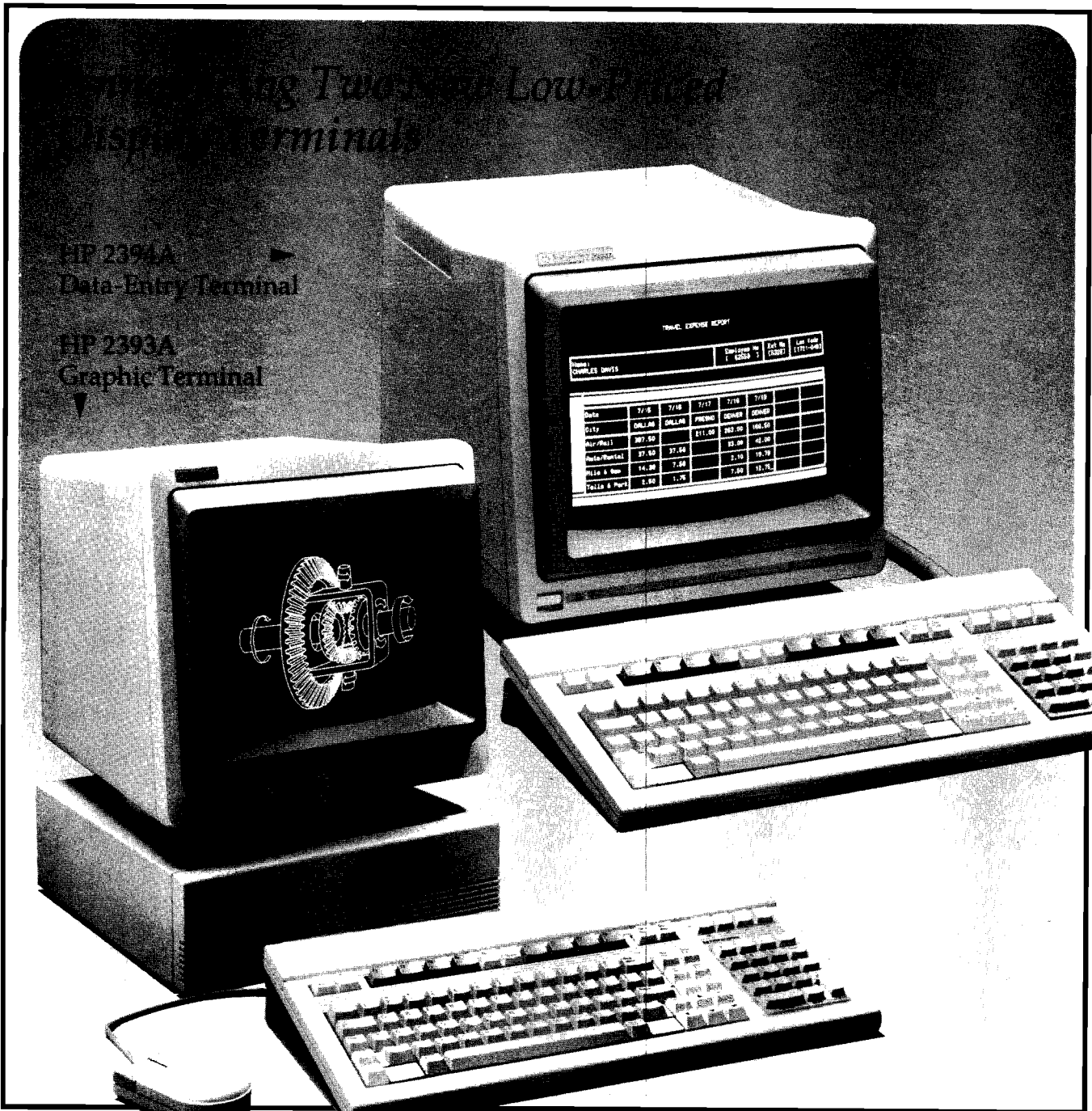


COMPUTER FOCUS



Computer News for HP OEMs and Independent Software Vendors

July 1985



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Two new display terminals — the HP 2393A graphics terminal and the HP 2394A data entry terminal — are announced in this issue. The HP 2393A provides full graphics and text capabilities, supporting a variety of input/output options. The HP 2394A is HP's low-cost, innovative answer to remote data entry applications. See articles beginning on page 17.

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GENERAL

SUPPLIES

September HP 3000 Commercial Software Supplier Conference promises to be a winner

Hewlett-Packard will host the 1985 HP 3000 Commercial Software Supplier Conference on Monday and Tuesday, September 23 and 24, at the Marriott Hotel in Santa Clara, California.

This year's conference will focus on business and marketing planning, as well as HP product strategies. You will have an opportunity to share ideas with HP management and HP software suppliers worldwide and gain insight into the future of HP commercial systems.

Please mark September 23 and 24 on your calendar and watch the mail for more information in July. If you have any questions, contact Dave Duckworth or Gina Ferrari at HP's Value-Added Solutions Marketing Group, Cupertino, CA, 408-973-1919.

HP Direct Order Phone Numbers

DMK Fast Phones — the easy, direct way for you to order supplies, accessories, media, furniture, and software.

Location	Telephone Number
Austria	(0222) 2500615 (0222) 2500616
Belgium/Luxembourg	(02) 762 32 00
Canada	
Toronto Local	416-671-8383
Ontario	1-800-387-3417
Quebec	1-800-387-3417
British Columbia	112-800-387-3154
Other Provinces	1-800-387-3154
Denmark	(02) 816640, ext. 258
Finland	(90) 4550211
France	(6) 928 32 64
Greece	(01) 6471673
Italy	(02) 92 36 91 (06) 5 48 31
Middle East	
Athens	(01) 6828811
Norway	(02) 171180
South Africa	
Johannesburg	(011) 8025111
Cape Town	(021) 537954
Durban	(031) 284178
Spain	(01) 6384013
Sweden	(08) 7502028
Switzerland	(057) 31 22 54 (057) 31 22 59
The Netherlands	(020) 470639
United Kingdom	(0734) 696622
United States	800-538-8787
California	408-738-4133
West Germany	01303322



HP Computer Museum
www.hpmuseum.net

For research and education purposes only.

HP 100 SERIES

The Portable performs time management

Now included in the HP Portable personal computer is the Time Management Program.

The Time Management program allows you to make more effective use of your HP Portable by taking over some of your routine tasks; these include maintaining a daily "to do" list, keeping track of appointments, taking notes, recording names and addresses, and dialing telephone numbers (if your modem is connected to a telephone). All of this information will be stored in your computer, so you no longer need to carry an address book, business cards, or note paper.

A special offer for those who already own The Portable

If you would like to receive a copy of Time Management Program, send your name, mailing address, and \$10 to cover shipping and handling costs to the following address: Hewlett-Packard, Time Management Program, 1000 NE Circle Blvd., Corvallis, OR 97330. (Visa or Master Cards are accepted.)

HP integrated software solution for HP 150 II personal computers

A new Hewlett-Packard software solution is now available — The ExecuDesk System. Many office professionals want more than just stand-alone word processing, or just a spreadsheet/graphing link as offered in 1-2-3® from Lotus®. Managers want their often-used functions to talk to each other and work together. And this should include word processing, data-driven graphics, spreadsheet power, financial calculator, and personal information management.

With The ExecuDesk System, we offer that solution. Graphing spreadsheet information, including spreadsheet data in word-processed memos, moving data from an information manager to memos and spreadsheets, are all examples of the additional power that an integrated offering provides. Incorporating graphic pictures into written documents is another key feature. And the benefits are clearly the kind that

makes using the HP 150 personal computer fun, and truly useful in completing work. Whether finishing short tasks or long projects, having the integrated tools on the HP 150 personal computer makes it easier. The ExecuDesk System optimizes the functions and integration that managers need.

Designed for the "power user," The ExecuDesk System makes full use of the required 384 Kbytes of RAM and hard disc. The beauty of this integrated system is that you have flexibility. You can buy the total, optimal solution at a price savings. After buying The ExecuDesk System, you can add additional graphing power, and have a choice of two additional data-communication tools. Or, you can select and integrate the applications you select by buying ExecuDesk and the applications you choose.

The ExecuDesk System (P/N 45442A) integrates ExecuDesk, Series 100/Financial Calculator, Executive MemoMaker, Charting Gallery, Deluxe VisiCalc®, and Personal Card File at a significant price savings. (Note: Drawing Gallery is not part of The ExecuDesk System. Software available only in English.)

You can add and integrate Drawing Gallery (for powerful presentation graphics), Version A.03.01 of AdvanceLink (data-communications software — now shipping), and/or Version A.00.01 of HP Message for the HP 150 personal computer (link to HP DeskManager on the HP 3000 — now shipping) into The ExecuDesk System.

P/N	Software product
45431A	AdvanceLink
36568A	HP Message for the HP Touchscreen personal computer
45411A	Drawing Gallery
45433A	Gallery Picture Library II

Or, if you prefer to combine a different set of capabilities, you can select the ones you wish — and integrate them through ExecuDesk. Although you don't get the price discount and the select combination of HP products that The ExecuDesk System offers, you can design the right balance of software to

meet your needs. Purchase ExecuDesk and add from these applications:

P/N	Software product
45444A	ExecuDesk (Shipping now. For a limited time, includes Financial Calculator at no additional charge.)
45431A	AdvanceLink (Now shipping)
36568A	HP Message for the HP 150 personal computer (Now shipping)
45411A	Drawing Gallery
45513A	Charting Gallery
45433A	Gallery Picture Library II
45418A	Executive MemoMaker
45405A	Deluxe VisiCalc®
45422A	Personal Card File

1-2-3® and Lotus® are US registered trademarks of Lotus Development Corporation.

VisiCalc® is a US registered trademark of VisiCorp.

8087 Co-processor Accessory increases performance

The 8087 Co-processor Accessory (HP 45885A) provides HP 150 II personal computer users with the computing power and performance they have been waiting for.

The Intel 8087 has the capability to multiply 32-bit and 64-bit floating point numbers approximately 100 times faster than the 8088 using software routines — thus speed and precision in arithmetic, logarithmic, and trigonometric functions are increased.

The HP 45885A provides additional horsepower to the HP 150 II in scientific/real number intensive applications. Third-party packages (like Symphony™ II and AutoCAD) run significantly faster with the 8087 installed.

The product consists of a board and a software diskette. The board plugs into a special socket on the HP 150 II processor board; it does not take up an I/O slot. Thus it cannot be retrofitted in the HP 150A/B owing to hardware limitations. The software

diskette contains updated Pascal and FORTRAN Runtime Libraries for version 3.13 of these compilers.

The co-processor is supported by the Pascal (HP 45447D), Lattice C (HP 45452D) and FORTRAN (HP 45449A/D) compilers and by the MS™-DOS MacroAssembler. FORTRAN and Pascal programs developed using version 3.13 (HP 45449A and HP 45447D respectively) will need to be relinked using the updated runtime libraries available on the diskette. Lattice C (HP 45452D) and FORTRAN ver. 3.2 (HP 45449D) programs need not be relinked — they will automatically take advantage of the 8087 when it is installed.

The 8087 will be transparent to the user (designed to be 100 percent compatible with existing HP 150 application programs).

The HP 45885A will be offered as a field-installable board-level accessory — it must be installed by an HP CE or authorized HP dealer. It will be available on the July 1 HP Price List.

Symphony™ is a US trademark of Lotus Development Corporation.

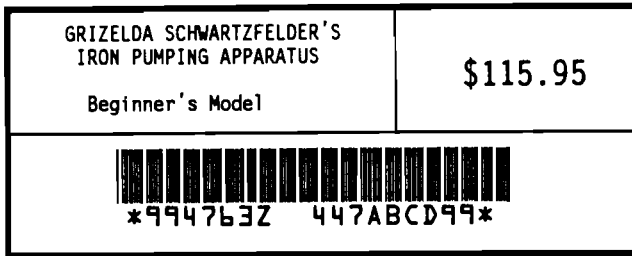
New bar code and OCR A font cartridge for HP LaserJet printer

On July 1, the bar code 3 of 9 OCR A font cartridge (92286W - 3 of 9/OCR A) for the HP LaserJet printer became available. The 92286W font cartridge includes the following fonts:

Font	Orientation	Pitch (cpi)	Point
Letter Gothic Medium (Roman 8)	Portrait	10	14
Letter Gothic Medium (Roman 8)	Portrait	16.66	9.5
OCR A Medium	Portrait	10	12
Bar code 3 of 9 Medium	Portrait	9.3	12
Bar code 3 of 9 Medium	Portrait	4.6	12
Line Draw Medium	Portrait	10	12

The 92286W font cartridge has the capability of printing tickets or labels with bar code 3 of 9, OCR A or bar code 3 of 9 and OCR A (milspec 1189 or log-

mars). A print sample of a ticket using OCR A, bar code 3 of 9 (9.4 cpi) and line draw is shown below:



Below is a list of the font cartridges available for the HP LaserJet printer:

P/N	Cartridge name
92286A	Courier
92286B	TMS Proportional 1
92286C	International 1
92286D	Prestige Elite
92286E	Letter Gothic
92286F	TMS Proportional 2
92286G	Legal Elite
92286H	Legal Courier
92286J	Math Elite
92286L	Courier Portrait and Landscape
92286M	Prestige Elite Portrait and Landscape
92286N	Letter Gothic Portrait and Landscape
92286P	TMS Roman Portrait and Landscape
92286Q	MEMO 1
92286T	TAX
92286W	3 of 9/OCR A

The HP LaserJet printer font cartridges can be ordered through Direct Marketing Division. (See page 3 for ordering numbers.)

Replacement HP LaserJet printer supplies available

HP's Direct Marketing Division (DMK) is making it even easier for you to maintain your HP LaserJet printer's productivity. Beginning this month, DMK will be stocking the following replacement supplies:

P/N	Description
92285Q	Output print tray
92285R	Auxiliary print tray
92285S	Manual print tray
92285T	Service kit (contains two separator belts and two felt cleaner pads)

For fast service, you can call DMK's Direct Order phone numbers listed on page 3.

5-in-1 HP ThinkJet printer accessory kit

To get you off to a great start or keep you going with your HP ThinkJet printer, Direct Marketing Division has selected and bundled five products into one convenient package that comes with an easy-access carry handle.

With this special kit, you save time and money. When you call any of our Direct Order phone numbers (listed on page 3), simply state one product number (P/N 92261D) and receive all five products:

- Two print head ink cartridges (prints approximately 1,000 pages).
- One space-saving acrylic printer stand (holds 500 sheets of paper).
- One custom-fit, water-resistant polycotton dust cover.
- 500 sheets of fanfold paper (Finished size: 8½ x 11).
- 500 sheets of individually-cut paper (8½ x 11).



GENERAL

Delete-manuals option for BASIC and Pascal

The BASIC 3.0 and Pascal 3.0 Language Systems now have a delete-manual option (Opt. 100) for their Right-to-Reproduce products. This gives a discount to users who order multiple copies of the software if they do not need the documentation supplied with the product. Users must buy one (full price) "A" product to get the "R" product discount and Option 100.

Following are the order numbers for Option 100 and the discounts.:

P/N	Product
98613R Opt. 100	RTR BASIC (Delete manual)
98615R Opt. 100	RTR Pascal (Delete manual)

HP 1000

HP 1000 A-Series LAN now available for OEM development

The HP 12079A LAN/1000 Direct Driver Access (DDA) and HP 12076A LAN/1000 Link are now on the HP Price List. DDA provides users with the necessary information to interface their customized networking software to the driver contained in HP LAN/1000 Link.

The DDA product is specifically designed for OEMs and sophisticated end users who want to tailor their own networking software and communicate over a local-area network (LAN). The user should be very knowledgeable with the RTE-A operating system and IEEE 802.3 protocol before considering this product.

Along with the introduction of the DDA product is the HP LAN/1000 Link product. The LAN/1000 Link product provides the necessary hardware to enable an HP 1000 A-Series computer to communicate over a 10-Mbit/sec IEEE 802.3 or Ethernet Rev. 1 LAN.

Included with the hardware are the interface driver, node-management software, and installation manual. The LAN/1000 Link joins the growing line of HP AdvanceNet products in providing yet another system-to-system communication capability.

The LAN/1000 Link provides two major benefits: a low connection cost per node with a high data-transfer rate and the ability to communicate with other vendors' equipment. The LAN/1000 Link provides a single interface to communicate with up to 100 nodes residing on a single 500-meter LAN segment. This provides an economy over point-to-point interfaces, which require a separate interface card for each node. In a four-node point-to-point star configuration, the LAN provides a 20 percent cost savings and in a fully connected four-node network, the savings are 50 percent. The IEEE 802.3 LAN standard implements a bus topology and Carrier Sense Multiple Access with Collision Detection (CSMA/CD) contention scheme for accessing the LAN. Once the data has access to the LAN, information can move at a rate of 10 Mbits/sec along the cable. Actual performance will depend on the user-written networking software, CPU utilization, LAN utilization, and size of data packets.

HP AdvanceNet products are designed and built on a firm commitment to both industry and defacto standards. Because of this commitment, you now have the ability to write software to communicate not only with other HP 1000 A-Series computers but also with other vendors' equipment that conforms to the IEEE 802.3 or Ethernet Rev. 1 standards.

P/N	Description
12076A	HP LAN/1000 Link Includes interface card, card connector cable, six-meter FEP Attachment Unit Interface cable, Medium Attachment Unit, and installation manual.
Opt. 001	Deletes AUI, MAU, and IEEE 802.3 card connector cable. Adds Ethernet card connector cable.
Opt. 022	Link software on CS-80 Linus cartridge.
Opt. 044	Link software on micro floppies.
Opt. 051	Link software on 1600 bpi magnetic tape.
Opt. 241	Deletes AUI and MAU.

“Introduction to RTE”: a new course for HP 1000 general users

If you are a new HP 1000 RTE-A or RTE-6 general user, “Introduction to RTE” will teach you the basic concepts needed to understand and effectively utilize the system’s real-time operating system (RTE). You will learn key information about the interactive use of CI, Edit/1000, and compilers. Through the many labs built into the course, you will become familiar with key features of the system, such as real-time capabilities and the hierarchical file structure. You will also create and modify files using Edit/1000, use fundamental CI commands, and compile, link, and run programs in FORTRAN and Pascal.

Introduction to RTE (P/N 22950B)

Who should attend: RTE-A and RTE-6 general users, *not* programmers.

What you will learn: The tools necessary to interact with the RTE operating system.

Course content: Introduction to RTE, The File System, Fundamental CI commands, Device Input/Output, Compilers and LINK/1000.

Prerequisites: None

Length: Three days

Note: This course replaces “Introduction to HP 1000 Computers” (P/N 22951C).

Contact your HP sales rep for course dates and times.

HP 9000

HP-UX applications support international keyboards

Several of the new personal productivity software packs for the HP Integral PC and the HP 9000 Series 200 HP-UX computers now support international keyboards using the Roman eight character set. The software packs include:

P/N	Software
45524G/H	MicroTrak™/HP-UX
45515G/H	TK!Solver®/HP-UX
45420G/H	MemoMaker/HP-UX
45413G/H	Calculator/HP-UX

Although the applications and manuals are not localized, you can provide input to the program using foreign language characters and keyboards.

TK!Solver® is a US registered trademark of Software Arts Corporation.

MicroTrak™ is a US trademark of SofTrak™ Systems.

New HP 9000 Series 500 application briefs

Hewlett-Packard has completed another application brief in its series on the interfacing of other manufacturers’ equipment to the HP 9000 Series 500 computer. The current brief covers the Versatec V-80 printer/plotter.

The complete list of briefs now available includes:

P/N	Description
5957-7945	Versatec V-80 printer/plotter
5957-7936	Tektronix 4107/4109 Computer Display
5957-7937	Tektronix 4115B Computer Display
5957-7938	Raster Technologies Model One/80
5957-7939	Silicon Graphics IRIS 1000

In each case, HP has tested the basic hardware/software needed to permit the device in question to operate with an HP 9000 Series 500 computer and



then described it in the brief. HP does not actually support the device or its connection. All briefs may be ordered from Direct Marketing Division (see page 3).

New HP 9000 Series 200 communications tool for unattended measurement

Available only in Europe

Do you have a need to access a spectrum monitoring system from a remote location to allow troubleshooting of a satellite earth station network?

Or, do you want to do remote, unattended data collection, and yet have the ability to return data to a central site?

Hewlett-Packard has introduced a new communications tool that helps solve these and other unattended measurement problems.

HP 46190A Controller to Controller Communications Pac is a set of routines written in HP 9000 Series 200 BASIC 3.0 that allows the transparent, error-corrected communication between Series 200 computers via modems and the public telephone network. In the simplest measurement system, one of two computers would be the controller of an HP-IB measurement system, while the other would be a remote control site with no instrumentation. The network can be expanded to include up to 14 computers in a general network configuration, where any controller can communicate with any other.

The communications can be used separately within a user-written program structure, or the user's measurement application can be incorporated into the optional shell provided with the product. In either case, the HP 46190A provides the control of call connection, data transmission and error correction in a way that is completely transparent to the application program.

The price of the HP 46190A includes two days of consulting with an HP systems engineer (SE) on any aspect of the design and implementation of an HP 46190A-based system. We estimate that this consulting should bring the application program writer to the point where all the major decisions have been made for his system, and the rest of the task is a straightforward coding exercise. HP 46190A Option 001 deletes the SE consulting. HP 46190R allows a previous purchaser of HP 46190A to make one additional copy to expand his or her system.

For more details, contact your HP sales rep.

International versions of HP Integral PC Bus Expander now available

International versions of the HP 82904A Bus Expander for the Integral PC are now available. The bus expander cabinet allows you to increase the number of I/O ports provided for on the Integral PC. Five extra ports are contained on the bus expander cabinet. Each international version of the HP 82904A Bus Expander contains the specific power cord for each designated area as well as multilingual installation guide.

Ordering information

P/N	Bus expander version
82904A	US, Canada, Japan
82904AK	Intercon
82904AY	Denmark
82904AB	Europe
82904AQ	Switzerland

HP Integral PC sales leveraged with third-party software

Where does a major product breakthrough like the new HP Integral PC, with multi-tasking HP-UX software, HP BASIC, HP-IB, all packaged in a transportable configuration, find a home?

At a major oil drilling and oil rig service company, test engineers need several computer products to perform a variety of tasks. They need inexpensive laboratory

Technical Computers

computers to control HP-IB bench instrumentation and perform process control functions and also have requirements to utilize the local DEC VAX scientific computer for experimentation and program development. During the business day they must communicate with district offices and headquarters over the corporate network that uses a UNIX™ operating system. Furthermore a portable computer is needed to take to oil rigs worldwide for instrument servicing.

During the course of a laboratory experiment, engineers at the country's largest chemical company need to take readings from test fixtures, send the results to the host DEC VAX scientific computer for reduction and analysis, and then bring the information back to the experiment for further work.

In both scenarios, the needs are similar — data collection, data analysis, and data communications to and from a host scientific computer. In many scientific accounts around the world, the needs and opportunities repeat themselves.

The HP Integral PC, with the VT/E terminal emulator software from P2/i, offers an excellent solution for the above companies. VT/E is a TYMNET-certified, multipurpose terminal emulation product that allows the HP Integral PC to emulate the popular VT100 terminal as well as "dumb" terminals. Additionally, VT/E transfers files between the HP Integral PC and VAX computers (running VMS or a UNIX operating system), and between the HP Integral PC and other UNIX computers.

The multitasking feature allows for data collection, data analysis, and data communications to be performed simultaneously, on one computer. The HP Integral PC offers many solutions, to many needs, in one affordable, capable package.

For information contact Mr. John Palley, P2/i, telephone 505-292-6668 or 505-822-8585, or TWX 9109891157 BFANM.

UNIX is a trademark of AT&T Bell Laboratories.



SMALL BUSINESS COMPUTING

HP 250 application software obsolescence

Effective January 1, 1986, Hewlett-Packard will remove the following HP 250 application software products and their local language options from the HP price list:

P/N	Description
FIN/250	HP 45200A
APGL/250	HP 45199A
GA/250	HP 45210A
OM/250	HP 45190A
MFG/250	HP 45180A

These software packages were designed to provide Value-Added Resellers (VARs) with a "starter set" of applications software. Each package includes source code, technical documentation, and installation instructions. The most recent version of the software and manuals will be available for a five-year support period and HP SEs will be available on a time and material basis.

Over the years, our VARs have added many powerful features to the original application software, enhancing and modifying it to meet changing customer and industry requirements. The above listed products have, therefore, been superseded and will be made obsolete. New HP 260 customers looking for pre-developed solutions in these areas should evaluate purchasing or cross-licensing one of the high quality products available from HP 250 and HP 260 VARs.

Obsoleting the HP 250 SPU

Orders for the HP 250 Small Business Computer System decreased substantially following the successful introduction of the HP 260. The high volume of orders for the HP 260 indicate an overwhelming preference for the new system. As a result, the HP 250 SPU, HP 45260A, will be removed from the HP Price List on January 1, 1986 and will not be manufactured after that date.

The HP 260 SPU, HP 45261D, is fully compatible with HP 250 application software. The HP 250 SPU, HP 45260A, will be supported through December, 1990.

HP 260 cabling corrections

The new *HP 260 Configuration Guide* and *Price Guide* list several incorrect cable numbers for HP 260 configurations. Please make the following corrections in your guides.

- *Printers* — RS-232-C connections must use the 13242M (Europe) or 13242N (US) cable in direct-connect and modem-connect configurations. This applies to all HP 260 supported printers: HP 2601/2A, 2225DX, 2563A, 2686A, 2687A, 293XA, and 82905B.
- *Plotters* — Please use the 13242M/N cable for the HP 7470A and 7475A plotters in direct-connect and modem-connect configurations.
Please order the 17355D cable for the HP 7550A plotter (this cable replaces the 31391A previously listed).
- *Disc drives* — The HP 260 Model 15 Package, HP 45290A, now includes (at no charge) a one-meter HP-IB cable to connect the HP 9133D to the SPU.

For Model 15 systems ordered outside the HP 45290A Package, order separately the 10833A or 10833B (one or two meter HP-IB cable).

HP 3000

More time for eligible HP 3000 users to obtain the MPE V/E firmware at no charge

HP 3000 users who accepted delivery of a high-performance HP 3000 Series 39, 42, or 48 with MPE V/P and disc caching by December 31, 1984, now have an extra year to obtain the no charge MPE V/E firmware. Based on feedback that many users need more time to move their systems to MPE V/E software and firmware, HP will offer the MPE V/E firmware upgrade at no charge using a negative dollar option to be included on the August 1 HP Price List.

How the program has changed

The MPE V/E firmware program is composed of two parts, a system eligibility deadline and a no charge

firmware board delivery deadline:

- Any user who accepted delivery of a high-performance Series 39, 42, or 48 with MPE V/P and disc caching by December 31, 1984, is eligible to receive MPE V/E firmware board (P/N 30400A) at no charge. This eligibility deadline has not changed.
- Eligible users must order and accept delivery of the no charge firmware board by July 31, 1986, instead of the former promotion deadline of July 10, 1985. If the user does not accept delivery of the board by the cutoff date, they forfeit the right to the no charge firmware board.

What to do about orders

Are you a user who is eligible to receive the firmware board under the program? It is very important that eligible users understand that you have until July 31, 1986, to accept delivery of the no charge firmware board. Any user who has ordered the board, but not accepted delivery, may cancel the order and take delivery at a later date before the new deadline.

There are several things you must note:

- Users do not need the new firmware to run a release of the MPE V/E operating system. Releases of MPE V/E will run on the old firmware and users can get much of the benefit of MPE V/E expanded tables functionality. Therefore, plan your move to MPE V/E software; get comfortable with the software; then add the firmware if and when you need it. Remember, MPE V/E is, and will continue to be, supported on both firmware versions.
- MPE V/E is the basis for future operating system, subsystem, and application development. There will not be another release of MPE V/P. All future HP 3000 system software, subsystem, and peripheral enhancements will only be supported on releases of MPE V/E. Note that you will not necessarily need the MPE V/E firmware in order to take advantage of these future capabilities.
- HP has put tremendous efforts during the past year into quality engineering to ensure that you are protected from software problems. You should note that MPE V/E, and T-MIT (the second release of MPE V/E) are running reliably on thousands of HP 3000s. The Series 37 runs only T-MIT and we have hundreds of satisfied customers already.

Furthermore, T-Delta-1 (the third release of MPE V/E) has been released for distribution to users. It

supports many new subsystems and applications including FORTRAN/77, the Personal Productivity Center, HP/Copycat, and enhanced programmer productivity and graphics tools.

HP 3000 media products restructured

Restructure not effective in Europe

The media products ordered in conjunction with HP 3000 SPUs (to designate the version and type of Fundamental Operating Software required) have been restructured. These products will be related to the base operating software (rather than SPU type). Currently, there are two base operating software types that will be supported by the new media product structure: MPE V/E and MPE V/P. Therefore, there will be two media products. When placing an order for either of these media products you *must* specify three options. These options designate media, version, and SPU type.

HP 3000 MPE V/E media product

P/N	Opt.	Description
51450A	022	CS80 cartridge media
	051	1600bpi mag tape media
	200	Latest FOS version
	210	MPE V/E S-MIT (2412)
	220	MPE V/E T-MIT (2448)
	230	MPE V/E T-DELTA-1 (2510)
	600	Series 37, 37XE SPU
	601	Series 39 SPU
	602	Series 4X SPU
	604	Series 6X SPU

HP 3000 MPE V/P media product

P/N	Opt.	Description
51451A	022	CS80 cartridge media
	051	1600bpi mag tape media
	200	Latest FOS version
	210	MPE V/P-DELTA-1 (2424)
	601	Series 39 SPU
	602	Series 4X SPU
	604	Series 6X SPU

If you need ordering information, or have other questions related to ordering, contact your HP sales rep.

HP-IB extender support expanded

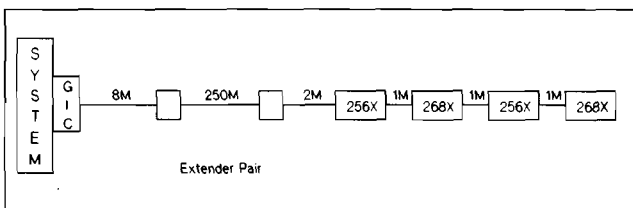
In July 1984, the 37203A HP-IB extender with Option 010 was announced to support HP 2688A printers on the HP 3000. The major benefit of the HP-IB extenders is to increase the distance a printer can be from the processor, making printed output more accessible to end users in an office, manufacturing, or dedicated "printer room" environment. With the completion of configuration testing, we are now announcing expansion of HP-IB extender support to include HP 2563A, 2565A, 2566A and 2680A printers.

Configuration limits

With the exception of the HP 2688A, the maximum number of system printers supported per system remains the same when using the HP-IB extender (see table for system printer maximums). The Series 4X can support three HP 2688As with the HP-IB extender. The Series 6X can support up to five HP 2688s, three via the extenders and two connected directly to a GIC.

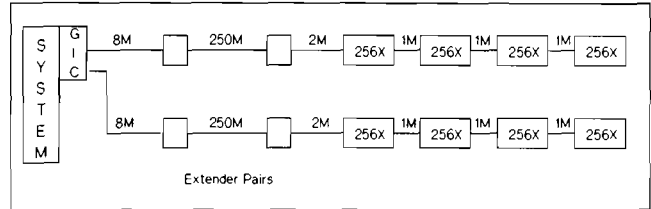
The following set of rules must be adhered to when using the extender:

- 1) HP-IB extenders are supported on the HP 3000 Series 4X and 6X systems only, using MPE V/E (G.A.00) or later. (Option 010 extenders sold before March 15, 1985, connecting HP 2688s running Q-Delta-2 (C.01.02) MIT or later are still supported.)
- 2) A maximum of two GICs per system may have HP-IB extenders connected to them and these GICs become dedicated, low-speed channels.
- 3) A maximum of four printers are supported on a pair of extenders, with any combination of HP 2563As, 2565As, 2566As, 2680As, and 2688As, *except* that no more than two printers may be non-impact (HP 2680A or 2688A).



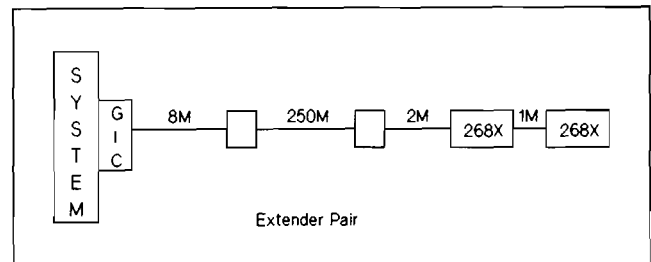
Note: A system with two GICs, each with one extender pair follows same rules. Do not exceed system printer maximums.

- 4) Two sets of extender pairs may be used on a single GIC only for combinations of HP 256XA printers.



Note: A system with two GICs, each with two extender pairs follows same rules. Do not exceed printer maximums.

- 5) When configuring the HP 268X printer with extenders, one pair of extenders is supported on a single GIC.



- 6) Coax cable lengths of up to 250 meters are supported between an extender pair. HP-IB cable lengths of up to two meters are supported between the extender and the first printer, with a maximum of one meter between each additional printer. The cable which comes with the printer can be used between the GIC and the first extender pair; coax cables and HP-IB cables connecting the extender to the first printer and connecting additional printers must be ordered separately from Direct Marketing Division.

- 7) Each printer should be configured to contain one device load. If you have questions, have your HP sales rep contact Boise Division On-Line Support.

Performance

The HP 2680A and 2688A printing performance will degrade when printing graphics or text reports generated from HP Office Automation application software (HP Word, TDP, Slate). Depending on the job to be printed, the printer's speed can range from 3 ppm to rated speed.

Availability

The 37203A HP-IB extender is available immediately. Extenders must be ordered in pairs and Option 010 is required on the HP 3000.

System printer maximums

Printer	HP 3000	
	Series 4X	Series 6X
HP 2563A	4	4
HP 2565A	4	4
HP 2566A	4	4
HP 2680A	2	2
HP 2688A*	3 w/extender	5 w/extender

Note: Regular maximums for the HP 2688A are two on the Series 4X and four on the Series 6X; maximums are increased with extenders.

HP 150 II personal computer supported as new HP 3000 Series 68 console

The HP 150 II personal computer, using specially written software, is the new system console for the HP 3000 Series 68. Orders for the HP 150 II as the console are being accepted as of July 1, with shipments beginning in July. The console communication software, which enables the HP 150 II to function as the system console, will be shipped free of charge on a 3½-inch floppy disc with all new Series 68s.

The basic supported console configuration must include the HP 150 II, disc drive, cable, and console software. Product numbers are:

P/N	Description
HP 45851A*	HP 150 II Base System
HP 9123D	Slave dual double-sided 3½-inch floppy disc drive
<i>One of the following cables:</i>	
13242M	European modem cable
13242N	US modem cable
13242X	RS-232-C interface cable for Series 68 ATP
13242P	RS-422 interface cable for Series 68 ATP
	Series 68 Console communication package

* Use appropriate suffix to order localized version of HP 150 II (e.g. 45851AD for Germany)

† Console Communication Software Package shipped free with Series 68 manual set.

Accessories for the HP 150 II, such as HP Touch, are not supported. The HP 150 II with the Communication Software Package is supported only as a dedicated system console on the Series 64 and 68. The console communication software will be shipped automatically with new Series 68 orders, so there is no need to order it separately.

Benefits: lower cost plus printer support

The new console, featuring a 12-inch display and advanced ergonomic features, offers a significant savings over the existing console, the HP 2647F. As an additional new feature, a choice of two printers will be supported for hard-copy console output. The HP 2225A ThinkJet printer provides a low-cost solution for non-print-intensive environments, while the HP 2934A dot-matrix printer is the recommended printer for all other applications. These printers are supported via HP-IB only.

HP 2647F supported through 1995

Of course, the existing console, the HP 2647F, will continue to be supported. In fact, the HP 2647F is part of the new 10-year post-manufacture support program, with support guaranteed through 1995. The HP 2647F will be removed from the HP Price List on August 1, 1985.

Announcing HP Map/3000

HP Map is a quick, easy-to-use business-map maker for the office professional. With HP Map, any HP 3000 business computer user can display geographically-based data in map format.

Both zone maps (showing regions and distributions) and dot maps (showing locations and quantities) can be created by simply supplying data to a "base" map. Combination maps, which are zone and dot maps combined, can also be created. Data can be entered at the keyboard or read from an SD (self-describing) or ASCII file.

Two libraries are included with HP Map: a library of base maps (including the USA, each state by county and three-digit zip code, the world, and many other regions and countries) and a library of symbols for use as location markers.

Any HP 3000 figure file can be used as a marker in HP Map. HP Map can scale markers automatically to indicate quantitative value. Users can create their own base maps by editing existing base maps or digitizing



new maps with a graphics tablet. HP Map supports the HP 17623A graphics tablet.

Maps created with HP Map can be displayed on an HP graphics terminal, plotted on paper or transparency with an HP plotter, included in an HP Draw drawing, merged with a textual document (TDP/3000 and HP Word/3000 documents) for printing on an HP laser printer, and sent via HP DeskManager to other HP 3000 users.

HP Map is an excellent tool for the business professional or anyone else who needs to analyze and present geographical data in such fields as marketing, sales, planning, operations, finance, and advertising.

Hardware environment

The minimum hardware system recommended to implement HP Map is an HP 3000 Series 37, 39, 40, 42, 44, 48, 64, or 68 with 1 Mbyte of memory (terminal baud rates greater than 2400 are supported on all these systems). The amount of memory actually required is dependent on the overall system load and the customer's expectations regarding system performance and terminal response time. Consultation with your local HP sales office is recommended.

Supported terminals

- For on-screen display and map definition: HP 2623A, 2625A with graphics Option 523, HP 2627A, 2628A with graphics Option 523, and HP 150 personal computer.
- For map definition only: HP 2382A, 2622A, 2624A/B, and 2626A/W.

Supported plotters

- HP-IB: Configured as a shared peripheral from an HP 2625A or 2628A terminal (with Option 523/426), or an HP 150 personal computer.
Vector pen plotters: HP 7470A Option 002, HP 7475A Option 002, HP 7550A, 7580A Option 002, HP 7585A Option 002, HP 7580B, 7585B, and 7586B.
- RS-232: Configured in "eavesdrop" mode between terminal/workstation and computer, or can be directly connected to a terminal port.
Vector pen plotters: HP 7470A Option 001/300 (eavesdrop cable HP 17455A needed), HP 7475A Option 001 (eavesdrop cable HP 17455A needed), HP 7550A, 7580A Option 001 (no eavesdrop), HP 7585A Option 001 (no eavesdrop), HP 7580B, 7585B, and 7586B.

Note: HP Map does not necessarily support all hardware features of the plotters listed above.

Supported printers

The following printers require the HP 3000 printer graphics support software (P/N 36583A) for graphics output (the HP 2680A also requires graphics Option 060 and 1 Mbyte memory Option 521): HP 2563A, 2565A, and 2566A line matrix printers; HP 2608S dot matrix line printer; HP 2680A laser printing system, and HP 2688A laser page printer.

Software environment

- MPE V operating environment.
- VPLUS/3000 (part of the fundamental operating software).

Supported data communications

- Multipoint terminal software.
- DSN/DS between HP 3000s.

Ordering information

P/N	Description
	<i>Software</i>
32113A	First copy of software
32113R	Right-to-copy once (with sub-license)
	<i>Software support</i>
99106B + H00	RCS (Response Center Support)
99106B + T00	AMS (Account Management Support)
32113V + S00	SMS (Software Materials Subscription)
32113V + Q00	MUS (Manual Update Service)
	<i>Customer training</i>
(in Reference Guide)	Self-paced
N/A	Classroom
	<i>Documentation</i>
32113-90001	Reference Guide
32113-90002	Mapping Applications Casebook

HP Map is structured into two products, 32133A and 32133R. You must order an option with the A and R products as follows:

- Option 310 for HP 3000 Series 37-42 computers.
- Option 315 for the upgrade from Option 310 to 320.
- Option 320 for all other HP 3000 computers.

The HP Map data sheet is orderable using P/N 5954-0450.



GENERAL

HP 13287A Thermal Print Mechanism removed from HP Price List

Effective July 1, 1985, the HP 13287A Thermal Print Mechanism (TPM) will no longer be available to OEM customers as an internal print mechanism. Since January 1979, technical obsolescence of this mechanism has made it uncompetitive against technologies like the HP ThinkJet printer. This product, in addition to being supplied to OEMs, was also used in several HP 262X terminal products as Option 050. It will continue to be available as this option throughout the life of the HP 262X terminal family.

MASS STORAGE

HP 7914CT: HP's new disc/tape subsystem

The HP 7914CT is Hewlett-Packard's new 132-Mbyte high-performance dual-controller disc/tape subsystem. This disc/tape package combines the HP 7914 disc drive with the new HP 9144A cartridge tape drive in a 720mm cabinet. The HP 9144A cartridge tape (CT) drive, with read-after-write capabilities, provides improved data transfer reliability, and the CT cabinet makes it one-third quieter than the HP 7914P.

System support

HP 3000 users with the T-MIT operating system will be glad to hear that the HP 7914CT costs less than the HP 7914P Opt. 001 (dual-controller configuration). Unlike the HP 7914P's tape drive, the HP 9144A tape

drive doesn't require a dedicated GIC (general interface channel). Thus, HP 3000 users may save even more by using the CT because they can put a printer or plotter on the same GIC with the HP 9144A tape drive.

Users with HP 9000 Series 500 CPUs may prefer the HP 7914CT over the HP 7914P STD (shared controller configuration). The HP 7914CT and the HP 7914P STD are the same price, but the CT has file backup performance improvements over the STD version.

HP 1000 A-Series CPUs with RTE-A A.85 operating systems now support both the HP 7914CT and the HP 7914P STD configuration. The HP 7914CT is the same price as the STD, but the CT has a 40 percent improvement in file-backup performance.

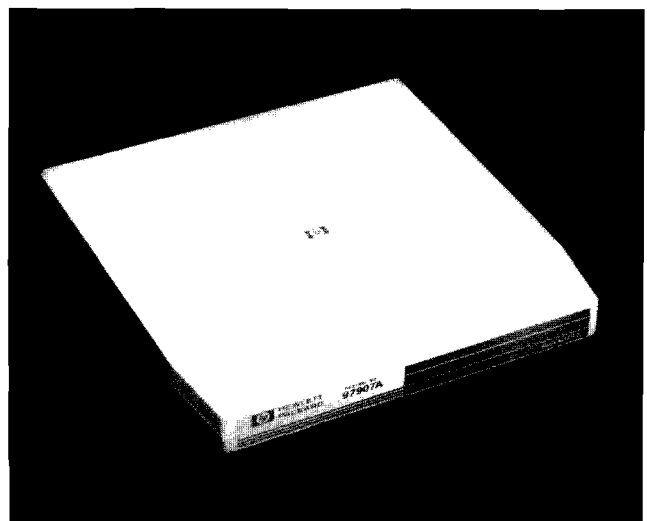
Deep discount

HP's model 7914CT disc/tape drive is offered on the OEM "A" deep discount schedule.

For more information, contact your HP sales rep.

20.5-Mbyte removable disc cartridge available

HP's Direct Marketing Division (DMK) now offers a 20.5-Mbyte removable disc cartridge supported on the HP 7907A fixed/removable mass storage subsystem (P/N 97907A).



The new 20.5-Mbyte removable disc cartridge is available from DMK.

Applications

The new eight-inch removable disc cartridge is ideal for users in:

- CAD/CAM industry, which frequently collects large volumes of data that need to be interchanged quickly and easily.
- Automated testing environments, which require quick-system reconfiguration.
- Security and intelligence fields, which require the easy retrieval and safeguarding of information on a disc.
- Data logging, which requires an easy-to-handle removable disc that will record and take data off line quickly.

A pushbutton, backup feature built into the HP 7907A drive allows data to be copied from the fixed to the removable disc and vice-versa in less than three minutes.

You may order the 20.5-Mbyte disc through DMK's Direct Order phone numbers listed on page 3.

HP 7920/7925 disc products to end production

HP has announced the end of production for the HP 7920 and 7925 disc drives.

The present plan is to remove the products from the HP Price List on August 1, 1985. After August 1, the products can be ordered on special quotes, minimum quantities of 30. However, refurbished drives will be available through May 31, 1986, in any quantity. If you have not heard of the end of production of these products, contact your HP sales rep.

The support period after end of production (discontinuance) will be ten years beginning June 1, 1986. This will offer you ongoing protection for your investment. At the end of this ten-year period (June 1, 1996), the products will be obsoleted.

HP 7914TD discontinued

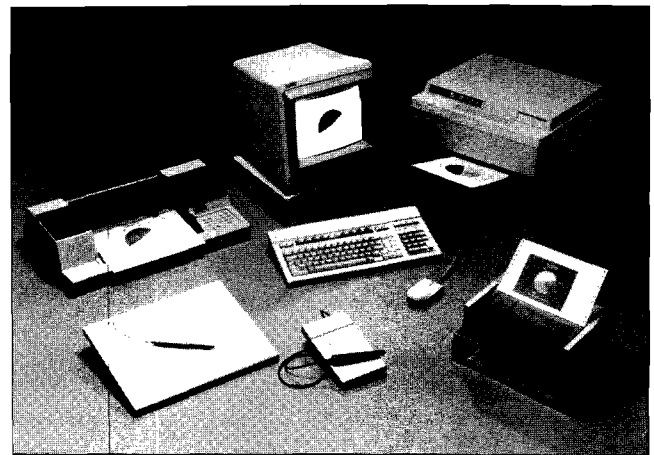
HP wishes to remind you that the HP 7914TD disc/tape drive will be removed from the HP Price List on November 1, 1985. This means that the last orders for the HP 7914TD will be accepted in October 1985, for shipment by May 1, 1986. The best alternative for the HP 7914TD is either the HP 7914ST or the HP 7914P and the HP 7970E Opt. 226.

The obsolescence of the HP 7914TD was first announced in conjunction with the obsolescence of the HP 7970 family of tape products. For further details, contact your HP sales rep.

TERMINALS

Introducing the HP 2393A graphics terminal

The HP 2393A is the lowest priced graphics terminal from HP ever. The HP 2393A is especially designed for HP 1000, HP 3000, and HP 9000 systems users, but also works on non-HP systems such as DEC.



The HP 2393A graphics terminal

The HP 2393A offers an array of powerful features:

- High quality graphics — Bit-mapped vector graphics on a high-resolution display offering selectable 512H x 390V or 640H x 400V pixels resolution, polygonal area fill, and rubberband line for faster drawing speed and lower system and datacom overhead.
- Input/output flexibility — The HP-HIL keyboard, same as the one used on the HP 150 II personal computer, lets you daisy chain an impressive array of user-friendly input devices — HP Touch, mouse, graphics tablet, and bar code reader. The optional peripheral ports, RS-232-C, Centronics or HP-IB interfaces, and the composite video interface allow you to connect to output peripherals of your choice — printers, plotters, film recorders, large-screen projectors.
- Low cost of ownership — Using state-of-the-art technology, the HP 2393A has achieved significant reliability improvements.
- Instant software leverage — The HP 2393A is backward compatible with the HP 2623A graphics terminal. The terminal ID field in the HP 2393A can be configured as an HP 2623A or 2620A to run graphics applications written for the HP 2623A or 2628A respectively, without modifications on HP and non-HP systems.
- Complete independent alphanumerics — The HP 2393A offers attractive features such as up to 12 pages of display memory, horizontal scrolling to 160 columns (as in the HP 2626A terminal), line drawing, math, italic and bold character sets, and double-high, double-wide character enhancements.
- Ergonomics and ease of use — The HP 2393A incorporates a compact, modular design with integral tilt and swivel for comfortable viewing. It also offers easily accessible front panel power, brightness and contrast controls, as well as a detachable low-profile keyboard.

For ease of use, the HP 2393A provides 20 function keys, 12 of which are user definable. A screen-saver feature shuts off the display after a user-defined period of screen inactivity to prolong the life of the display.

The HP 2343A provides Tektronix 4010/4014 compatibility and a no-cost ANSI X3.64 option, as well as support by major third-party software vendors, such as ISSCO, Precision Visuals, SAS Institute and Megatek.

Introducing the HP 2394A data entry terminal

The HP 2394A delivers fast terminal response times and reduces data communication traffic — packing more performance in your HP 3000 systems at a lower price. Similar in features to the HP 2624B, the HP 2394A has more memory, displays screens faster, and is priced lower than the HP 2624B.

Providing all the features of the highly-successful HP 2392A display terminal, the HP 2394A offers enhancements specifically designed to make it your data-entry choice for HP 3000 VPLUS applications. Packaged in the HP 2392A's extremely popular ergonomic design, the HP 2394A offers many of the HP 2624B's data-entry features: local forms cache, eleven local edit checks, modified data tag transmission, transmit-only fields, and menu aids for forms design.

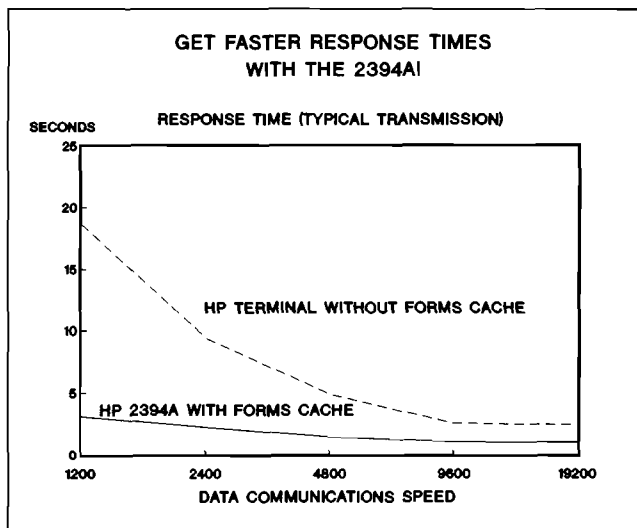
In addition to these HP 2624B features, the HP 2394A offers a number of new distinctive features:

- More cache memory — 130 blocks vs. the HP 2624B's 70 blocks.
- More display memory — the HP 2394A comes with eight pages standard vs. the HP 2624B's four pages.
- Faster display speed — the HP 2394A displays forms up to three times faster than the HP 2624B.
- Flexible design of a form's tab sequence.
- Menu aid to use the line drawing set (similar to the HP 2626A feature).

- Forms cache directory.
- Selectable print format.
- Select key disable.

A few of the HP 2624B features have not been included, namely multipoint, terminal bypass, internal printer, large-character and math-character sets, and datacom and self-test inhibits. By and large, the HP 2394A was designed as a replacement for the HP 2624B in most applications. The HP 2394A is backward compatible with HP 2624B application software. You can configure the HP 2394A's terminal ID field for either HP 2394A or 2624B, allowing you flexibility in using current HP 2624B system software.

The HP 2394A's local forms cache and modified data-tag feature can raise a user's productivity by reducing their wait time, especially at lower baud connections. This response time improvement is shown below for an average size form (1,500 characters) using HP Entry.



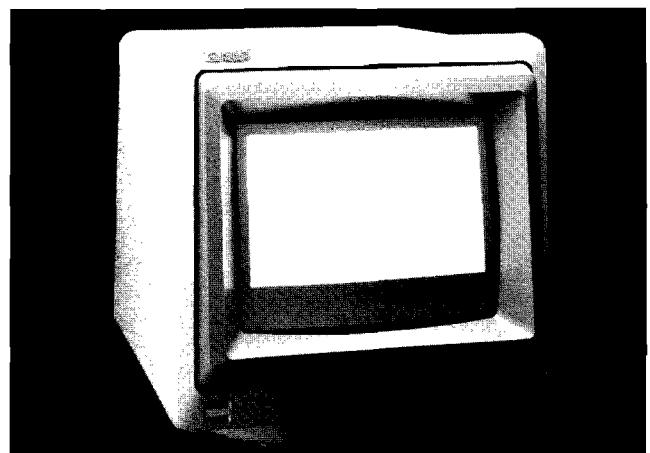
In addition, extensive local edit checks on the HP 2394A let the user know immediately when an error is made, so incorrect data is not sent to the system.

Leveraging your networking resources

With the forms cache, modified data tag, and local edit checks features, the HP 2394A can reduce datacom traffic up to 80-90 percent in a form transmission depending on the specific form and application. Networking resources such as multiplexers, leased lines, and X.25 connections can be used more efficiently to save equipment costs and operating expenses. The Modified Data Tag feature is compatible with HP/IBM Interactive Mainframe Facility software, making the HP 2394A an ideal workstation in those environments as well.

New monochrome monitor available

The HP 35731 monochrome monitor is a 12-inch, high-resolution, monochrome video display monitor. An excellent display for use with your Hewlett-Packard computer system or workstation, the Monochrome Monitor features an innovative ergonomic design and Hewlett-Packard quality and reliability at an affordable price. Support for the 35723A HP Touch Accessory is included as a standard feature on the monochrome monitor. (The HP Touch Accessory must be purchased separately.)



The HP 35731 monochrome monitor offers a 12-inch high-resolution display at an affordable price.

This monitor, which is currently used with the new HP 2393A graphics terminal, features:

- P31 green phosphor
- Available resolution is 800 x 400. (HP systems utilize 512 x 390 or 640 x 400).
- Analog composite video capable of providing 16 gray levels.
- HP-HIL support for the HP Touch Accessory
- Brightness and contrast controls, located conveniently on the front panel of the monitor
- Non-glare screen
- Integral tilt and swivel
- One-year warranty

Ordering information

P/N	Description
35731A	Monochrome monitor for US and Canada only (108-132V) 60Hz. Includes US power cord.
35731BB	Monochrome monitor — switch-selectable voltage; includes European power cord.
35731BK	Monochrome monitor — switch-selectable voltage; no power cord.
35731BM	Monochrome monitor — switch-selectable voltage; includes US power cord.
35731BU	Monochrome monitor — switch-selectable voltage; includes UK power cord.
35731BQ	Monochrome monitor — switch-selectable voltage; includes Swiss power cord.
35731BY	Monochrome monitor — switch-selectable voltage; includes Danish power cord.
<i>Note: The 35731B versions are UL recognized, but not UL labeled.</i>	
Accessories	
35723A	12-inch user-installable touchscreen bezel. Installation instruction manual included.
46020-60001	HP-HIL cable (consult literature of the HP system being used to determine if you need this cable).



Software Packages Available and Wanted

If you have a software package available for cross-licensing, or are looking for a package to cross-license, this section will help you. Your entry will appear for two months; the most recent additions are shaded. To list your company in the Cross-Licensing Classifieds (at no charge), see the address at the end of this section.

Software Packages Available

Industry: *Welding — Manufacturing*

Abstract: Optisoud 420 determines test conditions to avoid cold cracking. The program is written for the testing of C. Mn steels. It uses the implant test results and the thermic parameters TR 800-500 degrees to propose couples, welding energy, and preheating temperature. It is available for the HP-85/86 and HP 9000 Series 200.

Company Name: Center Technique des Industries Mécaniques

Address: 74 Route de la Jonelière
Boite Postale 957
44076 NANTES CEDEX
FRANCE

Phone Number: (16-40) 74-03-38

TELEX: 710 614

Contact Person: Louis Primot

Type of Distributor Wanted: Open, prefer A. W. S. member

Geographic Coverage: Worldwide

Industry: *Engineering and scientific*

Abstract: TEMPLATE is a full 3D graphics subroutine library. It is a computer-independent and device-intelligent software tool designed for the scientific and engineering marketplace. TEMPLATE runs on any 32 bit or larger machine and supports over 175 different graphics devices from dumb terminals to sophisticated workstations. Typical TEMPLATE applications include 3D mechanical CAD, structure analysis, molecular modeling, and finite element analysis among others, all of which are supported on 2D or 3D and batch or interactive mode.

TEMPLATE features a mnemonic user interface which shortens training and program time, and promotes easy recall of over 250 user callable FORTRAN subroutines. TEMPLATE includes 3D modelling, multiple coordinate systems, 3D perspective and orthographic viewing, 3D hierarchical display list support, 3D contouring and surface routines, metafile processing and 3D virtual device interface all of which utilize the graphics hardware capabilities or simulate them in software when possible. TEMPLATE also supports graphics input via logical device classes.

TEMPLATE is only part of the software product family of graphics solutions that TEMPLATE the software division of Megatek Corp. offers including 2D TEMPLATE, CON-TEMPLATE, DIMENSION-GKS, MICRO TEMPLATE, TK1-em, Workstation Model, the Post Processor, and PQ-Fonts.

Company Name: TEMPLATE, the Software Division of MEGATEX Corporation

Address: 9645 Scranton Rd.
San Diego, CA 92121
USA

Phone Number: (619) 455-5590

Contact Person: Rick Kreysar

Type of Distributor Wanted: Open

Geographic Coverage: Worldwide

Industry: *Cross-industry*

Abstract: SHOWDIFF is a file comparison utility for the HP 3000. SHOWDIFF can quickly and reliably document changes in program source code in a concise easy-to-read report. SHOWDIFF can help the HP 3000 user with version control, program testing, auditing, conversions, and tracking changes in third party software. SHOWDIFF is very capable and easy to use; and it is affordably priced. SHOWDIFF has been commercially available since 1983 and has hundreds of users worldwide. It is also an HP Plus product.

Company Name: NOI Systems

Address: Suite 405
1877 Broadway
Boulder, CO 80302
USA

Phone Number: (303) 447-0099

Contact Person: Stephen M. Kelley

Type of Distributor Wanted: HP 3000 software houses, Consultants

Geographic Coverage: Worldwide

Industry: *Structural engineering*

Abstract: STAAD-III is a comprehensive structural analysis and design program. Operational in either interactive or batch modes, STAAD-III accepts simple English commands to perform planar, 3-D, truss, frame, and finite element analyses. Inclusion of current AISC and ACI Codes and Tables allows for design and code-checking of steel shapes and concrete beams and columns. Other capabilities include: joint and member generation; bandwidth reduction; P-delta analysis; weld design; and routines for the creation of geometric plots. STAAD-III is also available on most major timesharing networks throughout the world and may be purchased with a complementary graphics program, STAADPL.

Company Name: Research Engineers, Inc.

Address: 9003-D Greentree Commons
Marlton, NJ 08053
USA

Phone Number: (609) 983-5050

Contact Person: Carol D. Hyde

Type of Distributor Wanted: HP 1000 A-Series OEM/Software Supplier.

Geographic Coverage: Worldwide

Industry: *Cross-industry — List Management*

Abstract: ListMaster/3000 is flexible, easily customizable software for the HP 3000 designed to manage name and address lists for such applications as circulation fulfillment, membership tracking, telemarketing, sales lead tracking, materials fulfillment, seminar registrations and fund raising. It has the ability to create IMAGE databases from any V/3000 form. Features include on-line data entry and error checking, transaction logging, user-defined output forms for labels, data files, and reports.

Company Name: Omega Systems Development, Inc.

Address: 250 Leader Building
Cleveland, OH 44114
USA

Phone Number: (216) 687-1996

Contact Person: Dan Miller

Type of Distributor Wanted: HP 3000 Software Supplier/OEM

Geographic Coverage: Europe

Industry: *Microprocessor development*

Abstract: Assemblers based on many different microprocessors are available from the UniWare Software Development System for the HP 9000, Series 200 and 500 with the HP-UX Operating System. Features include:

- Assembler with manufacturer compatibility, versatile listing control, and full symbol table and cross reference listings.
- Fast link editor supports an unlimited number of symbols in a load, with full multiple overlay capabilities.
- Communications programs feature utilities to handle downloading to virtually all emulators, PROM programmers and target hardware.
- Debugging aids allow assembly listings to be converted to contain absolute addresses and relocated object code.

Company Name: Software Development Systems, Inc.

Address: 3110 Woodcreek Drive
Downers Grove, IL 60515
USA

Phone Number: (312) 971-8170

Contact Person: Jim Challenger

Type of Distributor Wanted: Open

Geographic Coverage: Worldwide

Industry: *Construction, Metalworking job shops*

Abstract: MAT/260 job cost and accounting with estimating for contractors for the HP 250/260. Fully integrated job cost system with A/P, A/R, general ledger and payroll. Automated generation of estimates, and of job master records from estimates. The job cost system links to accounts receivable through the job billing function. Payroll and A/P post to job cost, all systems post to GL. Complete WIP inventory accounting. Supports multiple companies throughout all systems. Job profitability projections allow timely correction of potential cost overruns.

Company Name: Dependable Computer Programs

Address: 225 North Arlington Heights Road
Elk Grove Village, IL 60007
USA

Phone Number: (312) 952-0229 TWX: 910 333 9118

Contact Person: Tom Schade

Type of Distributor Wanted: Open

Geographic Coverage: Open

Industry: *Civil engineering*

Abstract: Street Profile Design System (SPDS) is a three-dimensional civil engineering program for the HP 9000, Series 200 and the HP Series 80 personal computer. Total calculation time from raw data input, through plotted worksheets for the design engineer, to finished plotted profiles for one sheet is less than two hours.

Highlights of SPDS include:

- Automatic generation of even stations according to the increments selected by the user
- Pre-programmed template specifications with options for modification
- Interpolation of unknown even station elevations
- Automatic generation of street-cut-sheet and earthworks quantities reports
- Plotting utilities for generation of profile sheets
- Program will run with a variety of coordinate geometry programs

Abstract: Water Surface Profile System (WSPS) is a straightforward, open-channel hydraulics program utilizing Mannings Equation and the Standard Step Method for backwater calculations.

Highlights of WSPS include:

- Up to 48 coordinate pairs per section, 20 sections per drain, 9 drains (improved and unimproved) per file.
- Six different "n" (roughness coefficient) values may be assigned to one section as well as separated flows upon encountering islands and the analysis is provided as subsection information.
- Output contains critical depth, normal depth, and backwater calculations including water surface elevation, area under water, wetted perimeter, and more.
- Program will run with various coordinate geometry programs.

Company Name: Software Advancements, Inc.

Address: 6800 One Park Ten Blvd.
Suite 200 North
San Antonio, TX 78213
USA

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