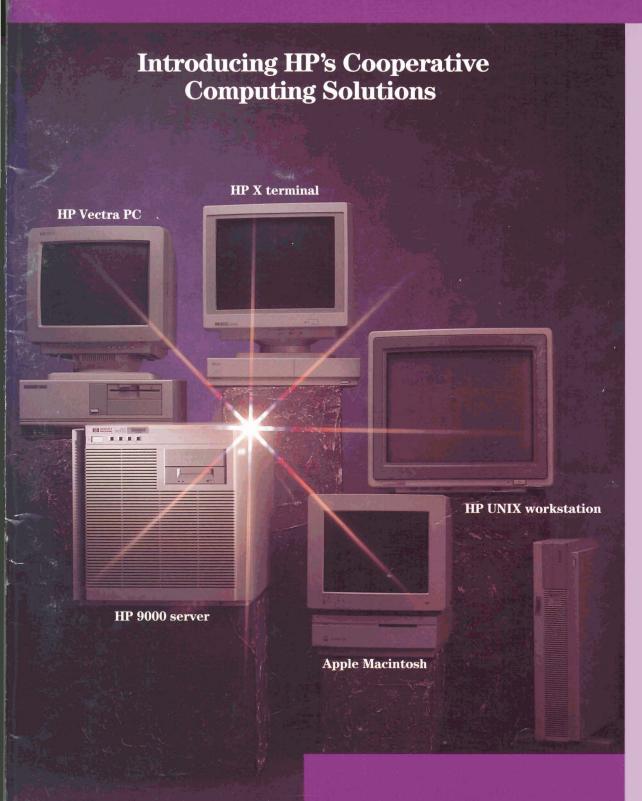
HP Computer Update A Publication of Hewlett-Packard September 1992



HP ALLBASE/SQL F.0 is enterprise software that provides main-frame-class functionality and performance with greater ease of use and lower administration costs.

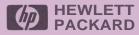
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With three new graphical browsers, an incremental linking facility, support for C++SoftBench 3.0, and an encapsulation of the Vi editor, the new SoftBench 3.0 release adds more functionality for the same price as the previous release.

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The new HP **DesignJet** 600 plotter provides hard-copy **output** for CAD and **drafting systems** and is **ideal** for experienced CAD users who **have out**-grown their pen plotters but not their pen plotter budgets.

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HP Computer Update

HP Computer Update is a monthly publication of Hewlett-Packard Company that provides information on new Hewlett-Packard computer software and hardware products, events, and promotions.

Managing Editor: Tracy Wester

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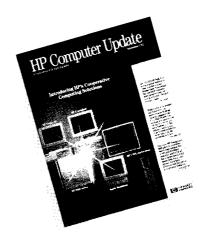
To order HP software or hardware products, call your HP representative. A telephone listing for sales offices in the U.S. and Canada appears on the back cover.

To receive literature or technical information on HP computer systems and workstations, and to order workstations and select computer products, call HP DIRECT at 800-637-7740 (U.S. only).

To receive technical information about any HP product, call the Customer Information Center: 800-752-0900 in the U.S., or 800-387-3867 in Canada

On the cover . . .

New HP Cooperative Computing Solutions provide integrated applications for business professionals interested in information technology for client/ server computing and open systems. New solutions include HP Knowledge Worker, Enterprise Information Server, and WorkRouter. See articles beginning on page 18.



HP Computer Museum www.hpmuseum.net

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New C++ Developer 3.0 release

ChangeVision for SoftBench

HPC++3.0

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Management Perspective



Greetings!I'm Carol
Mills and I'm the
General Manager of
Hewlett-Packard's
Cooperative Computing
Systems Division. This
issue of Computer
Update is dedicated to
client-servertechnologies and solutions. I
believe you will find
these topics to be quite
exciting as you think

about how they can be used in your environment and in your business.

After all, you, our customers, are all facing the challenging business climate of the 1990s — an unforgiving global competitive climate that demands massive improvements in the way companies provide goods and services. To succeed, you need to be more responsive — to develop products quickly, to market with precision, and manage with global dexterity. You need to be more agile, accelerate your decision-making abilities, and, at the same time, reduce costs. The old "tried and true" methods for fulfilling orders, developing new products, dealing with customers, and managing yourselves don't always fit a world that is increasingly more complex and competitive.

Many of our customers are examining the powerful, strategic application possibilities offered by today's information technology and client-server computing. These strategic applications include areas like customer service. Yesterday's customer service is organized product by product, function by function, with customer services tasks fragmented across the organization. Tomorrow's customer service involves knowing everything about your customers — all the latest transactions, needs, special requests, account history, and credit information. Other companies are restructuring their manufacturing processes. Their old strategies are based on mass production — high volume, low mix. The new competitive environment calls for agility and quality — and a need for the computer systems to deliver the data and information to enable "quick-shift"

decisions. They need to access the world of information from their own desktop in order to make the right decisions quickly.

These customers understand extremely well that their competitive position is linked to their successful implementation of these strategic applications. They are realizing that their current, monolithic computer technology may not get them there fast enough and they are looking at decentralization and client-server systems as an enabling foundation for restructuring their strategic applications.

Previous issues of *Computer Update* have focused on HP's early investment in reduced instruction set (RISC) computing technology and open systems, where we believed this would prove to be the technology of the future.

Time has proven us right and we are industry leaders in those technologies. HP has a similar position in distributed computing, client-servertechnology, and PC integration. We developed a vision, invested early, and are in a leadership position, both from a product and a solution perspective.

We start our integrated client-server solutions with world-class servers. Our RISC-based servers lead the industry in price performance. We add software building blocks on top of this solid base to address the strategic application need, whether it be accessing enterprisewide information, integrating applications, consolidating electronic mail systems, manipulating data, and the like.

This issue is dedicated to showing you this set of clientserver capabilities — to help you meet the business challenges that you are facing today.

Best regards,

Carol Mills

General Manager

Cooperative Computing Systems Division

we miss

HP Standard Furniture obsolescence

HP's Complementary Products Sunnyvale (CPS) plans to obsolete the following HP Standard Furniture on November 1. Replacements for most HP Standard Furniture products used with HP host products can be found in the HP Design Plus workstation furniture line, as follows. Contact your HP representative for more information.

Product No.	Description	Replacement
92210A	Compact workstation table (27H x 48W × 30D)	P/N 922148 medium system table (28.4H x 44.3W x 280)
92210B	Standard workstation table (27H x 60W x 300)	P/N 92214C large system table (28.4H \times 59W \times 28D)
92210C	Workstation table, right keyboard (27 H x 60W x 30 D)	P/N 92214F CAD workstation. adjacent tabletop/ keyboard holder (28.4H × 59W × 28D)
92210D	Workstation table, left keyboard (29H x 60W x 30D)	P/N 92214F CAD workstation, adjacent tabletop1 keyboard holder (28.4H x 59W x 28D)
92210E	Work surface extension (27H x 40W x 24D)	Attach any HP Design Plus unit with P/N 9221411 joining bracket kit
92210F	Desk storage shelf for PIN 92210A (23H x 47W x 12D)	none
92210G	Storage shelf for P/N 92210B/C/D (23H \times 59W \times 12D)	none
92210L	Caster set for P/N 92210A/B/C/D/P	Available upon request request
92210P	Printer stand (27H x 30W x 24D)	PIN 92214A Mobile terminal suppo (28.4H \times 29.5W \times 28D)
92210Q	Suspended drawer unit for P/N 92210A/B/C/D/E (28.4H x 14.8W x 28D)	P/N 92211N Mobile drawer unit (21H \times 14.8W x 19.4D)
92210R	Storage module unit for P/N 92210A/B/C/D {28.4H x 14.8W x 28D}	P/N 92211N Mobile drawer unit (19H x 23.6W x 19.4D)
92210T	Mobile workstation for terminals (28.3H x 30W x 28D)	P/N 92214A Mobile terminal support (28.4H x 29.5W x 28D)
92210U	CAD corner workstation (29H x 45W x 300)	P/N 92214K CAD corner workstatio (28.4H x 44.3W x 28D)
9221 0V	Corner turn, 90 degree (30 inches deep)	P/N 92214J corner turn, 90 degree (28 inches deep)
92210W	Task light for PIN 92210F/G/Z (mounts into desk shelves)	PIN 92213Q Task light with table clamp (mounts onto tabletop)
92210Z	Storage shelf for P/N 92210B/C/D (34H \times 59W \times 14D)	none
92211J	Compact workstation table (29H x 48W x 300)	P/N 92214B Medium system table (28.4H \times 44.3W x 280)
92211K	Standard workstation table (29H x 60W x 30D)	P/N 92214C Large system table (28.4H x 50W x 28D)

Events

Open Systems Concepts and Capabilities **Seminar**

For the U.S. only

Open systems technology can solve many of our computing problems. But where do you start? How do you understand enough about the capabilities of open systems technology to make the best decisions? HP's Open Systems Concepts and Capabilities Seminar (P/N H5125S) will help you get started. This one-day, free seminar will be held in the following Midwest locations in September and October. To register, call Jeanette Shortley at Hewlett-Packard, 708-505-8800 ext. 2786.

Benefits

- Understand the types of business problems for which an open systems environment is a logical, cost-effective solution.
- Learn how to justify moving to an open systems environment.
- Get a head start by understanding how to begin implementing open systems technology.

Topics

- Evolution to open systems
 Importance of standards
 Standards organizations
 Definition of open systems
 Benefits of open systems
 Application portability, scalability, and interoperability
- Business and technology problems open systems can solve
 How to get started
- Success stories
- Using a process road map

Location	Date
Indianapolis, Indiana	September 10
Detroit, Michigan	September 11
Chicago, Illinois	September 22
St. Louis, Missouri	September 22
Pittsburgh, Pennsylvania	October 8



The promotions listed in *HP Computer Update* contain brief information about HP promotions currently in effect — including new promotions, promotions with changes (underlined), and promotions that are ending.

For more details on any of the following promotions, contact your HP representative.

Special considerations may apply to some of these promotions, and discount percentages can vary by country. Note: promotional programs listed with a "Worldwide" scope may not be avadable in all countries. Check with your HP representative for local availability.

Hewlett-Packard assumes no responsibility for any errors that might appear in these listings.

HP 3000 Systems

Why Wait — Series 980 cho to HP 3000 Corporate Business System Upgrade

If you are upgrading your recent HP 3000 Series 980 system (shipped on or after December 1, 1991) to the HP 3000 Corporate Business System, you are eligible for promotional credits on the Series 980 system.

- **Scope:** Worldwide (check with your HP representative for local availability)
- Eligible products: P/Ns A1809A, A1811A, processor Opts. 881,882, 883, 884, plus Series 980 return credit/product Opts. 725,726,727, or 728

Start date: May 1, 1992
End date: September 30,1992
Promotion number: 2.634

HP 3000 Series 950/955/ 9601980 Delivery Incentive

If you are upgrading your HP 3000 Series 950,955,960, or 980 system to the HP 3000 Corporate Business System, you are eligible for promotional credits on the Series 980 system. You must take delivery of the Corporate Business System by October 31,1992.

- **Scope:** Worldwide(check with your HP representative for local availubility)
- Eligible products: P/Ns A1809A, A1811A Opts. 880,881,882,883, 884 plus return credit option for one Series 95X, 960, or 980
- Start date: May 1,1992
- End date: September 30,1992
- Promotion number: 2.635

HP 3000 Series 925/LX, 935.950 Installed Base Upgrade

If you own an HP 3000 Series 925/LX, 935,950 and are upgrading to the HP 3000 Series 937/LX, 947/LX, 957/LX, 967/LX, 977, or 987, you can receive 10% off the SPU, integrated peripherals, DTC and associated ports, rack cabinets (P/N A1883A/84A), and associated options, as well as 15% off selected software products.

- **Scope:** U.S., Canada, and Europe (check with your HP representative for local availability)
- Eligible products: P/Ns A1707A/ 08A/09A/10A/52A/57A/58A/72A, A2300A/17A
- Start date: June 1,1992End date: October 31, 1992
- Promotion number: 2.642

HP 3000 Series **6X/70** Installed Base Upgrade

If you own an HP 3000 Series 64, 68, and 70 and are upgrading to the Series 937/LX, 947/LX, 957/LX, 967/LX, 977, or 987, you can receive 10% off the SPU, integrated peripherals, DTC and associated ports, rack cabinets (P/N A1883A/84A), and associated options, as well as 15% off selected software products.

- **Scope:** U.S., Canada, and Europe (check with your HP representative for local availability)
- Eligible products: P/Ns A1707A/ 08A/09A/10A/52A/57A/58A/72A, A2300A/17A
- Start date: June 1,1992End date: October 31, 1992
- **Promotion number:** 2.641

Workstations

HP 9000 Series 300 Trade-up



If you purchase an HP A2240A or A2251A and trade in your HP 9000 Series 300 or 200, you can receive a promotional discount per unit traded in.

- Scope: For North America only
- Eligible products: P/Ns A2240A/ 41A/42A/50A/51A
- Start date: March 1, 1992
- End date: September 30,1992
- **Promotion number:** 2.613

HP GlancePlus UX Trial Software Kit Discount

If you purchase an HP GlancePlus UX license within 90 days of purchasing an HP GlancePlus UX trial software kit, you can receive a promotional discount off the price of the software license.

Scope: For North America only

• Eligible products: P/Ns B1790A, B2660A, B1791A, B2661A, B1807A, B2804A

Start date: April 1, 1992 End date: December 31, 1992 Promotion number: 2.626

HP Design Plus Workstation Furniture promotion

If you purchase a quantity of three, of any combination of eligible products, you will receive a task chair at no additional charge.

- Scope: For North America only
- Eligible products: P/Ns 92213B/F and 92214K (workstation tables), 92214A/B/C (system tables), 92211N/R (cabinets)
- Start date: May 1,1992End date: October 31,1992Promotion number: 2.630

Buy a Model 720/730 and X Station – receive memory discount

If you order an HP Apollo 9000 Model 720 (P/N A1933A) or a Model 730 (P/N A1950B) server with 64 MB of RAM and at least one X Station configuration (on the same order), you can receive a promotional discount on 32 MB of the 64 MB of memory ordered. If you order HP mechanical engineering or data management software,

you will receive a 10% discount off the list price of that software. Also, if you order SoftBench (P/N B2600A), you can receive a 10% discount per license ordered.

• **Scope:** For North America, Mexico, and Latin America only (check with your HP representative for local availability)

Eligible products: P/Ns A1933A, A1950B, B2600A, C2705A Start date: June 1,1992 End date: October 31, 1992

• Promotion number: 2.645

Software Transfer Program

If you are moving from an HP 9000 Series 300/400 HP-UX platform to an HP Apollo 9000 Series 700 PA-RISC platform, you are eligible to transfer software licenses and receive the discounts on the Series 700 products.

• **Scope:** Worldwide (check with your HP representative for local availability)

Eligible products: Check with your HP representative Start date: June 1, 1992

• **End date:** November 30, 1992

• Promotion number: 2.648

3D Aggressor — Model 720CRX



You can purchase the HP Apollo 9000 Model 720CRX-24Z for the promotional price of approximately \$25,500. Also, you can purchase the Model 720CRX-24 at the promotional price of approximately \$24,000.

• **Scope:** Worldwide (check with your HP representative for local availability)

Eligible products: P/Ns A2263A/64A

Start date: September 1,1992End date: December 31,1992

• **Promotion number:** 2.670

Domain "Welcome Back to Support"



If you are currently unsupported and sign up for a minimum of one year of ApolloLine Support or one year of Domain/OS Software Only Support, you can receive a 50% promotional discount on any Basic Software Update required to bring your system up to date.

• **Scope:** Worldwide (check with your HP representative for local availability)

Eligible products: Check with your HP representative

• Start date: September 1, 1992

• End date: February 28, 1992 Promotion number: 2.672

Networks

Enhanced Competitiveness — **DTC16** Solution

If you purchase an HP 9000 Series 800 or 900 Series HP 3000 system with one or several HP DTC16s (data communications and terminal controller), you are eligible for a promotional discount on the DTCs. The DTCs must be fully loaded (two asynchronous options providing 12, 14, or 16 ports per DTC16, depending on the option combination).

- **Scope:** Worldwide (check with your HP representative for local availability)
- Eligible products: Check with your HP representative
- Start date: July 1, 1992
- End date: December 31,1992 Promotion number: 2.655

Peripherals

HP Block Mode Terminal Trade-in

If you purchase a minimum of five HP 700/96 or 700/98 block mode terminals, you can trade in five of your old HP 3000 block mode terminals and receive a trade-in credit. One trade-in credit per eligible terminal order.

- Scope: Worldwide (check with your HP representative for local availability)
- Eligible products: P/Ns C1064A/ G/W, C1065A/G/W, C1084W, C1085W. Block mode terminals: 262X/4X, 239X, 700/92, 700/94
- Start date: March 1, 1992
- End date: October 31,1992 (extended from August 31)
- Promotion number: 2.611
- Redemption: Available also by contacting HP DIRECT at 800-225-5290 in the U.S.; for other countries contact local **HP DIRECT offices**

Byte for Byte — Disk Drive Trade-in

If you order any of the eligible multiuser C225X disk arrays, you can trade in "byte for byte" eligible HP disk drives and receive trade-in credit.

- Scope: North America, Latin America, Europe (check with your HP representative for local availability)
- Eligible products: P/Ns C2252B/ HA, C2254B/HA; trade in: 7933/35/ 36/37, C2200/01/02/03/04
- Start date: May 1, 1992 • **End date:** October 31.1992
- Promotion number: 2.636

Silvers to Gold



If you purchase an integrated system including 16 MB of memory, 670 MB of disk, 1.3 GB DAT tape, 8-port MUX, 8-user license, and a system console, you can receive the entire system for a promotional

- Scope: North America
- Eligible products: P/Ns A1716AR/40AR, A1404AR/36AR, or C2282AR
- Start date: August 1,1992 • **End date:** October 31, 1992
- Promotion number: 2.659

DesignJet Plotter 10W Sell Off



If you purchase an HP DesignJet plotter during the promotional time period, you can receive a 15% promotional discount.

- Scope: North America
- Eligible products: P/Ns C1633A, C1633B
- Start date: August 1,1992 • End date: October 31,1992 • Promotion number: 2.660

60-Day Money-Back Guarantee on 700/60 **Terminals**

If you are interested in evaluating an HP 700/60 ergonomic terminal, you can order a terminal with this risk-free offer. HP will accept return of the product for 60 days after shipment and will also pay the return freight.

- Scope: North America
- Eligible products: P/Ns C1080A, C1080G
- Start date: August 1, 1992 • End date: October 31, 1992 • Promotion number: 2.664

Optical Library Trade-In



If you are a current Optical Library user, you can trade in your used unit and purchase a new highperformance drive library (Models 20C, 60C, or 100C), of equivalent or greater capacity, and receive tradein credit. Exception: Model 10 can only be traded in for a Model 20C or higher.

- **Scope:** Worldwide (check with your HP representative for local availability)
- Eligible products: P/Ns C1700C/ 04C/10C/14C/15C
- Start date: September 1,1992 • End date: June 30,1993
- Promotion number: 2.671

Support

Software Assistance **NEW System Support Discount**

If you purchase eligible HP 9000 Series 800 Business Servers, you can receive a 35% promotional discount off HP System Support — Software Assistance.

- **Scope:** Worldwide (check with your HP representative for local availability)
- Eligible products: P/Ns A1703A/ 04B/06A/51B/65A/66A/68A/69A, A2306A/07A
- Start date: September 1, 1992
- End date: October 31, 1992
- **Promotion number:** 2.673

HP 3000 client/server computing

For perhaps the last 10 years, users have yearned to unlock the promise of clienvserver computing, combining the user interface potential of the desktop computer with the datahandling capabilities of larger hosts. However, until now, both economics and available technologies have prevented the widespread proliferation of clienvserver computing.

More recent developments — both economic and technological — argue that 1993 and the remainder of the decade will witness dramatic growth in clienvserver computing. Developments in the near future — both in the marketplace and on the HP 3000 — ensure that the HP 3000 will be a leader in the emerging era of clienvserver computing.

With recent and ongoing PC price reductions and the increasing software functionality available for personal computers, the PC is well on its way towards true ubiquity in the business environment. A few years ago it was predicted that, due to the cost of PCs versus terminals (a price differential of up to 10 times), only highly skilled knowledge workers or application developers would use PCs for their everyday decision-supportand programming tasks. The increasing price commoditization and explosion of software available for PCs have dramatically altered this scenario. The price spread between graphics-capable terminals and PCs has narrowed to a two-to-four times differential or even less if diskless PCs are considered. Personal

computer memory, a critical element for the support of powerful graphical user interfaces, has declined steadly in price. In addition, the compute power available on the desktop has increased steadily with dramatically improved price/performance.

Due to the rapidly declining prices of PCs, the economics for client/ server computing have improved steadily. And there has been technical progress in software functionality, as well. Today, there are a number of well-recognized tools that support the development of clienvserver applications. The HP 3000 today supports a number of leading 4GL clienvserver application development toolsets such as those from Cognos, Information Builders Incorporated, PowerSoft, Uniface, and Gupta.

At the same time that clienvserver computing has begun to gain momentum through the availability of 4GL clienvserver application development toolsets, database interface standards have also begun to emerge. SQL (Structured Query Language) was invented by IBM in the 1980s as the interface for relational database technology and has been adopted as an ANSI standard. Today, a version of SQL is supported by nearly all relational databases, although nonstandard extensions are not uncommon. As an ANSI standard interface for relational databases. SOL could be considered attractive as the standard database interface for client/ server applications utilizing relational database technology. In this

scenario, the application resides on the client and makes calls to the database on the server through an interface that resides on the client. Networking between the client and the server handles the transfers of the requests to the database and the resulting reply. However, SQL, as originally defined by IBM and adopted as an ANSI standard, has some shortcomings for clienvserver computing. SQL defines what is known as an embedded interface. This means that the programmer codes high-level Enghsh-like SQL commands in the application program. A preprocessor is then used to translate these high-level Enghsh-like SOL commands into programmatic calls. After preprocessing, the application program is compiled and linked. While this approach works well enough for host-based applications and allows differently implemented databases to support a common high-level command structure, it is unwieldy for clienvserver 4GL application development toolsets which eliminate the need for traditional programming, including even the coding of Enghsh-likeSQL commands. For 4GL application development toolsets, a traditional call-level interface is more appropriate since this is hidden from the application developeranyway and the additional step of running a preprocessor is eliminated. For this reason and also in the interests of providing a standard call-level database interface supported by all databases, HP has been a leader in the SQL Access Group, an industry organization committed to the development of a standard call-level relational database interface.

At the same time that SOL has been gaining strength as an industrystandard database interface and the SOL Access Group has been defining a standard call-level interface, client/server computing also has been steadily gaining momentum and has, to some extent, become linked with SOL in that many PC client database interfaces are based on the same capabilities that SQL provides. This is true with widely installed client database interfaces such as that provided by Gupta and will be true of future PC client database interfaces such as ODBC (Open Database Connect), which is the call-level database interface developed by the SQL Access Group. In an interesting development, which is likely to have wide implications for client/server computing, ODBC has been adopted by Microsoft® and will be bundled as part Microsoft's Windows product in 1993.

Robust high-performance databases are critical for successful client/server computing. The HP 3000 provides two HP databases: HP TurboIMAGE, an acknowledged leader in mission-critical business OLTP applications; and HP ALLBASE/SQL, a full-functioned relational database with the highest relational database performance in the industry.

While HP ALLBASWSQL has always provided an SQL interface, HP will, in the first half of 1993, deliver SQL for IMAGE, a read-and-write SQL interface for HP TurboIMAGE. While the HP ALLBASE/SQL TurboConnect product has provided read access to TurboIMAGE

from ALLBASE/SQL for a number of years, the new interface will expand the ability to use SOLbased application development toolsets for the development of TurboIMAGE applications. In addition, it will be possible to use SOLbased PC client interfaces against TurboIMAGE so that it becomes possible to use 4GL SQL based client/server application development toolsets supported by relational databases such as ALLBASE/SQL to develop client/ server TurboIMAGE applications. In addition, the SQL interface for TurboIMAGE will also support 4GL client/server application development toolsets based on ODBC, the likely future industry standard for PC client database interfaces.

The HP 3000 is perfectly poised to be a key player in the emerging world of client/server. The HP 3000 provides the unique combination of TurboIMAGE and ALLBASE/SQL, the highest performance OLTP and relational databases in the industry. Both of these databases will support an SQL interface, and both will provide leading support for client/server computing. ALLBASWSOL, HP's relational database, continues to receive significant increases in performance and functionality. The newest release, available with MPE/iX 4.0, provides 30% better performance than the previous version. Functionality has been dramatically increased, as well, with the addition of new features such as stored procedures, business rules, triggers, two-phase commit, and record-level locking. TurboIMAGE also continues to receive enhancements with the recent addition of critical item update and generic key search capabilities.

In addition to support for client/ server computing via PC database interfaces, the HP 3000 today also supports the leading de facto PC LAN standards: Novell NetWare and Microsoft's Lan Manager, thus enabling the HP 3000 to serve as a file and print server for PC networks using these networking protocols. In the first half of 1993, the HP 3000 will add support for AppleTalk and AppleShare, thus allowing the HP 3000 to serve as a file and print server for Apple Macintosh desktop computers.

The HP 3000, the world's most costeffective and reliable platform for mission-critical business applications and the very first system in the world to offer a commercial operating system on a RISC architecture, is perfectly poised for the next generation of applications, which will be based on the client/ server model. The HP 3000, with nearly 20 years of providing complete object code, command, and JCL compatibility, offers a choice of two high-performance databases, both of which provide support for the industry standards that will play key roles in the client/server computing paradigms of the future.

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Introducing HP ALLBASE/SQL V F.0

A new version of HP ALLBASWSQL for HP MPE/iX 4.0 and HP-UX 8.0/9.0 (P/Ns 30368A and 92683A) has been introduced.

This new version of HP ALLBASE/SQL is ideal for HP 3000 and 9000 users that want a high-performance portable relational database for HP platforms, mainframe downsizing users, and users who want to build client/server applications for high-volume online transaction processing.

Features and benefits

- High performance Version FO has 30% greater performance and a new client/server engine design to meet user needs for high-volume, online client/server applications. The new version supports large-capacity databases and up to 1,700 concurrent users. Performance on HP Corporate Business Systems is estimated to be 400 TPS.
- Remote data access software HP ALLBASE/NET is bundled at no charge with ALLBASWSQL.
- Database shadowing HP ALLBASE/SQL provides fault-resilience and 24-hour availability of data by allowing multiple copies of the database to be maintained at multiple sites. This promotes fast access on the network, 24-hour availability on the primary system, instantaneous remote updates, and automated recovery after failures.

- Stored procedures, business rules, and triggers in the database engine This provides a performance increase for client/server applications using network traffic because it reduces the communication overhead. Users also benefit by the reduction in application development time.
- Row-level locking This gives maximum concurrency of applications.
- Standards compliance Version F.O includes new ANSI SQL and X/OPEN compliant functionality such as XA interface compliance for distributed transaction management, deferred and check constraints, ANSI Level 2 compliance, and multiconnect capability, which allows up to 32 HP ALLBASWSQL databases to be open simultaneously.
- Tool support Version FO supports dynamic file expansion, C and Pascal application access to DB2 databases on IBM mainframes, and third-party client/ server tools for application development.

Product positioning

HP ALLBASWSQL FO is enterprise software that provides mainframe-class functionality and performance with greater ease of use and lower administration costs. Version FO provides standards-based portability for applications and seamless integration of HP servers and PC client software. Through standards and support of third-party tools, this version provides an easy mechanism to offload applications and data from a legacy mainframe to an equally powerful but more open and portable HP platform.

New two-tier distribution channel for HP 3000

For the U.S. and Canada only

Hewlett-Packard has created a two-tier distribution channel to provide HP products and support to low-volume HP 3000 channel partners. Through this channel. HP will sell HP 3000 Series 9X7 systems and associated peripherals to a third-party team that will distribute these products to authorized resellers. Program objectives include cost effectively improving service, support, and product availability for select channel partners and maintaining a competitive channels strategy for the HP 3000 platform.

HP worked with several of its entities experienced with two-tier distribution channels and industry consultants to develop a thorough distributor evaluation and selection process. After a four-month evaluation, HP chose Distribution Resources Company (DRC) and Jntelligent Electronics (IE). DRC and IE will work together to provide product and support programs for the new channel.

The DRC/IE team offers channel partners a large, efficient distribution network and extensive HP 3000 technical resources and experience. DRC's services include configuration assistance, PC-based automated quotation systems, order processing, customized support, and consulting services. IE stocks HP 3000 computers and peripherals products.

Contact your HP representative for more information.

HP MPE V Welcome Back Program

At the 1992 INTEREX Computing Management Symposium (ICMS) held in Atlanta, Georgia, Mark Solle, HP's Software Technology Division (SWT) general manager, presented HP MPE V plans for future enhancements and releases. Twelve enhancements and thuty-five fixes will be available in HP MPE V Releases 23 and 2P, shipping in May and October, respectively. The HP MPE V enhancements are for improving system management and operation, increasing compatibility, and making nugration to HP MPE/iX easy.

ICMS attendees who have left the HI³ support program indicated an interest in the new enhancements and in reestablishing support without the associated penalties and setup charges. In response to this customer feedback, HP is announcing the HP MPE V Software and Hardware Support Welcome Back Program, which is for worldwide HP MPE V software and hardware customers who want to take advantage of new MPE V releases but have discontinued their support contracts. The program runs July 1 through December 31, 1992. Customers may sign up for hardware or software support or both.

Software support

Users will receive the enhanced HP MPE V Release 23 or 2P and subsystems updates to be installed by the users. Asoftware update manual and the Communicator will be included. HP will waive return to support (P/N H2061A) charges for users who meet four requirements: users must sign for a minimum of one year of software support and software materials services; have canceled support prior to July 1, 1992; have valid HP software licenses; and sign the Product Software Record Sheet to provide a record of software to be updated.

Hardware support

HP will verify product operating condition through an inspection and waive the user-paid inspection fee for users who sign for a minimum of one year of hardware support. Hardware products must be in normal operating condition and at current specified revision levels to be eligible for hardware maintenance. Any work performed by HP to return products to normal operating condition, confirm products are in normal condition, or bring them to the current revision level is subject to HP's standard time-and-material service rates.

For more information

Users in the U.S. should contact SWT telesales at 800-237-3990; outside the U.S., contact your local sales office.

HP NetWare/iX performance improvements

The HP 3000 strengthens its PC integration offering with significant performance enhancements for the HP NetWare/iX product. Test results show that throughput performance has improved by up to 1,000% while utilizing considerably less CPU resources compared to the original NetWare/iX product. In addition, NetWare/iX performance under load now surpasses an Intelbased HP Vectra 386/486 PC running native NetWare. The HP 3000 provides users with a PC LAN server solution that offers the benefits of high online transaction processing (OLTP) performance and access to HP 3000 applications.

Product description

HP NetWare/iX Version 3.01 is a fully compatible NetWare server product that provides transparent integration for NetWare clients. HP NetWare/iX provides the functionality of Novell's NetWare services including file and printer sharing; server administration and management; and APIs, including the Sequenced Packet Exchange (SPX) protocol for developing client-server applications.

Performance results

The outstanding performance results for the NetWare/iX product are attributable to innovative performance tuning. Compared to the original product, throughput performance has improved from 245% up to 1,000% depending on the user load. Additionally, CPU utilization has decreased by 90%.

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When comparing NetWare/iX to an Intel-based HP Vectra 3861486 PC running native NetWare, results show that NetWareliX performance is now at par for low user loads and surpasses the performance of an HP Vectra 3861486 PC at more than 40 users. As more users are added, throughput degradation occurs more rapidly for an HP Vectra 3861486 PC than for NetWareliX.

The server used in testing was an HP 3000 Series 917LX. The benchmark used was the PC Magazine benchmark, which is used to characterize HP's file server performance.

The HP 3000 offers a broad family of scalable, reliable, open, and secure computer systems. The functionality and high system availability provides the foundation for business-critical applications to run on the HP 3000. NetWareliX brings the full-function computing resources and applications of the HP 3000 to the desktop.

For NetWare users looking for a scalable and secure application server, the HP 3000 is the answer. We feel that the HP 3000 system's growth path and extensive offering of applications and security features cannot be duplicated by any PC-based server. NetWare's API (SPX) provides users with the ability to port business-critical applications to the HP 3000 and take advantage of an OLTP-tuned server. The file and print sharing features of NetWare/iX provide value-added capabilities to the API feature set.

For NetWare users looking for a dedicated PC LAN server, either a low-end HP 3000 system or an HP Vectra 3861486 PC can be used. The benefit of using an HP 3000 is having all services in one manageable system.

Availability

NetWareliX performance enhancements will be available as an HP MPE/iX 4.0 release patch in September or October.

New HP 3000 Series 947LX and 947 license option upgrades

The HP 3000 Series 947LX and 947 were recently restructured to come standard with 100-user licenses. The following describes how to upgrade from Series 947 and 947LX 64-user license option to 100-user license option.

Product No.	Description
A1708B	HP 3000 Series 947 field upgrade ¹
Opt. 856	From Server 947, 64 user
Opt. 866	From Series 947.64 user
A1759B	Series 947LX field upgrade ²
Opt. 856	From Server 947LX, 64 user
Opt. 866	From Series 947LX, 64 user

¹Available on the September HP Price List. ²Available on the October HP Price List.

New field upgrade path to HP 3000 Series 987

You can now upgrade directly to HP 3000 Series 987 from Series 957. Effective September 1, the following options to field upgrade to Series 987 (P/N A2318A) were added to the HP Price List.

Product No.	Description
A2318A	Upgrade to HP 3000 Series 987
Opt. UCJ	Credit for 100-user license on Series 957
Opt. UCK	Credit for unlimited user license on Series 957
Opt. 858	From Server 957
Opt. 868	From Series 957

Ordering HP PBA-IB for HP 3000 Corporate Business System and Series 9X7 systems

Users who wish to purchase the HP Precision Bus Adapter (PBA) for use with the HP 3000 Corporate Business System and Series 9X7 systems need to specify options. Option 001 allows users who already have HP-IB cards to move them forward by deleting the interface card and providing only the PBA. Users must order Option 002 with the Corporate Business System to receive the correct PBA.

Ordering information

Product No.	Description
A1747A	HP PBA with HP-IB interface card for Series 9X7
Opt. 001	HP PBA without HP-IB interface
Opt. 002	card for Series 9X7 or 9901992 HP PBA with or without HP-IB
	interface card for Series 990/992

PB HP-FL fiber-optic peripheral interface for HP MPE/iX

The PB HP-FL Precision Bus Fiber-Optic Peripheral Interface for HP MPE/iX (P/N 28616A) is an interface that allows 900 Series HP 3000 systems with HP-PB backplanes (NIO systems) to connect to HP-FL disk arrays and disk drives.

The interface replaces the PBA HP-FL chan-span adapter (P/N A1748A) which provided users with a fiber-optic peripheral interface for NIO HP 3000 systems. The new PB HP-FL interface card does not require the chan-span adapter because it connects directly to the HP-PB backplane. Disk arrays are supported only on precision bus systems via the PB HP-FL card and will not be supported via the PBA HP-FL chan-span adapter card.

Features and benefits

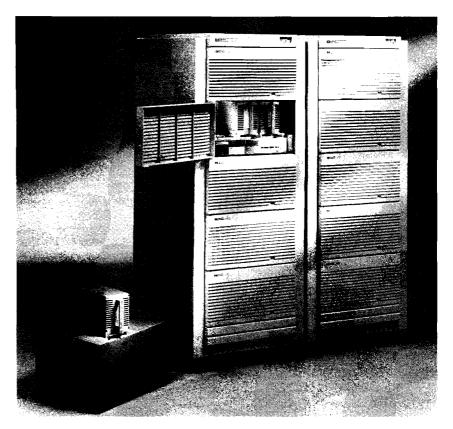
- Long cable distance (up to 500 m of cabling)
- High-availability support
- Performance of up to 5 MB/s burst data transfer
- Up to 8 disk arrays or 8 disks per HP PB-FL adapter
- Immunity from EMI and RFI of the fiber-optic cable

Ordering information

The HP PB-FL can be ordered **as** an option to 900 Series systems with precision bus backplanes or **as** an add-on product to 900 Series systems.

Product No.	Description
900 Series optio	n
Opt. 410	PB-FL adapter includes FL adapter card, 30-m fiber-optic cable, PBus terminator, and installation manual
900 Series add-o	on product
28616A	HP PB-FL adapter includes FL adapter card, 30-m fiber-optic cable, PBus terminator, and installation manual
Opt. 001 Opt. 002	Deletes standard 30-m fiber-optic cable Adds 12-inch loopback cable

Multiuser system disk array prices reduced



Effective August 1, prices of the following HP-FL high-availability disk array products for 900 Series

HP 3000 and HP 9000 Series 800 multiuser systems were reduced by approximately 15%.

Product No.	Description
C2254HA	5.4-GB high-availability disk array (consists of 5 disk modules)
C2254B	5.4-GB disk array (consists of 4 disk modules)
C2252HA	2.7-GB high-availability disk array (consists of 3 disk modules)
C2252B	2.7-GB disk array (consists of 2 disk modules)
C2251A	1.3-GB replacement disk module (can be used to expand capacity or add data protection]

Localized versions of HP DeskManager 5

Localized B.05.00 versions of HP DeskManagerand HP DeskManagerPLUS (P/Ns 36570X and 36567X) are now available. The initial languages included are French, German, and Italian.

Ordering information

HP DeskManager product numbering will not change, but (as with English language versions) documentation must now be ordered separately from software.

Product No.	Description
27576AD	German documentation set
27576AF	French documentation set
27576AZ	Italian documentation set

New pricing for HP Software Integration Sockets

HP Software Integration Sockets has been restructured to conform with the direction of HP software products and allow for a more competitive system tier price scheme. The development services for the HP platforms have been retained. Development services for non-HP platforms have been discontinued.

The two development products are identical except for the platforms each supports: HP Software Integration Sockets for MPE XL or MPE/iX (PIN 92767A) and

HP Software Integration Sockets for HP-UX (PIN 92768A). For users who do not already have HP Software Integration Sockets, the purchase of at least one development product is required. They include startup services and a development license. The services are delivered by HP factory engineers or qualified field engineers and include up to five days onsite startup consulting, up to three days factory training, and three months limited factory phone support. These focused services can get a customer site up and running in days instead of weeks or months — a benefit to mission-critical operations within an enterprise.

The development product must be purchased for the largest system in the HP Software Integration Sockets domain.

Product No.	Description
92767A	HP Software Integration Sockets for MPE XL/iX development product
92768A	HP Software Integration Sockets for HP-UX development product

The following two products are the corresponding run-time licenses for additional systems. Media and manual purchase is optional.

Product No.	Description
92616A	HP Software Integration Sockets for MPE XL/iX run time
92568A	HP Software Integration Sockets for HP-UX run time

There are five non-HP platforms supported by HP Software Integration Sockets: MVS/TSO mainframes, MS-DOS" PCs, SunOS workstations, AS/400 systems running OS/400 operating system, and VAX systems running VMS. These products require a nondedleated HP 9000 in the network running PIN 92768A or 92568A.

The products are structured as license-to-use products and media/manuals products. License products can be ordered in any quantity but require the purchase of at least one corresponding media/manuals product. Ordering of a media/manuals product requires the concurrent purchase of a corresponding license product.

Product No.	Description
92730B	HP Software Integration Sockets for MVS/TS0
92740B	HP Software Integration Sockets for MVS/TS0 medialmanuals
92731B	HP Software Integration Sockets for DOS license to use
92741 B	HP Software Integration Sockets for DOS media/manuals
92732B	HP Software Integration Sockets for SunOS license to use
92742B	HP Software Integration Sockets for SunOS media/manuals
92733A	HP Software Integration Sockets for 0S/400
92743A	HP Software Integration Sockets for OS/400 media/manuals
92744A	HP Software Integration Sockets for VMS media/manuals
92753A	Client software for AS1400
92734A	HP Software Integration Sockets for VMS

License to use, media/manual, and accessory options are available for the products listed in this article. Contact your HP representative for more information.

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

Ordering HP 3000 database delete options

Options added to HP 3000 systems provides database choices. Users can buy systems with HP TurboIMAGE only, HP ALLBASE/SQL only, no database, or preconfigured systems with both ALLBASE/SQL and TurboIMAGE databases.

Ordering the base system product provides a preconfigured system with both databases. Users who want to delete certain databases can order one of the following options:

Product No.	Description
Opt. 910	Delete HP TurbolMAGE (SOL-only system)
Opt. 915	Delete HP ALLBASE/SQL (TurbolMAGE-only system)
Opt. 920	Delete HP TurbolMAGE and ALLBASE/SQL (MPE-only system)

Delete options are only for users who do not plan to use these databases. The delete options are not intended to be used with the intent of copying the database software from another HP 3000 system.

This copying is illegal because database software is licensed only to certain machine classes and cannot legally be moved to other classes, as indicated in the HP 3000 price guide. For example, the description for the Series 967 states, "Includes MPE/iX FOS, ALLBASE/SQL, TurboIMAGE/XL ... with a Class/Concurrent License to Use on S967 by 1–100 users."

If a Series 935 user of both HP TurboIMAGE and ALLBASE on the system is planning to upgrade to Series 967 and intends to run both databases on the new system, the user must purchase a license to use both databases on a Series 967.

If the user did not use HP ALLBASE on a Series 935 and does not plan to do so on the Series 967, the user can order the delete ALLBASE option.

If the user intends to run the database on two Series 967s, the user must purchase a database license for each system, as software can only be licensed to one machine at a time.

Contact your HP representative for more information.

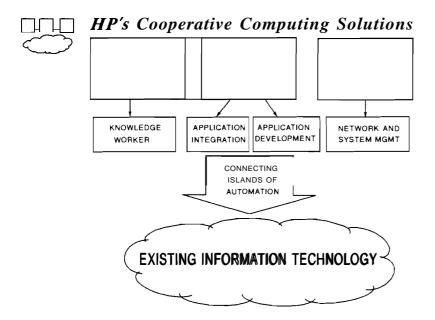
HP 3000 Series 920/9X2/9X8 discontinuance

The following HP 3000 systems will be removed from the October HP Price List. Field upgrades and accessories for these systems will remain active products. There are no direct replacements for these products. Support for these products is guaranteed at least through October 1, 1998.

Product No.	Description
A1720A	HP 3000 Series 920
A1027A	HP 3000 Series 922LX
A1046A	HP 3000 Series 922RX
A1033A	HP 3000 Series 922
A1041B	HP 3000 Series 932
A1700A	HP 3000 Series 948
A1701A	HP 3000 Series 958

With the introduction of the HP 3000 Series 9X7 family of products, users may order systems lower in cost that offer up to five times the performance.

Introducing HP Cooperative Computing Solutions



Hewlett-Packardis announcing HP Cooperative Computing Solutions, a new suite of complete client/server systems, including hardware, operating systems, networking, software applications, and services integrated into single packages with support. The systems can help users interested in strategic applications solve business problems including five key issues: reshaping business processes, aligning I/S and overall corporate goals, instituting cross-functional information systems, boosting software development productivity, and using data Strategic application areas include customer service, new product development, accounting, marketing, and those areas where easy access to information available on a variety of systems is essential.

HP's Cooperative Computing Solutions leverage IT investments, use existing data sources, effectively manage environments, and add value by providing access to critical information. The products provide connectivity and interoperability enabling easy data access at the desktop through powerful servers, tools, and applications to all information in an enterprise for complete client/ server solutions. As technology is not enough, HP ensures user success through complete support and service offerings, providing integration, testing, implementation, and deployment.

New bundles

The new solutions include HP Enterprise Information Server, which provides the foundation for client/server application., HP Enterprise Information Client, which offers a choice of user environments, and HP Knowledge Worker Solution, which enables business professionals to access and communicate information quickly and easily.

Application integration

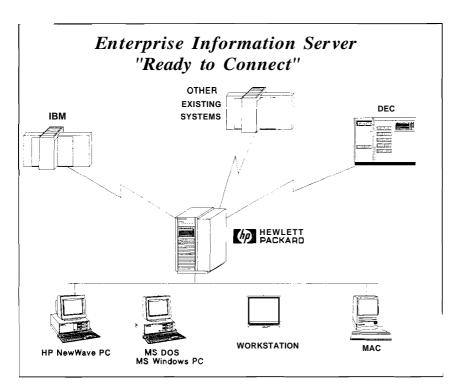
The solutions also include the HP Software Integration Sockets family of application integration tools that enable users to integrate software applications in a network of heterogeneous computers. Application integration is possible between IBM mainframe, DEC VMS, IBM AS400, HP 9000 and 3000, and other systems.

Application development

HP offers a suite of tools for application development in client/server environments. These products can generate fully integrated CASE environments.

Network and system management (NSM)

HP NSM solutions provide leading software tools that integrate and manage all systems on a physical network while managing the client/server systems and applications that communicate over the links. The solution provides functionality and



network administration capabilities at the highest possible self-management level. Based on HP OpenView strategy, a customcrafted yet standards-based NSM solution assists distributed processing and maintains centralized administration and control.

Single-vendor solution benefits

- Integration and testing with controlled hardware and software releases to ensure successful solutions and smooth upgrades for users
- Ease of installation through factory-loaded, preconfigured hardware and software

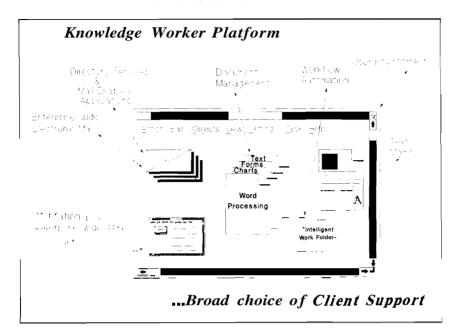
- Powerful services and functionality for knowledge workers, system managers, and developers
- Access to services from multiple desktop environments and graphical user interfaces
- Complete consulting services, from solution design through implementation and deployment
- Single shipment package Users will receive one delivery in one package shipment. The package will contain 32 products from four third-party companies and 10 HP divisions preloaded onto the server disk. Software applications and tools are consolidated on CD-ROM for backup media Future releases and upgrades from HP and third parties are controlled and synchronized through a single source HP.

Consulting, service, and support

HP has worked to deliver a complete package of consulting services including user needs analysis, solution design, pilot implementation, and solution deployment. HP has developed a set of tools, tips, techniques, training, templates for solution design, and gotchas. HP service and support completes the offering by providing a costeffective, single point of contact to users, which minimizes maintenance overhead and accountability and ensures maximum system and solution availability.



HP Worker Solution



The HP Knowledge Worker Solution (P/N A2323A) is a bundle that provides integrated applications designed to allow access to and communication of information from multiple desktop environments; includes HP Information Access, Document Manager, Electronic Mail Solution, and WorkRouter; evolution from HP NewWave Office products.

It is targeted toward Fortune 200 companies looking for strategic application opportunities using information technology and client/server computing to reshape business processes and users committed to open systems, operating in multivendor environments and interested in moving to open client/server solutions.

With HP Knowledge Worker Solution, business professionals such as executives, managers, and analysts can be more productive either as individuals or as part of teams within departments or across the enterprise. HP Knowledge Worker Solution provides new integrated, tested functionality in a set of tools and applications for access to information on different systems, databases, and applications across a network. The tools can simplify information access and use for faster decision making.

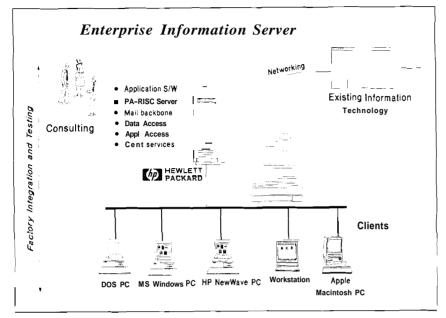
Features and benefits

• Information access and reporting — HP Information Access is a simple, yet powerful tool for integrating PC, minicomputer, or mainframe data with desktop applications. Knowledge workers can easily pull information from a range of external data sources into desktop reports and other applications. Users may choose an appropriate application for access depending on their client of choice, either HP NewWave Access for HP NewWave clients or Windows clients, or ClearAccess or Andyne GQL for Apple Macintosh clients.

- Document and text manage*ment* — HP Document Manager is a business intelligence tool for knowledge workers and clerical workers. It provides for easy storage and retrieval of all types of documents based on external document attributes (such as author, date, and type). HP Document Manager manages these documents located through the enterprise transparently to the user while maintaining version control and full security. Verity TOPIC text management system provides for easy storage and fast retrieval of text documents based on document content, either by exact keyword or concept match.
- Electronic mail solution HP Electronic Mail Solution is based on the HP OpenMail engine as the core component for standards-based enterprisewide messaging. This solution provides an architecture for implementing an integrated messaging backbone together with selected clients, and it connects into proprietary electronic mail systems from vendors such as DEC, IBM, and Wang. HP also offers mad-enabled applications and accessories through partnerships with Premier Solution Providers. HP Electronic Mail Solution offers functionality, such as workflow automation through HP WorkRouter and calendaring and scheduling through Dexotek Unison, document conversion tools, gateways, and converters. This solution is cost effective and currently offers the lowest cost of ownership in the industry.
- Business process automation HP WorkRouter is a desktop tool enabled by the HP Electronic Mail Solution that provides workflow automation.

New HP E

Information Server



The new HP Enterprise Information Server (P/N A2324A) and HP Enterprise Information Client (P/N A2322A) are the foundation for complete client/server functionality to solve enterprisewide problems.

HP Enterprise Information Server is designed to protect hardware and software investments by managing client resources and providing network, database, and application connectivity to IT systems. As it is factory integrated and has been tested with HP Knowledge Worker applications and software distribution, configuration, and management services for PC, UNIX® system, and Apple Macintosh clients, it can start solving problems faster and provide easy software upgrades.

HP Enterprise Information Client is a hardware, software, and consulting bundle that offers a choice of user environments for HP Knowledge Worker applications. It includes HP Vectra PCs and accessories and HP Apollo 9000 Series 700 workstations.

Features and benefits

- HP 9000 Model 8X7 business server provides choice of performance and packaging, all object-code compatible, with comprehensive upgrade program for investment protection.
- Networking links and services (mainframe and server-to-server communications, desktop integration) provide transparent integration with LAN and WAN networks, including a full integration set of products to protect IBM investments; and file and print sharing for HP NetWare, HP LANManager, and Macintosh clients for reduced peripheral costs.

- Standards-based messaging backbone (X.400, X.500) allows interoperability with other messaging systems.
- Data access with Infomnation Builders' Enterprise Data Access provides access to over 50 data sources for investment protection; Pacer's Data Access Language provides access to source or staged relational data on the server application integration with HP Software Integration.
- Sockets offers investment protection and substantial reduction in integration effort for MVS, DOS, SunOS, and MPE systems.
- Desktop services with HP JoinWare, Software Vendor, and OmniBack, OpenSpool allow more efficient software configuration, distribution and management services, and backup and print-spooling tools for users and systems managers.
- Clients (HP Vectra PCs, HP Apollo 9000 Series 700 workstations) — provide singlevendor client/server hardware with flexible choice of user environments.
- Factory integration and testing — allow easy installation and deployment and guaranteed integration.

New services

• Software configuration, distribution, and management —
HP JoinWare is a factory-provided service that enables fast implementation of server and client applications. The server is preloaded with server and client software and automates the

continued on next page

- download of client software. HP JoinWare runs configuration scripts that contain predefined file names; system managers need only provide minimal inputs like user names and passwords before the application is running. This eases new and update installations included in both **HP** Enterprise Information Server and Knowledge Worker Solution. HP JoinWare completes the process in minutes and can install multiple users simultaneously, saving time users would use loading floppies individually. HP Join Ware automatically distributes and manages client software. System managers can maintain easy control of users' applications with a choice of security schemes to control access. Users see a standardized environment for pulling applications from the server and for notification of new releases.
- Network/print services HP Integrated NetWare Services and Integrated LANManager Services are new bundles consisting of Novell NetWare for HP 9000 Series 800 and ARPA Services 2.2/ MS-DOS for NetWare; and LAN Manager/X for HP 9000 Series 600 and 800/HP Apollo 9000 Series 700 and ARPA Services 2.2/MS-DOS, respectively. HP also offers a single-vendorsolution for Macintosh users. PacerShare, an AppleTalk Filing Protocol service, enables HP Enterp e Information Server to be used as an AppleShare-compatible file server for Macintosh users. Pacer's PacerPrint enables users to take full advantage of PostScript® or Postscript-compatible printers.
- No-cost factory preload, integration, and testing — HP Enterprise Information Server offers a new level of factory integration and testing for guaranteed integration of HP and third-party software products and ease of installation with the preload of purchased software and W cards. Each solution arrives in one shipment from the Merge Center, which coordinates receipt of products that are not included in the integrated build (including media, manuals, and client hardware). Updates to the individual products on HP Cooperative Computing software on CD-ROM will be managed and retested in the factory. Users will receive one update to the CD-ROM on a quarterly basis (instead of separate streams of releases from HP divisions and third parties). This service offers assurance that solution products work together through subsequent software updates.
- PC backup capability Quest's Plan-B/UX is a new, referenced product that integrates with HP OmniBack to provide a total network backup product supporting both UNIX systems and PC networks. It extends HP OmniBack's high-performance backups to DOS clients with backup to HP NetWare and LAN Manager servers that initiate PC backups.

UNIX is a registered trademark of UNIX System laboratories Inc. in the U.S.A. and other countries.

Postscript is a registered trademark of Adobe Systems, Inc. in the U.S. and other countries.

Software Inspections consulting

Hewlett-Packardannounces the addition of Software Inspections, a consulting product addition to the Knowledge services product line which is designed to provide training and tools necessary to successfully implement a software inspections program. It teaches an inspection process that can be applied across software development deliverables such as design, requirements, code, and test.

Software Inspections can allow users to find defects early, enabling an organization to get better software products to market faster.

Features and benefits

- *Process improvement* speeds product improvement
- Integration with ChangeVision

 enables users to instantiate
 inspection processes using HP's
 modifiable templates
- Theory training provides necessary background information
- Skill training with hands-crn exercises teaches how to implement and perform software inspections
- Inspection process model provides a proven starting point based on HP's process
- Installation materials include tools such as standards and checklists and process templates that run on top of SynerVision that enable an organization to immediately implement an effective software inspection program

- Knowledge transfer allows users to learn from industry expert instruction and benefit from HP personal experience
- ChangeVision extension —
 extends ChangeVision capabilities
 by integrating software inspections into the defect tracking and
 change request management
 process

The product contains a three-day workshop with a half-day session for management, two days of training on skills and theory, exercises to hone the skills, and individual work time to practice the skills. Software Inspections will be delivered by HP's Knowledge technical consultants.

Ordering information

In the U.S., order Software Engineering Knowledge Services (P/N H5250A); outside the U.S., order Engineering Automation Consulting (P/N H2385A).

New HP OpenMail on HP-UX release

HP OpenMail for HP 9000 HP-UX systems (P/Ns B2284/5/6A, B2280A, and B2290AZ) is a corporatewide electronic mformation distribution system that enables users of PCs, terminals, and workstations to communicate with other electronic mail users on both private and public mailing systems.

It is ideal for users that are committed to standards and open systems, have strong corporate communications needs, regard information as a mission-critical resource, value ownership cost rather than purchase cost, and need scalable solutions.

HP OpenMail is a standards-based open system that can protect hardware and software investments. Users have flexibility in choosing desktop environments, file types to exchange, and systems.

Benefits

Standards and open systems provide interoperability and low cost of ownership through choice of best-in-class components. Scalable solutions meet growth needs and protect investments in messagmg and network infrastructures to support and administer inter- and intracompany messaging services. As part of this scalability, HP OpenMail solutions support the critical aspect of messaging services. Corporate messaging solutions provide guaranteed delivery in a secure manner to the correct recipient, combined with comprehensive audit and statistics logging.

HP OpenMail provides support for a growing range of messagmgenabled applications rather than just providing electronic mail services.

Ordering information

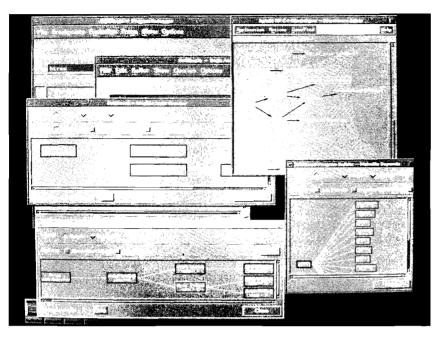
This HP OpenMail release has been restructured to incorporate license controls for configured OpenMail mailboxes. The mailbox licenses will be administered through the HP Network Licensing System (NetLS). The release has also been repriced in line with the HP Knowledge Worker Solution. Quantity price reductions have been introduced, and the mailbox license now includes a license to use one of the following clients: HP AdvanceMail/TI, Motif™/GUI, MS-Windows/GUI, AdvanceMail, or NewWave Mail.

Product No.	Description
B2284A	HP OpenMail for HP 9000 Series 300/HP Apollo 9000 Series 400, English
B2285A	HP OpenMail for HP Apollo 9000 Series 700, English
B2286A	HP OpenMail for HP 9000 Series 800, English
B2280A	HP OpenMail documentation, English
B2290AZ	HP OpenMail A.O1 Mailbox+Client: M/C locked

Various options are available with these products. Contact your HP representative for more information.

Motif a a trademark of the Open Software Foundation in the U.S. and other countries.

New HP SoftBench and C++ SoftBench 3.0 releases add functionality



The new SoftBench 3.0 release adds more functionality for the same price as the previous release. Included are three new graphical browsers, an incremental linking facility, support for *C*++SoftBench 3.0, a new tool for comparing and merging files, and an encapsulation of the Vi editor

This release is ideal for *C* and *C*++ software development teams doing new code development, porting, or maintenance, and users requiring FORTRAN and Pascal development support.

Features and benefits

The following features and benefits are for HP SoftBench 3.0 and C++ SoftBench 3.0:

• Static Graph Browser — graphs an application's code structure

- displaying function call graphs, C++ class inheritance graphs, and more than 10 additional relationships for quicker, more flexible code analysis
- Dependency Graph Browser graphs the relationship between files required to build an application (by analyzing the application's makefile) and allows single-Iile builds for quicker build analysis and better build control
- Data Graph Browser graphs data structures used by an application (data structure animation is provided — the graph grows and shrinks as the application adds and deletes structure components) for faster debugging

- Blink Link incremental linking facility shortens the time needed to make changes to large applications for quicker turnaround on application changes
- File Compare and Combine
 Tool highlights the differences between two files and facilitates merging for quicker understanding of changes to a file and easier parallel development
- SoftVi an encapsulation of the Vi editor into the SoftBench environment; gives users integrated access to SoftBench and C++ SoftBench tools and framework
- Other editing enhancements include improvements to the SoftBench integration package for emacs and multiple-file indexing in the SoftBench Program Editor.

The following features facilitate the use of the *C*++SoftBench 3.0 language:

- C++Developer helps developers write class templates with a new dialog box for defining a new class template and a new coding rule to help ensure templates are used correctly. Developers can request a list of all templates in a library.
- C++ Static Analyzer extended supports query commands fully on function and class templates
- C++ Program Debugger extended supports exception handling. A new dialog box allows developers to set breakpoints on all throws or catches in an application.

Product line positioniqg

HP SoftBench 3.0 and C++ SoftBench 3.0 are integrated, network-distributable, and extensible software development environments for HP-UX 8.0 and future release and SunOS 4.1.X platforms. The products include the SoftBench Framework, a de facto industry standard.

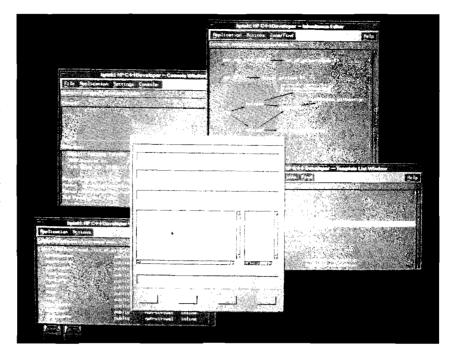
Ordering information

Product No.	Description
B2600B	SoftBench 3.0 license to use
B2601B	SoftBench 3.0 end-user kit for HP 9000 Series 300/HP Apollo 9000 Series 400
B2602B	SoftBench 3.0 end-user kit for HP 9000 Series 600/800
B2615B	SoftBench 3.0 end-user kit for HP Apollo 9000 Series 700
B2605B	SoftBench 3.0 end-user kit for Sun
B2617B	C++ SoftBench 3.0 license to use
B2618B	C++ SoftBench 3.0 end-user kit for Series 300/400
B2619B	C++ SoftBench 3.0 end-user kit for Series 6001800
B2620B	C++ SoftBench 3.0 end-user kit for Series 700
B2621B	C++ SoftBench 3.0 end-user kit for Sun

Accessory options are also avadable for these products. Contact your HP representative for more information.

The new release was on the August HP Price List with shipments planned for October. Users on support for previous product versions as of September 15 will receive the new release as a part of the update service.

New C++ Developer 3.0 release



The C++Developer 3.0 is a new release that adds support for the C++3.0 language. The C++ Developer is a C++class construction and browsing tool, is included in the C++SoftBench product, and is also avadable standalone.

It is targeted for C++software developers and for standalone, price-sensitive users that do not want to purchase the entire C++ SoftBench solution.

Features and benefits

• C++ class template-defining facility — Templates are a new feature in the C++ 3.0 language that users will need help using effectively. A new dialog box prompts the user for information on the template being defined. Once defined, C++ Developer generates skeleton code for the template.

- Rule checking extended to cover class templates A new rule ensures that templates being used have already been defined. Rule checking is done before compilation, which means errors are caught as soon as possible.
- Listing of all library templates The software flags instantiated templates. Users can also get a list of all of the member functions within a class template.
- Performance improvement The new release takes less time to analyze code than the previous version. Measurements on some typical C++ applications (for example, Interviews and C++ Developer itself) show a two to three times performance gain over the previous release.

continued on next page

HP provides three different price/point solutions for C++programmers. HP's C++language product is the base level support. Users can then complement the language product by adding standalone C++ Developer 3.0 or C++SoftBench 3.0.

C++Developer is a unique tool. Its class inheritance editor, code generation capability, and C++rule checking/repair differentiate it from other C++class browsing tools. With C++Developer 3.0, HP is one of the first UNIX system vendors to provide tool support for the C++3.0 language.

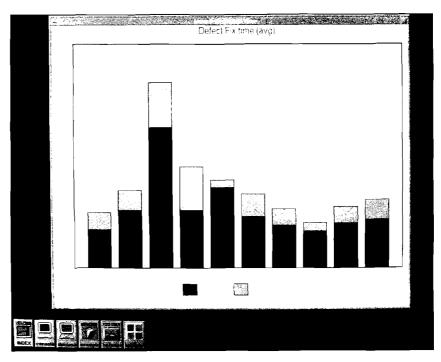
Ordering information

Product No.	Description
816948	C++ Developer 3.0 license to use for HP 9000 Series 300/HP Apollo 9000 Series 400
816958	C++ Developer 3.0 media and documentation for Series 3001400
B1696B	C++ Developer 3.0 license to use for HP 9000 Series 6001800
816978	C++ Developer3.0 media and documentation for Series 6001800
824068	C++ Developer 3.0 license to use for Series 700
B2407B	C++ Developer 3.0 media and documentation for Series 700

Accessory options are available for these products. Contact your HP representative for more information.

The standalone product runs on HP-UX 8.0 and next release platforms. It was on the August HP Price List with shipments planned for October. Users on support for the previous product release as of September 15 will receive the new release as a part of the update service.

ChangeVision for SoftBench



ChangeVision for SoftBench is a change request management environment that helps teams manage the ongoing process of changing and updating software. It is the first in a series of powerful process management environments built on the SynerVision process engine. Change Vision requires the SynerVision process engine and is comprised of a metrics tool, a reporting tool, a standard interface to a change request (defect tracking) system, and process templates that provide HP's change management and software release process expertise.

ChangeVision is ideal for development teams that want to enhance the process of changing code and improve their ability to confidently predict, manage, and control the change request aspect of the software development process.

Features and benefits

• Full SynerVision process engine capabilities — Users can build process environments to augment the ChangeVision change request environment. SynerVision provides process automation, visibility, guidance, and task archive

Customizable process templates — Users can tailor or enhance the environment to support current processes and tools, which allows the process to be improved over time.

Standard interface to change request tracking system (CRTS IF) — This interface provides access to detailed information about change requests or defects that can be synthesized with data from other tools to provide aggregate metrics. Users can use current change

Additions to HP FIRST

HP FIRST can be accessed from any Group 3 touch-tone fax machine. Dial 208-344-4809, and you will be connected to a voice-operated menu that steps you through the literature selection process.

A special section has been added to HP FIRST. "HP sales/training tools for VABs" (index number 2295) lists HP sales and training tools that VABs (in the U.S. only) can order directly through an 800 telephone number. The section will be updated monthly.

Since the July issue of HP Computer Update, there have been extensive updates to the Computer Systems and Networking section of HP FIRST. More than 150 new or revised HP documents have been added, most of them concerning the HP 9000 Series 800, workstations and X-stations, and networking. Rather than using this space to print the individual document titles, this month we are encouraging you to access HP FIRST directly to receive a document list. We will resume printing HP FIRST new additions in the October issue.

Available literature

The following new literature is available through your local HP sales office. The literature is separated by product line and in order of publication number. Contact your HP representative for more information.

HP 3000 Systems

Series 9X7 and 9X7LX systems power switch cover

- Audience: HP 3000 Series 9X7 and 9X7LX users
- **Format:** One switch cover with installation instructions
- P/N: 5091-4538E
- **Description:** Power switch cover for HP 3000 Series 9X7 and 9X7LX systems provides additional protection from the possibility of accidental power shutoffs. The switch cover, with a snap door and adhesive backing, fits over the on/off button and can be easily installed by the customer.

HP 3000 Data Center Benchmarks performance brief

- Audience: HP 3000 Corporate Business Systems users
- Format: 8 pages, black and white
- P/N: 5091-52163
- **Description:** Demonstrates that high-end HP 3000 systems have the horsepower to support large mainframe class applications. Results of three data center

application benchmarks (SAP benchmark, PeopleSoft benchmark, and DOR sort benchmark) are documented. In each of the benchmarks, HP 3000 system performance proved to be comparable or superior to that of IBM and Amdahl mainframe systems. The Gartner Group Research Note, "Hewlett-Packard Announces the Alternative Mainframe," P/N 5091-4867E, is included with the brief.

HP 9000 Systems

C++ SoftBench 3.0 data sheet

- Audience: technical evaluators, end users
- Format: 8 pages, 8%x 11 inches, four color
- P/N: 5091-4889E
- **Description:** Includes a detailed description of each C++ SoftBench programming tool. Piece includes several graphical screen shots with call outs that identify each pictured tool. Configuration information and networked configurations are covered.

continued on next page

SoftBench Code-Development Environmentsproduct brief

- Audience: project managers, technical buyers
- Format: 6 pages, 8% x 11 inches, four color, poster insert
- P/N: 5091-4890E
- **Description:** Describes the advantages of **HP's** software code development environments, **SoftBench** 3.0 and C++ **SoftBench** 3.0, which include tight integration with the de **facto** standard **SoftBench framework**, the ability to expand the environment with the Encapsulator tool, and powerful support for large application development. Piece includes the ECMA CASE reference model.

SoftBench 3.0 data sheet

- Audience: technical evaluators, end users
- Format: 6 pages, 8 % x 11 inches, four color
- P/N: 5091-4940E
- Description: Includes a detailed description of each SoftBench 3.0 programming tool, a diagram of SoftBench workflow, configuration information, and networked configurations.

Change Vision for SoftBench product brief

- Audience: technical buyers; software project, section, QA, and R&D managers
- Format: 6 pages, 8% x 11 inches, four color, opens to six-panel poster
- P/N: 5091-4979E
- Description: Describes benefits of managing the change request management portion of the software development process. It relates this product to the European Computer Manufacturers Association (ECMA) integration model (toaster). Piece stresses that change is the rule rather than the exception and also describes the value of metrics.

Software Inspections data sheet

- Audience: technical buyers;
 QA, section, project, and R&D managers
- Format: 6 pages, 8½ x 11 inches, black and white
- P/N: 5091-4980E
- **Description:** Explains how inspections can be applied to phases of the software life cycle. It stresses the practical nature of the course, lists features and benefits, and includes a course outline.

ChangeVision Metrics Workshop data sheet

- Audience: technical buyers;
 QA, section, project, and R&D managers
- Format: 6 pages, 8% x 11 inches, black and white
- P/N: 5091-4981E
- **Description:** Explains how the product extends the **capabilities** of the **ChangeVision** change request management environment. It lists the numerous metrics discussed in workshop and includes a course outline.

SynerVision for SoftBench product brief

- Audience: technical buyers, solution developers ISVs, corporate engineering groups, medium and large software team managers interested in defining and improving any process within their or their customers' organizations
- Format: 8 pages, 8% x 11 inches, four color
- P/N: 509149823
- Description: Emphasizes the importance of managing processes and uses the ChangeVision change request management environment as a sample application of SynerVision. Piece relates this product to the Software Engineering Institute capability maturity and ECMA integration models.

Change Vision for SoftBench data sheet

- Audience: technical buyers; software project, section, QA, and R&D managers
- Format: 8 pages, 8%x 11 inches, four color
- P/N: 5091-4983E
- **Description:** Describes the features and benefits of the new change request management environment. It discusses the **metrics** that are provided and emphasizes how users *can* tailor this product to practices within their organizations.

Profit from Hewlett-Packard's Technical CASE Expertise vest pocket brochure

- Audience: decision makers, technical evaluators
- Format: 8 pages, three-fold, multicolor
- P/N: 5091-4564E
- **Description:** Positions **HP's** advantages for helping technical software developers bring quality products to market faster.

Pull It All Together with HP's CASE Solutions commercial CASE vest pocket brochure

- Audience: decision makers, technical evaluators
- Format: 6 pages, two-fold, multicolor
- P/N: 5091-4567E
- **Description:** Positions HP's advantages for helping IS/commercial software development environments build quality business-oriented systems faster.

Now the Power You Need is More Accessible than Ever pocket guide

For North America only

- Audience: users, particularly in CASE, who need to cost effectively add more seats to networks
- Format: four color
- P/N: 5091-4692E
- **Description:** Provides an overview of the short-term multiseat sales promotion (2.645). Piece points out that users who order an HP Apollo 9000 Model 720/730 with 645 MB of RAM and at least one X station can receive a discount on 32 of the 64 MB of memory ordered. A 10% discount is also available on SoftBench and software from 10 different CASE vendors.

Personal Computers

HP AdvanceLink for MS-Windows and HP NewWave data sheet

- Audience: users, dealers
- **Format:** 2 pages, blue, black, and white
- P/N: 5091-5002E
- **Description:** Describes features, benefits, specifications, and ordering information for HP AdvanceLink for MS-Windows and HP NewWave. Piece explains how product *can* be used to enable users to integrate terminal/host applications with client/server and PC integration.

Networks

Datacommunication and Terminal Controller brochure

- Audience: end users, technical evaluators
- Format: 4 pages, full color
- P/N: 5091-18843
- Description: Provides detailed information on HP Datacommunication and Terminal Controller (DTC), including new features, the DTC specifications, network management information, and a connectivity matrix.

continued on next page



Peripherals

Rack cabinet data sheet

Audience: multiuser system end users

- Format: 6 pages, 8½ x 11 inches, color
- **P/N**: 5091-23533
- **Description:** Describes standalone cabinets (P/Ns C2285A and C2786A) for HP 3000 and 9000 computers and peripherals. Piece explains power, rackmount kits for computers and peripherals, and other information.

High Data Availability Workstation Disk Arrays brochure

Audience: HP Apollo 9000 Series 700 workstation users

- Format: 4 pages, full color
- P/N: 5091-4880E

Description: Uses a dragon and knight theme to give users information on how disk arrays guard against downtime and data loss. Piece includes statistical charts regarding data availability, data loss, performance of RAID levels 0/1, 3, 5, and different RAID configuration capacities.

HP DIRECT phone numbers

HP's fast-order phone lines provide customers with an easy, direct way to order supplies, accessories, media, furniture, and software from Diict Marketing Organization.

	-
Location	Telephone number*
Argentina	7814061
	through 4069
Australia	008 339 861
	(toll free)
Melbourne	(03) 272 2861
Austria	(0222) 2500414
	(0222) 2500-615
	(0222) 2500-616
Belgium/Luxembourg	(02) 761-31-11
Brazil	(011) 709-1300
Canada	800-387-3154
Toronto	416-671-8383
China	2566888
Denmark	80301640
Finland	(90) 8872-2361
France	(1) 60 77 34 07
Germany	(0130) 3322
Greece	(01) 672-6090
Hong Kong	(5) 8487569
Italy	(02) 9530 1532
Japan	427-59-1321
Korea	7690-600
	7690-700
	7690-800
Malaysia	(03) 2986555
Mexico	905-676-7892
Netherlands	(06) 0501
New Zealand	(04) 820400
Norway	(02) 24 41 80
Singapore	2798824
Spain	(91) 6374013
	(91) 6370011
Sweden	(08) 750 24 00
Switzerland	(057) 31 24 90
Taiwan	(02) 7179608
United Kingdom	(0344) 369333
United States	800-538-8787
Venezuela	2394477

^{&#}x27;Numbers listed are localized.

request systems or have access to a third-party tools. (QualTrak's Distributed Defect Tracing system [DDTs]product has been tested with ChangeVision.)

- Change request process templates — Users get a change request process based on HP's expertise and experience. The templates can be customized.
- Automatic metrics collection —
 Users get more reliable data with
 less cost and effort. The data can
 be used to identify and correct
 problem areas early in the
 process.
- Flexible reporting capabilities Raw data, 20 standard reports, and inputs for Lotus® 1-2-3® or Excel can be used with continual access to the metrics generated by ChangeVision in formats that meet a variety of needs.
- Integration with SoftBench framework Change request process environment and other SoftBench tools work together in the same user-friendly environment.

As ChangeVision for SoftBench requires the SynerVision process engine product, ChangeVision is sold standalone, for users who already have SynerVision, or bundled with the SynerVision product. Two additional tools that are not shipped with ChangeVision but are tightly integrated with the environment are HP's Branch Validator, which when used with Change Vision provides key coverage metrics such as branch coverage; and QualTrak's DDTs, which provides a change request tracking tool for users who do not want to integrate their tools.

Product line positioning

ChangeVision for SoftBench is a network-distributable change request management process environment for HP-UX (8.0 and later) and SunOS 4.1.X platforms. It is an X11/Motif compliant environment that can communicate with other tools through the SoftBench framework.

Ordering information

Product No.	Description
B3262A	ChangeVision for SoftBench license to use
B3260A	ChangeVision and SynerVision bundle license to use
B3271A	ChangeVision for SoftBench end-user kit for HP 9000 Series 300/HP Apollo 9000 Series 400
B3263A	ChangeVision and SynerVision bundle end-user kit for HP 9000 Series 300/400
B3272A	ChangeVision for SoftBench end-user kit for HP 9000 Series 600/800
B3264A	ChangeVision and SynerVision bundle end-user kit for HP 9000 Series 600/800
B3273A	ChangeVision for SoftBench end-user kit for HP Apollo 9000 Series 700
B3265A	ChangeVision and SynerVision bundle end-user kitfor HP 9000 Series 700
B3274A	ChangeVision for SoftBench end-user kit for Sun
B3266A	ChangeVision and SynerVision bundle for Sun

Accessory and manual options are available with these products. Contact your HP representative for more information.

Lotus and 1-2-3 are *U.S.* registered trademarks of Lotus Development Corporation.

HPC++3.0

HP C++3.0 for HP-UX is an industry-standard, established C++ compiler product with enhancements including support for templates or parameterized types, exception handling, and object-oriented debugging.

This release of HP C++ supports several new features including templates, exception handling, full implementation of nested types, and significant bug fixes. HP's C++ product is based on UNM System Laboratories (USL) C++3.0. HP's implementation of exception handling, currently available, will also be in the next release of industry-standard USL C++.

Features and benefits

• C++compiler — provides HP users with compile-time performance improvements of up to 75%; generates more efficient code; provides an option for users that prefer to translate C++ code to C; includes enhancements to the HP-UX debugger that help users debug C++ programs and locate errors quickly; provides C++-specific debug commands including overloaded function resolution, breakpoints on all member functions, and specific instances of a class and selfidentifying objects; and is the same debugger used to debug C, FORTRAN, and Pascal programs so users do not have to learn to use a new debugger

continued on next page

- Object-oriented debug locates errors more quickly
- Standard components and other class libraries — provides offthe-shelf software: reduces the amount of code that needs to be written. Standard Components Class library is a library of general-purpose programming routines and tools that improves C++programmer productivity. It includes classes to manipulate simple and complex data structures such as strings, sets, maps, lists, and graphs, and provides facilities to manipulate UNIX system command line arguments, including path name expansion and regular expression compilation. Standard Components is included with HPC++in binary form, and the sources to Standard Components are available from USL.
- Tools and header files extended to work with C++— enable use of software directly from C++
- Templates or parameterized types promote software reuse
- Exception handling provides a convenient mechanism for handling error conditions. HP's implementation of exception handling conforms to the definition in the ANSI C++base document. Users of exception handling in compile mode incur very little penalty (less than 2%). HP has licensed its implementation of exception handling to USL. USL will make HP's implementation of exception handling available to USL's resellers thus making HP's implementation the de facto industry standard for exception handling.

• Conforms to C++ANSI base document — complies with standards; provides investment protection

Product-line positioning

HP C++language products are highly compatible across HP-UX systems. C++source code can be easily ported from HP 9000 Series 300 and HP Apollo 9000 Series 400 systems to HP Apollo 9000 Series 700 and HP 9000 Series 800 systems. Series 700 and 800 are object-code compatible. C++on Domain/OS is based on USL C++ 2.1, which is upward compatible with C++3.0 on HP-UX.

HP also offers the following C++ products: C++Developer, a C++ class construction and browsing tool; C++SoftBench, a C++ development environment available on Sun and HP; and Interviews Plus, a class library for developing graphical user interfaces.

Configuration information

HPC++is available on HP-UX 8.07 and 9.0 based systems for HP 9000 Series 300/400/700 and on HP-UX 8.X and 9.0 based systems for Series 800. Users must order the appropriate revision option.

Support

Users on support services with materials **will** receive two copies of HPC++3.0, the HP-UX 8.X and 9.0 versions, within a month of each other. These users will only receive one set of manuals.

Users who want to upgrade to HP-UX 9.0 should first upgrade to HP-IJX 9.0 and then install the HP-UX 9.0 version of C++. All other users should install the 8.X version. Users who install the HP-UX 8.X version of C++ will not be able to use HP-UX 9.0 features, such as debugging shared libraries in source mode.

Promotions and bundles

The HP C++product on HP-UX includes the HP-UX symbolic debugger, enhanced to provide object oriented debugging; a one-pass linker; standard C tools enhanced to support C++; USL C++ 3.0 class libraries; and USL Standard Components class library.

HPC++is structured for user-based pricing. Users must purchase licenses for each C++compiler user. Multiuser bundles are offered at a discount.

Users purchasing multiple licenses can order additional copies of media and documentation by ordering the media and documentation product. Media options do not include manuals; manuals must be ordered separately using Option 0BJ. Contact your HP representative for option information.

Ordering information

Product No.	Description
B2400A	C++ license to use for Series 3001 400 HP-UX
B2402A	C++ license to use for Series 700 HP-UX
B2404A	C++ license to use for Series 800 HP-UX
B2401A	C++ media and documentation for Series 400 HP-UX
B2403A	C++ media and documentation for Series 700 HP-UX
B2405A	C++ media and documentation for Series 800 HP-UX

ChangeVisionMetrics workshop

To support the newly introduced capabilities of ChangeVision, Hewlett-Packard's Knowledge Program is introducing the ChangeVision Metrics workshop. The one-day workshop is designed to provide additional training and consulting on the metrics capabilities of the ChangeVision product. It is targeted at ChangeVision users — software developers and their managers.

During the workshop, Knowledge technical consultants will show students how to use the metrics information provided by the Change Vision environment. Consultants will show how the four types of ChangeVision metrics (code, defect, test, and process) can be used to understand and guide the software development process and improve project decisions. Students will learn how to select additional metrics for an organization and extend the capabilities of the Change Vision environment to include those metrics. Handling potential human concerns related to metrics collection and using metrics to enhance teamwork will also be discussed.

Ordering information

Product No.	Description
H5250A	Software Engineering Knowledge services (for the U.S.)
H2385A	Engineering automation consulting (outside the U.S.)

Workstation-basedSoftBench3.0 and C++ SoftBench3.0 interactive training

SoftBench 3.0 Interactive Training and C++SoftBench Interactive Training are software products that provide self-paced training on SoftBench tools. The products are unique for current UNIX systembased software development tools.

Features and benefits

- Effective tool use training —
 The training focuses on how
 SoftBench tools can be used
 together and gives some pointers
 on advanced tool features.
- Tool usage scenarios How SoftBench tools are used changes depending on what software development tasks need to be done. Scenarios on use covered in the training include new code development and code maintenance.
- Configuration option training —
 Configuring SoftBench to fit into
 a particular user environment is
 a key to its effective use. The
 training shows users how to do
 basic configurations and raises
 user awareness of available
 configuration options.
- Easily accessible training —
 Because the training software is installed on the workstation with SoftBench, the developer always has it readily available.
- Training that works in standard environment The training software exercises the standard SoftBench or C++SoftBench tools. Because these are fully functional tools, users are not limited to the script presented by the training product.

Ordering information

Product No.	Description
B2640B	SoftBench 3.0 Interactive Training license to use
B2645B	C++ SoftBench 3.0 Interactive Training license to use
B2641B	SoftBench 3.0 Interactive Training end-user kit for HP 9000 Series 300/HP Apollo 9000 Series 400
B2646B	C++ SoftBench 3.0 Interactive Training end-user kit for Series 300/400
B2642B	SoftBench 3.0 Interactive Training end-user kit for HP 9000 Series 600/800
B2647B	C++ SoftBench 3.0 Interactive Training end-user kit for Series 600/800
B2643B	SoftBench 3.0 Interactive Training end-user kit for HP Apollo 9000 Series 700
B2648B	C++ SoftBench 3.0 Interactive Training end-user kit for Series 700
B2644B	SoftBench 3.0 Interactive Training end-user kit for Sun
B2649B	Ctt SoftBench 3.0 Interactive Training end-user kit for Sun

SoftBench 3.0 or C++SoftBench 3.0 must have been previously installed for these training products to run. Accessory options are available for the products listed above.

SynerVision for SoftBench — process engine for teams

SynerVision for SoftBench is a process engine for teams to use in building computer-based process environments. It features integration with the HP SoftBench framework and is ideal for solution developers — ISVs, corporate engineering groups, medium and large software team managers — that are interested in defining and improving any process within their organization or within their customers' organizations

With SynerVision, environments can be implemented to help manage processes including those frequently found in software development, business, engineering, and manufacturing. SynerVision provides process automation, visibility, guidance, and metrics. It promotes teamwork and communication by making the tasks and dependencies of a process visible.

Features and benefits

- Process definition Companies can model specific user processes, thus protecting investments.
- Process visibility Activities, tasks, and dependencies of each team member are visible, resulting in less errors and rework, as well as increased collaboration and teamwork.
- Process automation for welldefined or tedious tasks —
 Processes are made faster and more repeatable; increased repeatability enables predictability.
- Process guidance Each task or step of the process is visible, so there is less confusion and more time to spend on product development.

- Customizable process templates — Users can tailor or model organizational processes to meet project and product goals.
- Integration with SoftBench framework — Process environment and other tools are integrated into the same SoftBench environment.

In addition to the SynerVision process engine product, users can order optional interactive training that will teach them how to code process templates to model their own process environments. The interactive training provides a cost-effective, time-efficient learning experience.

SynerVision for SoftBench is a network-distributable process engine for HP-UX (8.0 and later) and SunOS 4.1.X platforms. It is an X11/Motif compliant application that communicates with other tools through the SoftBench framework.

Ordering information

Product No.	Description
B3261A	SynerVision for SoftBench license to use
B3267A	SynerVision for SoftBench end-user kit for HP 9000 Series 300/HP Apollo 9000 Series 400
B3268A	SynerVision for SoftBench end-user kit for HP 9000 Series 6001800
B3269A	SynerVision for SoftBench end-user kit for HP Apollo 9000 Series 700
B3270A	SynerVision for SoftBench end-user kit for Sun
B3275A	SynerVision Interactive Training license to use

B3276A	SynerVision Interactive Training end-user kit for HP 9000 Series 3001400
B3277A	SynerVision Interactive Training end-user kit for HP 9000 Series 6001800
B3278A	SynerVision Interactive Training end-user kit for HP Apollo 9000 Series 700
B3279A	SynerVision Interactive Training end-user kit for Sun

Accessory options are also avadable for the products listed above. Contact your HP representative for more information.

New HP 9000 SCSI multiuser DAT storage systems

Four new low-cost, DDS-format DAT storage systems — the HP Series 6000 SCSI Models 8000D F/R and 8002D F/R — extend the HP 6000 Series mass storage products family, which offers backup solutions in a variety of expandable packages. The HP 6000 Series was the first SCSI-2 product family with power-fad protection for disk drives supported on the HP multiuser systems.

Features and benefits

The products offer high-capacity, unattended backup, archival storage, and multiple spindle backups for minimum system downtime. Rackmounted, they can contain up to four 8.0-GB DAT drives; the floorstanding model can contain up to seven of those drives.

Technical information

Four base product models are available:

- Model 8000D F is a 4- to 8-GB data compressed DAT tape drive in a minitower enclosure. The six half-height empty slots can be filled with a combination of the disk, DAT, and CD-ROM.
- Model 8002D F is an & to 16-GB data compressed DAT tape storage system (two 8-GB DDS-format DAT tape drives) in a minitower enclosure. It has five half-height empty slots.

 Model 8000D R is a 8-GB DDS-format DAT tape storage

system suited for the 19-inch EIA rackmount cabinet supported with HP 9000 Model 8X7 systems. The remaining empty slots are two half-height empty slots

accessible to the front that can be filled with a combination of the disk, DAT, and CD-ROM, and an additional disk-only slot in the rear that is not accessible to the front.

Model 8002D R is a 16-GB
DDS-format DAT tape storage
system (two 8 GB DAT tape
drives) suited for the 19-inch EIA
rackmount cabinet. The remaining
half-height empty slots are
accessible two to the front and
one disk slot to the rear.

HP is also introducing three 8-GB DAT upgrade kits. The floorstanding and rackmounted products (P/Ns C2478F/R) can be installed in the factory or the field. The system unit (P/N C2478S) must be installed in the field as an option for systems already delivered.

HP OmniBack and OmniBack/Turbo on Series 600/800 product structure changes to support HP-UX 9.0

Effective August 1, the product structure of HP OmniBack and OmniBack/Turbo for HP 9000 Series 600 and 800 business servers was changed to support HP-UX operating system 9.0. With the change, license products are separated from platform software products (media and manuals) according to the HP OmniBack product structure for workstations. Users can enlarge HP OmniBack or OmniBack/Turbo backup environments by ordering another license product without having to repurchase software or documentation.

To receive a complete HP OmniBack or OmniBack/Turbo product after August 1, users need to order the license product and the platform software. All orders placed before that date will be shipped as ordered.

Multimechanism package versus standalone DAT

	Multimechanism P/N C2466/67 F/R	Standalone DAT P/N C1521B	
Primary systems	Model 8X7	PC/workstation	
Secondary systems	High-end workstation	Low-end Model 8X7	
Packaging	Floor/rackmount	Portable	
Expandable package	Yes	No	

Orderinginformation

Product No.	Description
Base products	
C2466F1	Model 8000D F 8-GB minitower DAT storage system
C2466R ²	Model 8000D R 8-GB rackmount DAT storage system
C2467F1	Model 8002D F 16-GB minitower DAT storage system (two 8-GB DAT drives)
C2467R ²	Model 8002D R 16-GB rackmount DAT storage system (two 8-GB DAT drives)
Upgrade kits'	
C2478F	8-GB 3.5-inch DAT tape for minitower storage system
C2478R	8-GB 3.5-inch DAT tape for rackmount storage system
C2478S	8-GB 3.5-inch DAT tape for CPU enclosure

¹Fmodelproducts are standard with *user installation*.

Ordering information

Product No.	Description
B1 920A	HP OmniBack
B1949A	HP OmniBack platform software (media and manuals) for HP-UX 7.X and 8.0X
B1949B	HP OmniBack platform software (media and manuals) for HP-UX 9.0
B1921A	HP OmniBack/Turbo
B1950A	HP OmniBacWurbo platform software (media and manuals) for HP-UX 7.X and 8.0X
B1950B	HP OmniBack/Turbo platform software (media and manuals) for HP-UX 9.0

Specifylanguage and media option and tier option.

²R model products are standard with HP installation.

³ HP installation is standard on all upgrade kits.

HP OmniBack and OmniBack/Turbo on HP-UX 9.0

Effective August 1, HP OmniBack and OmniBack/Turbo are orderable for HP-UX 9.0 on HP 9000 Series 30016001800 and HP Apollo 9000 Series 4001700. First user shipments are planned for the end of the year. High-performance Corporate Business Servers like the HP 9000 Model 890 require an effective backup solution like HP OmniBack/Turbo.

HP will continue to deliver HP OmniBack and OmniBack/ Turbo products for HP-UX 7.X and 8.0X. HP OmniBack platform software product for Series 3001400 and HP-UX 7.X (P/N B1944A) has added support for HP-UX 8.0X as of August 1. At this time, P/N B1944B will become the platform software for Series 3001400 on HP-UX 9.0.

Ordering information

Product No.	Description
B1942A	HP OmniBack for Series 30014001 700 base license
B1943A	HP OmniBack for Series 30014001 700 node license
B1944A	HP OmniBack media and manuals for HP-UX 7.X/8.0X on Series 3001400
B1944B	HP OmniBack media and manuals for HP-UX 9.0 on Series 3001400
B1945A	HP OmniBack media and manuals for HP-UX 8.0X on Series 700
B1945B	HP OmniBack media and manuals for HP-UX 9.0 on Series 700
B1920A1	HP OmniBack for Series 6001800 business server license
B1949A	HP OmniBack media and manuals for HP-UX 7.X/8.0X on Series 6001800
B1949B	HP OmniBack media and manuals for HP-IJX 9.0 on Series 6001800

B1929A ²	HP OmniBacWurbo license for HP-UX 8.0X on Series 700 license, media, and manuals
B1929B ²	HP OmniBacWurbo license for HP-UX 9.0 on Series 700 license, media, and manuals
B1921A1	HP 0mniBack/Turbo license for Series 6001800
B1950A	HP OmniBack/Turbo media and manuals for HP-UX 7.X/8.0X on Series 6001800
B1950B	HP OmniBack/Turbo media and manuals for HP-UX 9.0 on Series 6001800

¹ Specify Opt. UAU.

Specify language and media option.

Orders placed before August 1 will be shipped with HP-UX 8.0X software. After that date, new orders will receive HP OmniBack for HP-UX 9.0 as soon as it is available.

SCSI HP MirrorDisk/UX and SwitchOver/UX

The HP 9000 Series 800 high-availability product offering has been enhanced with the addition of SCSI HP MirrorDisk/UX and SwitchOver/UX (P/Ns B2491A and 92688A).

HP Mirror Disk/UX

With HP-UX Release 9.0. Series 800 users can purchase the mirroring component of Logical Volume Manager (LVM), HP MirrorDisk/UX, that provides mirroring of SCSI or HP-FL disks. HP MirrorDisk/UX software prevents data loss due to disk failure by maintaining up to three copies of data on separate disks. MirrorDisk/UX also allows users to back up data while applications continue to run, significantly reducing planned system downtime for backups. Three-way mirroring provides added data availability, even during a backup or single disk failure, mirroring will continue on the remaining pair of disks.

In addition, HP Mirror Disk/UX will support the complete line of HP 9000 Series 800 business servers including the two-slot Models 807S, 817S, and 837S.

HP MirrorDisk/UX features

- Mirroring of SCSI of HP-FL disks
- Up to three-way selective mirroring of volumes
- Support of the complete Series 800 product Line
- Online backup while maintaining mirroring
- Fast reimage of a mirror when brought back online
- Menu-driven user interface

HP SwitchOver/UX

With HP-UX Release 9.0, Series 800 users can purchase HP SwitchOver/UX with enhancements, including support of SCSI devices on HP-PB and HP-FL systems, support over FDDI and LAN, and support of Logical Volume Manager (LVM). HP SwitchOver/UX detects system failures, provides for automatic switchover between primary and standby processors, and provides users near-continuous operation for critical applications.

HP Switch Over/UX features

- Support of SCSI and HP-FL devices on HP-PB systems
- Support over FDDI or LAN
- Support with Logical Volume Manager (LVM)
- Automatic fault detection and recovery
- Transparent network address
- Application transparency
- Productive standby SPU
- No single point of failure

² Specify tier option.



HP-UX FORTRAN/9000 news

This year at the August Interworks and Interex Users' conferences held in New Orleans, Louisiana, HP announced the phased implementation strategy for FORTRAN 90. This phased implementation protects investments in old FORTRAN code and delivers key FORTRAN 90 functionality for HP 9000 Series 800 and 300 and HP Apollo 9000 Series 700 and 400 FORTRAN users requiring the latest advancements in technologies and standards.

Features and benefits

FORTRAN 90 is a superset of FORTRAN 77. Users helped define which key FORTRAN 90 features are included in the next HP-UX FORTRAN/9000 compiler products. HP continues to demonstrate industry leadership by adopting the international FORTRAN 90 standard.

FORTRAN on PA-RISC is for the power user. For users with Series 800,700, and 4001300, the next release of HP-UX FORTRAN1 9000 compiler products includes features for program development and performance optimization. New to the Series 800 is the optimizing preprocessor. This is the same preprocessor included with recent versions of the Series 700 HP-UX FORTRAN/9000 compiler product. The newest revision of the HP-UX FORTRAN/9000 compiler has been specifically tuned for the latest PA-RISC machines. Programmers can specify the optimization level that best meets desired tradeoffs between compile time, code size, and execution performance.

In today's multivendor environment, porting from mainframes and minis is essential. Features to ease FORTRAN ports to HP PA-RISC from CRAY, DEC, Sun Microsystems, and IBM systems are included in this release

Contact your HP representative for more information.

Refurbished Model 823S/822S pricing targets new tier users

For the U.S. and Canada only

With current special pricing of remanufactured midrange HP 9000 Models 832S and 822S and related peripherals, the price of each system is competitive with the cost of a 486 PC.

Potential users include those that can use the inexpensive systems as network servers; installed-base Series 800 users that are locked into software applications and are not yet ready to migrate to other technology; price-sensitive retail chains that need one system in each store; channel partners that need low-cost systems to port applications to UNIX systems; and distributor-authorizedresellers that can use the systems for demo development.

The fully integrated systems include 8 or 16 MB of memory, 670 MB of disk storage, a 1.3-GB digital audiotape drive, an 8-port MUX, an 8-user license, and a system console.

Product No.	Description
A1716AR	HP 9000 Model 822S computer system
A1044AR	HP 9000 Model 832S computer system
A1740AR	HP 9000 Model 822-832 upgrade
A1404AR	Add 8 M B memory
A1436AR	Add 16 M B memory
C2282AR	Add 670-MB disk drive

Products are available from HP's Finance and Rernarketing Division (FRD) with one-week shipment after receipt of order. Additional discounts do not apply, but authorized channel partners and distributors get reseller discounts on these prices.

Units are limited to FRD's current inventory. Please be aware that memory may be in 8-, 16-, or 32-MB increments, depending on current availability.

Contact your HP representative for more information.

Revised power supply requirements for Model 890

Input power supply specification for the HP 9000 Model 890 has been changed from three phase to single phase. The change was made to simplify site preparation and system installation effort, which lowers installation cost. Consequently, the three-phase power supply requirement specified in the Model 890 technical data sheet (P/N 5091-3609E) revision M0492 and the HP 9000 configuration guide (P/N 5091-4367E) revision M0592, is incorrect.

Revised power supply specifications

- AC power input 200–240 VAC, single phase, 50160 Hz
- Maximum current 12.0 amps at 200 VAC; 10.1 amps at 240 VAC
- Maximum power 2434 watts
- Maximum heat dissipation 8,300 BTU/hour

Ordering information

Product No.	Description
A1826A	HP 9000 Model 890
Opt. 017	200-240 VAC 50/60 Hz single-
•	phase power without power
	cord for European installation
Opt. 018	200-240 VAC 50/60 Hz single-
	phase power with power cord
	for North American and Asian
	installation

HP 9000 Series 800 networking product structure changes

Effective August 1, the following products incorporate new operating system options giving users the flexibility to choose software consistent with their operating system releases (HP-UX 8.0 or 9.0).

Product No.	Description
Link oroducts	
36960A	X.25/9000
J2157A	FDDI
J2166A	Token Ring
Software-only	products
32032A	X.400/9000
32070A	OTS
B10298	NS
B1033A	FTAM
J2152A	X.500 Server
J2153A	X.500 Client

Software-onlynetworking products can be supported on CD-ROM media

Most of the products specify operating system version and media options (such as magnetic tape, DAT, CD-ROM, or QIC). To receive the software, users must choose one media option and one version option.

Description
S
HP-UX Version 8.0 software
HP-UX Version 9.0 software
HP-UX Version 8.02 software (only on specific products)
1/4-inch cartridge tape (not supported with HP-UX 9.0 versions)
%-inch magnetic tape (1,600 bpi)
DDS cartridge tape (DAT)
QIC media
CD-ROM certificate (added to software-only products in August)

The X.25/9000 link for the Series 800 and the NS/9000 for Series 800 products have media and operating system versions combined under one option. For example, the new options for X.25/9000 link for the Series 800 are as follows:

Product No.	Description
Opt. UJA	½-inch magnetic tape (1,600 bpi) HP-UX 9.0
Opt. UJC	DAT HP-UX 9.0
Opt. UJD	QIC tape HP-UX 9.0

HP-UX Release 9.0 Starbase support

Starbase for HP 9000 Series 800 HP-UX 9.0 will not be available on the HP Price List. Only HP 9000 Series 800 multiuser users with update support services will receive HP Starbase for 9.0.

No new functionality has been added to the HP-UX 9.0 run-time version of Starbase for Series 800. Graphics users may substitute Xlib. Contact your HP representative for details.

High-end Series 800 products discontinuance

HP 9000 Models 850S, 855S, and 860S will be removed from the November HP Price List due to the rapid evolution of the high-end Series 800 product family. Model 855S and 860S upgrades **will** also be removed from the November price list. Installed-base users are encouraged to upgrade directly to the Model 870S.

Product No.	Description
9742A	HP 9000 Model 850S business server
A1114A	HP 9000 Model 855S business server
A1843A	HP 9000 Model 860S business server
A1118A	Model 850S to 855S CPU upgrade
A1844A	Model 850S to 860S CPU upgrade
A1808A	Model 855S to 860S CPU upgrade

HP Optical Storage Server Structured Solution package discontinuance

As the number of users who want to purchase only items needed to complete the recommended configuration has increased, Hewlett-Packardwill discontinue the HP Optical Storage Server Structured Solution package (P/N C2455A) as of November 1. 1992. Orders will be accepted until October 31. After this date, users will be able to take advantage of this solution, which provides more online storage capacity by integrating fast but expensive hard disks with high-capacity and lower-cost optical libraries, by purchasing HP Storage Manager software (P/N C2450A) as a standalone product. This way, users can better leverage from previous hardware investments. HP Storage Manager software is available for all HP Apollo 9000 Series 700 workstations except the Model 705.

Recommended configuration

The recommended configuration remains the same as offered through P/N C2455A — a Model 720 workstation server, a well-balanced hard disk, and optical library configuration including all cabling.

Product No.	Description
A1929A	HP Apollo 9000 Model 720 GRX, 32-MB, HP-UX 8.07 (with Opts. AMH, AN8, 0DJ)
A1099B	Localization kit
C2217T	1.3-GB disk
C2297T	2.0-GB DAT integrated in-disk cabinet (with Opt. 001)
K2291	SCSI cable
K2297	SCSI terminator
C1700A	20-GB optical library (with Opts. AFJ, 1AB, 241)
C2450A	HP Storage Manager software on DAT

also in this issue

Multiuser system disk array prices reduced 15 New pricing for HP Software Integration Sockets 16

HP OpenSpool and Novell

HP OpenSpool now supports
Portable NetWare 9000. NetWare
users can print to any device
spooled by HP OpenSpool and vice
versa. NetWare provides a command, "npcat," that sends print
requests to any printer in the
NetWare realm. HP OpenSpool
can use this command integrated in
a network interface. In the other
direction, users can modify
NetWare Printscript. NetWare
users can print to any device
spooled by HP OpenSpool.

Benefits

- Integration HP OpenSpool enables users to integrate HP-UX systems into Novell networks.
 Printers can be used by both HP OpenSpool and Novell users.
- *PC printer* Printers connected to PCs can be used from HP-UX systems via Novell service.

Requirements

- HP 9000 Series 800 and HP Apollo 9000 Series 700
- HP-UX 8.0 or later
- Portable NetWare 9000
- HP OpenSpool AOLOO or later

HP Software Integration Sockets supports AS/400 and VAX/VMS

HP Software Integration Sockets for OS/400 and VMS is a software products and services family that enables peer-to-peer communication in a heterogeneous environment among otherwise noncooperating applications. It is a message queuing product with the added functionality of data translation and manipulation, process control, system administration, and developer tools.

HP Software Integration Sockets for OS/400 and VMS is ideal for users that want to integrate mission-critical applications within or between functional areas of an enterprise — discrete manufacturing, process industries, retail, telecommunications, state and local governments.

HP Software Integration Sockets is already supported on the following operating systems: HP-UX, MPE XL, MPE/iX, MVS, MS-DOS, and SunOS. HP offers support on the OS/400 operating system of the IBM AS/400 family and the VMS operating system of the DEC VAX family.

Features and benefits

The products, sometimes called gateways, have the same functionality as the listed non-HP platforms. They are client/server implementations of the products for HP platforms and require a nondedicated HP 9000 in the network running HP Software Integration Sockets for HP-UX.

Applications on the non-HP platforms are connected to the HP Software Integration Sockets domain using 12 high-level routines. These routines allow a client application to send or receive data or files transparently to or from any other process within the HP Software Integration Sockets domain. Data manipulation and translation take place on the HP 9000 server.

Ordering information

The products are structured according to the future direction of all HP software products: a license to use product and a media/manuals product. A user needs to buy one media/manual product only. Licenses to use are structured into four price tiers.

ıcts
HP Software Integration Sockets license to use
HP 9000 server medialmanuals
AS/400 client media
ts
HP Software Integration Sockets license to use
HP 9000 and VAX client/server media/manuals

Domain 10.4 and more...

HP is committed to providing software investment protection to Domain/OS users through the year 2000. The level of support that Domain/OS will receive is dependent upon users since support funding comes from revenue generated by installed-base software maintenance contracts.

Users will continue to receive the same support:

- Examination of all service requests
- Continued resolution of serious and critical defects
- Product patches will continue to be provided
- Identification of the most critical services such as limited enhancements, new peripheral verification and support, and frequency of minor releases

To take advantage of support services and special programs, Domain/OS users need to have an active software maintenance contract. Users who are not currently receiving software maintenance will be eligible to participate in the Welcome Back program.

Users whose production environments require the use of Domain/OS for the next few years should move to SR10.4, the most recent release. Contact your *HP* representative for more information.

Common Lisp Interface Manager

Common Lisp Interface Manager Version 1.1(CLIM) for Lucid Common Lisp/HP (formerly HP Common Lisp) is an object-oriented programming environment for creating user interfaces in Common Lisp. It is targeted toward users in advanced software development labs who work with object-oriented programming, prototyping and simulation, natural languages, and knowledge engineering.

CLIM works with Lucid Common Lisp and is implemented in the Common Lisp Object System. Both run on the HP Apollo 9000 Series 700 and 400 product lines.

Features and benefits

- Portable interface builder CLIM provides programmers with rich API for high-level definition of user interfaces. CLIM supports host environments including X, OSF/Motif,™ Genera, and Apple Macintosh. Programmers can write applicationsthat are independent of underlying window systems and tool kits.
- High programmer productivity — With its objectorientation. CLIM provides programmers with high- and low-level programming capabilities. Programmers can define locations or allow CLIM to organize elements.

A Premier Solution Provider, Lucid currently offers the highest quality Lisp implementation running on HP systems. Lucid supports the majority of commercial Lisp development worldwide and assures high product support and user satisfaction. Lucid provided Common Lisp to both HP and Apollo and now provides the products directly to the user base.

OSF/Motif is a trademark of the Open Software Foundation in the *U.S.* and other countries.

New development environmentkit for 8.X X Window users

The HP User Environment developer's kit (UEDK, P/Ns B1192A and B1193A) is software development tools for developing X Window System and OSF/Motif 1.2-based applications on HP 9000 Series 300 and HP Apollo 9000 Series 400/700 systems.

It is ideal for *HP-UX* software developers who need the latest standard software development tools — OSF/Motif 1.2 and X11 R5 — but do not want to move from *HP-UX* 8.X to 9.0.

HP UEDK consists of tools that allow developers to effectively and efficiently produce highquality, standards-based applications with consistent user interfaces. Developers can also create new widgets, use the User Interface Language (UIL) to describe a user interface, or use the developer's kit to design, develop, and implement online help for applications.

continued on next page

Features and benefits

- R5 Xlib provides the capability to write X-based programs in C or FORTRAN
- R5 Xt intrinsics allow programmers to create consistent widget and gadget user interface components such as scroll bar menus and buttons
- 1.2 OSF/Motif widgets provide programmers a predefined tool set for constructing consistent, easy-to-use applications; provides 3D appearance and easy-to-use PC behavior for reduced training and documentation costs for applications ported to multiple operating systems
- 1.2*UIL* high-level language for development of user interfaces
- HP HELP System developer's
 kit allows developers to create and integrate online and into their applications

Ordering information

Product No.	Description
B1192A	HP UEDK license to use for Series 3001400 (HP-UX 8.0)
Opt. AA0	16-track.%-inch tape
B1193A	HP UEDK license to use for Series 700 (HP-UX 8.05/8.07)
Options for ab	ove products
Opt. AAH Opt. AAU Opt. OBL	DDS cartridge CD-ROM certificate Documentation

Improved HP AIMS SoftAIP

HP Advanced Image Management Systems (AIMS) SoftAIP (P/N D2419B Option 240) is a software program for use in HP AIMS PC workstations that provides image manipulation functions equivalent to those of the HP AIMS HardAIP.

With the introduction of the latest version of SoftAIP, users will be able to take advantage of improved image operations performance at the old price. This has been achieved by using MS-Windows memory management techniques rather than relying on RAM disk utilities.

Performance is dependent on the type of PC being used and the image format. On a properly configured PC, the new SoftAIP can decompress an image at approximately half the speed of HardAIP at about one third the price. The previous version of SoftAIP could take four to five times as long as the HardAIP card.

To achieve this increased performance, the new SoftAIP requires 8 MB of RAM and 8 MB MS-Windows disk swap file. This is an increase over the previous RAM requirement of 4 MB. The advantage of improved performance and the latest price reduction of HP AIMS standard run-time software increases the competitiveness of HP AIMS per workstation.

HP AIMS server and client software pricing changes

As of July 1, the prices for the following HP AIMS server and client software products were changed. All upgrade credits will be changed accordingly. Contact your HP representative for more information.

Product No.	Description
HP AIMS clie	nt software
D2418B	HP AIMS development software pack
Opt. 200	Standard development libraries
D2419B	HP AIMS development software pack
Opt. 200	Standard run-time libraries
HP AIMS serv	rer software
B1604B	HP AIMS DataManager
B1605B	HP AIMS ESQL/C
B1606B	HP AIMS MediaManager
B1607B	HP AIMS JukeboxManager
Options for H	P AIMS server software products
Opt. 010	For HP 9000 Models 8151807
Opt. 020	For HP 9000 Model 817
Opt. 030	For HP 9000 Models 822/825/827
Opt. 040	For HP 9000 Models 832/835/837
Opt. 050	For HP 9000 Models 842/845/847
Opt. 060	For HP 9000 Models 852/855/857/ 867
Opt. 070	For HP 9000 Models 8701100.877

New DN DealMaker upgrade program

For the U.S. only

The DN DealMaker upgrade program is a new trade-up program targeted at the Domain installed base. Users can trade in DN Series nodes for new PA-RISC-based workstations. Users can choose from several predefined configurations that offer substantial net prices regardless of VPA discount.

Features and benefits

Project agreement — Users sign a special project agreement before they can participate in the program. Their only commitment is to trade in 20 or more DN nodes for new PA-RISC-based workstations before the beginning of 1994.

Product exhibits — After signing the project agreement, users may order from a list of predefined configurationsat specific, attractive net prices. Startup configurations offer bundled hardware, software, Domain migration tools, and training classes. User bundles offer several configurations ranging from HP Apollo 9000 Model 705 to Model 750, and a Model 425t with a PA-RISC board upgrade bundled in (with some net prices discounted over 40%). Participating users can get the new HP Apollo 9000 Series 400 PA-RISC upgrade board for Series 400 workstations.

Time — Program is terms are available immediately, and users can place orders as soon as they sign the project agreement. Orders can be placed through December 31,1993, and deliveries can be scheduled through March 31, 1994, providing users an opportunity to spread upgrade expenses over three years.

 Market focused — Initially, the program offers configurations that are targeted at design automation, engineering, and scientific markets. As HP announces workstations, additional product exhibits with configurations that target other markets such as CASE will be added.

Contact your HP representative for more information.

New HP OpenView Management Stations pricing

As of July 1, the prices of HP OpenView Campus Management Station and HP Enterprise Management Station (P/Ns B1039A and B1040A) are lower than the cost of the individual pieces, both hardware and software. The two products are HP Apollo 9000 Series 700 workstations, configured for OpenView, with OpenView Network Node Manager preinstalled and preconfigured. One station is based on the Model 710, the other on the Model 720.

HP-UX software on CD-ROM media distribution changes

Beginning in September, with each bimonthly update of HP-UX software, users will receive only CD-ROMs that have changed. The distribution strategy change is to alleviate user confusion regarding which CD-ROM discs have been updated and to decrease the amount of CD-ROM media that must be disposed. Users signed up to receive HP 9000 Series 300/400/700 HP-UX software updates on CD-ROM media will continue to receive shipments of bimonthly updates on schedule.

HP-UX software on CD-ROM media is a versatile alternative to magnetic media that can reduce user costs for software updates. Users also benefit from faster software updates compared to magnetic media and the convenience of receiving multiple products on a single CD set. Bimonthly distribution provides timely, predictable, and comprehensive software updates.

Strategy

Updates will have new CDs for the core operating system and application discs that have had content changes. The changed CDs will require new code words that will also be supplied when the user is entitled to any of the applications on the new discs. Users are expected to dispose of only those CDs that are being replaced within the set.

HP 9000 Series 300 discontinuance

The following HP 9000 Series 300 products will be discontinued effective March 1, 1993.

Final orders will be accepted through March 31, 1993, in the U.S., and through April 30,1993, internationally. Final slupments will be made through August 31,1993.

Product No.	Description	Replacement
A1480A	Model 380C+ controller	A2250A, Model 382 controller
A1481A	Model 380CH controller	A2250A, Model 382 controller
B1013A	Series 300 NFS	Included in HP-UX
B1014A	Series 300 ARPA	Included in HP-UX
98243C	Model 310 field upgrade to Model 332	None
98243CX	CPU board	None
98243CY	CPU board	None
98243CZ	CPU with high resolution, monochrome	None
98244C	Field upgrade for Models 330/350/360/370 to Model 375	None
98248B	Floating-point accelerator for Models 33013601370	None
98248BN	Return credit for floating-point accelerator	None
98259A	Magnetic bubble memoryfor Series 200 and 300	None
98265A	SCSI board for Models 330 and 350	None
98542A	Medium resolution 512 x 400 monochrome graphics interface	None
98543A	Medium resolution 512 x 400 color graphics interface	None
98623A	DIO BCD interface adapter	None
98640A	010 analog to digital converter	None
98645A	Measurement library	None
98690A	PDI development package	None
98691A	Series 200 programmable datacomm interface	None

Domain DN series hardware discontinuance

The following Domain DN products (including options) are being discontinued and removed from the December 1992 HP Price List. There are no replacements.

Product No.	Description
<i>DN 2500/3500</i> add	ons
A-200EF*	External 200-MB disk expansion module
A-660E*	External 660-MB disk expansion module
A-ADD-2001	Internal 200-MB SCSI disk drive
A-ADD-2MB	2-MB add-on mernory Series 3000
A-ADD-4MB-A	4-MB add-on memory Series 3500
A-ADD-4MB-C	4-MB add-on memory for DN2500
A-ADD-8MB-A	8-MB mernory expansion Series 3010A
A-ADD-8MB-C	8-MB add-on memory for DN2500A
A-697*	Disk, 697 multimodule, various versions
Computers	
DN4500	Series 4500 workstation
DN5500	Series 5500 personal super workstation
DN3CK*	Country kit for DN4500/5500
DN3CK-*1	Country kit for DN4500/5500
DSP4500	Series 4500 server
DSP5500	Series 5500 server
DSPCK-*	Country kit for DSP4500/5500
DN <i>2500/3500</i> upg	grades
U200IS	Upgrades DN2500 internal disk 100- to 200-MB
U25MONL-M	Upgrades DN2500 15-inch monochrome to 19-inch monochrome
UM0N19*	Upgrades 15 inch to 19 inch, various versions

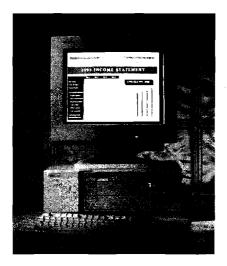
			
U15L-19*	Upgrades 15-inch black and white to 19-inch color, two versions	A-LPFK*	Apollo lighted programmable function keybox
LID DOEGGEGAD		A-NET-ETH	Network controller Ethernet
UDP3500697R	Upgrades MSD500 to DSP3500 4-MB with 697-MB disk	CB-SYNC*	Serial communication cable, three versions
UGMDNM-F-35	Upgrades DN3500/3550M to DN3500/3550F	COM-DFL*	Domain/DFL-100, various versions
UITR-35	Upgrades DN/DSP35XX to	COM-PC18150	Domain PC1 8, two media options
UITR-35-N	IBM token ring 4 M B DN35XX communication	KIT-CENT*	Parallel interface kit, various versions
UMDNC-A	upgrade Upgrades color system to 8 pl desktop visual system	SCAT10*	Controller intelligent, various versions
IIMONE E 25	· · · · · · · · · · · · · · · · · · ·	Upgrades	
UMONE-F-35	Upgrades DN3500/3550Eto DN3500/3550F	U348*	Upgrades various disks to 348-MB fast actuator
USWFC-35	Upgrades DN3500 with WFC to SWFC	UATR	Upgrades two-board ring se to token ring
U3500-4500	Upgrades DN3500-4/8 M B to DN4500-8 M B	UMDN*	Upgrades various versions
U35545	Upgrades DN3550 to DN4500	USWFC-45	Upgrades DN4500 with WFC to SWFC
U3K45*	Upgrades DN30X0 to DN4500, various versions	A1923A	Upgrades 16-MB memory board for DN5500
U445*	Upgrades DN4000 to DN4500, various versions	O, 'More letters or numbers are required to	
A1631A	Upgrades 25-MHz MC68040 for DN3500/4500		
DN 4500/5500 add	dons	discontinued.	orproducte mature being
A-16MB-B	16-MB add-on memory DN3550/4500DSP3550/4500	The last of the specific add ons for	
A-348E*	Disk348 external expansion		5500 family will be
A-6250*	Tape drive 160016250 BPI 1/2		d June 1,1993.
A-ADD-155M	Disk 155-MB Winchester drive	A few products related to even	
A-ADD-348FA	Oisk 348-MB Series DN/DSP		
A-ADD-8MB-B	8-MB memory expansion Series 355014500		
A-ADD-FLP	1.2-MB floppy disk Series 3XXX/4XXX		
A-ADD-FPA	Floating-point accelerator		_
A-ADD-STC	SCSI cartridge tape drive		
A-ADD-STCA	Add-on SCSI cartridge tape drive		_
A-ADD-SWFC	Controller SCSI Winchester		
A-ADD-TC	Cartridge tape drive and controller		_
A-CBL-SPE	Centronix par adapt cable		
A-ETC*	External SCSI cartridge tape expansion		

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New HP Vectra 486/66U PC HP Vectra 486s/20 PC chip



The new HP Vectra 486/66U PC 66-MHz Intel486 DX2 desktop PC features high-speed, high-resolution graphics, and easy upgradability. It is the most powerful member of the new HP Vectra 486U PC family.

In addition to this introduction, the price for the HP Vectra 486/50U PC has been reduced.

Ordering information

Product No.	Description
D2278A	HP Vectra 486/50U PC Model 1, no hard disk, 486 DX2 CPU
D2280A	HP Vectra 486/50U PC Model 240, 240-MB IDE hard disk, 486 DX2 CPU
D2281A	HP Vectra 486/50U PC Model 430, 430-MB SCSI hard disk, 486 DX2 CPU
D2284A	HP Vectra 486/66U PC Model 1, no hard disk, 486 DX2 CPU
D2286A	HP Vectra 486/66U PC Model 240 240-MB IDE hard disk, 486 DX2 CPU
D2287A	HP Vectra 486/66U PC Model 430, 430-MB SCSI hard disk. 486 DX2 CPU

HP Vectra 486s/20 PC chip upgrade kit

The Intel OverDrive/20 upgrade kit (PIN D2170A) is a microprocessor upgrade kit for HP Vectra 486S/20 PCs only that includes the chip and required BIOS and configuration software.

Features and benefits

HP Vectra 486S/20 PC users can plug the Intel OverDrive/20 chip into the coprocessor socket and install the upgrade software. The HP Vectra 486120 PC will operate with a CPLJand coprocessor running at 40 MHz, which will boost, PC power performance to approximate that of a 486DX/33 PC. The chip upgrade kit is user installable and is currently the easiest and most inexpensive way to upgrade HP Vectra 4868120 PC performance.

If the kit is purchased from a non-HP source on the open market, it will not include the new BIOS and configuration software; hence the Intel kit will not work without the software upgrade. Users who want to purchase the Intel upgrade kit from a non-HP source will have to obtain HP Vectra 4868120 PC update drivers from HP (\$24.25 in U.S., \$29.00 outside U.S.) by calling HP FIRST at 208-344-4809, specify 1 for section, 6600 for driver request form, and 6601 for software update list; and fill in the driver request form with PIN D2165-60001 for 3%-inchdisk (non-U.S.): PIN D2165-60002 for 5%-inch disk (non-U.S.); PIN D2165-60003 for 3s-inch disk (U.S.); or P/N D2165-60004 for 5%-inch disk (U.S.).

HP Vectra 486U PC chip upgrade kits

The Intel 486DX/33, Intel OverDrive/25, and Intel OverDrive/33 upgrade kits for HP Vectra 486U PCs boost the power of the PC by doubling the internal clock speed of the chip, thus accelerating performance on CPU intensive calculations.

Features and benefits

- Economical performance boost
 HP Vectra 486 PC users can boost

 PC power up to the performance
 of an HP Vectra 486/66U PC
- Easy, quick installation user installable

Ordering information

Product No.	Description
D2169A	Intel 486DX/33 upgrade kit
D2171A	Intel OverDrive/25 upgrade kit
D2172A	Intel OverDrive/33 upgrade kit

Products are on the September Corporate Price List.

Intel486 is a U.S. trademark of Intel Corporation.

New HP Vectra 386s/25 PC



The HP Vectra 386s/25 PC is the latest addition to HP's advanced PC family, which includes all features of the HP Vectra 386s/20 PC.

The new PC is ideal for users that need flexible and expandable PCs for technical or business applications; HP 3000,9000, and Vectra PC installed-base users, and security-conscious users.

Features and benefits

• Flexibility and performance — The basic functions of the PC, including Super VGA, are integrated on the PC system board. Highly integrated design combined with a 25-MHz 386SX processor and a 16-KB cache means faster overall performance and higher reliability. The HP Vectra 386s/25 PC performs consistently 10-20% above competitive 25-MHz 386SX PCs. Integration allows room to grow: five accessory slots to accommodate key accessories, four mass storage shelves for data storage on 3½- and 5%-inchfloppy drives, and space for tape backup, CD-ROM drives, or up to 860 MB on SCSI hard disk drives.

- Advanced security features ___ Security options in the setup program help prevent unauthorized access to information and guard against theft of data. Separate passwords for user and system administrator allow the latter easy access to security options. Options cannot be changed without administrator password. Push-button keyboard lock/screen blank ensure user confidentiality as applications continue to run in the background.
- Extensive compatibility testing — The HP Vectra 386s/25 PC will fit into the current user hardware and software environment because it has been tested on numerous applications and configurations, both in standalone and connected environments.
- Easy setup and use The ROMbased setup program is userfriendly and automatically detects the PC configuration hardware changes. Accessories, CPU components, and subassemblies are easy to access and replace. This translates to less trouble for users and system administrators.
- Advanced ergonomic design Super VGA video with a low-flicker screen refresh rate of 72 Hz reduces eyestrain and fatigue; front control panel puts all user functions within convenient reach; and temperature-controlled fan ensures quiet operation.

 Investment protection — The HP Vectra 386s/25 PC is upgradable via system board swap to the HP Vectra 486U PC series.
 A 256-KB video memory upgrade provides modes 640 x 480 and 800 x 600 in 256 colors and mode 1.024 x 768 in 16 colors.

Ordering information

The HP Vectra 386s/25 PC is available from HP dealers and carries a one-year limited warranty convertible to three months onsite repair.

Product No.	Description
D2565B	Manual kit for HP Vectra 386s PC
D2574A	Model 1-3/2MB, 2 MB RAM (1.44-MB floppy disk, no hard disk)
D2579A	Model 170-3/4MB, 4 MB RAM (1.44-MB floppy disk, 170-MB hard disk)
Available in U	l.S. and Canada only
D2572A	Model 80-3/2MB , 2 MB RAM (1.44-MB floppy disk, 85-MB hard disk)
Available in A	sia Pacific and Latin America only
D2570A	Model 80-5/4MB, 4 MB RAM (1.2-MB floppy disk, 85-MB hard disk)
D2571A	Model 170-5/4MB, 4 MB RAM (1.2-MB floppy disk, 170-MB hard disk)
Not available	in Europe
D2575A	Model 1-5/2MB, 2 MB RAM (1.2-MB floppy disk, no hard disk)
Not available	in U.S.
D2578A	Model 80-3/4MB, 4 MB RAM (1.44-MB floppy disk, 85-MB hard disk)

A language option must be specified

HP Vectra 386/25N PC supports HP PC LAN Adapter 16/TP Plus

Effective September 1, the HP Vectra 386/25N PC Model 80L (P/N D2493A) is shipping with the new high-performance HP PC LAN Adapter 16/TP Plus (P/N 24247B). The HP multiprotocol boot-ROM accessory rolls from P/N D2407A to D2407B and supports the HP PC LAN Adapter 16/TP Plus. The new boot-ROM is backward compatible and supports HP PC LAN Adapter 8/TP (P/N 27245A) and HP PC LAN Adapter 16/TP (P/N 27247A).

HP Vectra 386125 PC price reduction

Effective September 1, the price of the HP Vectra 386125 PC was reduced.

Product No.	Description
D2360A	Model 1-5 with 5%-inch floppy, no hard disk
D2371A	Model 1-3 with 3%-inch floppy, no hard disk
D2363A	Model 80-85 with 5%-inch floppy, 84-MB hard disk
D2361A	Model 80-83 with 3%-inch floppy, 84-MB hard disk
D2364A	Model 170-175 with 5%-in floppy, 168-MB hard disk
D2362A	Model 170-173 with 3%-inch floppy, 168-MB hard disk

Benefits

The HP Vectra 386/25 PC is a true 386 machine. As opposed to SX machines that use the detuned 386SX, the HP Vectra 386125 PC uses the 386DX processor running at 25 MHz. This results in better performance in 110-intensive applications such as process monitoring systems or database applications.

The HP Vectra 386/25 PC uses the 386DX processor that has been available since 1986, and a number of users still consider it the standard for 386 machines. This explains why some users do not want to buy SX machines and why HP has decided to keep this machine (the only remaining DX-type PC in the product line) available as long as there is demand. HP users feel more confident about a machine that is stabilized and consequently bug free.

PC and HP LaserJet printer furniture obsolescence

The following HP LaserJet printer furniture products have been obsoleted. These products are not part of any discount exhibits or any discount schedules.

Product No.	Description
92299A	Floor unit
92299B	Standard module
92299C	Pull-out shelf
92299D	Keyboard drawer
92299E	HP 150 workstation
92299F	HP Vectra PC workstation
92299H	HP LaserJet printer station
92299K	Copy holder
92299L	Paper refold guide
92299M	Paper catcher basket
92208A	Mobile PC center
92272F	Tape storage rack

HP Vectra 386/16N PC discontinuance

The following HP Vectra 386/16N PCs will be removed from the November HP Price List. Orders will be accepted until November 30, 1992. Users should change to HP Vectra 386/20N and 386/25N PCs, which offer up to 55% faster processing with the same advanced networking, security, and ergononuc features as the HP Vectra 386/16N PC.

Product No.	Description
D2470A	HP Vectra 386/16N PC Model 0
D2471A	HP Vectra 386/16N PC Model 1
D2472A	HP Vectra 386/16N PC Model 50
D2473B	HP Vectra 386/16N PC Model 50L







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Microsoft and HP to provide joint messaging solution

Microsoft and HP have announced the intention to integrate Microsoft Mail 3.0 for Windows with HP OpenMail. HP intends to support the Microsoft Messaging API (MAPI) as a standard interface for developing message-enabled applications. The announcement was made at the European Electronic Messaging Association conference.

The Microsoft Mail 3.0 and HP OpenMail solution is designed to meet the needs of users with large global networks. Users will be able to communicate multimedia messages containing text, graphics, sound, and other application objects through the support of the Microsoft object-linking and embedding (OLE) technology. HP OpenMail users will also be able to develop messaging-enabled applications and take advantage of other third-party applications written to MAPI.

New HP AdvanceLink release for MS-Windows and HP NewWave

HP is announcing HP AdvanceLink for MS-Windows and HP NewWave Version A.03.14. This version introduces new functionality and improved platform support providing improved ease of use, greater security, and better flexibility. It also provides emulation of HP and DEC terminals, which allows users to access and execute host software from PCs.

This new release is ideal for HP and DEC terminal users connected to HP 9000s, 3000s, and 1000s that want to access terminal/host programs from PCs and integrate into client/server configurations.

Features and benefits

- Fast, reliable file transfer simplifies the exchange of data between PC and host
- *Cut and paste and DDE sup port* — allow for a deeper level of PC-to-host application integration
- Task automation through extensive scripting language minimizes work required to complete complex, frequent activities
- Drag and drop-in windows allow files to be dragged across from the HP PrintManager window onto the HP AdvanceLink window (as in HP NewWave, this can cause script execution or file transfer providing greater ease of use)

Enhanced log printing option in log dialog box — allows host applications to send data directly to the local printer, bypassing the Windows FileManager and providing better printing capability

- Scalable font sizing option on font size pop-up memo added to terminal settings dialog; allows fonts to be resized whenever the window is resized so that 24 rows by 80 columns are always displayed for greater ease of use (fixed fonts are still available)
- Encryption and decryption of script files — prevent TermTalk or other script files from being read or used by unauthorized individualsfor greater security
- Third-party network support allows connection via TCPAP to HP 9000s using NetManage's NEWT or Chameleon software and Frontier's SuperTCP software; both are Windows Dynamic Link Libraries allowing connections to hosts over NDIScompatible TCPAP networks
- MS-Windows 3.1 support provides better performance and improved FileManager capability
- HP NewWave 4.0 support provides improvements to Agent tasks and language
- Sample scripts demonstrating HP AdvanceLink and TermTalk shipped with release provides users with faster understanding of the product's potential

continued on next page

Product line positioning

HP AdvanceLink for MS-Windows and HP NewWave, part of the multiplatform HP AdvanceLink family of products, provides powerful communication capabilities enabling users to integrate terminal/host applications with client/server and PC applications.

Ordering information

Version A.03.14 is available with new product.numbers at the same price as the previous version. Users who have previous versions can use new upgrade product numbers to move to the new release.

Product No.	Description	Replacement
D2104B	HP AdvanceLink for MS-Windows and NewWave single user	D2104C
D2104-60012	HP AdvanceLink for MS-Windows and NewWave single-user upgrade	D2104-60015
D2114B	HP AdvanceLink for MS-Windows and NewWave right to copy	D2114C
D2434B	HP AdvanceLink for MS-Windows and NewWave right to copy upgrade	D2434C

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HP NetWare/iX performance improvements

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Ruggedized PC obsolescence notice

Effective immediately, the HP 9666A ruggedized PC is no longer available. No additional units will be manufactured. The key component for this system, the HP 2397A terminal, is no longer available.

Information Access obsolescencenotice

The following Information Access PC products have been discontinued. There is no replacement.

Product No.	Description
D2502AD	Information Access PC, German localized
D2502AE	Information Access PC, Spanish localized
D2502AF	Information Access PC, French localized
D2502AM	Information Access PC, Spanish-Latin America

HP OpenView distributed management platform and developer products start shipping

HP OpenView Release 3.1 Distributed Management (DM) Platform and Developer products are now shipping.

The HP OpenView 3.1 DM platform and developer's kit replace the current HP OpenView Network Management (NM) Server developer product. The new platform integrates simple network management protocol management functionality from HP OpenView Network Node Manager with the multiple protocols and common management services of the NM Server. It offers improved data... management through an optional integrated Ingres SQL relational database. Initial release is on HP-UX platforms.

HP OpenView DM developer's kit is designed for applications developers writing network and system management applications for distributed computing environments using multiple management or communications protocols. The DM platform is a run-time environment for applications managing heterogeneous networks.

Ordering information

Product No.	Description
J2319A	HP OpenView DM developer's kit Release 3.1 for HP 9000 Series 300 and HP Apollo 9000 Series 400
J2320A	HP OpenView DM developer's kit Release 3.1 for HP 9000 Series 6001800 and HP Apollo 9000 Series 700
J2322A	HP OpenView DM platform Release 3.1 for HP 9000 Series 300/400
J2323A	HP OpenView DM platform Release 3.1 for HP 9000 Series 600/700/800

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Mass Storage

Remanufactured peripheral products price reduction

HP has decreased the prices of eight disk and tape drives by as much as 47% (U.S. list) effective September 1.

Product No.	Description
C2204AR	1.34-GB HP-FL disk drive
7937HR	HP 7937HR 571-MB disk drive
7937XR	HP 7937XR 571-MB disk drive
7937FLR	571-MB disk drive with cache
9144AR	1/4-inch cartridge tape drive
9145AR	1/4-inch cartridge tape drive
C1700AR	20-GB optical autochanger
C2295BR	1.3-GB SCSI kit

Products are available in limited supply. P/N 7937 and P/Ns 9144/45 can be shipped with one-to two-week availability. Contact your HP representative to confirm availability on the other peripherals and for more information.

Plotters

New HP DesignJet 600 inkjet plotter

HP recently announced two HP DesignJet 600 plotter models: the A- through D-size model (P/N C2847A), and the A- through E-size model (P/N C2848A). These lower-priced models replace the original HP DesignJet plotter (P/N C1633A/B). These large-format plotters provide hard-copy output for CAD and drafting systems and are ideal for experienced CAD users who have outgrown their pen plotters but not their pen plotter budgets.

Features and benefits

The HP DesignJet 600 plotter has numerous improvements and retains original HP DesignJet plotter features such as final quality plots in less than six minutes, quiet operation, and modular interface options.

- Improved print quality addressable 600-dpi enhance mode, 300-dpi final mode, addressable 300-dpi draft mode, and ISO standard line widths as thin as 0.13
- Easier operation built-in queuing and nesting for unattended plotting; improved frontpanel menu system
- Increased memory standard memory of 4 MB expandable to 20 MB
- More flexibility for more users support for more HP JetDirect cards for directly connecting to networks including HP JetDirect cards for Novell Token Ring (P/N C2059C), LAN Manager Ethernet (P/N C2059B), and LAN Manager Token Ring (P/N C2059D); and AutoCAD™ and Microsoft Windows drivers shipped with product

The new plotters expand the market for large-format plotters by providing high resolution for designers and architects, more flexible connectivity solutions for network users, a new D-size model for users with space constraints, and lower prices for price-sensitive users. The Microsoft Windows driver opens nontechnical markets such as presentation graphics and project management.

AutoCAD is a U.S. trademark of Autodesk, Inc.

Printers

New HP LaserJet IIISi printer paper feeder

For U.S. and Canada only

HP recently introduced the new HP paper feeder (P/N C2921A). It is an enhanced and improved high-capacity paper feeder for the HP LaserJet IIISi printer and replaces the Genesis JetTray 1500Si (P/N GENS-01500A). For a limited time, both units will be available through dealers. The Genesis JetTray ultimately will be obsoleted.

Features and benefits

- The feeder increases the overall input capacity of the HP LaserJet IIISi printer to 2,000 pages, cutting paper refill time in half.
- The feeder holds 1,500 sheets of paper and fits into the printer's lower tray slot. With this configuration, the paper feeder is ideally suited for frequent and high-volume printing, while the upper tray can be reserved for specialized media such as letterhead or colored banner sheets.
- The feeder is easy to install; no extra hardware or software is required.
- New component enhancements include increased overall feeder reliability. In addition, the feeder matches printer maintenance and servicing schedules.
- The feeder carries a new one-year warranty. Technicians authorized to service the HP LaserJet IIISi printer will automatically be authorized to service the feeder.

HP OpenSpool supports direct printer connection

HP OpenSpool makes it possible to connect HP LaserJet printers directly to LANs. The HP LaserJet printer need only be upgraded with a LAN card.

Benefits

- Flexible peripheral locations —
 Printers and plotters can be
 located anywhere in the network
 using network cable. There are no
 serial or parallel cable length
 limitations. DTCs or other kinds of
 multiplexers are not necessary.
- Ease of use HP OpenSpool makes it easier to integrate an HP LaserJet printer into the network than with LP Spooler.

Requirements

Two solutions are available. The first solution requires:

- HP-UX 8.0 or later
- Network Printing Patch NPX for HP-UX
- HP OpenSpool AOlOO or later
- HP 9000 Series 800
- 3COM card 3COM Ethernet for HP LaserJet IIISi printers (P/N C2059B), 3COM BNC for HP LaserJet III printers (P/N C2071C), or 3COM EtherTwist for HP LaserJet II and III printers (P/N C2071D)
- Printers located on the same LAN as the HP-UX system

The second solution requires:

- HP OpenSpool AOlOO or later
- HP OpenSpool patch A01.03
- HP-UX 7.0 or later
- HP 9000 Series 3001800 or HP Apollo 9000 Series 400/700

- HP JetDirect card JetDirect TCPAP Ethernet for HP LaserJet IIISi printers and DesignJet plotters (P/N C2059T), JetDirect TCPAP HP Ethernet for HP LaserJet 11, IID, III, IIID printers (P/N C2071T), JetDirect TCPAP Ethernet for HP LaserJet II, IID, III, IIID printers (P/N C2071S)
- Media specification

New Windows printer driver for HP PaintJet XL300 color printer

The new Windows Printer Driver Version 1.10 for the HP PaintJet XL300 color printer offers improvements over earlier versions.

- Screen-to-printer color matching Improved standard color tables, which ship with the Windows driver, provide more accurate color printing with better consistency to HP ScanJet IIc scanners and DeskJet C printers.
- Additional color calibration capabilities Users may choose to calibrate their particular monitors, which can vary significantly in the Windows environment. Color maps automatically adapt to individual screens. Color calibration capabilities can give HP PaintJet XL300 printers a competitive advantage over other color printers.
- Installation procedures modified for optimal printing performance Users will be directed to use the install program included with the driver to load in Windows. This procedure optimizes the performance of HP PaintJet XL300 printers. Users

- will not be able to use the standard driver installation procedure in Windows.
- Bezier Curve support Programs that support Bezier Curves print out faster on HP PaintJet XL300 printers with the new driver.

The driver **will** ship with HP PaintJet XL300 color printers built after September 15. It **will** be available on CompuServe™ in the HP Peripherals Forum Library 6 for current HP PaintJet XL300 printer users. It can be ordered from HP Fulfillment via fax at 303-352-6152.

CompuServe is a U.S. trademark of CompuServe, Inc.

New printers supported on HP 1000 A-Series

In keeping with the current strategy of supporting current peripherals, Hewlett-Packard announces immediate support of the following HP printers on the HP 1000 A-Series:

Product No.	Description
C2106A	HP DeskJet 500 printer
33471A	HP LaserJet IIP printer
33481A	HP LaserJet IIIP printer
33491A	HP LaserJet IIISI printer
33449A	HP LaserJet III printer
33459A	HP LaserJet IIID printer

These printers are supported in both Alpha and Graphics modes. Graphics mode is supported using PCL3 Graphics handler (P/N D0077). The handler will be replaced with the HPGL2 handler at the next RTE-A revision. The new HPGL2 driver should increase speed and functionality for HP LaserJet III printer products.

Additional HP JetDirect card support for HP PaintJet XL300

The following HP JetDirect cards were added to the list of supported HP JetDirect cards for the HP PaintJet XL300 color printer (P/N C1645A). With the addition of the cards, the HP PaintJet XI300 color printer will reach the goal of supporting one of the most popular network configurations in the workplace.

Any of the HP JetDirect cards listed stocked before August 3 will work on the HP PaintJet XL300. They do not, however, list the HP PaintJet XL300 on the label as a supported peripheral or include the HP PaintJet XL300 installation guide. If you need the installation guide, contact your HP representative.

Product No.	Description
C2059E1	HP JetDirect card for AppleTalk (EtherTalk)
C2059B	HP JetDirect card for LAN Manager (3Com 3+0PEN, Microsoft LAN Manager) 802.3
C2059D1	HP JetDirect card for LAN Manager/Server (3Com 3+0PEN, IBM LAN Server, Microsoft LAN Manager) Token Ring
C2059T ^{1,2}	HP JetDirect card for UNIX (TCP/IP Ethernet for HP-UX, SunOS, SCO UNIX)
C1642A	HP JetDirect card for HP-IB

Requires the Ethernet 10Base-T adapter kit, P/N C1647A, for Ethernet 10Base-T connections.

PostScript option for HP PaintJet XL300 color printer

The HP PaintJet XI300 color PostScript printer (P/N C1656A) will be available in September. A PostScript Level 2 upgrade kit (P/N C1651A) for the standard HP PaintJet XI300 printer (P/N C1645A) will ship in October. Both PostScript options for the HP PaintJet XI300 printer are orderable now.

Features and benefits

- Integrated solution with PostScript firmware from Adobe'
- Near-universal compatibility with color application software
- HP LaserJet Series III printercompatible autoswitching between PCL 5 and PostScript printer languages
- 35 scalable typefaces
- 6 MB of printer memory, expandable to 18 MB
- PostScript Level 1 compatibility
- Adobe Type Manager (ATM) clarification for PostScript option

Adobe Type Manager is not included with HP PaintJet XL300 color Postscript printer or PostScript upgrade kit.

Ordering information

Product No.	Description
C1656A	HP PaintJet XL300 color PostScript printer
C1651A	PostScript Level 2 upgrade kit

Adobe is a registered trademark of Adobe Systems, Inc. in the U.S. and other countries

New look for HP **LIDM** printers

The HP family of line impact dot matrix (LIDM) printers will have a new look starting October 1.

New features

- Parchment white cabinets, bases, and top covers (same color as HP LaserJet printer products)
- Clear top cover windows for easy viewing of printer output
- Green user-adjustable knobs and levers for easy identification
- Standard attached dove gray sound enclosures for Models 2563C and 2300/840L

The changes are intended to give LIDM printers a more modern and fresh appearance and to render a coordinated look in combination with other HP printers and equipment.

²Users must purchase a media option.

Terminals

HP 700192 and 700194 discontinuance

HP 700/92 and 700/94 blockmode terminals and their options will be removed from the November HP Price List. Users can order these products through the end of November. Delivery may be scheduled no later than six months after order placement.

In addition, low-emission models also are available in white phosphor only. These are the HP 700/96ES (P/N C1084W) and HP 700/98ES (P/N C1085W).

Product No.	Description	Replacement
C1001A/G/W	HP 700192 blockmode terminal	HP 700196. PIN C1064A/G/W
C1002A/G/W	HP 700/94 blockmode terminal	HP 700198. PIN C1065A/G/W

HP 48000 obsolescence

Effective August 1, the HP 48000 product line was discontinued. The last order date was August 31, with the latest arrival date not to exceed October 30. This confirms the previous obsolescence notice of August 1991.

Although there are no direct replacement products, alternatives may be found in the existing HP data acquisition product line. Support for the HP 48000 product line will be provided for 10 years after August 1, 1992.

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