

HP CHANNELS

Information For Hewlett-Packard's Value-Added Businesses

October 1989



**HP introduces the personal, 4-page-per-minute
HP LaserJet IIP printer**

HP CHANNELS

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Editor
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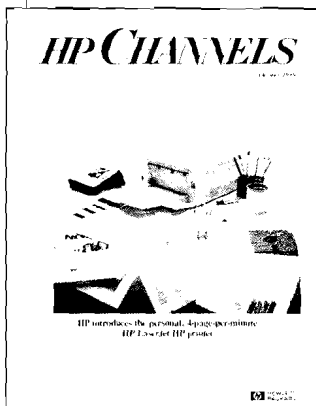
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On the cover



The HP LaserJet IIP printer is an extension of the HP LaserJet printer family. This affordable personal printer is targeted at users who want their own dedicated laser printer. See articles beginning on page 18.

HP CHANNELS
October 1989

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HP Computer Museum
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Business Computers

General

Introducing Business BASIC/XL

With the release of MPE XL 2.0, HP Business BASIC/XL is available on 900 Series HP 3000 computers. Offering a complete native-mode programming environment and a variety of features to ease the programming task, HP Business BASIC/XL supports both the commercial applications programmer, as well as the generation of simple programs, reports, and tools. The interpreter provides a program editor, an execution environment, the features of a debugger, calculator, and cross-referencer. Programs created in the interpreter can be compiled and executed without leaving the programming environment.

HP Business BASIC/XL provides a rich set of features that increase programmer productivity and the reliability of programs. It has control structures for modular programming, support for calling routines written in other HP languages, and support for calling the system INTRINSICS. Also built into the language are sets of statements to interface with TurboIMAGE/XL, VPLUS, KSAM, and BASIC/260 forms.

HP Business BASIC/XL is the solution of choice for applications being migrated from BASIC/V, BASIC/260, and Business BASIC/V. Business BASIC/XL can take advantage of the large code and data space sizes on the XL machine, which results in a savings of time and effort when migrating code.

Contact your HP representative for a copy of the "HP Business BASIC/XL Migration Guide" (P/N 32715-90003) to get a detailed discussion of BASIC/V, BASIC/260, and Business BASIC/V to Business BASIC/XL migration paths.

General

HP NewWave Mail to be released mid-1990

HP NewWave Mail continues to be developed and is due to be released in early- to mid-1990. The first release of NewWave Mail will support HP DeskManager as a server and will contain the following features:

- Send and receive any NewWave object or MS-DOS® file (including compound NewWave documents)
- Background mail transfer.
- Full distribution list checking
- New mail notification
- Priority mailing
- Automatic conversions
- Mail filters

A set of browsers and converters on the HP 3000 system will ensure that HP DeskManager and AdvanceMail users can communicate with HP NewWave users and vice versa. This ensures that NewWave Mail can easily be integrated into an existing office system while protecting users' hardware and software investment.

Interim plans

Before HP NewWave Mail is released, it will be possible for users to get copies of a controlled release version. While not containing the full feature set of the final version, HP NewWave users will be able to send and receive messages from current and HP NewWave users anywhere on their HP DeskManager network.

The requirements for receiving this version are that users have EU 1.0 of HP NewWave and that they have an HP systems engineer (SE) who has attended the SE555 training class to support them.

If you are interested in this version, contact your HP representative.

Future plans

The second release of HP NewWave Mail will support HP's electronic mail server for UNIX operating systems — HP OpenMail. This will enable HP NewWave users to exchange information with other users connected to HP-UX systems running HP OpenMail. This version will be available in mid-1990.

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UNIX is a registered trademark of AT&T in the U.S.A. and other countries.



General

HP NewWave Mail update

September 1, 1989, saw the introduction of HP OpenMail, HP's electronic-mail server for UNIX operating systems. HP OpenMail uses HP AdvanceMail as its user interface on a terminal. HP AdvanceMail on the PC currently supports HP DeskManager as a server and is being adapted to support HP OpenMail, as well. Support for HP OpenMail on HP AdvanceMail III will be available beginning December 1989. The major enhancement to HP AdvanceMail is to provide support for HP OpenMail. This means that the same product will support either HP DeskManager or HP OpenMail. New features include full X.400 addressing, LAN and Serial connections to the HP 9000 range, and a nickname capability for storing addresses on the PC.

Users who want to interface to HP OpenMail should wait until December as the currently available version, HP AdvanceMail II, only supports HP DeskManager. Contact your HP representative for more information.

General

HP AdvanceLink family—questions answered

The additions to the AdvanceLink family of products provide users with key advantages. However, some users may be reluctant to switch from Reflections to AdvanceLink because of the perceived limitations of the DOS version. Here are some questions we have received, together with their answers.

We currently use Reflections and have written many command files. Translating these files to AdvanceLink files would be very time consuming. How do we overcome this problem?

AdvanceLink for MS-Windows® and Apple Macintosh can use Reflections command files without the need to translate them. Users can switch to AdvanceLink and still use their old command files.

Note: The first release will have a restricted command language and will not offer this facility.

We need to use multiple sessions. Reflections allow us to switch between them easily, using the "hot key" facility. Does AdvanceLink offer this?

Windows-style operation on the Apple Macintosh and HP Vectra PC permits multiple sessions to be run and viewed simultaneously. (Reflections only allows you to view one session at a time. It is not a full windowing product.) Moving between windows is done simply by double clicking the mouse. Multiple hosts or a single host system are connected via serial ports or LAN.

Note: Support for multiple sessions via LAN will not be available until mid-1990.

We need HP NewWave support. Do you provide it?

The current products are supported in enhanced encapsulated mode today and native mode will be available next year.

What about OS/2 support?

In the future, the AdvanceLink family will be extended to support more client/server platforms. For the client, this will include OS/2 with Presentation Manager and full HP NewWave support. Server support will be extended beyond MPE (HP 3000) and UNIX system (HP 9000) to include other vendors' proprietary platforms.

We use Apple Macintosh products. WRQ can support them. Can you?

Yes. In fact, we offer support for color graphics as well as mono graphics and text. Walker Richer Quinn (WRQ) does not have color graphics emulation for the Apple Macintosh. The graphical user interface of AdvanceLink for the Apple Macintosh is consistent with that of AdvanceLink for MS-Windows, saving time and encouraging use.

Will HP continue to support users of AdvanceLink for MS-DOS®?

Yes. We recognize that many of our users wish to remain within the standard MS-DOS environment. The existing MS-DOS product will provide the major revenue for the AdvanceLink family in 1990 and beyond. Therefore, we will continue to sell and support it for the foreseeable future.

MS-Windows is a U.S. registered trademark of Microsoft Corporation.

General

HP AdvanceLink family feature comparisons

The new additions to the HP AdvanceLink family of products launched on August 1, 1989, offer significant improvements in functionality and gives HP a competitive edge over the

major competitor, Walker Richer Quinn (WRQ). The following table summarizes the main features of the AdvanceLink and Reflection product ranges.

Feature comparison

Feature	WRQ Reflection	AdvanceLink DOS	AdvanceLink Macintosh	AdvanceLink Macintosh text	AdvanceLink Macintosh graphic	AdvanceLink Macintosh color graphic
Multiple simultaneous sessions	no	no	yes*	yes*	yes*	yes*
Multitasking	yes	no	yes	yes	yes	yes
Hot key between sessions	yes	no	N/A**	N/A**	N/A**	N/A**
Uses LIM EMS memory	yes	no	yes	N/A	N/A	N/A
File transfer options:						
MPE	yes	yes	yes	yes	yes	yes
UNIX	yes	no	yes	yes	yes	yes
XMODEM	yes	yes	yes	yes	yes	yes
Command language	yes	yes	yes***	TBA#	TBA#	TBA#
Command language learn mode	no	no	yes	yes	yes	yes
132 and 160 column support	yes	yes	TBA	yes	yes	yes
VPlus forms cache	yes	yes	TBA	TBA	TBA	TBA
Eicon X.25 card support	yes	yes	yes	N/A	N/A	N/A
AdvanceNet support	yes	yes	yes	yes	yes	yes
DEC VT220 emulation	yes	no	TBA	TBA	TBA	TBA
IBM 3270 emulation	no	no	TBA	TBA	TBA	TBA
Native NewWave	no	no	TBA##	N/A	N/A	N/A
OS/2 Presentation Manager	no	no	TBA	N/A	N/A	N/A

*One Serial and one LAN connection, up to four X.25 connections via Eicon card. Multiple simultaneous LAN sessions available in second release.

**Double click mouse to switch between windows. "Hot Key" unnecessary.

***Limited command file capability on first release.

#Command file capability introduced at second release.

##Enhanced Encapsulated NewWave application at first release.

General

HP OfficeShare family now supports Western Digital AT card

For users who have been asking for a higher-performance ThinLAN solution, HP's OfficeShare family of Network Software products now includes support of Western Digital EtherCard Plus (WD8003E) AT network adaptor cards. This card is available immediately through Western Digital dealers and distributors.

To obtain transport software for this card, you should order P/N D1805A. This product was originally introduced to provide support for Micro Channel PCs. In order to provide a timely, higher-performance, ThinLAN alternative, HP chose to modify an existing product as opposed to introducing a separate new product.

Therefore, the D1805A product will now provide support of both Western Digital EtherCard Plus/A (Micro Channel) and the EtherCard Plus (AT) cards.

For more information, contact your HP representative.

HP 3000

HP 3000 high-end system memory price reduced

Effective immediately, the 16-Mbyte memory board (P/N A1104A) for the HP 3000 Series 950/955 and 960 will be decreased by about 25 percent.

Additional memory ordered as an Option 500 to the system has also been reduced by about 25 percent.

Memory delete option also decreased

Effective November 1, the Option 503 to delete memory included on all field upgrades within the high-end HP 3000 platform will also be decreased as a result of the memory price decrease.

HP 3000

Migrating to the DTC/X.25 XL Network Link

The DTC/X.25 XL Network Link is Hewlett-Packard's strategic solution for X.25 communications on 900 Series HP 3000 systems. HP users are encouraged to migrate from the NS X.25 3000/V Network Link (HP 24405A) and the NS X.25/XL Server (HP 30041A) to this new solution. To preserve the user's investment, upgrade credits on these products are now available when ordering the DTC/X.25 XL Network Link.

NS X.25 3000/V Network Link users ordering the DTC/X.25 XL Network Link are eligible for a return credit, the amount of which varies depending on the size of the MPE V system the link was running on. What the user actually returns is the Intelligent Network Processor (INP) interface card. When placing the order for the NS X.25 3000/V Network Link return credit (HP 24405AN), the user must also order the DTC/X.25 Network Access card (HP 2345A, Options 310, 320, 330, or 335, or HP 2346D/E/F/ or G). The user has 60 days from the time the DTC/X.25 XL Network Link is delivered to return the INP to HP.

Users who purchased the NS X.25/XL Server are also eligible for an upgrade credit towards the purchase of the DTC/X.25 XL Network Link. The NS X.25/XL Server upgrade credit (HP 30041AN) requires that the user return the server in its entirety, including the LAN/XL Network Link (XL LANIC) if supplied with the server. The user must order the DTC/X.25 Network Access card (see product numbers above), when placing an order for the NS X.25/XL Server upgrade credit. The user has 60 days from the time the DTC/X.25 XL Network Link is delivered to return the server.

Both the NS X.25 3000/V Network Link return credit and the NS X.25/XL Server upgrade credit are purchase-agreement discountable. If the DTC/X.25 Network Access card is being ordered as part of the DTC/X.25 Start-up Package (HP 36950A), users are still eligible for the upgrade credits. For additional information on migrating to the DTC/X.25 XL Network Link, contact your HP representative.

Product No.	Description
24405AN	Return credit for NS X.25 3000/V Network Link
Opt. 100	For Series 37, MICRO 3000, and MICRO 3000XE
Opt. 200	For Series 39-70

HP 3000

Firmware board to be removed from November HP Price List

Effective November 1, 1989, the HP 3000 Series 39 and Series 4X firmware board will no longer be newly manufactured and will be removed from the HP Price List. This firmware board (P/N 30400A) provides table expansion capabilities for HP 3000 Series 39 and Series 4X users. The firmware board will continue to be available under P/N 30400AR.

On November 1, 1989, P/N 30400A will be removed from the HP Price List. Users who want a newly manufactured firmware board should place their orders before November 1. Contact your HP representative for more information.

HP 3000

Memory boards to be removed from December HP Price List

Effective December 1, 1989, the following three memory boards will no longer be newly manufactured and will be removed from the HP Price List:

Product No.	Description
30161A	1-Mbyte memory board for Series 39, 4X
30478A	2-Mbyte memory board for Series 39, 4X, 5X
30479A	4-Mbyte memory board for Series 4X, 5X

The support life of these three boards will match the support life of the HP 3000 Series 5X family which begins January 1, 1990, and lasts for five years.

Users wanting a newly manufactured memory board should place their orders before December 1, 1989. The remanufactured version of these memory boards will continue to be available from HP. Contact your HP representative for more information.

Also in this issue

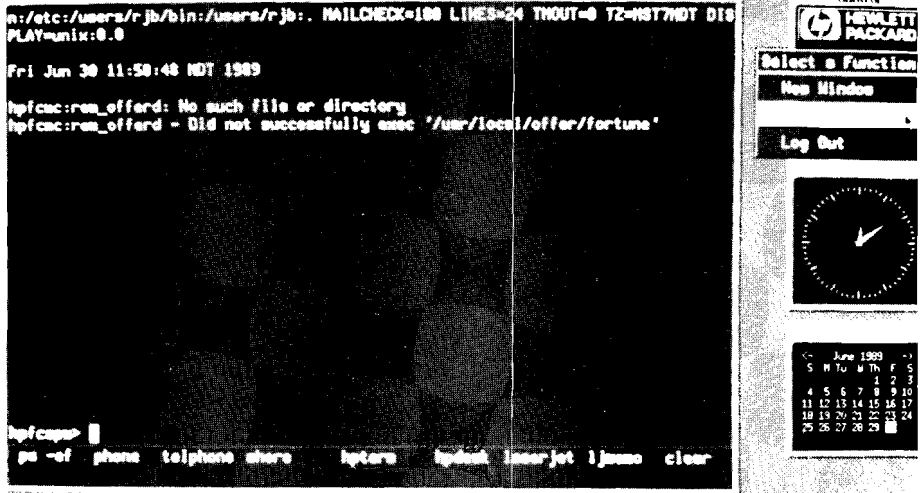
HP 3000 support change for HP RuggedWriter printer

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Technical Computers

General

HP's X Windows Environment



HP has recognized the difficulty that users have in using UNIX system workstations. The X Windows Environment is our first step in providing a preconfigured, easy-to-use environment on the OSF/Motif standard. Combined with the "Instant Ignition" Program (see article entitled, "Lower-priced mass storage options for HP 9000 Series 300 workstations — savings up to 27%"), users simply plug in their workstations and are greeted with a friendly log-in screen complete with a Help button. After log-in, the user is greeted with the default configuration shown in the picture above. Included is a clock, a calendar, and a calculator. The xload application also is included to indicate the CPU loading. Several hpterm windows allow access to HP-UX.

The Control Panel allows the user to create a new window, lock the screen, or log-off. Locking the screen allows the user to leave his desk for a period of time without risking access by unknown users. Simply typing in his password

returns the user to where he was before locking the screen. The Control Panel also provides the user with an easy-to-use help system and access to the manual pages. The help system provides easy instructions on the use of this environment and directions for changing the default configuration. By selecting "Man Pages," the user gains access to a browser that greatly improves the access to the on-line HP-UX manuals.

The X Windows Environment is available to new users through the "Instant Ignition" Program. For the installed base, the environment can be ordered by using P/N 98887-10034 which provides a tape and easy installation instructions.

Contact your HP representative for more information.

UNIX is a registered trademark of AT&T in the U.S.A. and other countries.

General

Removal of Right-to-Reproduce X Window System products

The X10 and X11 Right-to-Reproduce (R-to-R) software product numbers shown in the table below will be removed from the HP Price List as of

November 1, 1989. The X11 Original-Copy products will continue to be orderable; the X10 Original-Copy products will be orderable only until the time specified in the next section.

R-to-R products being removed	HP 9000		
	Model 825/835	Model 840	Model 850/855
R-to-R X Window System, v10.4	92524R	92528R	92532R
R-to-R X Window System, v11	B1156A	B1158A	B1160A

Windowing products being discontinued after HP-UX 7.0

Windows 9000

While the X11 Window System was included in HP-UX 6.5, the Windows 9000 product was also included to allow time for users to port their applications to X11. Windows 9000 will still be in the 7.0 release, but that will be the last release to include it. After 7.0, Windows 9000 will be pulled out and sold as a separate product prior to being discontinued.

X Window System

In addition to Windows 9000, several X Window System-related software packages that are bundled in the HP-UX 7.0 product will not be included in subsequent HP-UX releases. Newer versions of these products are now available that give users increased performance and functionality. In each case, information has been included with these products, in both written documentation and on-screen messages, advising users to move their applications to the newer

versions. The products being discontinued are:

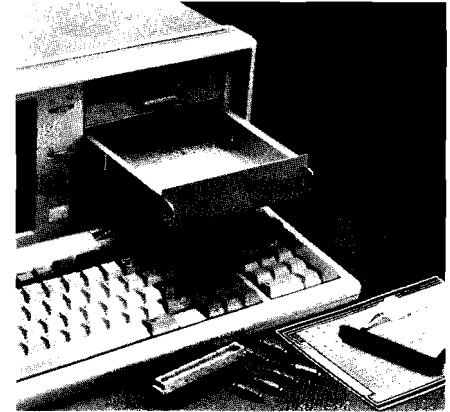
- *X Toolkits* — to be replaced with the OSF/MOTIF toolkit
 - X10 Xrlib (Xray)
 - X11 Xrlib (Xray)
 - Xt intrinsics (release 2)
 - HP Widgets
- *Window Managers* — to be replaced with the OSF/Motif window manager (mwm)
 - hpwm
 - uwm
- *X10 Window System Software* — to be replaced with the X11 Window System

The X10 Window System (Original-Copy) product numbers being discontinued are shown in the table below.

X10 discontinued product	HP 9000			
	All Series 300 models	Model 825/835	Model 840	Model 850/855
X Window System, v10.4	82320A	92524A	92528A	92532A

General

Unique customizing kit offered for HP R/332 Controller



The HP R/332 Rack Mountable Controller offers HP VABs HP 9000 Series 300 performance and more: ruggedness, a compact transportable design, and rack mountability. For OEMs or other VABs, an extra added touch is the A1308A Custom Engineering Kit accessory, which allows customization of the front panel of the HP R/332 Controller. The kit can be easily configured either as a convenient storage drawer, or as a customized electronic I/O panel.

Configurable as a storage drawer, it provides space for floppy disks, reference guides, power cord, and other small items. For example, it will hold the power cord and up to eight floppy disks, making an ideal solution for users whose HP R/332 is used as a transportable in the field.

The kit allows the VAB a unique opportunity to customize the HP R/332 Controller for a specific measurement automation and control application. The breadboard and internal cable included allow custom circuitry to

be wired directly to the controller's on-board computer. A custom application panel with status lights, control knobs, buttons or switches, I/O connections, or other items can readily be mounted on the controller's front panel.

Whether configured as a storage drawer or as a customizable I/O panel, the A1308A Custom Engineering Kit offers VABs true flexibility. Its hardware capability, along with the HP R/332 Controller's touchscreen display, provide the tools necessary to customize the panel and display for specific needs. This unique flexibility distinguishes the HP R/332 Controller as a leader in measurement automation and instrument control.

The A1308A Custom Engineering Kit consists of a metal storage drawer, a printed circuit breadboard with mounting hardware, an internal interfacing cable, and miscellaneous mounting accessories and tools.

General

82990A HP-IB Interface and Command Library to be discontinued

The 82990A HP-IB Interface and Command Library for the HP Vectra PC and other IBM compatibles will be removed from the HP Price List March 1, 1990.

The scheduled dates for support life for this product are listed below:

Support process	Date
Removal from HP Price List	March 1, 1990
Final orders accepted	March 30, 1990
Support life	Through March 1, 1995

A new, improved PC HP-IB Interface and Command Library was announced September 1, 1989 — the 82335A HP-IB Interface and Command Library and the 82335A Option 001 HP-IB Command Library (software-only option). The new 82335A Interface adds end-of-line interrupt support for BASIC programs, the ability to perform unformatted binary data transfers, a new peripheral driver that allows LPT and COM port redirection, and a new automated installation procedure. We have also added support for Borland Turbo Pascal, Borland Turbo C, and Microsoft QuickC.

The 82335A is completely backward compatible with all compiled programs written for the 82990A. Programs written in Lattice C cannot be recompiled using the 82335A Command Library. Programs written and compiled using the 82335A Command Library will run properly on the 82990A HP-IB Interface *except* for those that use BASIC service-request interrupts (IOPEN). IOPEN is not supported by the 82990A Interface card. All other features of the 82335A Command Library are supported.

The 82335A cannot be used as an HP-IB disk/tape interface.

The 82990E HP-IB Command Library will remain on the HP Price List. The 82990E allows users to add the HP-IB Instrument Command Library (with peripheral driver) to their 88500A disk/tape interface.

HP 9000

HP-UX 7.0 product introduction

The newest release of HP-UX will be available in November for HP 9000 Series 300 and Series 800 workstations. The HP-UX 7.0 release will include support for the new OSF User Interface — HP Motif Environment — and compliance with the new IEEE standard — POSIX 1003.1.

This release also contains a task-oriented and menu-driven system administration manager (SAM) that provides easier installation and maintenance for common system administration tasks.

HP-UX documentation will be restructured into four task-based sets similar to the HP 9000 Series 800. The current 6.5 product structure, however, will not change for the HP-UX 7.0 release and the manual sets will now closely align with the product structure. For example, the manuals in the system administration set are the same manuals as those shipped with the HP 98594A software bundle media and manuals product. The five sets and their previous equivalencies are shown on the following page.



Series 300 HP-UX documentation sets

Documentation Set	Equivalencies	Description	New product number
General usage	HP-UX License to Use (LTU) plus start-up manuals	Manuals that are shipped with the software bundle LTU product	98896-87901
System administration	98594-87901	Software bundle manuals with new part number	98896-87903
Programming set	98794A	New part number with same manuals as programmers' manuals (Obs 12/1)	98896-87904
Advanced usage	Three manuals from programming set	Three concepts and tutorials manuals on text editing, formatting, and shells	98896-87902
Complete set	98794-87901	All HP 9000 Series 300 HP-UX manuals except AXE system administration*	98896-87905

*There is no new information in this system administration manual; everything contained in this document is covered elsewhere in HP-UX manuals.

Series 300 HP-UX price increase summary

Product No.	Description	October 1 U.S. list price*	Changes
98515L	2-user AXE license to use	\$ 155	No change
98515B	2-user AXE media and manuals	215	No change
98595L	16-user AXE license to use	995	No change
98595B	16-user media and manuals	215	No change
98596L	32-user AXE license to use	3,210	No change
98596B	32-user media and manuals	215	No change
98594L	Software bundle license to use (AXE, PE, NFS, NS-ARPA, X)	1,170	No change
98594A	Software bundle media and manuals (AXE, PE, NFS, NS-ARPA, X)	600	Price increased from \$475
98794A	Programmer's documentation (available until December 1)	535	Replaced by 98896-87904
98597L	Programming environment license to use	850	Price increased from \$705
98597C	Programming environment media and manuals	900	Price increased from \$585

*Non-U.S. readers: Check with your HP representative for the price increases in your country.

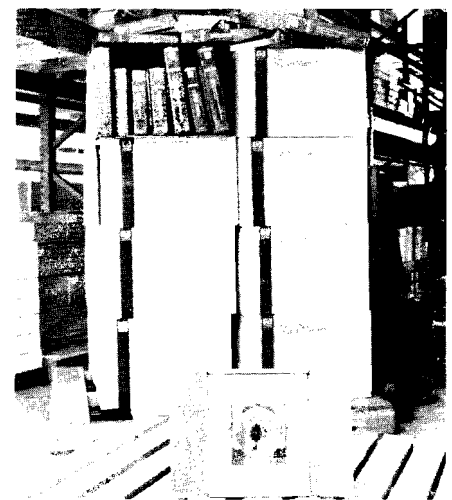
Price increases for a number of products will occur October 1. Additional functionality such as HP Motif User Environment*, POSIX, system security and system administration tools** have been added to this release which has increased material costs for media and manual products.

*Certification of conformance with OSF/Motif User Environment is pending.

**There is no new information in this system administration manual; everything contained in this document is covered elsewhere in HP-UX manuals.

HP 9000

Introducing HP LaserROM/UX software for HP 9000 Series 300 and 800 systems



HP 9000 Series 300 and Series 800 workgroups soon will be able to access mountains of CD-ROM (Compact Disc Read Only Memory) based support documentation and information with retrieval software that runs on the computing hardware they use everyday. Using HP LaserROM/UX software, multiple users can find quickly the information they need with full-text retrieval capability. Users can access documents by browsing or performing keyword searches.

The software has two similar user interfaces, a Graphical User Interface (GUI) based on OSF/Motif™, for bit-mapped displays running X Windows v11™, and a terminal user interface for character mode or alphanumeric displays. The Motif GUI allows users to view integrated text and graphics as well as perform cut and paste operations with standard text-manipulation tools. HP LaserROM/UX software requires HP-UX 7.0 or greater and an HP 9000-compatible CD-ROM drive.

Any multiuser HP LaserROM subscription service will work with HP LaserROM/UX software; most users will be interested in the multiuser HP LaserROM/UX subscription service (P/N 50726A+R00 Opt. 013).

HP LaserROM/UX is targeted for programmers, system administrators, software developers, or any users interested in fast, easy access to HP LaserROM/UX subscription service information.

Features	Benefits
Full-text keyword search and browse	Save time looking for information
Simultaneous access to 600 Mbytes	Reduce hardcopy costs, save space
Inexpensive, permanent on-line storage	Increase on-line information access
Choice of user interface	Leverage current hardware investment

Ordering information

Product No.	Description
B1671A	HP LaserROM/UX software
Opt. 0AL	8-User license
Opt. 0GP	Additional four-user license only
Opt. 0B1	Additional user guide
50726A+R00	HP LaserROM subscription service
Opt. 013	HP LaserROM/UX subscription (multiuser)
C1707A	HP Series 6100 Model 600/A, HP-IB CD-ROM drive (HP-IB cable must be ordered separately)

HP LaserROM/UX software will be available on the October 1, 1989, HP Price List.* Existing HP LaserROM (HP Vectra PC) users should purchase HP LaserROM/UX software and HP 9000-compatible CD-ROM drive. Existing HP LaserROM subscription service users should change their service from 50726A+R00 Options 001, 002, 003 (single-user) to 50726A+R00 Options 011, 012, 013 (multiuser) at no additional charge.

New HP LaserROM/UX users should order: HP LaserROM/UX software (P/N B1671A Opt. 0AL), HP LaserROM/UX subscription service, HP 9000 compatible CD-ROM drive.

Literature

An HP LaserROM/UX software data sheet (P/N 5952-0537) and a two-page U.S. only "Support Spotlight" announcement on HP LaserROM/UX software (P/N 5952-0431D) are orderable from your HP representative. The "Support Spotlight" will be sent to users in the 7.0 distribution and with the November HP LaserROM/UX subscription disc.

For more information, call your HP representative.

**International availability is planned simultaneously or shortly thereafter.*

OSF/Motif and Motif are trademarks of the Open Software Foundation, Inc.

X Windows is a trademark of Massachusetts Institute of Technology.

HP 9000

HP LaserROM subscription service expanded and repositioned

Starting with the November disc, the HP LaserROM subscription service for HP 9000 Series 800 HP-UX systems (P/N 50726A Opt. 003, 013) will be revamped. The documentation and support information will be expanded to include 7.0 information for *both* Series 300 and Series 800 systems. The new name for this service will be HP LaserROM/UX subscription service. For simplicity, the umbrella term HP LaserROM/UX can be used when referring to both HP LaserROM/UX subscription service and the new HP LaserROM/UX software, P/N B1671A (see previous article entitled, "Introducing HP LaserROM/UX software for HP 9000 Series 300 and 800 systems").

Target customers for the HP LaserROM/UX subscription service include programmers, system administrators, software developers, MIS managers, and any other users interested in fast, easy retrieval of system information. When used in conjunction with the new HP LaserROM/UX software, B1671A, the LAN (multiuser) option, 50726A+R00 Opt. 013 should be used. Since HP-UX 7.0 is a requirement to run HP LaserROM/UX software, Series 800 3.1 information will be discontinued after the September disc. Users wishing to access 3.1 information should retain their September disc.

With HP LaserROM/UX subscription service, you receive an updated compact disc every other month. Each disc includes valuable information such as:

- User and operating system manuals
- Language and reference manuals
- Software status bulletins
- Application notes
- Quick-reference HP product catalog
- HP Response Center questions and answers
- Value-added software catalog
- HP education catalog

The task of inserting paper updates can be eliminated, saving users time and hassle. Although the information content will be dramatically expanded, pricing will remain unchanged.

For more information, call your HP representative.

HP 9000

Lower-priced mass storage options for HP 9000 Series 300 workstations — savings up to 27%

Hewlett-Packard announces five attractively priced mass storage options for the HP 9000 Series 300 line of workstations. Savings from previous prices range from 16 to 27 percent, depending on the configuration ordered. This announcement covers:

- Three new options that combine tape backup units and SCSI disk drives
- Price reductions on SCSI disk drive Options 404 and 405
- Price reductions on SCSI interface options

Includes "Instant Ignition"

In addition, all disk drive options include the HP-UX operating system and the X Window System preloaded and preconfigured, a leadership feature which was recently introduced on Options 404 and 405. Consequently, these options represent a breakthrough in total value delivered to HP's workstation users — competitively priced disk and tape drives on which the system software is already installed and configured.

As a result, systems purchased with these options will boot up with a friendly Motif-compatible graphical user interface. The outcome is "Instant Ignition" for new workstation buyers. Users receive complete systems ready for productive use which, in essence, can be "driven right off the lot." The new options help the user avoid costly installation procedures, and an estimated four hours are saved.

We will continue to work on additional solutions that are easy for the user to buy, set up, and use.

Details

The new and repriced options are available on October 1 with HP 9000 Models 340, 360, and 370.

Option	Description
Opt. 404	161-Mbyte SCSI disk drive with "Instant Ignition" feature included
Opt. 405	323-Mbyte SCSI disk drive with "Instant Ignition" feature included
Opt. 408	161-Mbyte SCSI disk drive with 67-Mbyte ¼-inch cartridge tape drive. "Instant Ignition" feature included
Opt. 409	323-Mbyte SCSI disk drive

In addition, price reductions were made on SCSI disk interfaces for HP 9000 Model 340, 360, and 370 bundles:

Product No.	Description
Model 340 Opt. 011	98658A SCSI single-ended board with one-meter cable and terminator (includes one DIO 1 slot)
Model 360 Opt. 011	98265A SCSI single-ended board with one-meter cable and terminator
Model 370 Opt. 011	Deletes high-speed HP-IB; add SCSI single-ended board with one-meter cable and terminator
98658A	DIO 1 SCSI host adaptor

These attractive SCSI disk and interface options demonstrate HP's commitment to SCSI and to standards.

Contact your HP representative for more information.

X Window System is a trademark of Massachusetts Institute of Technology.

HP 9000

LAN Link, ARPA, NFS, and NS restructured on HP 9000 Series 300

In the HP-UX 7.0 release, HP 9000 Series 300 and 800 kernels have merged. The kernel merge has given us the opportunity to reduce our costs by combining and/or eliminating redundant portions of our networking documentation. As a result, HP 9000 Series 300 networking products have been restructured. LAN Link, NS, NFS, and ARPA products for HP 9000 Series 300 and 800 now look alike.

Prior to HP-UX 7.0, NS-ARPA/300 was one product and included TCP/IP software. LAN/300 was simply the Ethernet/802.3 LANIC for multihoming.

Our new restructured products are:

- NS/300 — NS Services
- ARPA/300 — ARPA/Berkeley Services
- NFS/300 — Network File System Services
- LAN Link/300 — Ethernet/802.3 interface and TCP/IP software needed for using NS, NFS, and ARPA/300

Although we expect the vast majority of users to continue purchasing workstation bundles that already contain ARPA, NS, NFS, and LAN Link, the above products allow users to add networking to their SPU-only workstations. Because SPU boards for HP 9000

Models 318, 319, 330, 340, 350, 360, and 370 already contain the LANIC hardware, a LAN Link/300 software-only option (Option 001) has been created for SPU-only purchasers. For those who want a second LAN interface on the same machine, a LAN Link/300 hardware-only option (Option 1AW) has been created.

Ordering information

Product No.	Description
98171A	LAN Link for HP 9000 Series 300; includes 802.3/Ethernet LANIC, ThinMAU assembly, TCP/IP software on 1/4-inch tape, right-to-use license, and documentation.
Opt. 001	Deletes LANIC and ThinMAU assembly (software and documentation only)
Opt. 1AW	Deletes software and documentation (hardware only)
Opt. 740	Delete ThinMAU assembly, add ThickMAU assembly
Opt. 840	Delete ThinMAU assembly, add twisted-pair MAU
B1012A	NS Services/9000 on Series 300 (License to Use)
Opt. AA0	Media/documentation
Opt. OBI	Additional copies of documentation
B1013A	NFS Services/9000 on Series 300 (License to Use)
Opt. AA0	Media/documentation
Opt. OBI	Additional copies of documentation
B1014A	ARPA Services/9000 on Series 300 (License to Use)
Opt. AA0	Media/documentation
Opt. OBI	Additional copies of documentation

HP 9000

Price increases on HP 9000 Series 300 hardware and software products

As part of a general price increase that took place July 1, some of the HP 9000 Series 300 hardware and software product prices were increased. The HP 9000 Models 310, 320, 330, and 350 hardware bundle prices were increased by approximately 15 percent. These products include the 16-user AXE license (P/N 98595L) and the licenses for the FORTRAN (P/N 98598L) and Pascal (P/N 98599L) compilers.

Product No.	Description
98595L	16-user AXE license-to-use
98598L	FORTRAN license-to-use
98599L	Pascal license-to-use

There are no plans to change pricing for the 7.0 license-to-use products. However, there will be some price changes planned for the media and documentation products.



HP 9000

Three HP 9000 Series 300 HP-UX products to be obsoleted

Three of our HP 9000 Series 300 HP-UX products — the HP-UX Programming Environment (PE) products, HP 98597C Media/Documentation, and HP 98597L License-to-Use — will be removed from the HP Price List as of April 1, 1990. Replacement products for the HP-UX PE products are the HP-UX Software Bundle, HP 98594A, plus the new Programming Documentation Set, P/N 98896-87904. The cost of these two products together is slightly higher than the PE, but they are supersets of the original products (they include not only PE, but also AXE, NFS, NS-ARPA, X, and OSF/Motif).

Listed below are the scheduled dates for discontinuance of the HP 98597C and 98597L.

Removal from HP Price List	April 1, 1990
Final U.S. orders accepted	April 30, 1990
Final international orders accepted	June 30, 1990
Final shipments	September 15, 1990

The HP-UX Series 300 Programming Documentation Set, HP 98794A, will be taken off the January 1, 1990, HP Price List. The direct replacement for this product is P/N 98896-87904, the Programming Documentation Set.

Listed below are the scheduled dates for discontinuance of HP 98794A.

Removal from HP Price List	January 1, 1990
Final U.S. orders accepted	January 31, 1990
Final international orders accepted	March 31, 1990
Final shipments	June 15, 1990

If you encounter any problems, please contact your HP representative.

HP 9000

New HP 9000 Model 635SV server

The HP 9000 Model 635SV (P/N A1062A) is the first server product in the HP-UX family. Packed into the HP 9000 Model 635SV is the performance of the Model 835S, a wealth of peripherals, an HP-UX server license (two-user only), and networking hardware and software. The client/server is the emerging workgroup and department topology. By fulfilling file, database, compute, and other general-purpose server needs, the HP 9000 Model 635SV compliments our existing workstation offering.

Ordering information

Product No.	Description
A1062A	<p>Model 635SV server</p> <ul style="list-style-type: none"> ▪ System processing unit including: <ul style="list-style-type: none"> - HP-PA CPU - Floating-point coprocessor - Hardware documentation - 24-Mbyte error-correcting memory - HP-UX Server license-to-use and general-usage documentation (92508L) ▪ 600 Mbytes of disk memory (7963B and 97963B) ▪ 8 by 67 Mbyte tape auto change (35401A) ▪ Two HP-IB cards (27110B) ▪ 6-channel MUX (98196A) ▪ LAN/9000 link (91786B) ▪ ARPA Services (50981A) ▪ NFS Services (50970A) ▪ X Window System (B1155A) ▪ SoftPC System (98876A)
Opt. AA0	Networking software on ¼-inch cartridge tape
Opt. AA1	Networking software on ½-inch 1600 cpi tape
Opt. 0E1	A1014A powerfail battery backup system

Note: HP-UX is restructured and modularized at 7.0 release. The HP 9000 Model 635SV only includes license-to-use and general usage documentation. Users who do not have a previous HP-UX server license (not available prior to HP-UX 7.0), must order the media and system administration documentation separately, as P/N 92508A.

The HP 9000 Model 635SV is configured specifically to operate in a client/server environment. Therefore, the HP-UX Server license provides unlimited program access, while limiting direct log-ons to two active users via MUX or LAN connection. Because there are no upgrade paths to the HP 9000 Series 800 multiuser systems, the HP 9000 Series 800 is ideal for users who wish to support more than two users.

Contact your HP representative for more information about the HP 9000 Model 635SV server.

HP 9000

HP 9000 Model 808S—new low-end bundle

The HP 9000 Model 815S system's popularity has inspired a new low-end system bundle. The HP 9000 Model 808S is an eight-user system designed to give users more of what they want: low-priced HP-PA systems.

Offering the same performance as the Model 815S, the Model 808S has six I/O slots, three of which are available after adding the HP-IB, eight-channel MUX, and 8-Mbyte memory cards. The system bundle also includes an internal 152-Mbyte disk and a tape drive rack mounted at the factory. Users now receive a complete system, preinstalled with HP-UX, that is ready to use.

There are certain differences between the HP 9000 Model 808S and the Model 815S. First, the HP 9000 Model 808S is an eight-user system only and features an execution version of HP-UX. The operating system, called HP-UX Reduced Configuration, is not intended for application development. The HP 9000 Model 815S, which comes with the standard HP-UX development environment and a 304-Mbyte disk drive, will be more suitable for development and allows 16 or more users.

Complete compatibility between the two versions of HP-UX is not an issue. The standard version of HP-UX becomes the reduced configuration by removing program development tools and some other files.

The second difference between the Models 808S and 815S is that the HP 9000 Model 808S will have 6 memory or I/O slots instead of 12. These slots, similar to those on the HP 9000 Model 815S, can be used for options such as battery backup, extra memory, or a LAN. Users also can choose any of the other I/O cards available for the HP 9000 Model 815S except the MAP 3.0 link, which requires four slots.

Should more expansion for users or I/O slots beyond what is provided by the HP 9000 Model 808S be required, an upgrade to a Model 815S is necessary. Detailed information on HP 9000 Model 808S and 815S upgrade paths will be available later this year.

The HP 9000 Model 808S will appear on the October 1989 HP Price List and will be available in December.

HP 9000 Model 808 product structure

P/N	Description
A1625A	Model 808S eight-user integrated system bundle, includes: <ul style="list-style-type: none">▪ SPU<ul style="list-style-type: none">- HP-PA CPU- Hardware documentation- 8-Mbyte error correcting memory- Two serial ports- Six-slot box (three available)▪ HP-IB interface and cables<ul style="list-style-type: none">- One eight-channel serial multiplexer- 152-Mbyte disk mechanism- 67-Mbyte ¼-inch tape drive (HP 9144A)- Eight-user HP-UX reduced configuration license▪ Customer convenience kit<ul style="list-style-type: none">- Cable for system console, preinstalled I/O and memory boards, HP-UX preconfigured and preinstalled on disk, single package shipment, power-up documentation- 90-day on-site warranty- Rack (HP 92211R)
Opt. 0E1	Add battery backup unit
Opt. 002	Additional 8-Mbyte error correcting memory
Opt. 007	Replace disk with 304-Mbyte mechanism
Opt. 004	Replace tape with 133-Mbyte tape drive (HP 9145A)
Opt. 005	Delete HP 9144A tape drive and rack (HP 92211R)
Opt. 012	Add LANlink (two slots), ARPA, and NFS Services
Opt. 021	HP-UX on cartridge tape with documentation (P/N 92478A)

Note that the HP 9000 Model 808S bundle does not come with HP-UX media or system administration documentation. Users purchasing the HP 9000 Model 808S for the first time are advised to purchase the media and documentation option. This provision allows system backup tapes and documentation to be stored at a central location and not unnecessarily duplicated for each system on the site.

Contact your HP representative for more information.

HP 9000

Discontinuance of HP 9000 Series 500 to Series 800 multiuser systems upgrade credits

As of January 31, 1990, upgrade credits for HP 9000 Series 500 systems when upgrading to Series 800 multiuser computer systems will be discontinued. The HP 9000 Series 800 multiuser systems are those systems with the "S" or "SE" suffix. An example of these systems are the HP 9000 Model 825S (A1004A) or the Model 835SE (A1040A). The upgrade credits (listed as options to the destination systems) will be removed from the HP Price List as of January 1, 1990.

There are no upgrades available from the HP 9000 Series 500 to Model 815S (A1410A) or the Model 815S bundle (A1071A).

Current plans call for upgrade credits for HP 9000 Series 500 returns to Series 800 workstations (such as Model 825CHX), as well as the return credits for memory, I/O, and graphics products to remain in place indefinitely. For further information, contact your HP representative.

HP 9000

Discounted pricing for terminal connectivity

Hewlett-Packard has created discounted pricing for the six-channel CIO MUX to address competitive pressure for lower-cost terminal connectivity on the HP 9000 Series 800. This solution was designed specifically to meet the need to connect higher numbers of terminals on the HP 9000 Model 835 (96 and 128 users), but is applicable to any of the Series 800 machines with a CIO backplane.

Two multiplexor bundles have been structured as follows:

- 98197A — A bundle of 10 CIO MUXes at approximately 15 percent discount
- 98199A — A bundle of 20 CIO MUXes at approximately 25 percent discount

These two bundles were on the July 1 HP Price List. Note that individual MUXes may continue to be ordered as P/N 98196A. Contact your HP representative for more information.

Personal Computers

General

HP NewWave now available from HP DIRECT

HP NewWave products are now available through HP DIRECT. Call one of the numbers listed in the Supplies Section. Overnight shipping is available at an extra cost.

Ordering information

Product No.	Description
D1704A Opt. ABA	HP NewWave
D1705A Opt. ABA	HP NewWave Support Pack

HP NewWave is a personal computer software environment that works with Microsoft® Windows. HP NewWave is easy to learn and use, provides instant integration of applications and task automation, and protects users' investments in hardware, software, and training.

HP NewWave contains everything needed to install and run, except MS-DOS® and Microsoft Windows/286 version 2.11. The HP NewWave Support Pack is for PC coordinators and includes utilities and additional documentation. Contact your HP representative for more information.

Microsoft and MS-DOS are U.S. registered trademarks of Microsoft Corporation.

Desktop

Dual ESDI hard disk drives now supported on HP Vectra QS PCs

HP Vectra PC users with QS/16S and QS/20 PCs can now install two 5¼-inch half-height, ESDI hard disk drives per machine for up to 304 Mbytes of capacity. There are two hard disk drive capacities available — the D1445A (108 Mbytes) or D1446A (152 Mbytes) — and both provide excellent performance with an average seek time of 16 ms and typical transfer rate of 800 Kbytes/second. Combinations of like-capability drives (for example, 108/108, or 152/152) or dissimilar drives (for example, 108/152) may be employed as desired. Such configurations are especially useful for capacity-hungry graphics applications as well as high-reliability disk mirroring installations.

Users of HP Vectra QS/20 Models 100e, 10e, and 15e PCs can reach the higher capacities by ordering just one or two drives (one for the Model 100e and two for either the Model 10e or 15e), while HP Vectra QS/16S users must also order an ESDI controller card (P/N D1677A). Users with ST506 interface drives must disable or remove those controller cards along with removal of the ST506 drive(s) when installing ESDI drives, since the two different interfaces are not supported on an HP Vectra PC at the same time.

Ordering information

Part No.	Description
D1445A	108-Mbyte 5¼-inch, half-height ESDI hard disk drive
D1446A	152-Mbyte 5¼-inch, half-height ESDI hard disk drive
D1677A	ESDI four-function controller card

Desktop

New PC kits now available on HP Vectra PCs

Beginning in October, users ordering HP Vectra ES or ES/12 PCs with English language options (Options ABA, ABB, ABK, or ABU) will be receiving a newer, more compact PC kit. The new PC kit features an updated, concise setting-up manual aimed at making it easier for HP PC users to get their PC up and running quickly.

Since the new setting-up manual is so much more concise than the current set of manuals, there is now no need to send the PC kit in a separate box. The new PC kit will now be sent inside the box that contains the user's operating system and accessories, so users that have ordered our PCs in the past may notice that they are now receiving one less box.

The new HP Vectra ES and ES/12 PC kits will replace the older PC kits during the month of October. In December, English versions of the HP Vectra QS/16S and QS/20 PCs will also feature the new PC kits. The new PC kit will be contained in a clear bag, which will include the new concise setting-up manual, 5¼- and 3½-inch setting-up disks, an HP Direct catalog, support guide, AC power cord, and keyboard cable. European PC kits will also include the convenience cable for international option monitors.

Desktop

HP Vectra BASIC discontinued

HP Vectra BASIC (45952A), will be discontinued from the October HP Price List.

HP Vectra BASIC is the same as Microsoft GWBASIC. GWBASIC is an interpretive language where the machine reads a line of the program, translates the line into machine code, executes it, then reads in the next line. Users must start GWBASIC each time they want to use a GWBASIC program.

There are alternative products that allow users to leverage the existing programs. These products include Microsoft QuickBASIC and Borland Turbo BASIC, which are compiler versions of the BASIC language. A program using a compiler is converted into executable code such that any PC may run it without the language product.

To transfer an existing GWBASIC program into either compiler requires just a few simple steps.

- 1) Start GWBASIC.
- 2) Load the GWBASIC program.
- 3) Save the GWBASIC program as an ASCII file.
- 4) Exit GWBASIC and start the compiler.
- 5) Load the ASCII file.
- 6) Compile the program.
- 7) Save the compiled program.

Both companies say that GWBASIC source programs are very compatible with their compilers. Microsoft says that there may be some differences between GWBASIC and QuickBASIC in handling of nonstandard screen resolutions (for example, with AT&T PCs) and in serial port speeds (up to 9600 baud is probably all right). Borland says that there should be no problems in converting to Turbo BASIC.

Either of the BASIC compiler products will serve as a very good substitute for users' programming needs. Both products are available at many computer and software dealers. Only programmers will need a BASIC compiler, instead of each programmer and each user requiring a GWBASIC product. Also, the users will enjoy better performance with the compiled versions of BASIC programs.

Contact your HP representative for more information.

Desktop

HP 150/Touchscreen PC software discontinued

As previously announced, HP will be removing the following HP Touchscreen software from the HP Price List on October 1, 1989:

Product No.	Description
45418A	Executive MemoMaker
45566A	Lotus 1-2-3
45421A	Executive Card Manager
45437A	Graphics Gallery Collection
45412A	VT100 Terminal Emulator
45474D	Microsoft Word

These products will be supported for five years. Replacement media and documentation will be available through HP DIRECT.

Desktop

January 1 discontinuance of HP Word/150

HP Word/150, a PC-based word processor, will be discontinued on January 1, 1990, and will be supported for five more years.

The popular HP Word/PC product will continue to be supported on the HP Vectra industry-standard PCs. It is strongly recommended that HP Word/150 users move to HP Vectra PCs to take advantage of the continued support updates and integration with popular applications.

Ordering information

Product No.	Description
<i>HP Word/150</i> 27505A	3½-inch media single copy
27505L	10-user right to copy site license
<i>HP Word/Vectra</i> 27536F	5¼-inch media single copy
Opt. 003	3½-inch media single copy
27536L	10-user right to copy site license

HP Word/Vectra and HP Word/150 are localized in the following languages: British-English, Canadian-French, French, German, and Dutch. Additionally, HP Word/Vectra is localized in Danish, Finnish, Italian, and Norwegian.

Contact your HP representative for more information.

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Peripherals

Mass Storage

When to buy the HP 7936 and 7963 disk drives

Should you buy an HP 7937 or an HP 7963B? Which disk drive is right for your application? What is the decision criteria you should use when purchasing one of these two HP mass storage devices? The following checklist and selection matrix will aid you in making the right decision.

Buy the HP 7936/37 disk drives when you have or require the following:

- A high-end, high-performance, multiuser HP-PA system
- Large configurations
- Configuration flexibility (for example, long cable lengths)
- Interface flexibility (XP, HP-FL, HP-IB)
- Large transfer sizes
- Mean time between failure (MTBF) of 72,000 hours

Buy the HP 7963B disk drive when you have or require the following:

- Easy upgrade capability
- Traditional HP 3000 systems with small configurations
- Workstations
- Lower entry costs
- When there is no need for XP or no plans to migrate to HP-FL
- MTBF
 - 1 mechanism of 120,000 hours
 - 2 mechanisms of 70,000 hours
 - 3 mechanisms of 48,000 hours

Disk drive selection guide

Selection criteria	HP 7957/ 58/59S	HP 7957/ 58/59B	HP 7962/ 63B	HP 9262/ 63B	HP 7936/37
Low entry cost		X			
Future growth			X	X	X
Industry standard	X				
Open system required	X				
Office		X	X	X	
Workstation	X	X	X	X	
Data center environment					X
Factory floor environment					X
Small configurations	X	X	X	X	
Large configurations					X
Removability				X	
Performance flexibility					
▪ Cache					X
▪ Fiber link					X
▪ Large transfers					X
▪ Config flexibility	X				X

Networks

New TCP/IP applications for HP 4972A

Three new HP 4972A applications have just been introduced for management and maintenance of the most widely used transport protocol — transmission control protocol and internet protocol (TCP/IP). Network managers and system administrators of IEEE 802.3/Ethernet-based TCP/IP networks will find these invaluable in examining the behavior of their systems and applications.

The HP 18222A TCP/IP network performance analysis package will greatly assist you in collecting and analyzing data. This information can help control, manage, and troubleshoot problems on TCP/IP networks. Measurements include: a network summary of TCP/IP utilization and percentage of services used; activity levels for entries in the IP address list (which can also be generated from network traffic); server/client connection analysis of data throughput, retransmissions, response time, and packet and window sizes. Graphical displays provide a clear presentation of the data.

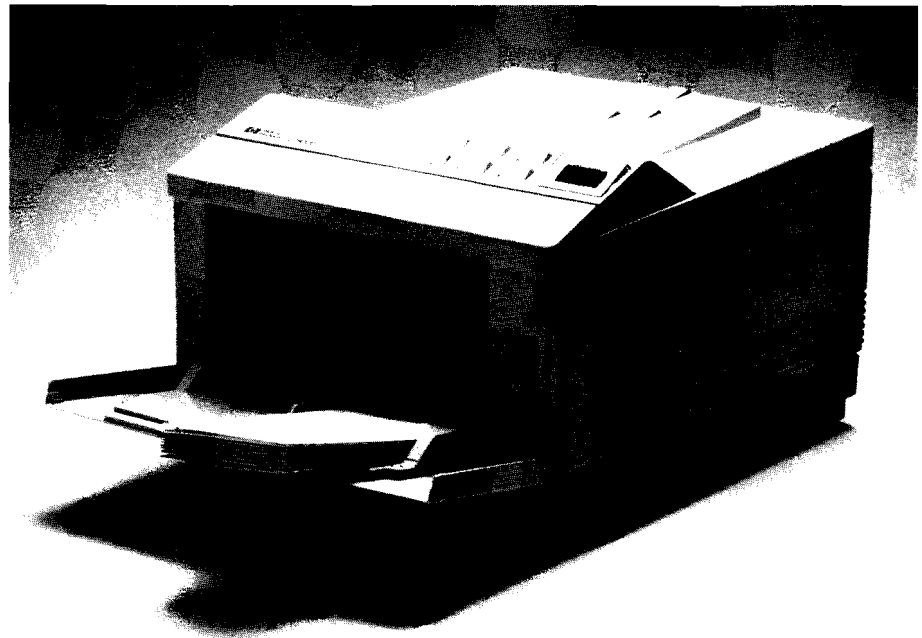
The HP 18228A network file system protocol interpreter package supports upper-layer protocols based on UNIX system-prevalent remote procedure calls (RPC). Decoded protocols include network file system (NFS), port mapper (PMAP), disk mount (Mount), and yellow pages (YP). Since these protocols use TCP/IP as a transport mechanism, the decode solution for this environment also requires the HP 18221A TCP/IP protocol interpreter package.

The HP 18221A TCP/IP protocol interpreter application, originally introduced in January 1989, has been revised to include commonly used Advanced Research Projects Agency (ARPA) services that include: Telnet (virtual terminal protocol), file transfer protocol (FTP), and simple mail transfer protocol (SMTP).

With over 60 vendors supplying TCP/IP networking components, end users often need to resolve finger-pointing issues. Increasing use of the network can result in longer response times and increased user frustration. Understanding the interaction of networked systems is fundamental to long-term management of TCP/IP networks. This requires the collection and interpretation of a vast amount of data. A tool such as the HP 4972A with its TCP/IP and upper-layer protocol interpreters and network-performance analysis packages can be of great assistance in increasing visibility of data communications on TCP/IP networks.

Printers

HP introduces 4-ppm HP LaserJet IIP printer



On September 17, 1989, Hewlett-Packard announced the worldwide introduction of the HP LaserJet IIP printer (P/N 33471A). The newest member of the HP LaserJet printer family is an affordable, personal laser printer, and can print four pages per minute.

Key features and benefits

- *A breakthrough price* — Allows professionals who share a laser printer to purchase their own HP LaserJet IIP printer. Cost-conscious users of 24-wire, dot-matrix printers can now afford a quality laser printer.
- *300 dpi laser print quality* — Creates professional-looking documents with publication-quality print.
- *HP LaserJet printer compatibility* — The HP LaserJet IIP printer is compatible with the HP LaserJet Series II printer and virtually every PC program. All HP LaserJet printer drivers support the HP LaserJet IIP printer. (Because of the HP LaserJet IIP printer's personal design and duty cycle, the printer will *not* be supported on the HP 3000 system.)

- *Personal design* — The HP LaserJet IIP printer is small enough to fit on a desk corner. And, unlike dot-matrix printers, it's quiet at 47 dBA.
- *Modular features* — Buy what you need. Users can increase the printer's paper-handling capabilities with the optional lower cassette, and add more memory for full-page 300 dpi graphics and downloaded fonts. The HP MasterType Library offers more choices for creating better-looking documents.

The printer's standard multipurpose input tray can automatically print 50 sheets of letter, legal, A4, and executive paper, plus five envelopes of Commercial #10, Monarch, DL, and C5 without requiring additional paper trays.

However, users can expand the paper-handling capabilities of the HP LaserJet IIP printer with the optional lower cassette that includes a 250-sheet letter paper tray. With the optional lower cassette installed, the printer's input

capacity is increased by 250 sheets of paper and true dual-bin functionality is possible.

The standard 512K of memory will handle most normal applications, but if users plan to print full-page 300 dpi graphics or download a large number of fonts, they will need additional memory. The HP LaserJet IIP printer has two memory slots so the user can increase printer memory in 1-Mbyte increments by using any combination of the 1-Mbyte and 2-Mbyte memory upgrades. The maximum memory configuration is 4 Mbytes, bringing total printer memory to 4.5 Mbytes.

All of the HP LaserJet IIP printer's options can easily be installed by the user.

- *More font functionality* — Internal to the printer are both portrait and landscape Courier fonts in 10- and 12-point families (regular, bold, and italic) and compressed line printer for a total of 14 standard fonts. The printer can automatically rotate a font into either portrait or landscape orientation.

HP is expanding the MasterType library with the introduction of the Great Start font cartridge (P/N C2055A #C01). For the first-time laser printer user, this new font cartridge is ideal for spreadsheets and general word processing. It is an affordable collection of fixed-pitch and proportional fonts that complement the printer's internal fonts.

- *Multiple emulation support* — Users can switch from dot-matrix printers to the HP LaserJet IIP printer and still protect their software investment with the optional Epson FX/IBM Proprinter emulation cartridge (P/N 33477A). This cartridge (available in

late 1989) will allow the HP LaserJet IIP printer to emulate the following Epson and IBM printers.

Epson	IBM
FX80	Proprinter
FX85	ProprinterII
FX86E	ProprinterIII
FX850	

Also, an Adobe PostScript cartridge will be available in early 1990 for users who need these capabilities and need to access the Adobe type-face library.

Ordering information

Product No.	Description
33471A	HP LaserJet IIP printer
33472A	Optional lower cassette with letter paper tray (P/N 92275B)
33472AB	Optional lower cassette with A4 paper tray (P/N 92275D)
33474A	1-Mbyte memory board
33475A	2-Mbyte memory board
33477A	Epson/IBM emulation cartridge
92275A	Black toner cartridge (EP-L)
92275B	Letter paper tray (8½-inch × 11-inch) for the HP 33472A/AB
92275C	Legal paper tray (8½-inch × 14-inch) for HP 33472A/AB
92275D	A4 paper tray (210mm × 297mm) for the HP 33472A/AB
92275E	Executive paper tray (7½-inch × 10½-inch) for HP 33472A/AB
92275F	Envelope tray for HP 33472A/AB holds 20 — U.S. Monarch, U.S. Com-10, European DL, and European C5 — envelopes

For more information, contact your HP representative.

Printers

Software support for HP LaserJet IIP printer

Virtually all popular PC software packages support the HP LaserJet printer family. (For a complete listing, refer to the "Peripheral Software and Hardware Solutions Catalog," P/N 5952-0005). In other words, the HP LaserJet IIP printer is compatible with all software applications supporting the HP LaserJet printer family.

Think of the most popular packages in word processing, page composition, desktop publishing, spreadsheets, spreadsheet enhancement, and database management — and you can be sure HP has you covered. Even specialized software packages that improve productivity are compatible with the HP LaserJet IIP printer.

Vendors of many popular software packages have written drivers directly for the HP LaserJet IIP printer. Examples include: Aldus Corporation, Funk Software, Lotus Development Corporation, Microsoft Corporation, WordPerfect Corporation, WordStar International, and the Xerox Corporation.

If the package you use is not produced by one of the companies mentioned, or if you are uncertain if a driver is available, contact the software vendor directly. If a driver is unavailable, use the printer driver for the HP LaserJet IID printer. If this driver is unavailable, use the HP LaserJet Series II printer driver. In any case, you'll have what you need to access the features of the new HP LaserJet IIP printer.

Printers

HP introduces Great Start font cartridge for HP LaserJet printers

On September 1, 1989, Hewlett-Packard introduced the Great Start font cartridge (P/N C2005A #C01) for the HP LaserJet IIP, LaserJet Series II, LaserJet 2000, and LaserJet IID printers. This cartridge has the most affordable collection of fonts for HP LaserJet printers that HP has ever offered.

The Great Start cartridge includes the following:

- CG Times, 11-point medium, bold and italic
- Letter Gothic, 3.6-point medium
- Letter Gothic, 12-point medium, bold and italic

CG Times is a proportional serif typeface; 11 point is ideal for office memos, correspondence, and technical documents. Letter Gothic is a fixed-pitch sans-serif typeface with a high-quality "typewritten" look. It is ideal for tables of data when aligning columns is necessary. The 3.6-point font is a legible, very small font (similar to phonebook type) for publishing dense spreadsheets on a single page.

All these fonts are in the Roman-8, PC-8, PC-8D/N, ECMA 94 Latin 1, PC-850, and DeskTop symbol sets, in portrait orientation.

For additional information, contact your HP representative.

Printers

Literature for HP LaserJet IIP printer

The following literature is available through your HP representative.

Lit. No.	Description
5953-6306	"What happens when a dream becomes affordable reality?" — 8½-inch × 11-inch color brochure that introduces the HP LaserJet IIP printer's features and benefits.
5953-6307	"HP LaserJet IIP printer Technical Data" — 8½-inch × 11-inch black and white.
5953-6309	"The HP printer family album" — HP LaserJet and DeskJet printers positioning guide.
5953-6313	"HP LaserJet IIP Printer Print Sample Booklet." Print samples created with various leading software and font products.
5959-7864	"Supplies, Accessories, Fonts, and Software for your HP LaserJet Printers" — Describes available supplies and accessories; includes toner cartridges and fonts.

Printers

PostScript printer cartridge now available for HP LaserJet IID printer

On October 2, 1989, Hewlett-Packard introduced worldwide a PostScript accessory for the HP LaserJet IID printer — the PostScript Printer Cartridge (P/N HP 33438P). The cartridge has a U.S. list price of \$995 and comes with a one-year warranty.

The PostScript Printer Cartridge gives HP LaserJet IID printer users access to the authentic Adobe-licensed PostScript page description language (version 51.9) and 35 licensed scalable typefaces. The cartridge is compatible with over 500 typefaces in the Adobe Type Library. Now HP can satisfy the needs of HP LaserJet IID printer users who have standardized on PostScript as well as on the PCL printer language.

The cartridge inserts into either of the printer's two font cartridge slots. The cartridge format allows users to easily share the printer or to share the cartridge between printers. A minimum of 2 Mbytes of printer memory is required to use the product. Duplex printing requires 4 Mbytes of printer memory.

The PostScript Printer Cartridge from HP gives users of IBM-compatible PCs and PS/2 computers compatibility with high-resolution PostScript output devices, such as typesetters and 35-mm slide-making equipment. It is also compatible with alternative computing platforms such as UNIX system workstations. The PostScript Printer Cartridge does not support Apple Macintosh computers.

For more information, contact your local HP representative.

UNIX is a registered trademark of AT&T in the U.S.A. and other countries.

More HP scalable typefaces available

To meet our users' scalable typeface needs, Hewlett-Packard offers an assortment of individual typefaces. (Watch for the introduction of more scalable typefaces in upcoming issues

of *HP Channels*.) Below is a list of part numbers, descriptions, and introduction dates for scalable typefaces, Type Director, and Premier Collection; all introduced since February, 1989:

Product No.	Description	Intro date
C2050A #D01	CG Times	February 1, 1989
C2050A #D02	Univers	February 1, 1989
C2050A #D03	Decorative 1	February 1, 1989
C2050A #D04	CG Triumvirate	May 1, 1989
C2050A #D05	ITC Zapf Dingbats	August 1, 1989
C2050A #D06	CG Century Schoolbook	June 1, 1989
C2050A #D07	ITC Lubalin Graph	May 1, 1989
C2050A #D08	ITC Avant Garde Gothic	May 1, 1989
C2050A #D09	Futura II	June 1, 1989
C2050A #D10	ITC Souvenir	July 1, 1989
C2050A #D11	Microstyle	June 1, 1989
C2050A #D12	Univers Condensed	July 1, 1989
C2050A #D13	ITC Benguiat	August 1, 1989
C2050A #D14	Garamond Antiqua	July 1, 1989
C2050A #D15	ITC Bookman	August 1, 1989
C2050A #D16	CG Triumvirate Condensed	September 1, 1989
C2050A #D17	CG Palacio	September 1, 1989
C2051A #ABA	Type Director	February 1, 1989
C2052A #ABA	Premier Collection, 3½-inch disk	February 1, 1989
C2054A #ABA	Premier Collection, 5¼-inch disk	February 1, 1989

Product features

Each product contains 5¼-inch and 3½-inch disks, and all (except for ITC Zapf Dingbats) contain 4 typefaces or treatments (i.e. regular, bold, italic, and bold italic.)

These scalable typeface products must be used with HP's Type Director, a font management program, to create fonts from 4 to 200 points. Type Director is available as a stand-alone product with 2 typefaces (CG Times and Univers Bold), or as part of Premier Collection with 12 typefaces (4 treatments of CG Times and Univers, plus 4 Decorative typefaces.)

Printer and screen fonts are created with scalable typefaces. Each product also contains a master symbol set of almost 600 characters. This allows one typeface product to meet a variety of printing requirements.

For more information, contact your HP representative.

Printers

HP 3000 support change for HP RuggedWriter printer

The HP RuggedWriter 480 printer is an excellent solution for personal computer and workstation users whose volume usage is less than 5,000 pages per month.

However, for HP 3000 users, we are no longer recommending the HP RuggedWriter printer. Effective November 1, 1989, HP will withdraw HP 3000 support from the HP RuggedWriter printer. There are no plans to discontinue the HP RuggedWriter printer, and we will continue to support our installed base of HP RuggedWriter printers on HP 3000 systems. However, HP service contracts will not be offered on HP RuggedWriter printers delivered after November 1, 1989, in any configuration where an HP 3000 sends data to the printer.

This decision has been made in response to the dissatisfaction of some HP 3000 users when the HP RuggedWriter printer has been used in inappropriate environments. Specific concerns have been:

- HP 3000 and HP 293X/256X incompatibility (the HP RuggedWriter printer is not plug compatible with the HP 293X/256X printers)
- Inability to control the 5,000 pages-per-month maximum supported print volume
- Suitability of HP RuggedWriter printer as a personal computer or workstation printer, not as a higher-volume printer for HP 3000 systems

HP will continue to provide the HP 2934A printer for HP 3000 systems. With a 12,000 pages-per-month maximum print volume, it provides a strong solution for HP 3000 users.

The HP RuggedWriter printer is still the fastest 24-wire printer in its class. User satisfaction is very high where the HP RuggedWriter is used appropriately. Over 90 percent of the 400 experienced HP RuggedWriter printer owners who returned surveys last year indicated that they would recommend the printer to a friend. The HP RuggedWriter printer provides an excellent solution for personal computer and workstation users who need fast, high-quality printing, but print fewer than 5,000 pages per month.

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Supplies

Supplies

HP DIRECT order phone numbers

HP DIRECT Fast Phones—the easy, direct way for users to order supplies, accessories, media, furniture, and software from HP DIRECT.

Location	Telephone Number
Australia	(03) 895-2645 (03) 895-2615 (03) 895-2815 (03) 895-2861 (03) 895-2619 (800) 339-861 (toll-free) (0222) 2500-614/615/616
Austria	(02) 761 31 11
Belgium/Luxembourg	800-387-3154
Canada	Toronto Local 416-671-8383
*Denmark	80 30 16 40
Finland	(90) 887 2361
France	(1) 69 86 17 25
Greece	(01) 672 6090
Italy	(02) 9236 9702
Japan	**Sagamihara 0120 091321 (toll-free)
Middle East/Africa,	
Geneva	(022) 831212
Norway	(02) 24 60 90
South Africa	
Johannesburg	(011) 802 5111
Cape Town	(021) 537 954
Spain	(91) 637 4013 (91) 637 0011
Sweden	(08) 750 2400
Switzerland	(057) 31 24 90
Taiwan	
Taipei	080-211228 (toll-free) (02) 717-9608
The Netherlands	06-0501
United Kingdom	(0734) 44 12 12
United States	800-538-8787
West Germany	(0130) 3322

*Phone number previously listed as (043) 01 640

**Phone number previously listed as 0427 59 1321

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: *Cross Industry — HP 3000 X.25 network users*

Abstract: PADEMU/3000 allows terminals connected to HP 3000 ATP/ADDC port to use an NS X.25 3000/V Network Link like a PAD to call HP or non-HP systems that provide PAD support. PADEMU/3000 does not use Network Services at all. It provides system-controlled access to private and public X.25 networks for all HP 3000 terminal users, regardless of the host. PADEMU/3000 is the first commercially available PAD emulator program for classical HP 3000 systems.

Features

- The PAD emulator supports the X.3, X.28, and X.29 recommendations as much as possible.
- At startup, the X.3 parameters are set to appropriate default values.
- Parameters may be inspected or modified using standard X.28 commands. A prepared set of parameters may also be read from a "profile" file. The name of such a file can be supplied with the INFO parameter when calling the emulator.
- Any node configured in SVCPATH screen of NNMGR may be called with CALL command. Communication with remote DTE is possible until one of the partners clears the VC.
- A powerful set of extended X.28 commands is provided that allows:
 - Logging of incoming data
 - Logging of accounting information
 - Special processing when connected to VAX hosts such as VT52 and VT100 support, etc.
 - Automatic call and exit
- Any number of concurrent connections is supported depending on the option ordered and the system limitations.

Company Name: HERMES

Address: Celovska 73
61000 Ljubljana
Yugoslavia

Phone: (38)-61-559-441

Fax: (38)-61-558-597

E-mail: *hplabs!hpbbn!hpuljua!rudi*
mcvax!uvie!hpuviea!hpuljua!rudi

Contact Person: Bric Rudi

Type of Distributor Wanted: Experience with networking on HP 3000

Geographical Coverage: Worldwide

Industry: *Mining and geological, earth sciences*

Abstract: Lynx systems, incorporating the latest in 3D component modelling technology, serves the full range of mining applications: exploration, evaluation, engineering, and design. Lynx is a comprehensive information management and processing system utilizing menu, interactive graphics, and 3D CAD facilities for user communication.

A modular structure enables users to select configurations precisely suited to their application requirements and budgets. Specific application modules provide modelling and design algorithms to match all mineral deposits, mining situations, and mining methods.

Features

- Accurate 3D representation of geologic structure and form
- Accurate, realistic 3D representation of grade and quality
- Innovative 3D interpretation aids
- Efficient long- and short-range mine design and planning
- Rapid analysis of operational changes
- Simulations of the effects of changing conditions
- Direct interaction with production models
- Single and multi-user architecture
- Integration of exploration and production disciplines
- Full user training and support available worldwide

Requirements: HP 9000 Series 300/800

Company Name: Lynx Geosystems Inc.

Address: #400 — 1199 West Pender Street
Vancouver, BC V6E 2R1
Canada

Phone: (604) 682-5484

Fax: (604) 669-3659

Contact Person: Brian K. Snyder
International Marketing Manager

Type of Distributor Wanted: Experience selling engineering workstation systems to mining companies.

Geographical Coverage: Worldwide

Industry: *Community banking*

Abstract: "THE TOTAL BANK SYSTEM" (TBS) is an all-application-integrated software package for individual, holding company, or multibranch banking organizations. TBS, operating on the HP 3000 family, targets banks from \$10 million to \$250 million in total assets. Applications include demand, savings, IRA, commercial loans, installment loans, mortgage loans, and customer information files. The system generates the daily accruals for loan and deposit accounts and posts the entries to the MCBA general ledger. In addition to over 600 reports that are available as stock printouts, the report generation capability of MCBA and PBNAP, along with general ledger download to electronic spreadsheet, provide a high degree of information flexibility and manipulation for bank management.

Company Name: First Total Systems, Inc.

Address: 1325 South Colorado Blvd. #24
Denver, CO 80222

Phone: (303) 753-0295

Contact Person: Jim Grimsley — CEO

Type of Distributor Wanted: A well-established U.S. HP VAB with existing exposure to the community banking industry or a corporate interest in dedicating adequate resources to market development would be a likely candidate for this cross-license venture.

Geographical Coverage: United States

Industry: *Cross Industry — HP 9000 Series 300 computer users*

Abstract: PlotPlus provides a complete hardware and software interface between HP 9000 Series 300 computer workstations and Versatec's wide range of electrostatic and thermal printer/plotters. PlotPlus users now have the ability to produce high-quality color and monochrome hardcopies through use of the rich command sets and functions provided by both the HP-GL command language and the extensive graphics functions of HP's Starbase graphics library, including CGM support. This unique combination of capabilities make Plot Plus the ideal solution for graphics hardcopy application requirements, including CAD/CAM, picture rendering, solid modeling, and imaging applications. All of this capability and versatility for much less than the cost of a video hardcopy controller alone.

General features

- Supports Versatec models from 8½- to 7-inches wide
- Uses DMA for maximum transfer speed and minimum system CPU loading
- Multiple plotter models on the same system
- Automatic device locking and unlocking to manage plotter contention
- Remote spooling that allows several workstations to have access to one plotter

Other features

- **PlotPlus bitmap capabilities** — These functions allow images created on HP Graphics displays, or stored as HP bitmap files, to be reproduced on Versatec plotters. The high-quality output produced is suitable for applications that involve solid modeling, area fills, and picture rendering in engineering, geological, business, and medical fields. Features include the following:

- Six run-time-selectable plotting modes: Color for solid modeling and picture rendering; Primary for color schematics and wireframes; Mono for quick, one-pass draft hardcopies; Gray for quick, one-pass shaded hardcopies; Raster Raw for previously rasterized plot data; Raster VLSI for producing plots from VLSI Technology, Inc. raster plot format.
- Palette size of 4096, with user-definable color tables
- Run-time-selectable pixel expansion factor
- Run-time-selectable pixel color dither cell size
- User-definable monitor gamma correction factor
- User-definable bitmap windowing using rubber-band rectangle input
- Program-accessible direct Versatec plotting routines for sending externally rasterized data to the plotters

- **PlotPlus HP-GL capabilities** — These functions convert HP-GL plotter files to Versatec Data Standard format for output onto Versatec hardcopy plotters. The plot elements have an addressable resolution of 9,025 mm (0,00098 inches) or can be selected to automatically scale to the full size of the Versatec plotter. The output produced is suitable for a wide variety of engineering and business applications, such as CAD/CAM/CAE and architectural drawing, where accurately scaled hardcopy output is required. Features include:

- Menus for setting plotting configurations
- Emulation of 11 HP pen plotters
- 10 paper sizes (A, B, C, D, E, A4, A3, A2, A1, A0)
- 15 pens in 7 colors and up to 31 widths
- Lower-case letter fonts
- Support for 41 commonly used HP-GL commands, including polygon and fill
- 18 different fill types
- Run-time-selectable drawing scale factor
- Run-time-selectable plot rotation
- Run-time-selectable automatic paper-sizing conversions
- Run-time-selectable Isotropic and Anisotropic coordinate mapping
- Drawing speed control
- HP Starbase, ME-10, and ME-30 HP-GL compatibility

Company Name: Interface Solutions (IS)

Address: 1320 North Beachwood Drive
Burbank, California 91506
U.S.A.

Phone: 818-762-9688

Contact Person: Pat Thompson

Type of Distributor Wanted: Open

Geographical Coverage: Worldwide

Industry: *Cross Industry*

Abstract: Offer your users — and potential users — a better software solution by enhancing the interface between your application software, the end user, and MPE. MAUI Manager is a user-friendly software utility that easily improves the interface between application software and MPE, and between application software and end users on the HP 3000.

MAUI Manager (MPE Application User Interface) combines — under one set of general rules — useful features of MAUI Command Language (improved MPE command language for online and batch processes), MAUI Scheduler (batch control by job scheduling and job queues), MAUI Control (enhanced access and password security), and MAUI Menu/Windows (menus, including multiprocessing at a single terminal), providing consistent interface attributes throughout.

By using MAUI Manager, HP 3000 system professionals can develop higher standard applications having a more efficient interface between the applications and MPE, as well as between the application and the end user.

Company Name: TPS Business Systems Limited

Address: 1100, 333 - 11 Avenue, S.W.
Calgary, Alberta, Canada
T2R 1L9

Phone: 403-269-4242

Fax: 403-266-2465

Contact Person: Gordon Croston

Type of Distributor Wanted: Software development firms that will integrate MAUI Manager into their software solution on a value-added basis.

Geographical Coverage: Worldwide

Industry: *Hotel Management — Software*

Abstract: The Hotel Management Package is developed by Oberoi Software, a division of Oberoi Hotels. The company has been in the hotel business for over 50 years and operates more than 30 deluxe properties in eight countries. Based on extensive hotel management and hotel automation experience, the software is tailored to meet the needs of every hotel in the international market.

Features

This extremely comprehensive package contains the following modules:

- Reservations
- Advance deposits
- Reception/information
- Cashiering
- Travel agency accounting
- Corporate accounts
- M.T.S.
- Night audit
- Package accounting
- Crew handling
- Accounts receivable
- System supervisor

Additional features

- User friendly with an on-line help feature
- A menu generator that can be user tailored
- A sound security system that can inhibit users at the program level

Requirement: HP 3000 system (any series)

Company Name: Oberoi Software

Address: 7, Shamnath Marg
Delhi - 110 54
India

Phone: 91-11-2525464

Fax: 91-11-2929800

Contact Person: Amlan Ghose
Export Manager

Type of Distributor Wanted: Open

Geographical Coverage: Worldwide

You can list your company in the **Cross-Licensing Classifieds** (either Software Packages Available or Software Packages Wanted) by sending the information in the format used here to:

Hewlett-Packard Company
Value-Added Channels Development
Attn: Marcia Nowicky
19091 Pruneridge Ave.
Building 46UV
Cupertino, CA 95014
U.S.A.

Entries will run for two months. The most recent additions are shaded. Be sure to send the information in at least one month before you wish it to appear.

How to get your name added to the distribution for *HP Channels*

If you work for a company that is a value-added business for Hewlett-Packard and want to receive a courtesy subscription to *HP Channels*, call Hewlett-Packard and have your sales rep add your name to the distribution list.

HP sales reps only: To add *new* U.S. or Canadian accounts to the distribution for *HP Channels*, please fill out a copy of "The Data Kit for Value-Added Businesses," P/N 5954-9091D, and return it to the appropriate contact listed on the cover page of the data kit. To add additional contact names to existing accounts, use your VALID edit sheets.

For accounts outside of the U.S. and Canada: contact Tracy Wester for the name of the person responsible for the distribution of *HP Channels* in your country.

Please address editorial correspondence to Tracy Wester at address listed below.

HP CHANNELS

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