [Greg Dunn](#) on 2 Jan 2001, 9:23 p.m.,
in response to message #2 by Steve*

Hehe. OK, plea noted. I didn't mean that I was really going to haul it around with me all day; but I hate to leave it sitting out and open to dust and cat abuse, either. ;-) Maybe a jewelry presentation case would be appropriate?

Re: HP-42S/41 programming info

*Message #4 Posted by [John Kono](#) on 3 Jan 2001, 1:39 a.m.,
in response to message #3 by Greg Dunn*

The slip case is still available through HP as a replacement part for the 17BII. IIRC, they run about \$8 through HP Parts Direct (800-798-5487 or www.partsdirect.hp.com). Ask for part #82243-60001.

As for programming support, well, you could always look through the HP-41 programs on this site and key a few of them in, just to get a taste of it. Anything with Synthetic instructions (probably) won't work and key assignments don't work the same way, but most of the instructions are identical.

Re: HP-42S/41 programming info

*Message #5 Posted by [Marx Pio\(Brasil\)](#) on 3 Jan 2001, 9:21 a.m.,
in response to message #4 by John Kono*

In my humble opinion the 42S is the best non-graphic programmable calculator. Programming the 42S is much more easy than 41. Functions are available menu form and they become active when you choose shift and numeric keys and math keys. To start a new code just press shift GTO .. (2 points) and shift PRGM You can assign functions, programs, variables to the customs menus using shift ASSGN and choosing one of the 5 upper keys corresponding the position of you want to assign. I use my 42S since '87. I designed many structures using it with codes I wrote for continuous beams and slabs. You can do many things with it, just don't worship it. It's just a calc machine!

Re: HP-42S/41 programming info

Message #6 Posted by [Greg Dunn](#) on 3 Jan 2001, 11:21 a.m.,
in response to message #5 by Marx Pio(Brasil)

Yeah, I sat down last night and keyed in a couple of programs. It wasn't too bad, but the menus and reorganization of the program codes were a little confusing at first. Now that I know which keys bring up menus in PRGM mode, and where all the statements are located, it's a bit easier to work with. Some of the function names are subtly different from the 41, so I had to experiment once or twice to figure out what things like "MVAR", "VARM", and "PIXEL" meant. :-)) I can't wait to get the manual on CD.

Re: HP-42S/41 programming info

Message #7 Posted by [Marx Pio\(Brasil\)](#) on 3 Jan 2001, 7:50 p.m.,
in response to message #6 by Greg Dunn

Greg,

The PIXEL function turns on a single pixel in the lcd display. The coordinates are given by x and y registers. Before you use this function you need to clear the display using CLLCD. Try the code, the underline separates the code lines:

```
01 LBL"PIX" _ 02 CLLCD_ 03 LBL 01_ 04 RAN_ 05 100_ 06 X_ 07 IP_ 08  
RAN_ 09 100_ 10 X_ 11 IP_ 1
```

Re: HP-42S/41 programming info

Message #8 Posted by [Marx Pio\(Brasil\)](#) on 3 Jan 2001, 7:51 p.m.,
in response to message #6 by Greg Dunn

Greg,

The PIXEL function turns on a single pixel in the lcd display. The coordinates are given by x and y registers. Before you use this function you need to clear the display using CLLCD. Try the code, the underline separates the code lines:

```
01 LBL"PIX" _ 02 CLLCD_ 03 LBL 01_ 04 RAN_ 05 100_ 06 X_ 07 IP_ 08  
RAN_ 09 100_ 10 X_ 11 IP_ 12 PIXEL_ 13 GTO 01_
```

Run code using XEQ PIX and exit infinite loop pressing ON key

The function MVAR and VARMENU are used together for input forms, try the code:

```
01 LBL "VOL"_ 02 MVAR "A"_ 03 MVAR "B"_ 04 MVAR "C"_ 05
VARMENU "VOL"_ 06 STOP_ 07 EXITALL_ 08 RCL "A"_ 09 RCL "B"_
10 RCL "C"_ 11 X_ 12 X_ 13 "VOL=" _ 14 ARCL ST X_ shift ALPHA
RCL . STX_ 15 " M3"_ shift ALPHA ENTER, creates a t kind char that add
strings_ 16 AVIEW_
```

Run code using XEQ VOL and enter the data in each var menu. Tip-->holding shift key + the menu var key you can check the variable value.

Re: HP-42S/41 programming info

*Message #9 Posted by [Greg Dunn](#) on 3 Jan 2001, 9:13 p.m.,
in response to message #8 by Marx Pio(Brasil)*

Heh. Those are pretty cool programs. But the display isn't 100x100 pixels; does it wrap around, or what?

Re: HP-42S/41 programming info

*Message #10 Posted by [Marx Pio\(Brasil\)](#) on 4 Jan 2001, 11:25 a.m.,
in response to message #9 by Greg Dunn*

Only The Lord is perfect. I just wanted to show you an example. You can improve the code for turning on only the existing dots in lcd (131X16). The dot (1,1) is the higher left corner and the dot (131,16) is the lower right corner. I guess you should try.

Re: HP-42S/41 programming info

*Message #11 Posted by [Greg Dunn](#) on 3 Jan 2001, 11:11 a.m.,
in response to message #4 by John Kono*

Wow. I was into the system, placed my order and out again in 5 minutes. HP rules. :-) It was a mere \$6.00 for the case, including shipping. Thanks!

Re: HP-42S/41 programming info

*Message #12 Posted by [John Kono](#) on 4 Jan 2001, 6:48 p.m.,
in response to message #11 by Greg Dunn*

You're welcome! Glad to be of service.

I agree about HP's parts supply system -- to a point. When it works, it works well. When there is a problem, however, it is a nightmare to try and find somebody to answer your question. I've been trying for several weeks to get an F1011A-ABA AC adapter (aka F1011-60901) for my 82440B thermal printer. Both of the HP consumer shopping groups are pointing at Parts Direct, saying that I can buy it through them, and Parts Direct is pointing back, saying that they don't stock it. Meanwhile, Agilent has the same part (F1011-60901C) for sale, but they refuse to sell it to me, referring me back to my "medical equipment supplier". Grr.

When I finally did find someone who claimed to have some knowlege of the part, they told me it had been replace by the F1307A-ABA. So I bought two. At \$34.99 a pop. And they don't work. The connector is the wrong size and the output is 5.4V instead of 12V.

Anybody need a spare adapter for an Journada 3xx? I can make you a good deal... :^/

Re: HP-42S/41 programming info

*Message #13 Posted by [Kevin FitzGerrell](#) on 3 Jan 2001, 5:27 p.m.,
in response to message #2 by Steve*

Oh come on... Probably the biggest reason the 42S sells for as much as it does on this site and on eBay is because it is an easy to carry calculator that provides all (or most) of the functionality you'd want in a programmable engineering calculator. While you can certainly stick your 42S in a display cabinet (or in your fireproof safe) it seems like a waste of a calculator whose true value is in it's functionality.

\$250 is actually not that big a deal -- I bought a new HP41CX at my university book store for \$325 in 1985. Over the following years I paid list price for several modules, a printer, mag card reader, etc... The only reason \$250 seems high to me now is the 42S sold new for \$120. When my 42S bit it last year, getting a relatively new one on eBay was still more cost effective than other alternatives.

Regards,

Re: HP-42S/41 programming info

*Message #14 Posted by [Steve](#) on 4 Jan 2001, 2:22 a.m.,
in response to message #13 by Kevin FitzGerrell*

To clarify for those who cannot read between lines:

I agree that a calculator is just a tool. But certain tools have greater value due to design and/or capability (case in point: 15C). When you find a good tool, you must also consider its replacability (do they make or replace it anymore) and theft attraction (wow! an unattended 42S! cheaper than buying one!). My daily use 28C is old and showing signs of dying, which prompts me to buy a newer replacable model to keep RPN and infinite stack on screen with service if needed.

My plea was more for reasonable care, feeding, and protection, even if that means firesafe protection when not in use if the tool is so valuable.

Re: HP-42S/41 programming info

*Message #15 Posted by [Mike](#) on 15 Jan 2001, 12:04 a.m.,
in response to message #13 by Kevin FitzGerrell*

I have a stupid question but why did hp drop the 42s and keep the 32 it seems the 42 could be fabricated for about the same cost?

Re: HP-42S/41 programming info

*Message #16 Posted by [hal](#) on 15 Jan 2001, 7:46 a.m.,
in response to message #15 by Mike*

You ask a question that many HP enthusiasts would like the answer to. Only HP could answer, and they have been less than responsive to requests for a re-introduction of the 42S or introduction of a suitable replacement. Obviously, production cost is not an issue. The likely reason it was discontinued was that it did not "fit" into the product line. HP probably considered it a little too advanced for many users. More importantly, HP probably thought that it also took sales away from the 48 series by presenting a calculator that was very powerful, yet compact. HP took it out of their product line to force high-end users to the 48 series, and left the 32SII for the rest.

Re: HP-42S/41 programming info

*Message #17 Posted by [Mike](#) on 15 Jan 2001, 9:50 p.m.,
in response to message #16 by hal*

I was in an office superstore today and there is nothing like the 42s or the 15c. All the top end scientific calculators are simply gigantic. Is there not enough of a market anymore for something like one of these?

Re: HP-42S/41 programming info

*Message #18 Posted by [Paul Brogger](#) on 4 Jan 2001, 10:55 a.m.,
in response to message #2 by Steve*

RPN is the best anti-theft feature around. Be sure to encourage any questionable characters at work to try out your calculator in your presence. If s/he can use it to add two plus two, regard that person as a threat. Otherwise, the "confusing" interface will cause her/im to write the calculator off as worthless! (This only partly in jest . . .)

Re: HP-42S/41 programming info

*Message #19 Posted by [Ron](#) on 7 Jan 2001, 9:16 p.m.,
in response to message #1 by Greg Dunn*

Greg, Did anyone suggest a hard plastic case for your 42s? I've been using one for years and this case has saved my calculator more than once. I'm in construction and use my calculator out in the field every day. The case protects the 42s from falls and also the lid flips backwards and converts into a "table stand" for the calculator. I can't quite remember the name of the manufacturer, I think it was Astech. They make the cases for the 42s which also works for the 20s. I'm sure someone out there knows the name of the manufacturer and where to get the cases.

Re: HP-42S/41 programming info

*Message #20 Posted by [Greg Dunn](#) on 7 Jan 2001, 10:27 p.m.,
in response to message #19 by Ron*

Hehe. Right after I posted the message about getting the case, too. :-)

Yeah, I'd be interested in a hard case for the 42S. I'd also love to know what to use for my 34C, too; it needs to be protected from dust and casual knocking about if I'm going to keep it in a nearby drawer for occasional use...

Re: HP-42S/41 programming info

Message #21 Posted by [Greg Dunn](#) on 7 Jan 2001, 10:25 p.m.,
in response to message #1 by Greg Dunn

On Wednesday, after receiving the info about the HP-42S case part number, I set up an account on the HP parts ordering system and placed an order for the case. This took all of about 5 minutes.

Friday when I arrived home from work, the package was waiting on my front door step. Viva HP!

It's rather a tight fit, though; guess I'll have to let it stretch out as it gets used to being filled by a wonderful 42S. :-)

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Dave's HP-71B picture being used to high profit on ebay!

Message #1 Posted by [Gene Wright](#) on 2 Jan 2001, 3:08 p.m.

<http://cgi.ebay.com/aw-cgi/eBayISAPI.dll?ViewItem&item=1204649537>

Item # 1204649537

No credit given. Oh well.

Happy New Year! Gene

Re: Dave's HP-71B picture being used to high profit on ebay!

Message #2 Posted by [Guy Macon](#) on 4 Jan 2001, 11:20 p.m.,
in response to message #1 by Gene Wright

I would be glad to give credit, and apologize for it not occurring to me. Should I credit "Dave" or the museum? (and waht is Dave's full name?)

If this isn't enough, let me know and I will delete the picture and usevone from another source.

Re: Dave's HP-71B picture being used to high profit on ebay!

Message #3 Posted by [Dave Hicks](#) on 7 Jan 2001, 5:20 p.m.,
in response to message #2 by Guy Macon

Guy,

Please credit any further pictures used to "The Museum of HP Calculators". In the future, please ask first.

Re: Dave's HP-71B picture being used to high profit on ebay!

Message #4 Posted by [Dave Hicks](#) on 7 Jan 2001, 5:13 p.m.,
in response to message #1 by Gene Wright

Thanks Gene. (And Victor who emailed.) I just got back - rather late for this but I appreciate your letting me know.

Dave

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12C Problem

Message #1 Posted by [John B.](#) on 2 Jan 2001, 8:55 a.m.

I purchased my 12C over 16 years ago. I turned it on a week ago and there was no display. I was not warned of a low battery charge before this event. I decided to replace the batteries and the calculator did not turn on immediately after; rather, it began to work a few hours later. Even though it worked, an asterik was flashing in the lower, left corner of the display. Today, nothing happens except when I lay it flat; and the only thing that appears (very faintly) in the display is 219,00 with the flashing asterik.

Any immediate help or comments are greatly appreciated. I would hate to replace this 12c if all that is required is a quick fix. Thank you!

Re: 12C Problem

Message #2 Posted by [Thibaut.be](#) on 3 Jan 2001, 2:48 a.m.,
in response to message #1 by John B.

Hello,

Seems to be a power problem.

a) clean up the contacts, with a rubber for example. b) clean up the contats of your batteries. They should be immaculated. c) should the problem persist, test your batteries, there is a chance that they ar not as good as you think they are (LR44)

Good luck !

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Display on early HP 41C

Message #1 Posted by [Ion Abraham \(New Mexico USA\)](#) on 1 Jan 2001, 10:04 p.m.

Hello,

I am trying to see if I can repair an early HP 41C, serial number 1952A01621. When I insert the battery pack, all of the LCD elements turn on. I have tried the various reset methods, shorting out the battery terminals, reading a card, etc. to no avail.

I would welcome any additional suggestions.

Happy New Year,

Ion Abraham Albuquerque, New Mexico

Re: Display on early HP 41C

Message #2 Posted by [Steve \(Australia\)](#) on 2 Jan 2001, 5:00 a.m.,
in response to message #1 by Ion Abraham (New Mexico USA)

The first thing is to find if the problem is with the display or the calculator.

1) turn calculator on 2) press USER -- does USER come on 3) press USER again -- does it go off 4) press SHIFT -- does SHIFT come on? 5) press 4 -- does calculator beep?

if it beeps, then the calculator is probably OK, and it's definitely the display.

Steps 2, 3, and 4 may not change the display if the display is broken.

It's probably NOT the display :-(

Does the back of the calculator seem loose at all?

It could quite possibly have broken posts internally that prevent the 2 boards inside from making correct contact. Squeezing the calculator together *may* temporarily fix this. Does the display change?

Do cards actually go through the card reader?

It's most likely you'll have to open the calculator up (4 screws under the rubber feet) to further diagnose and/or fix it.

Is there any corrosion in the battery compartment? corrosion can get into the innards of the calculator and stuff things up.

Sorry this is a little rambling. Hope it's of some assistance

Re: Display on early HP 41C

Message #3 Posted by [Ion Abraham \(New Mexico USA\)](#) on 2 Jan 2001, 9:30 a.m., in response to message #2 by Steve (Australia)

Steve,

Thanks very much for your reply. It seems the problem is a bit more subtle than I had thought. When the display is viewed at the "normal" 15-20 degree angle off normal, ALL the LCD elements appear to be black, but when viewed directly normal and even a bit back tilted, the display does show that PRGM and ALPHA, for example, go off and on. Numbers still do not show up properly, even when viewed this way. I tried the BEEP and it does NOT. The back of the unit seems quite firmly attached. I guess it's time to open it up and/or wait for my CD ROM set with the service manual. It seems it's not just the display. Any other suggestions would be appreciated.

Ion Abraham Albuquerque, New Mexico

Re: Display on early HP 41C

*Message #4 Posted by [John Robinson \(Australia\)](#) on 2 Jan 2001, 11:41 p.m.,
in response to message #3 by Ion Abraham (New Mexico USA)*

Hi Ion,

From my experience with these things, open it up, clean all the circuit board contacts with a good circuit board cleaner (I'm assuming it's a "fullnut"), check the screw posts are not cracked/broken, and reassemble, and more often than not the calc will then work fine. Cheers - John

Re: Display on early HP 41C

*Message #5 Posted by [Ion Abraham \(New Mexico USA\)](#) on 3 Jan 2001, 8:59 a.m.,
in response to message #4 by John Robinson (Australia)*

John,

Thanks for your reply. I actually did that after posting my reply to Steve, and I really had high hopes, because some of the circuit board contacts looked like they could use the cleaning. The screw posts are fine, although one of the other posts for the 1/4" nuts that hold down the circuit board was stripped (they never should have put a stainless nut on a plastic threaded post). Nevertheless, I think the board is probably held down OK. Alas, after all that, there was no change in behavior at all. I am going to wait for my Museum CD-ROM set, which apparently includes the 41C service manual. I would like to try some board level tests. I would also welcome any other suggestions, of course.

Best regards,

Ion Abraham Albuquerque, New Mexico

Re: Display on early HP 41C

Message #6 Posted by [John Robinson](#) on 3 Jan 2001, 11:52 p.m.,
in response to message #5 by Ion Abraham (New Mexico USA)

OK, one last thing to try if your willing, unsolder the display and remove it. Then there's a couple of U shaped metal strips at the top and bottom that hold the display glass and circuit board together. In this old model, the material used to connect the glass to the circuit board is similar to the strips used to connect the CPU board to teh keyboard. Remove the metal strips, under the metal strips is a piece of plastic (insulation), and take the circuit board off. Clean all contacts (glass, circuit board, and connecting strips), and reassemble being sure to get the plastic insulating strips around the right way. Just think about this and it will become obvious. Once reassembled, solder it back in and give it a go. If all else fails I may have a part or two to help you fix it. Cheers - John

Re: Display on early HP 41C

Message #7 Posted by [Ion Abraham \(New Mexico USA\)](#) on 4 Jan 2001,
7:06 p.m.,
in response to message #6 by John Robinson

John,

Thanks for your suggestion. I opened a second, more recent 41C I'm trying to fix, and I see the clips and all, so I am going to try the procedure you describe, especially because this one has some black graphite-like stuff behind the lens in the display, and one of the leads to the display was desoldered already. This more recent unit never did show anything in the display, despite repeated clear-enter-ons, but I have some hope after seeing the loose lead. I still think more is wrong than just the display, because BEEP does not work either, for example.

What it does do is emit a very loud and very high pitched sound when the batteries are first plugged in (after being without them for a long while). The sound then dies down but a very faint buzz is still audible as long as the batteries are plugged in.

Do you or anyone else know what causes this? I have seen this mentioned by others in the forum archive, but without any explanation.

I guess my foray into restoration is not off to a stellar start, but I wouldn't lose much either way. I bought these two 41C's as broken for not much

money, and I got a really nice book out of it, "HP-41C/41CV Operating Manual - A Guide for the Experienced User," a short little book that summarizes some of the more interesting programming and operational basics (for the CX as well).

Still, I am waiting for the CD-ROM set, to see if the service manual has some more useful tests.

Best regards,

Ion Abraham Albuquerque, New Mexico

Re: Display on early HP 41C

*Message #8 Posted by [Dave in MS](#) on 14 Jan 2001, 6:56 p.m.,
in response to message #7 by Ion Abraham (New Mexico USA)*

The high pitched squeal is a good thing. Take the batteries out and let it sit overnight then try again. Repeated pressing of the on/off rocker with the batteries out for about 1 minute is another try. Sounds like at least one of the display solder tabs are not making the connection. The squeal is just there because you are trying to awake it from its' nap and doesn't want to! Leave him/her alone for a night and try again. It still wants to sleep!

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Cleaning HP 41Cs

Message #1 Posted by [Ion Abraham \(New Mexico USA\)](#) on 1 Jan 2001, 8:41 p.m.

Hello,

I would appreciate some recommendations for cleaning products to use on a couple of HP 41 C's I am trying to bring back to life. One of them is VERY grungy, with a lot of graphite-like stuff all over it. One of the battery terminals is also rather green, and I guess I'll try the pencil eraser method on it. Their cases are also fairly dirty, though the foam seems in good shape. Can one wash those? In looking over the forum archive, I've run across people recommending/using: SNAP plastic cleaner diluted Simple Green

I have personally used ethanol and Q tips in the past, which worked well (denatured alcohol), but I am trying to do a proper restoration effort, so I am going about this slowly.

Any guidance will be much appreciated.

Happy New Year,

Ion Abraham Albuquerque, New Mexico

Re: Cleaning HP 41Cs

Message #2 Posted by [Steve \(Australia\)](#) on 2 Jan 2001, 5:34 a.m.,

in response to message #1 by Ion Abraham (New Mexico USA)

Plastic:

If it's really dirty, start with a damp cloth. A little mild detergent may also help (note: a *little*).

Be very careful cleaning the LCD display. You don't want to scratch or crack it. A cotton bud (Q-tip) may be a good tool to clean it. It can also get around the keys, but be careful not to have it so wet that any liquid gets in beside the keys.

Battery contacts:

Start with an old toothbrush - dry.

After you've used these to get rid of all of what will come off easily, then go for the more aggressive treatment.

Try not to let any stuff from the battery contacts to fall inside the case. (But hey, you may need to clean in there too)

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HP 48g in my Palm V

Message #1 Posted by [Ignacio Gimenez](#) on 1 Jan 2001, 6:41 p.m.

I am looking for a software to install in my Palm Pilot V that allows me to use the HP 48g Calculator. I've found the soft to add the HP 12c calculator, but I can't find the one for the 48g. I would be very appreciate if somebody could help me.

thanks.

Re: HP 48g in my Palm V

Message #2 Posted by [Charles Perry](#) on 2 Jan 2001, 12:25 p.m.,
in response to message #1 by Ignacio Gimenez

As far as I know there is no such software available. I use RPN 2.56, a shareware product, that is a pretty good RPN calc. It is programmable and there are several nice "scripts" that can be downloaded from its web site. It emulates more of a 32sii than a 48 however. No graphics.

Where?

Message #3 Posted by [dan](#) on 19 Jan 2001, 11:29 a.m.,
in response to message #2 by Charles Perry

Where did you download RPN 2.56? I have a Palm IIIxe that I'd like to install it on.

Thanks.

Re: HP 48g in my Palm V

Message #4 Posted by [Peter Ohanessian](#) on 2 Jan 2001, 3:13 p.m.,
in response to message #1 by Ignacio Gimenez

There is another Palm V calculator shareware called NeoCal (www.hudren.com) It allows RPN input, with several modes, RPN stack access, etc. Does not have "graphing" capabilities. Good luck.

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Prototype HP80????

Message #1 Posted by [Iqbal](#) on 1 Jan 2001, 10:27 a.m.

This forum states that the HP 80 started production in 1973, yet there is one on ebay, with a serial number that indicates that it was manufactured in 1972. Could this be a prototype? here is the ebay link:

<http://cgi.ebay.com/aw-cgi/eBayISAPI.dll?ViewItem&item=1205108678>

Re: Prototype HP80????

Message #2 Posted by [Reinhard Hawel](#) on 1 Jan 2001, 12:28 p.m.,
in response to message #1 by Iqbal

There's "Hewlett Packard 80" on the small sticker on the front. I thought, that the early 80s didn't get such a label. Seems, they only got "Hewlett Packard" without "80".

Additionally the year boundaries in HPs numbering scheme seem not to match the calendar year boundaries, so it could be an early unit but I don't think it's a prototype.

In the serial numbers page here in the museum, 1247 is the first noted production week, but HP seems to have been a little inexact with the production weeks in the early times.

Happy new year.

Reinhard

I don't think so

Message #3 Posted by [Jim L](#) on 1 Jan 2001, 12:39 p.m.,
in response to message #1 by Iqbal

HP routinely made a large batch of calculators before the original intro date so they would be waiting in stores when the ads appeared. I remember them being embarrassed that they had misjudged the demand for the HP-35 so badly that some people actually had to wait for it.

Re: Prototype HP80????

Message #4 Posted by [Erik Wahlin](#) on 1 Jan 2001, 12:51 p.m.,
in response to message #1 by Iqbal

It could very easily be that the serial # was removed from a HP-35 and attached to the battery compartment of this calculator, or parts from a HP-35 (black plastic backbone that you see when battery removed) were used to repair this one, however the back sticker looks untouched.

Re: Prototype HP80????

Message #5 Posted by [Peter Petersson](#) on 2 Jan 2001, 9:38 a.m.,
in response to message #1 by Iqbal

My HP-80 looks exactly the same, it has the serial number 1247A37056. It seems that in this time HP assigned the week of the beginning of a production run as the date code, and changed it only when they changed some details. I know this from HP measurement equipment. The date code was something like a version number, not a manufacturing date.

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HP-71B-HP-IL/RS232 vs Carriage Return

Message #1 Posted by [Doug Thomas](#) on 30 Dec 2000, 11:35 p.m.

I have a HP-71B and the HPIL/RS232 successfully transferring data and files to/from my PC. Im using an old x286 machine and ProcommPlus (for DOS) as a host. I also have all the documentation for the calculator and the interface.

The only problem left to conquer is the carriage return (CR). My PC will not recognize the <cr> that the -71B generates. I have found the command setup for the interface to delete/insert (ie:change) the <CR>, Im just not sure what ASCII characters I should change. Anybody know what the trick is? I am attempting to transfer BASIC files (transformed into text) over to my PC.

Thanks in advance,

Doug Thomas

Re: HP-71B-HP-IL/RS232 vs Carriage Return

Message #2 Posted by [DaveJ](#) on 2 Jan 2001, 9:49 a.m.,
in response to message #1 by Doug Thomas

I am not sure my quick answer is right, but you may have to include both the <CR> (carriage return) and <LF> (line feed) asciss character in strings. Many years ago I programmed a lot of HP equip and this was usually required to get data out correctly.

Re: HP-71B-HP-IL/RS232 vs Carriage Return

Message #3 Posted by [Reinhard Hawel](#) on 4 Jan 2001, 7:51 a.m.,
in response to message #1 by Doug Thomas

The 71B does not generate a <CR>. It uses UNIX convention, where the end-of-line character is a <LF> instead of <CR> <LF>, like in modern PCs.

Ever wondered, why there's a BINary and an ASCII mode in all the ftp programs? That's the reason.

BTW: the development of the 71B ROM was made on a UNIX workstation (a HP 9300 machine), so the developers were used to it. PCs were not very common in the glory days (the 71 was developed 1983-1984). For example the 71B Text Editor Module uses regular expressions for search and replace. The editor is similar to EX (which preceded VI).

There's a lot of conversion utilities on the net and it should be easy to write one on the PC (for use only with Text files). I can see, if I find something on my Winchester (hey, nice old word for a HDD, I just felt I had to use it now).

I know, that for printing you can use the ENDLIN string to specify <CR><LF> (ASCII 13,10), but I doubt, that TRANSFORM will use these settings.

Re: I got it to work, a different way.

Message #4 Posted by [Doug Thomas](#) on 14 Jan 2001, 9:04 a.m.,
in response to message #1 by Doug Thomas

Well....after much pondering...I figured out a way to get what I wanted. Instead of trying to tackle the CR/LF issue, I just did the following.

1. Initialized the HPIL/RS232 interface from the Hp-71B.
2. Bring up my host application (ProcommPlus for DOS).
3. From the HP-71B, issue this command: PRINTER is :RS232
4. From the HP-71B, issue this command: PLIST FILENAME

The file had previously been transformed from basis to text. The text file is transferred over to my host application and I captured the whole thing.

If anyone needs help with the HP42461A interface, drop me a byte, Ive been using one a lot for the last month or so.

Doug Thomas

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HP41CV up/download to/from a PC

Message #1 Posted by [Nenad Vulic \(Croatia\)](#) on 30 Dec 2000, 4:13 a.m.

Hi all,

Is it possible to upload a program from a HP41 to a PC and to download a program from a PC to a HP41 (in a simmlar way as for HP48)? If yes, which peripheral should be connected to HP41 and which software is to be used at the PC.

Please, excuse me if I am asking something very well known, but I am a newbie to HP41CV.

Thanks in advance.

Re: HP41CV up/download to/from a PC

Message #2 Posted by [Steve \(Australia\)](#) on 30 Dec 2000, 9:41 a.m.,
in response to message #1 by Nenad Vulic (Croatia)

Several methods of getting code from the 41 to the PC

1) HPIL serial interface 2) HPIL Disk drive 3) HPIL interface on PC 4) IR printer on HP41 and special hardware/software om PC

And to get the code from PC to 41

From above 1, 2, or 3, and creating barcode on PC and using wand on HP41

Re: HP41CV up/download to/from a PC

Message #3 Posted by [Victor](#) on 31 Dec 2000, 12:50 a.m.,
in response to message #1 by Nenad Vulic (Croatia)

Try the following page from this web site:

<http://www.hpmuseum.org/software/41td/41docs.htm#how>

It gives instructions for several methods of getting programs from the PC to the HP-41.

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Zenwand Barcode Reader w. HP71

Message #1 Posted by [Marc Hornschuh](#) on 29 Dec 2000, 2:43 a.m.

Hello!

I got a Zenwand Barcode Reader from Zengrange Ltd / England, mounted on a connector for the HP71 ROM-Port.

Does anyone know how I could use (program) it?

TIA

Marc

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Is it broken?

Message #1 Posted by [Brent F.](#) on 28 Dec 2000, 1:47 p.m.

I have recently been given a HP48GX calculator by my brother-in-law. It was working last night when I put it away. When I went to turn it on this morning nothing happened (no screen display). I replaced the batteries with new ones, and I tried the On+C and On+A+F key combinations without success. Also tried the On and + keys to increase contrast, but nothing happened. I cannot hear any key responses executing a keyboard test. Then I removed the rubber foot and executed a hard reset with the paperclip, but still I get no response. I tested the voltage with a multimeter, and I get 4.48 V output, but I only get a blank screen on the display. Is this thing broken, or does anyone know other methods of recovery. As far as I know, it has not been dropped or abused during the night.

Thanks for any ideas.

Brent F.

Re: Is it broken?

Message #2 Posted by [Marx Pio\(Brasil\)](#) on 28 Dec 2000, 8:35 p.m.,
in response to message #1 by Brent F.

You should attempt to change it after the warranty expires. I think it is about one year from the date of the purchase. Sorry can't help you more.

Re: Is it broken?

Message #3 Posted by [Andreas Stockburger \(Germany\)](#) on 29 Dec 2000, 2:50 p.m.,
in response to message #1 by Brent F.

Hi there,

please try to shorten the battery-contacts for about 10 sec. without batteries in the calculator.

Happy new year

Andreas

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Re: Can you copy a card on a 41?

Message #1 Posted by [Jon Barrett](#) on 28 Dec 2000, 1:37 p.m.

I don't recall a diskcopy program, although you could probably write one. If the 67 diagnostics card isn't a self-starter, you could read it into program memory and record it back out. That's the normal procedure.

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Re: Omnibook 530 Help Needed

Message #1 Posted by [Jon Barrett](#) on 28 Dec 2000, 1:33 p.m.

12 V 3.3V Neg. tip. HP F1044B.

Left front - would be the memory expansion slot and cover (4 or 8 MB). Front of the left side are two PCMCIA slots, and a tray for the lower one of them. Left side rear, bay for the HP internal 2400/9600 BPS modem/fax.

For more info, Check out Chris Erickson's site <http://www.data-plumber.com/>, or the Omnibook mailing list at listproc@elektro.cmhnet.org - subscribe omnilist yourname.

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buying hp48GX vs. 49G

Message #1 Posted by [Justin Plante](#) on 28 Dec 2000, 12:28 p.m.

I am looking for some help. I am a first year engineering student with a TI 82 and I am looking to purchase a new calculator. I have narrowed my choices down to the HP 48GX and the new HP49G. I plan on becoming a geomatical engineer and would like the best calculator available for this application. Thanks

Re: buying hp48GX vs. 49G

Message #2 Posted by [Marx Pio\(Brasil\)](#) on 28 Dec 2000, 8:19 p.m.,

in response to message #1 by Justin Plante

If you're familiar with TI's machine your best choice is a TI 92Plus. But if you want start with a new one you should consider to buy a HP49G because it can be used as a RPN machine or algebraic. Sorry, I can't help you about existing apps for HP's or TI's on geomatical subjects.

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Re: The first HP-41C?

Message #1 Posted by [Jon Barrett](#) on 28 Dec 2000, 12:25 p.m.

Yep, yours is a month older than mine. Dave posts the earliest he's aware of, so you need to let him know. The last 5 digits are sequence within the week's run, so without a table of highest-known sequence numbers you can't conclude anything about the relative production. If week 26 was indeed the first week of production it may have even started mid-week.

As a check on whether it's internally an early 41C, it should have all 9 bugs, and should have the gold balls for the (never-built) AC adapter.

Re: The first HP-41C?

Message #2 Posted by [Frederic ALBERT \(France\)](#) on 28 Dec 2000, 12:33 p.m.,
in response to message #1 by Jon Barrett

Just about these famous 9 bugs.

Is it possible to have complete informations about these 9 bugs and about which have been fixed (and when !!!).

Because my HP41C has a serial number 1942Axxxxx and I would like to know if it as some of these bugs (and if it has some bugs fixed later it was produced !!!).

Thanks

PS: please excuse my bad english.

Re: The first HP-41C?

Message #3 Posted by [Mark Hardman \(Dubya's State\)](#) on 28 Dec 2000, 1:26 p.m.,
in response to message #2 by Frederic ALBERT (France)

From Craig A. Finseth's HPDATAbase (An excellent collector's resource):

<http://www.finseth.com/~fin/hpdata/hp41c.html>

Bugs/ROM-Versions::

#1: Early machines did not save X into L when \GS+ and \GS- were done.

#2: Early machines allowed RCL IND nn and STO IND nn when nn was outside the memory range.

#3: Early machines allowed SF,CF,FS?C, and FC?C IND nn with nn any number (but not a stack register) 0 to 55.

#4: Early models compute the SIN of small angles incorrectly.

#5: CLP would only clear 1089 program lines.

#6: -67A/-97A programs that contain combinations of number entry, EEX, and CHS do not translate correctly. Example:

EEX CHS 7 CHS 5

translates to

E-7-5

instead of

1E-7 -5

#7: The second nybble of the seventh byte of Alpha is copied along with the first six bytes during an ASTO.

#8: Early machines do not decompile programs if they are turned off during PRGM mode.

#9: Executing CAT 1 while in PRGM mode, then interrupting it with R/S causes step labelling oddities.

#10: If flag 25 is set and MEAN or SDEV causes an overflow, some flags can be altered.

#11 (CW1): If a program at the end of CAT 1 is replaced or deleted, a return to that program will return into the new program or off-program memory.

#12: On early models, the function LN(1+X) gives wrong answers for values of X between -.9990234374 and -1.00.

#13: On early models, the operation (.1)^-43 gives an answer of 9.999999999E42 instead of 1E43.

ROM Versions:

version	date codes	comments
DDE	1926-1940	all bugs
FDE	1936-1952	#3 removed
FEE	1951-2034	#1,#2,#4 removed
GFF	2035-84??	#5,#7,#8 removed, first -41CV version
HFF	84??-present	current -41CV version
NFL	2329-present	current -41CX version

Re: The first HP-41C?

*Message #4 Posted by [Steve \(Australia\)](#) on 28 Dec 2000, 6:02 p.m.,
in response to message #3 by Mark Hardman (Dubya's State)*

A bit of a commentary on the bugs:

#1: Early machines did not save X into L when \GS+ and \GS- were done.

This was just a bug, and a pain!

#2: Early machines allowed RCL IND nn and STO IND nn when nn was outside the memory range.

These allowed the user to reach into program memory and change things (it allowed the birth of synthetic programming on the HP41C)

#3: Early machines allowed SF,CF,FS?C, and FC?C IND nn with nn any number (but not a stack register) 0 to 55.

The first bug to be fixed. So to check for all bugs do: 49, STO 01, SF IND 01. On an allbugs calculator the BAT flag is displayed, on a non bug 3 calculator you get NONEXISTANT.

#4: Early models compute the SIN of small angles incorrectly.

Just a pain.

#5: CLP would only clear 1089 program lines.

...and even less with the printer connected (224 steps from memory)

#6: -67A/-97A programs that contain combinations of number entry, EEX, and CHS do not translate correctly. Example:

Also a problem that pointed the way to synthetic programming.

#7: The second nybble of the seventh byte of Alpha is copied along with the first six bytes during an ASTO.

Horrible if it bites you!

#8: Early machines do not decompile programs if they are turned off during PRGM mode.

Amusing bug - and not fixed until quite late (2035)

#9: Executing CAT 1 while in PRGM mode, then interrupting it with R/S causes step labelling oddities.

Provides the "modern" way to bootstrap byte jumper or other synthetic key assignments. Also allows you to un-private programs :-)

#10: If flag 25 is set and MEAN or SDEV causes an overflow, some flags can be altered.

Odd!

#11 (CW1): If a program at the end of CAT 1 is replaced or deleted, a return to that program will return into the new program or off-program memory.

Fun! Almost not a bug IMHO, rather a caution for people who want to remove programs that are still effectively running.

#12: On early models, the function $\text{LN}(1+X)$ gives wrong answers for values of X between -.9990234374 and -1.00.

Oooh! But not the usual range in which you would use this function.

#13: On early models, the operation $(.1)^{-43}$ gives an answer of 9.999999999E42 instead of 1E43.

Oops :-)

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Re: HP-41 program.

Message #1 Posted by [Jon Barrett](#) on 28 Dec 2000, 11:55 a.m.

7DSP4 is available with the card reader installed. The card reader provided a number of HP-67 instructions for backwards compatibility. FIX4 should work OK.

E4 can be created by synthetics, either byte-grabbing or byte-jumping. It is one byte smaller, and IIRC slightly faster than 1E4.

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HP Microprocessors

Message #1 Posted by [Chris Leyson](#) on 28 Dec 2000, 5:44 a.m.

Hi everyone and a Happy New Year. I have an HP3585A spectrum analyser. A really nice piece of kit but no longer supported by HP. The service manual claims that the microprocessor used is the same as in the HP9825 calculator. It's an 82 pin hybrid mounted on a heatsink with 16-bit data and address bus. Part is marked 09825-67907. Anybody got any data on this part, timing diagrams or op-code map ?

Chris Leyson

Re: HP Microprocessors

Message #2 Posted by [Eric Smith](#) on 20 Jan 2001, 1:34 a.m.,
in response to message #1 by Chris Leyson

It's a three-chip processor. The "main" chip is the BPC, or Binary Processor Chip. In some equipment, such as the 9872 plotters, the BPC chip is used alone rather than as part of a hybrid.

The only publicly available info on it is in the HP 9835 and HP 9845 assembler ROM manuals. The architecture is sort of like the HP 2116 minicomputer, but differs in all the details.

No electrical specs or timing info are available.

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hp41"SURVEYING I"

Message #1 Posted by [robert yarumian](#) on 27 Dec 2000, 8:17 p.m.

I HAVE A CHIP FOR A HP41 MARKED "SURVEYING I" WHICH I DO NOT KNOW IF IT WORKS AND CAN PLUG INTO MY 41CX, BUT I DO NOT KNOW THE START UP CODE. DO YOU KNOW HOW TO TEST IT OUT?

Re: hp41"SURVEYING I"

Message #2 Posted by [Randy Smith \(Germany\)](#) on 28 Dec 2000, 1:38 a.m.,
in response to message #1 by robert yarumian

The first thing to do is plug it in and perform a "cat 2" This operation checks through all of the programs and routines in currently plugged in modules. If you see a series of names on the display there is a pretty good chance your survey module will work. The names that appear are the names of the programs on the module. I hope this helps, Randy

Re: hp41"SURVEYING I"

Message #3 Posted by [Thibaut.be](#) on 28 Dec 2000, 2:44 a.m.,
in response to message #1 by robert yarumian

There's nothing you can do... it's probably totally out of working order... the best thing you can do is to send it to me..

Just kidding of course...

Just test it with <shift> CAT 2, you should see a number of 'XXXXX' labels running.

You should also need the manual (available on CD through this site), I guess it's quite difficult to use without it..

Good luck !

Re: hp41 "SURVEYING I"

Message #4 Posted by [db](#) on 28 Dec 2000, 7:52 p.m.,
in response to message #1 by robert yarumian

it works. they never break. we still use this rom every day. i use vert, trav/inv and horiz regularly and just used pit for the third time in 17 years(outside a test) two days ago. if you get the manual on daves disk and still have specific questions; e-mail me and i'll walk you through them.

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82240 Printer

Message #1 Posted by [Nathan Benson](#) on 27 Dec 2000, 8:06 p.m.

any idea how to print from another ir device to an HP 82240 printer. > (ie a laptop or pocket pc) > >
> Thanks > > Nate

Re: 82240 Printer

Message #2 Posted by [Jon Barrett](#) on 28 Dec 2000, 12:16 p.m.,
in response to message #1 by Nathan Benson

Tom Rundel has written (as shareware) a command-line print utility (<http://www.rundel-d.com/palmtop/>). He also has library functions available so you can roll your own. These *may* be specific to the HP-100/200LX palmtops, however.

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Early serial numbers - 27S

Message #1 Posted by [Katie](#) on 27 Dec 2000, 6:40 p.m.

Hi All,

I just got a 27S MIB with what appears to be an extremely early serial number based on what Mier-Jedrzejowicz's book and this web site say. It's serial number is: 2747A00209.

I usually don't pay too much attention to them, but this was in such perfect condition in such a faded box that I checked it. Do any of you consider early serial number calculators to be worth more than later ones (assuming that there were no model variations)?

-Katie

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Re: HP65 reassembly

Message #1 Posted by [John Robinson \(Australia\)](#) on 27 Dec 2000, 5:38 a.m.

Thanks for the suggestions guys. The calc is purely for myself and won't be sold (or maybe my children will inherit the thing !!), so having it look nice is purely just for my aesthetic whims.

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Rapid Reverse Branching

Message #1 Posted by [Steve \(Australia\)](#) on 26 Dec 2000, 5:40 p.m.

Can someone explain "Rapid Reverse Branching" as it exists on the HP67/97?

I remember the reference to it in perhaps the HP41 card reader manual or maybe a copy of PPC with a program, but I could never find an explanation.

Now it's popped up in another thread it has reminded me of something I have waited almost 20 years to get explained.

Re: Rapid Reverse Branching

Message #2 Posted by [Mike Hicks](#) on 26 Dec 2000, 9:56 p.m.,
in response to message #1 by Steve (Australia)

Steve,

There is a section in the museum for HP-67/97 Programming called Rapid Reverse Branching. I have not used the technique and cannot explain further. Good Luck.

Mike

Re: Rapid Reverse Branching

*Message #3 Posted by [Nenad Vulic \(Croatia\)](#) on 27 Dec 2000, 11:00 a.m.,
in response to message #1 by Steve (Australia)*

Rapid reverse branching in a HP-67/97 program means just this: if you use a GTO(i) instruction (indirect go to) and the number in the I-register is negative, the program continues execution at the program step determined by this number in I-register (say nnn) which lies nnn steps above the step which contains the subject GTO(i) instruction (ie. moves nnn steps before the current step in "reverse" direction). As the machine does not have to search the whole program space for labels, this procedure is fast (so it is called "rapid") and executes much faster than in case of positive nnn (when the program jumps to label "nnn"). This is a kind of addressing by which you may reach any step of program memory and continue execution from there.

In this sense, the step that comes before step 001 is the last step, ie. step 224.

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Re: HP-41 program.

Message #1 Posted by [Randy Smith \(Germany\)](#) on 26 Dec 2000, 7:23 a.m.

The way to "eat" the 1 for the "1 E4" program line on the 41 is with synthetic programming. When programs had to be as small as possible, an extra byte here and there made quite a bit of difference. There are some good books out there about synthetic programming but they are getting harder and harder to find. The card reader user's guide also has a list of equivalent commands for "7xxx" lines in programs. Having that list makes it easy to translate 67/97 programs into 41 programs. This was added to the card reader so you could use 67/97 cards in the 41. The only difficulty will be if you run into a feature of the 67/97 that was not carried over into the 41, rapid reverse branching. If that is in a 67/97 program the translation is much more difficult. Luckily for me the 2 programs I have translated to 41 have not had that. I hope at least some of this helps. Randy

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Re: Merry Christmas!

Message #1 Posted by [Marx Pio\(Brasil\)](#) on 25 Dec 2000, 1:07 p.m.

Merry Christmas! Congratulations for this site. I really feel in home.

Let the Lord master our lives.

Jesus Bless you all

Pio

Re: Merry Christmas!

Message #2 Posted by [Reinhard Hawel \(Austria\)](#) on 25 Dec 2000, 8:48 p.m.,
in response to message #1 by Marx Pio(Brasil)

My dear friends

I saw, there's nobody from Europe posting his wishes.

Have a peaceful and quiet Christmas, especially after all the stress before. My best wishes for all of you.

Reinhard

Re: Merry Christmas!

Message #3 Posted by [bill duncan \(canada\)](#) on 26 Dec 2000, 12:15 p.m.,
in response to message #2 by Reinhard Hawel (Austria)

...Or Canada

Season's Greetings to all. Thank you Dave for providing us with a meeting place. Cheers!

Thanks Everyone!

*Message #4 Posted by [Dave Hicks](#) on 7 Jan 2001, 5:21 p.m.,
in response to message #3 by bill duncan (canada)*

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HP 48GX vs HP49G

Message #1 Posted by [Tim](#) on 25 Dec 2000, 1:05 p.m.

I am a working structural engineer who has utilized the HP-41CX with a card reader and the structural analysis pac for the last 15 years. I use the structure pac every day. I also do some of my own programming, which I have saved to cards.

For various reasons, I am looking at upgrading to an HP-48GX or an HP-49G. I have found a similar structural analysis pac from Da Vinci which is applicable to the HP-48GX.

Is there a structural analysis pac available for the HP-49G? I have not been able to find one even though I have read ads for the HP-49G which state, "...lets you benefit from the biggest and most comprehensive library of third party calculator programs..."

Where does one find this library of programs and how do they get installed into the HP-49G? I am sorry for my ignorance. I have been out of the calculator market for quite some time.

I would appreciate any comments as to the pros and cons of the HP48GX and the HP49G for the engineering applications I have described above.

Re: HP 48GX vs HP49G

Message #2 Posted by [Marx Pio\(Brasil\)](#) on 25 Dec 2000, 9:56 p.m.,
in response to message #1 by Tim

Dear Tim,

I'm a structural engineer too and I think I can tell you some impressions for beeing a user of a 48GX and a 49G.

In my humble opinion,

The HP48GX pros are, 1-Many libraries for structural analysis such for checking stresses on trusses, beams, columns, slabs and foundations, and many of them with no cost, just download

it and install on 48GX. 2-Two slots, like the four HP41 ports, let the user expand and freely change applications cards easily and fast. 3-IR port. We can send and receive data between two HP 48G's machine and print on the thermal portable printer. 4-Formulas lib's are very useful. 5-Price. For about US\$ 130,00 you can buy one of them.

The HP48GX cons are, 1-Machine is very slow if compared to a 49G. 2-LCD contrast is the one of its weakness. 3-Memory. Only 128K ram for applications don't let us much free space for testing news libraries without have to detach others. 4-No connectivity kit included. 5-Included manuals are incredible poor and dim.

The HP49G pros are, 1-Machine is astonishing fast 2-LCD contrast is much better than 48G 3-Memory. 241K IRAM, 255K ERAM and 940K Flash. Total 1.43 MB 4-Fast 3D graphics. Really realtime rotation 5-We don't have to buy a 49G"X". The rom is flashrom and can be upgraded with new roms versions when they become available on hp site.

The HP49G cons 1-The keyboard is simply stupid. They are made of rubber, like the old sinclair's spectrum. 2-No IR. We can't print on hp portable printer. 3-No card slots. It seems that the processor can't address more than we have on this calc 4-No much libraries for structural analysis. We are lucky if we find something on this subject specially designed for the 49G. We have to do ourselves what we need. Only UserRPN codes are compatible with the two HP's. Libraries compiled for 48 can't be run on a 49 and vice versa. 5-Included manual is the worst made by human being.

In resume, the best calculator for structural analysis is a 49G with a huge structural libraries of a 48GX, a keyboard, color and a neverending magic of a 41C series.

Pio

Re: HP 48GX vs HP49G

*Message #3 Posted by [Jon Barrett](#) on 28 Dec 2000, 11:49 a.m.,
in response to message #2 by Marx Pio(Brasil)*

But the 48GX has two expansion slots, and can merge in up to 256 KB more memory, as well as, with the 1 MB card, storing an additional 896 KB of libraries in 7 banks, or a maximum of 9 banks with 1152 KB RAM. Libraries don't have to be in "active" memory. Nor do static variables or applications.

Re: HP 48GX vs HP49G

*Message #4 Posted by [Marx Pio\(Brasil\)](#) on 28 Dec 2000, 8:31 p.m.,
in response to message #3 by Jon Barrett*

All you wrote don't come inside the box when you buy a new 48GX and you have to pay about 4 times you spent with your 48GX just for the addons and you have to install the MetaKernel in one of the cards to beat the power of a 49G itself.

Re: HP 48GX vs HP49G for Structural Engineering

*Message #5 Posted by [Tim](#) on 28 Dec 2000, 9:46 p.m.,
in response to message #2 by Marx Pio(Brasil)*

Thanks for the info on the HP48GX vs the HP49G. It seems that the HP49G has much more potential but far fewer applications as yet compared to the HP48GX. Do you see that changing in the near future?

As a structural engineer, I do most of my design/analysis work on a desk top PC, but I do like to have the structural pac on board my calculator for small problems.

I contacted da Vinci Technologies about their time frame for upgrading their structural pac from the 48GX to the 49G. They said they have been "reluctant" to do so because "the overall business level for the HP 49G has been very disappointing".

It will be interesting to see how it all progresses.

Tim

Re: HP 48GX vs HP49G for Structural Engineering

*Message #6 Posted by [GE](#) on 29 Dec 2000, 6:23 a.m.,
in response to message #5 by Tim*

Software will more likely be developed and supported for the HP48 rather than for the HP 49 because on the former it can take the form of a hardware device (a card), less prone to being unlawfully copied. On the HP49 applications must be provided as a file, so the risk is much higher for quite expensive (and quality) professional packages.

Re: HP 48GX vs HP49G

Message #7 Posted by [Ron Ross](#) on 26 Dec 2000, 6:11 p.m.,
in response to message #1 by Tim

I have both but still use the 48g most. Why? Because the damn enter key on the 49 is small and in the corner where the equals key is on algebraic calcs (which is also what the 49 can be). The quality of the keyboard on the 49g is okay, but I like the 48g's keyboard better (the 48g's keyboard is the same type as your 41). Speed? both are fine for general number crunching. The 49 is faster at CAS manipulation and diffeq's as 48 but neither is a barnburner, since both still use a 4 MHz clock and the saturn processor that was released about the same time as the 41cv (I don't need to hear about great engineering and foresight, I acknowledge that).

If \$\$\$ are not an issue the 48gx with expansion cards can cost 2-3 times what a 49 can cost but there is so much free great quality software that can do whatever you need, that it still is the most powerful calc available today.

Tommorrow??, Well the hype on the 49 is just that at the moment, however eventually, the software will catch up and the memory is much greater than an out of the box 48. Its potential is greater. But that is just it. If you need a solution today, buy the 48.

Re: HP 48GX vs HP49G

Message #8 Posted by [pco@hotmail.com](#) on 13 Jan 2001, 7:47 p.m.,
in response to message #7 by Ron Ross

todo quieres buey omprate una computadora

Re: HP 48GX vs HP49G

Message #9 Posted by [Tom \(UK\)](#) on 3 Jan 2001, 12:59 p.m.,
in response to message #1 by Tim

Another few personal points about the 48 vs 49 (I have both) are:

I would not like to drop the '49 as the case looks quite weak (especially around the display). I'm not suggesting you drop the '48 but I think it would survive a whole lot better. (My '49s case has started to 'creak' when pressing the enter key.)

The '49 display is a higher contrast but also has an easy to scratch cover that reflects the light making the display hard to read. (The clear cover may be necessary because the case is not strong enough without it). The screen cover may be harder to scratch on later HP49's, mine is an early model.

The keyboard text colours are stupid too as red and blue text on a metallic blue back-ground are impossible to read in some lighting conditions.

Because the HP49's software keeps changing the manuals soon go out of date requiring the owner to re-download an entire set (HP number the pages one after the other, not in sections so a single page change ups the page number of every page after it AND makes the index obsolete :-(. The manuals are also poor unless you are an HP48/49 expert.

All in all the '49 is probably more suited to a classroom environment. In the rough and tumble of work I'd go for the '48 every time (even if it costs more - with memory cards - what is the cost if it stops working part way through a job?)

Re: HP 48GX vs HP49G -oops!

*Message #10 Posted by [Tom \(UK\)](#) on 4 Jan 2001, 1:09 p.m.,
in response to message #9 by Tom (UK)*

Sorry - the manuals on HP's web page ARE numbered in sections. However the part I was thinking of is the CAS and other commands section which is a chunk of about 430 pages long. If any of these commands change then the old documentation becomes obsolete and the user has to down load and print out (for a mobile copy) 400 odd pages :-)

PS HP say the pocket guide is version 1.2 on the web page, but when you down load it the document says version 2.0! (So much for the user trying to keep track of what documents are at what version and saving some trees in the process)

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