

HP Computer Update

New traffic management software solutions tools developed for network managers.

see page 15

HP PerfRX Analysis Software provides graphical and tabular interface to histori-

cal system
performancedata
collected by
HP Performance Collection Software.

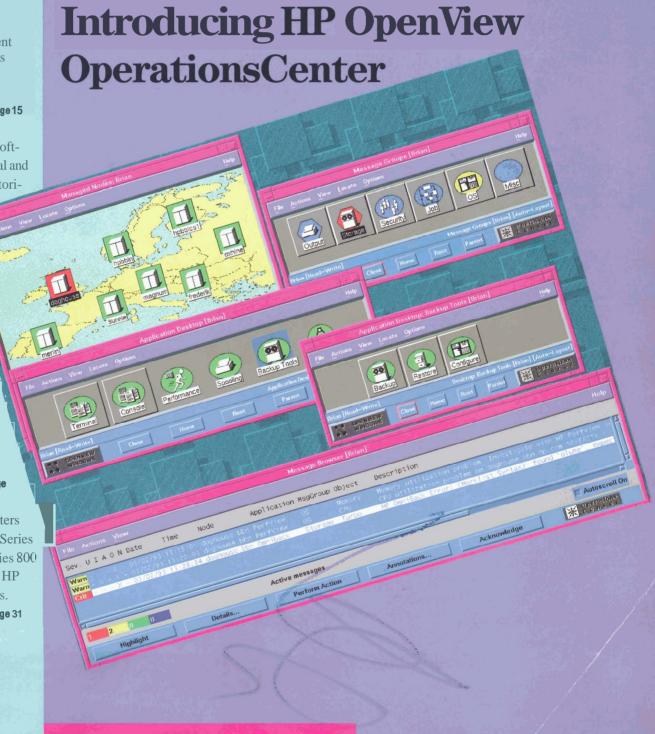
see page 23

HP-FL disk arrays are available for 900 Series 3000 systems users who require high data availability and high-capacity storage.

see page

The new HP 5000 printers were designed for 900 Series 3000 and HP 9000 Series 800 systems users who use HP systems as print servers.

see page 31



HP Computer Update

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: 800-387-3867 in Canada.

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

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Distribution Information

HP Computer Update is distributed to individuals who are involved in specifying or purchasing HP computer products and systems. It is also sent to HP worldwide value-added business partners. If you would like to receive a copy, please contact your local HP representative.

Note: Not all HP computer products are sold and supported in all countries. Please check with your local HP sales office.

Hewlett-Packard does not warrant the accuracy of the information provided in HP Computer Update and shall not be liable for any use made of the information provided herein. Information provided in HP Computer Update is subject to change without notice

On the cover...



HP OpenView OperationsCenter, a highly customizable solution for central operations and problem management of multivendor distributed systems, provides an open architecture for easy integration of other management applications, offers client/server implementation, and is a key member of the HP OpenView portfolio. See article on page 21.

HP Computer Museum www.hpmuseum.net

For research and education purposes only.

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Work smarter with training from Hewlett-Packard

M

OST LIKELY, YOUR COMPANY HAS ALREADY MADE AN INVESTMENT IN TECHNOLOGY. THAT'S ONLY THE FIRST STEP. HP EDUCATIONAL SERVICES PROVIDES YOU WITH THE EXPERTISE YOU NEED TO QUICKLY

TAKE ADVANTAGE OF THE TECHNOLOGY AND MAXIMIZE
PRODUCTIVITY. HP TRAINING IS FLEXIBLE YET COMPREHENSIVE.
WHETHER YOUR COMPANY IS OVERHAULING ITS ENTIRE
COMPUTING ENVIRONMENT OR SIMPLY UPGRADING AN OPERATING
SYSTEM, HP OFFERS A WIDE RANGE OF COURSES TO ASSIST YOU.
CLASSES AND THEIR LOCATIONS AND DATES ARE LISTED BELOW.

HP 3000 SERIES 900

MPE/iX System Operation Skills — In this four-day class, system operators will learn to perform daily operations tasks including file organization, system backup, and troubleshooting. Course number B2801S; U.S. list price \$1,240

- Atlanta, Georgia July 26-29; October 4-7
- Boston, Massachusetts September 13-16
- Chicago, Illinois June 28-July 1; October 4-7
- Dallas, Texas August 2-5; October 18-21

- Detroit, Michigan August 9-12
- Los Angeles, California July 12-15; August 23-26; October 11-14
- New York/Metro, New York July 12-15
- San Francisco, Cahfornia June 14-17; July 19-22; August 16-19; September 20-23; October 18-21
- Washington, D.C.J u n e 7-10
- Montreal, Canada (English) May 31-June 3
- Toronto, Canada June 21-24; September 13-16

MPE/iX System Administration for Application Users — In this five-day class, system administrators and operators will learn basic administration and operation functions in an application runonly environment for the HP 3000 Series 900 computer system. Course number B2802S; U.S. list price \$1,550

- Atlanta, Georgia July 26-30; October 4-8
- Boston, Massachusetts September 13-16
- Chicago, Illinois June 28-July 2; October 4-8

- Dallas, Texas August 2-6;
 October 18-22
- Detroit, Michigan August
 9-13
- Los Angeles, California July 12-16; August 23-27; October 11-15
- New York/Metro, New York July 12-16
- San Francisco, Cahfornia June 14-18; July 19-23; August 16-20; September 20-24; October 18-22
- Washington, D.C. June 7-11
- Montreal, Canada May 31-June 4
- Toronto, Canada June 21-25; September 13-17

MPE/iX System Management Skills — In this five-day class, system managers will learn features of MPE/iX. Topics include file creation, configuring node management services, and security. Course number 1119S; U.S. list price \$1,550

- Atlanta, Georgia June 14-18; August 23-27; October 18-22
- Dallas, Texas June 28-July 2; September 20-24
- Detroit, Michigan August 16-20; October 25-29
- Los Angeles, Cahfornia June 7-11; July 19-23; August 30-September 3; October 18-22
- New York/Metro, New York August 23-27
- San Francisco, Cahfornia June 21-25; July 26-30; August, 23-27; September 27-October 1; October 25-29
- Washington, D.C. June 21-25
- Montreal, Canada June 14-18
- Toronto, Canada July 19-23; October 18-22

MPE/iX Programming Skills — In this five-day class, programmers on HP 3000 Series 900 MPE/iX systems will learn fundamental concepts and commands. Course number 31118S; U.S. list price \$1,550

- Atlanta, Georgia June 7-11;
 October 4-8
- Boston, Massachusetts July 26-30
- Dallas, Texas June 21-25
- Detroit, Michigan July 12-16;
 October 18-22
- San Francisco, California July 12-16; September 20-24
- Washington, D.C. September 13-17
- Montreal, Canada September 13-17
- Toronto, Canada August 16-20

HP 9000 SERIES 300/400/700

Fundamentals of the UNIX System — In this five-day class, system administrators and software developers will receive comprehensive coverage of the UNIX system and learn fundamentals of shell programming. Course number 51434S; U.S. list price \$1,550

- Albuquerque, New Mexico October 4-8
- Atlanta, Georgia June 21-25; July 12-16; July 26-30; August 9-13; August 23-27; September 13-17; September 20-24; October 4-8; October 25-29
- Boston, Massachusetts June 7-11; July 12-16; August 2-6; August 30-September 3; October 4-8
- Chicago, Illinois June 14-18;
 July 12-16, August 9-13; September 13-17; October 4-8

- Dallas, Texas June 21-25;
 July 19-23; August 16-20;
 September 20-24; October 18-22
- Denver, Colorado July 19-23; August 30-September 3; October 11-15
- Detroit, Michigan June 28-July 2; August 2-6; September 13-17; October 11-15
- Houston, Texas August 23-27
- Los Angeles, California June 14-18; July 12-16; August 9-13; September 13-17; October 4-8; October 18-22
- New York/Metro, New York June 14-18; July 19-23; August 9-13; August 30-September 3; September 27-October 1; October 25-29
- Philadelphia, Pennsylvania September 27-October 1
- Phoenix, Arizona June 7-11;
 October 25-29
- Rochester, New York August 23-27
- San Francisco, Cahfornia June 7-11; July 12-16; August 2-6; August 23-27; September 20-24; October 11-15
- Seattle, Washington June 7-11; September 13-17
- Washmgton, D.C. June 14-18; July 12-16; August 2-6; August 23-27; September 13-17; October 4-8; October 25-29
- Montreal, Canada (English) September 20-24
- Montreal, Canada (French) July 5-9
- Ottawa, Canada June 14-18; August 16-20; October 4-8
- Toronto, Canada May 31-June 4; July 12-16; August 9-13 September 13-17; October 18-22
- Vancouver, Canada July 5-9; September 20-24

continued on next page

UNIX System Basics 1 — In this two-day class, users and system administrators will learn concepts required for the day-to-day operation of the UNIX system in a run-time only environment. Course number 51489S; U.S. list price \$620

- Atlanta, Georgia June 7-8
- Boston, Massachusetts June 7-8; August 2-3; October 4-5
- Clucago, Illinois June 28-29; August 30-31; October 25-26
- Dallas, Texas July 12-13; October 4-5
- Detroit, Michigan July 26-27;
 October 18-19
- Los Angeles, Cahfornia June 28-29; August 23-24: October 18-19
- New York/Metro, New York August 23-24; October 18-19
- San Francisco, Cahfornia— July 26-27; September 13-14
- Washington, D.C. June 14-16; August 30-31
- Montreal, Canada (English) June 7-8
- Montreal, Canada (French) September 27-28
- Toronto, Canada June 21-22; August 23-24; October 4-5

HP-UX System Administration Basics — In this three-day class, users, operators, and administrators will learn to perform the system administration tasks necessary to maintain their HP-UX system. Course number 50722S; U.S. list price \$930

- Atlanta, Georgia June 9-11;
 July 26-28; September 21-23;
 October 25-27
- Boston, Massachusetts June 9-11; August 4-6; October 6-8
- Chicago, Illinois June 30-July 2; September 1-3: October 27-29

- Dallas, Texas July 14-16: October 6-8
- Detroit, Michigan July 28-30;
 October 20-22
- Los Angeles, Cahfornia June 30-July 2; August 25-27; October 20-22
- New York/Metro, New York August 25-27; October 20-22
- San Francisco, Cahfornia July 28-30; September 15-18
- Washington, D.C. June 16-18; September 1-3
- Montreal, Canada (English) June 9-11
- Montreal, Canada (French) September 29-October 1
- Toronto, Canada June 23-25; August 25-27; October 6-8

Introduction to X Windows and HP VUE — In tlus three-day class, application programmers and users will learn to develop and run programs with the X11 Window system and HP VUE. Course number H5366S; U.S. list price \$1,090

- Atlanta, Georgia June 28-30; September 27-29
- Chicago, Illinois June 1-3;
 July 20-22; September 8-10
- Dallas, Texas August 30-September 1
- Detroit, Michigan June 15-17; September 21-23
- Los Angeles, Cahfornia August 16-18; October 25-27
- San Francisco, Cahfornia August 30-September 1
- Washington, D.C.—July 13-15
- Toronto, Canada September 8-10

SERIES 800

HP-UX System Administration for the HP 9000 Series 800 — In this five-day class, system administrators will learn the overall management of an HP-UX system

including configuration, set-up, and file management: Course number: 51482S U.S. list price \$1.795

- Atlanta, Georgia June 21-25;
 July 19-23; August 16-20;
 September 27-October 1;
 October 18-22
- Boston, Massachusetts July 19-23; September 13-17
- Chicago, Illinois June 7-11;
 July 26-30; August 23-27;
 September 27-October 1;
 October 18-22
- Dallas, Texas July 12-16;
 August 30-September 3;
 October 11-15
- Denver, Colorado October 18-22
- Detroit, Michigan June 7-11;
 July 19-23; August 30 September 3; October 11-15
- Los Angeles, Cahfornia June 21-25; July 19-23; August 16-20; September 20-24; October 25-29
- New York/Metro June 21-25;
 July 26-30; August 16-20;
 September 13-17; October 4-8
- Philadelphia, Pennsylvania June 7-11; October 25-29
- San Francisco, California June 14-18; July 19-23; August SO-September 3; September 27-October 1; October 18-22
- Seattle. Washington August 23-27
- Washington, D.C. June 21-25; July 19-23; August 9-13; September 20-24; October 11-15
- Montreal, Canada (French) August 23-27
- Ottawa, Canada June 7-11;
 October 18-22
- Toronto. Canada July 19-23; September 20-24
- Vancouver. Canada August 23-27; October 25-29

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HP 9000 SOFTWARE

C++/Object-Oriented Programming — In this five-day class, programmers wdl learn and apply object-oriented concepts and develop C++ software. One year of programming experience is a requirement. Course number B1810S; U.S. list price \$1,550

- Atlanta, Georgia August 2-6
- Boston, Massachusetts July 12-16
- Dallas, Texas July 12-16;
 August 30-September 3;
 October 11-15
- Detroit, Michigan September 20-24
- San Francisco, Cahfornia September 27-October 1
- Ottawa, Canada September 13-17
- Toronto, Canada June 14-18

ANSI C Programming — In this five-day class, software developers wdl learn programming syntax, control flow, functions, pointers, and structures and the interface to the HP-UX operating system. Course number 35130S; U.S. list price \$1,550

- Atlanta, Georgia June 14-18; September 13-17
- Boston, Massachusetts October 18-22
- Chicago, Illinois June 28-July 2
- Detroit, Michigan August 30-September 3
- Los Angeles, California July 19-23
- New York/Metro June 7-11
- San Francisco, Cahfornia August 9-13
- Washington, D.C.—August 16-20
- Toronto, Canada June 7-11: October 25-29

WER FLEET LN GSlot.
1 TOKER RING = 2 PONGENERAL NEWS-EVENTS
1 EREVER = 4/Rooks

HP ALLBASE/SQL on HP-UX and MPE/iX — In this five-day class, database administrators and programmers will learn to create and maintain databases and write application programs. Course number 36389S; U.S.list price \$1,820

- Atlanla, Georgia August 30-September 3
- Chicago, Illinois August 23-27
- Detroit, Michigan July 19-23
- San Francisco, Cahfornia— September 13-17
- Washington, D.C. July 26-30
- Toronto, Canada August 23-27

NETWORKING

HP-UX Network Administration: LAN Link. ARPA/Berkeley, NFS, NIS, and Diskless — In this five-day class, HP-UX and diskless-cluster system administrators will learn to administer systems and networks in an HP-UX environment, Course number H2550S; U.S. lisl price \$1,820

- Atlanta, Georgia August 16-20; October 18-22
- Boston, Massachusetts July 26-30; September 27-October 1
- Chicago, Illinois June 21-25;
 August 16-20; September 27-October 1; October 25-29
- Dallas. Texas July 26-30; September 13-17; October 25-29
- Detroit, Michigan August 2-6; October 4-9
- Los Angeles, Cahfornia dune 28-July 2; July 26-30; August 23-27; September 27-October 1
- New York/Metro June 14-17; July I 2-16; August 30-September 3; October 4-8

- San Francisco. Cahfornia June 21-25; July 26-30; August 16-20; September 13-17; October 4-7
- Washington, D.C.—June 28-July 2; August 23-27; October 25-29
- Montreal, Canada (French) June 13-18
- Ottawa, Canada June 7-11; September 20-24
- Toronto. Canada August 9-13
- Vancouver, Canada October 4-8

HP OpenView Network Node Manager Fundamentals for Network Managers — In this four-day class, network managers will learn to manage and configure a network using HP OpenView Network Node Manager product. Course number B3304S; U.S.list price \$1,530

- Atlanta, Georgia July 6-9; August 30-September 2
- Boston, Massachusetts September 21-24
- Chicago, Illinois June 8-11; September 20-23
- Detroit, Michigan June 22-25; August 24-27; October 12-15
- Los Angeles, Cahfornia August 2-5; October 4-7
- New York/Metro June 7-10; August 9-12
- San Francisco, Cahfornia June 14-17; August 23-26; September 20-23
- Washington, D.C. July 26-29; October 11-14
- Montreal, Canada (French) September 20-23
- Toronto, Canada July 27-30; October 19-21
- Vancouver, Canada June 8-11

For registration information, call 800-472-5277.

New HP Technical Satellite Seminar Series

For the U.S. and Canada only

HP Educational Services introduces a program for experienced system and network managers and programmers in HP MPE/iX, MPE V, and open systems environments. The HP Techrucal Satellite Seminar Series offers the benefits of training while minimizing out-of-ton11 travel costs by delivering three-hour seminars to 29 HP Education Centers and sales offices in the U.S. and Canada. The seminars provide tips and techniques to improve productivity and keep HP MPE users up to date with fast-moving teclmologies. The seminars will be delivered by HP technical experts and will use student response unit (SRU) technology to facilitate maximum interaction

The first seminar, which describes keys to effective system management, is scheduled for June 10 at 9:00 a.m. pacific standard time. Upcoming broadcasts will feature Network Management in the '90s in September 1993, Secrets of Client/Server Applications in December 1993, and Building and Using Relational Databases in March 1994.

SEMINAR LOCATIONS

Eastern U.S.

- Stamford, Connecticut
- Burlington, Massachusetts
- Baltimore, Maryland
- Rockville, Maryland
- Rochester, New York
- Paramus, New Jersey
- Valley Forge, Pennsylvania

Southeast U.S.

- Orlando, Florida
- Atlanta, Georgia
- * Raleigh, North Carolina

Midwest U.S.

- Naperville, Illinois
- Novi, Michigan
- St. Paul, Minnesota
- Cleveland, Ohio

Southwest U.S

- * Phoenix, Arizona
- Houston, Texas
- Los Colinas, Texas

Western U.S.

- Fullerton, California
- Mountain View, California
- Pleasanton, California
- Sacramento, California
- San Diego, California
- San Francisco, California
- Van Nuys, California
- Englewood, Colorado
- Portland, Oregon
- Bellevue, Washington

Canada

- Montreal, Quebec
- Toronto, Ontario

FOR MORE INFORMATION

To register, contact the Customer Registration Center at 800-472-5277 ext. 317 in the U.S. or 800-268-1221 in Canada.

ORDERING INFORMATION

Subscriptions for a series of four seminars are available. Costs can be reduced by ordering multiple subscriptions before the June 10, 1993, broadcast date. Subscribers are guaranteed satisfaction. The subscriber can contact the Customer Registration Center at 800-472-5277 (800-HP CLASS) within two business days of the first seminar if not satisfied, and the subscriber will not be charged.

Product No. Description H5809S Single subscription, four events H5809S Special multiple subscriptions before June 10 H5809S Regular multiple subscriptions after June 10 H5808S Single seminar, one event

Software engineering executive management seminar

HP's Software Engineering Systems Division will host the next software engineering management seminar which will be held June 2-3, 1993, in Cupertino, Cahfornia. The seminar is targeted at directors and vice

presidents who have software engineering responsibilities. The seminar will focus on HP software practices. HP managers will share tools and methods for achieving quality software.

By attending the seminar, you can become familiar with HP and the CASE program. Seminar attendance must be prequahfied through CASE. For registration mformation, contact your local HP representative.

INTEREX and Regional Users Groups calendar of events

The following is a listing of upcoming HP Regional Users Groups (RUGs) events and respective contacts. Some events may involve costs. Call the contact for complete details.

- May 20: FLORUG Florida Quarterly meeting, 7:00-10:00 pm, at the HP Ft. Lauderdale office. For more information, call Walter Hancock, 305-974-6300
- May 20: SNUG Meeting at the HP offices in Glastonbury, Connecticut. The topic is Developing Client/Server Applications. For information, call Dave Haberman, 617-859-5966.
- May 21: WRUG Wisconsin Spring Conference and Vendor Show. For information, call Judy Gifford, 414-248-3625.
- June 9: BWRUG Baltimore1 Washington Meeting from 6:00-9:00 pm. at the HP Rockville office. The theme is Object-Oriented Programming. For more information, call Nick Demos, 410-242-6777.

- * June !3-10: MINNRUG Minnesota Fourth Annual Conference and Vendor Show at the Thunderbird Hotel and Convention Center in Bloomington, Minnesota. The keynote speaker will be Bob Green, of Robelle. For information, call 612-649-4213.
- June 9: NTRUG Quarterly Meeting, 8:00 5:00, at the HP Las Colinas office, for MPE and HP-UX users. For information, call Dale Henderson, 214-480-9913.
- June 17-18: AZRUG Annual Conference and Vendor Show at the Tempe Mission Palms Hotel. For information, call Henry Schubel, 602-582-6055
- June 22-25: NECRUG Annual Conference and Vendor Show in Atlantic City, New Jersey, at the Bally's Grand. For information, call Scott Kauftheil, 215-265-0240.
- June 27-30: ENUG European Annual Conference in Birmingham, United Kingdom. The theme is Breaking the Barriers. For information, call 44-0-81-424-8682.

- July 13: TUG Meeting at the HP office, 6877 Goreway Drive, Mississauga, Ontario.
 For information, call Wanda Komorowski, 416-877-0161.
- July 15-16: MARUG Quarterly Meeting and Vendor Show in Roanoke, Virginia. The theme is Future Technologies. For information, call Ray Kelley, 804-740-1581.
- July 22: CRUG The topic is Integrated Workstation (MPE/ iX, DOS, and UNIX). For information, call Jerry Kopecky, 708-480-8667.
- July 22: WNYRUG Quarterly meeting. For information, call Brian Carrier, 716-891-3125.
- August 10: SACRUG Sacramento Quarterly meeting. For information, call J.C. Strote, 209-368-2993.
- August 13-14: ORERUG Oregon Annual Conference
 and Vendor Show at the Resort At The Mountains in
 Wernrne, Oregon. The theme
 is Client/Server and the HP
 Environment. For information, call Jeff Coffman,

continued on next page

503-233-8511.

- August 19: FLORUG Florida
 — Quarterly meeting at the
 HP Ft. Lauderdale Office,
 7:00-10:00 pm. For information, call Walter Hancock,
 305-974-6300.
- August 19-20: SERUG Fall Conference and Vendor Show at the Windy Hill Hilton in Atlanta, Georgia.
- September 8: BWRUG Baltimore/Washington All-day meeting in Baltimore, Maryland. The theme is
 Databases.
- September 9: MINNRUG Minnesota Quarterly meeting. The theme is Member Appreciation. The meeting will include a paddle boat ride and dinner on the St. Croix River. For information, call Linda Roatch, 612-455-3972.
- September 9: SNUG Meeting at the HI offices in Glastonbury, Connecticut. The topic is Applying Total Quality Management to MIS/Cost Justifying MIS and MIS Projects. For information, call Dave Haberman, 617-859-5966.

- September 14: TUG Fullday meeting at the HP Mississauga office, 6877 Goreway Drive, Mississauga, Ontario. For information, call Wanda Komorowski, 416-877-0161.
- September 19-23: INTEREX
 — 19th Annual HP Computer
 Users Conference at the
 Moscone Center in San Francisco, California. For
 information, call 1-800-468 3739.
- October 7: CRUG Chicago User/Vendor Day.
- October 14-15: MARUG —
 Quarterly Meeting and Vendor Show in Myrtle Beach,
 South Carolina. The theme is
 Application Software. For more information, call Ray
 Kelly, 804-740-1581.
- October 20: RWRUG Baltimore/Washington Meeting in Baltimore, Maryland, 6:00-9:00 pm. The theme is POSIX on MPE Platform.
- October 21: WNYRUG —
 Quarterly meeting. For information, call Hrian Carrier,
 716-891-3125.

- November 9: SACRUG -Sacramento — Quarterly meeting. For information, call J.C. Strote, 209-368-2993.
- November 9: TUG Meeting at the HP Mississauga office, 6877 Goreway Drive, Mississauga, Ontario. For information, call Wanda Komorowski, 416-877-0161.
- November 17: BWRUG Baltimore/Washington All-day meeting. The theme is HP-UX Utilities.
- November 18: FLORIJG Florida Quarterly meeting at HP Ft. Lauderdale office, 7:00-10:00 pm. For information, call Walter Hancock, 305-974-6300.
- November 18: MINNRUG -Minnesota — Quarlerly meeting, board nominations. For information, call Linda Roatch, 612-455-3972.
- December 7: SNUG Meeting at the HP offices in Glastonbury, Connecticut. The topic is Open Systems. For information, call Dave Haberman, 617-859-5966.

HP NEWS AND REVIEWS

HP DIRECT services

800-637-7740 — Smart people, smart products, smart call — for HP computer systems, workstations, system peripherals, and accessories

With just one phone call to HP DIRECT, you can get presales information, configuration advice based on your technical requirements, formal quotes, and detailed product literature.

Once you get the information you need, you can place your order without making a second call. And since we truly function as part of your sales team, your sales representative receives full credit and commission for every order you place.

At HP DIRECT, you get it all

• Responsive, knowledgeable service — If the customer representative who takes your call can't answer your technical questions, we'll call in an engineer who can — on the spot.

- Order management HP DIRECT is available every business day from 6 am to 5 pm (Pacific time) to take your order, provide order status, or just product pricing and availability.
- Informative catalogs Our catalogs are a comprehensive source of up-to-date information on HP products that can help you get the most out of your information technology investment
- *Discounts* We honor all applicable purchase agreements, so you get the same discounts you would from your sales office.

Call HP DIRECT and try our services today.

PROMOTIONS

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 available 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.

GENERAL

RAM Special Pricing



If you are a qualified volume purchase agreement customer, you are

eligible for a special pricing on PL5X add-on RAM. This special pricing is equivalent to a net price, after purchase agreement discount, of \$65 per megabyte of RAM (U.S. list price).

- Scope: North America
- Eligible products: Check with your HP representative for P/Ns
- Start date: February 1.5, 1993
- End date: May 31, 1993Promotion number: 2.722

HP Technical Satellite Seminar Discount



If you purchase two or more Technical Satellite Seminar subscriptions on

the same order, you are eligible for a \$55 promotional discount on each subscription.

- Scope: North America
- Eligible products: P/N H5809S
- Start date: March 15, 1993
- End date: June 30, 1993
- Promotion number: 2.723

HP Transact V to iX



If you upgrade from HP Transact V to iX, you will receive a 25% discount

on the net price of the upgrade.

- Scope: North America
- Eligible products: P/N 30138A, Opts. 310, 315, 320, 330, 335, 340,350
- Start date: December 1, 1992
- End date: May 31, 1993Promotion number: 2.699

User-Based Pricing Software

HP 3000 users at certain MPEuser license levels are eligible for a discount to match the price set prior to a recent price restructuring. There are no maximum quantities on eligible products.

- Scope: Worldwide (check with your HP representative for local availability)
- Eligible products: P/Ns 30207A/91A/92A/93A/94A/ 95A, 30319A/49A, 36375A/ 78A/87A/88A/97A/98A, 36920A/23A/39A/57A, J2167A
- Start date: February 1, 1993
- End date: July 31, 1993
- Promotion number: 2.717

HP LaserRX to HP PerfRX Migration



If you currently own HP LaserRX/UX or LaserRX/ MPE, you are eligible to

purchase HP PerfRX Analysis Software at an approximate \$1,000 promotional discount.

- Scope: Worldwide (check with your HP representative for local availability)
- Eligible products: P/Ns B1766B, 50700B, B3467AB
- Start date: May 1, 1993End date: October 31, 1993Promotion number: 2.733

HP 9000

HP Multi-Seat II (formerly HP PowerPack)

If you purchase a Multi-Seat II SSP bundle, you will receive a discount.

- Scope: United States, Canada, and Latin America
- Eligible products: P/Ns A2870A/ 71A/72A/73A
- Start date: January 1, 1993End date: June 30, 1993Promotion number: 2.706

Open for X Business

If you purchase an HP 9000 Series 800 Class F, G, H, or I business server (P/Ns A2428A/29A/30A/31A) during the promotional period, you are eligible to receive a 40% discount off the purchase of one HP 700/RX station with 10 MB RAM and Series 800 software.

- Scope: Worldwide (check with your HP representative for local availability)
- Eligible products: P/Ns A2428A/29A/30A/31A
- Start date: March 1, 1993End date: August 31, 1993Promotion number: 2.720

WORKSTATIONS

Series 400 to 700 Upgrade with Memory



If you purchase an HP Apollo 9000 Series 400 to Series 700 Model 715

50-MHz workstation system upgrade, you are eligible to receive an additional 16 MB of system RAM at no charge.

- Scope: Worldwide (check with your HP representative for local availability)
- Eligible products: P/Ns A2090A/93A, A2837A, 98229A/29E, A2202A
- Start date: May 1, 1993End date: July 31, 1993
- Promotion number: 2.734

Software Transfer Program

This program allows you to transfer from one HP workstation platform to one of three other strategic workstation platforms, and to transfer your software licenses to the new platform as well.

- Scope: Worldwide (check with your HP representative for local availability)
- Eligible products: Check with your HP representative for P/Ns.
- Start date: June 1, 1992
- End date: December 31, 1993
- Promotion number: 2.648

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 for P/Ns.
- Start date: September 1, 1992
- End date: May 31, 1993
- Promotion number: 2.672

PowerGraphics

All customers, including authorized resellers and distributors, who purchase selected HP Apollo 9000 Model 715 or 735 systems equipped with either a CRX-24Z or CRX-48Z 3D-graphics subsystem are eligible to purchase additional factory-installed RAM memory at 45-56% promotional discount.

- Scope: North America
- Eligible products: Check with your HP representative for P/Ns.
- Start date: March 1, 1993End date: August 31, 1993
- Promotion number: 2.721

Get MPowered



If you purchase the MPower multimedia client during the promo-

tional period, you are eligible for an 80% discount.

- Scope: Worldwide (check with your HP representative for local availability)
- Eligible products: P/N B1194A
- Start date: April 1, 1993
- End date: September 30, 1993
- Promotion number: 2.726

NETWORKS

DTC 16 and DTC 48



If you purchase an HP 3000 Series 9X7 system at the regular price, you

are eligible to purchase up to two DTCs at a 32.5% discount. All additional DTCs and asynchronous cards ordered above the maximum quantity are not eligible for a discount.

- Scope: Worldwide (check with your HP representative for local availability)
- Eligible products: Check with your HP representative for P/Ns.

Start date: December 1, 1992End date: May 31, 1993

• Promotion number: 2.698

PERIPHERALS

Optical Library Trade-In

If you are a current Optical Library user, you can trade in your used unit and purchase a new high-performance drive library (Models 20C, 60C, or 100C), of equivalent or greater capacity, and receive trade-in 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

HP IMAGE/SQL upgrade program

Based on user response to the INTEREXISIGIMAGE IMAGE/SQL Advocacy Vote taken from November 1992 to January 1993, HP 3000 MPE/iX users on support contracts will receive an upgrade from HP TurboIMAGE to IMAGE/SQL with an increase in monthly support prices. HP Image/SQL is the next generation of TurboIMAGE. At the user's next annual contract renewal.

HP IMAGE/SQL support will be added to the contract. HP will then send the upgrade kit. Users will receive information on the upgrade program during the month of May.

Users who require immediate use of HP IMAGE/SQL may request a fast ship copy prior to contract renewal. Fast ship requirements: support contract

renewal must be three or more months from the time of application, users must identify an urgent need for HP IMAGE/SQL functionality, the HP 3000 system must be currently on support contract and running HP MPE/iX Release 4.0 or later, and the fast ship request must be made by September 30, 1993. HP will ship during the month of October.

High-performance backup device on HP 3000

As of March 15, 1993, the HP Series 6400 Model 2000DC (data compression) is supported as a high-performance backup device on HP 3000 CIO systems. Support for Model 2000DC (P/N C1521B) is provided through Option AG9. When the option was announced January 1, 1993, support was limited to NIO systems only. Support now extends to include the following HP 3000 CIO systems with MPE/iX 4.0: Series 925,935,949,950,955.960and 980. Option AG9 is an add-on backup device only. Startup capability is not currently supported.

Option AG9 stores up to 8 GB of data on a single 90-m digital data storage (DDS) cartridge and has a backup rate of up to 2.5 GB/h. Data compression performance depends on the type of data to be compressed, but typical compression ratios in a commercial environment are four to one. Transfer rates are host and operating system dependent.

Option AG9 is preconfigured with data compression switched on. Data compression switching is not controllable; the user must be aware of the option's current limited data interchange capability. Option AG9 is not available for built-in drives in HP 3000 systems or HP Series 6000 multiuser SCSI mass storage systems.

An equivalent option for these drives is not yet available. Data compression host control within HP MPE/iX operating systems is planned for the second half of 1993. When host control is available, users will have to change the procedure to turn data compression on; the software default is data compression off.

ORDERING INFORMATION

Product No.	Description
C1521B	Model 2000DC standalone SCSI DDS DAT drive with up to 8-GB capacity
Opt AG9	Configuration for Series 925/ 935/949/950/955/960/980 user
C1520B	Model 2000 standalone SCSI DDS DAT drive with 2-GB capacity

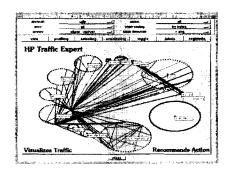
New traffic management tools recommend action

The new HP Traffic Expert, History Analyzer, and Resource Manager are EASE traffic management software solutions developed for network managers.

The power of embedded EASE in HP EtherTwist managed hubs and bridges combined with three new EASE software products enables network managers to plan for growth.

FEATURES AND BENEFITS

• HP Traffic Expert — documents the actions users need to take to maximize network availability. In multivendor environments, it continuously monitors network traffic to learn what is normal and highlights unusual behavior, which enables it to build a knowledge-based system about client/server needs. The knowledge is passed on to users in the



form of reports that suggest client/server movements or segment splitting. HP Traffic Expert requires HP OpenView Interconnect Manager/UX (P/N 27361B) or OpenView Interconnect Lite/UX (P/N J2343A).

 HP History Analyzer — keeps track of historical trends, which enables users to understand network resource use over time and charge back based on use.
 It provides the knowledge users need to plan future network capacity based on past network usage, not simulated data.

- * HPResource Manager watches the entire network and automatically guides users to problems that reduce trouble-shooting time. It provides real-time traffic analysis for multiple environments: IP, IPX, DECnet4, and AppleTalk.
- HP History Analyzer and Resource Manager can run as standalone products or integrated with HP OpenView Interconnect Manager/UX or Interconnect Lite/UX.

ORDERING INFORMATION

Product No.	Description
J2345A	HP Resource Manager
J2347A	HP History Analyzer
J2348A	HP Traffic Expert

Note P/N J2348A will be available in July 1993



COBOL/HP-UX moves to user-based pricing

In response to user demand, COBOL/HP-UX has changed from processor- to user-based licensing. Concurrent-access licenses allow as many users to use a software product with an eighthour period as there are licenses for the product. For as long as someone is using the product, a concurrent-access license is in use, and is therefore, unavailable

to other users. This type of license is especially suitable for medium- to large-size networks.

The pricing change was effective May 1, 1993. The products also moved to the new Computer Systems Organization standard structure at that time. This means there are separate product numbers for the license and

media. Purchase of a media product requires concurrent purchase of a license product. Purchase of a license product does not require concurrent purchase of a media product since users may require additional licenses without needing additional physical media.

continued on next page

The media product numbers are the same as the license product numbers except they have an AA rather than AB extension. The old product numbers were obsoleted as of May 1, 1993, as the new directly replace the old.

Product No.	Description
B2430AB	COBOL HP Apollo 9000 Series 700 Developer
B2431AB	COBOL Series 700 Compiler
B2432AB	COBOL Series 700 Run Time
B2433AB	COBOL HP 9000 Series 800 Developer
B2434AB	COBOL Series 800 Compiler
B2435AB	COBOLSeries 800 Run Time

New HP ALLBASE/4GL Version B.06 ships

The HP ALLBASE/4GL Version B.06 is a new release of the advanced application development tool set. It was developed for HP-UX 8.0 and 9.0 users.

FEATURES AND BENEFITS

- HP ALLBASE/4GL is specifically tuned for peak performance with HP ALLBASE/SQL and can improve programmer productivity. It offers low cost combined with optimized performance on HP systems.
- The new release includes high-impact, user-prioritized defect repairs. It offers proven high quality and reliability, after undergoing testing in the factory and at several external test sites.

- The interface to HP ALLBASE/SQL has been rewritten and is more efficient than the previous interface. Future releases of HP ALLBASE/4GL will be available sooner due to the improved interface.
- The new release provides clear, concise, user-tested in stallation instructions to ensure straightforward upgrades. A table is provided with the documentation to better explain which arithmetic operation will be performed. New B.06 documentation is available online and in hard copy.

ORDERING INFORMATION

HP-UX 8.0 or 9.0 users who are covered under ALLBASE/4GL support contracts will automatically receive B.06 software and documentation. Shipments began February 26,1993. HP MPE/ iX 4.0 or 4.5 users who are covered under ALLBASE/4GL support contracts may order a general release patch (P/N A4GEXZ0 for developer environments, P/N A4GEXZ1 for run time) from local HP Response Centers. Version B.06 will be automatically included with HP MPE/iX 4.7 autumn shipments to users covered under support contract.

HP-FL disk arrays price reduction

Effective May 1, 1993, prices of the 5.4- and 2.7-GB HP-FL disk arrays were reduced. The new pricing represents an 11% decrease and ensures that the disk arrays have a competitive cost/megabyte when compared to mirrored SCSI disk drives. The disk arrays, which also offer the benefits of hot-plug disk modules and high connectivity, are targeted at HP 9000 Series 800 and 900 Series HP 3000 users who require high data availability and high-capacity disk storage.

Product No.	Description
C2254HA	5.4-GB high-availability disk array
C2252HA	2.7-GI3 high-availability disk array
C2254B	5.4-GB disk array
C2252B	2.7-GB disk array
C2251A	l 3-GB disk module for <i>PIN</i> C2252/4
C2254HZ*	5.4-GB high-availability disk array
C2252HZ*	2.7-GB high-availability disk array
C2254BZ*	5.4-GR disk array
C2252BZ*	2.7-GB disk array

^{*} Disk array is integrated into P/N A1884A or A1897A cabinet Product must be ordered on the same section as P/N A1884A or A1897A

HP-UX for Series 800 XPG4 compliance

HP-UX 9.0 for HP 9000 Series 800 is now XPG4 base-profile compliant. XPG4 is Portability Guide Issue 4, the latest update of the industry-leading standard interface definition from X/OPEN. WOPEN announced XPG4 last November, and HP—continuing its commitment to open systems and standards leadership—is one of the first vendors to be XPG4 compliant. Compliance ensures continued portability for users and their solutions.

Series 800 business servers with HP-UX 9.0 preinstalled or HP-UX 9.0 media shipping are XPG4 compliant. Only slight modifications were made to HP-UX 9.0 specifically for XPG4 compliance.

New Model 425e to Model 715/50 upgrade

In response to user requests, there is now a new HP Apollo 9000 Series 400 to Series 700 upgrade — Model 425e to Model 715/50. This product addition creates an upgrade to PA-7100 for the entire Series 400 family.

The new upgrade gives Model 425e users a 5.8x performance boost, an EISA expansion slot, and improved audio for about half the price of a new Model 715/50. The upgrade is a box swap in

which the system serial number changes and users keep the monitor, internal peripherals, and memory. With the upgrade, users get a new case, power supply, processor board, HP-UX 9.01 two-user license, and HP installation. Model 425e Domain users must buy a localization lut to get the appropriate keyboard and mouse. Model 425e HP-UX users should purchase the localization kit with Option 005 to get only HP-UX 9.01 documentation.

ORDERING INFORMATICIN

Product No.	Description
A2837A	Model 425e to 715/50 upgrade
A2548A	Upgrade localization kit; HP-UX keyboard
A2549A	Upgrade localization kit, PC keyboard

Models 425e, 70.5, and 710 have built-in LAN network rig with both AUI and ThinLAN connections Model 715 including these upgrades (P/Ns A2835A and A2836A for Model 705/710) has only a Willt-in AUI. Because of this difference, users of ThinLAN (P/N A2670A) need to purchase a MAU adapter.

French HP Instant Ignition

French HP Instant Ignition (P/N B3485A) is a product that preloads and preconfigures the French version of HP-UX on HP Apollo 9000 Series 700 PA-RISC workstations. This product was developed for French-spealung workstation users across all industries.

FEATURES AND BENEFITS

Provides French HP Instant
Ignition startup messages

 makes it easier for Frenchspeaking users to get
workstations up and running

• HP VUE preconfigured in French — improves the work environment for French-speaking users, from workstation startup to application use

The product broadens the appeal of Series 700 workstations by adding HP Instant Ignition specifically for users in France, Belgium, Switzerland, Quebec (Canada), and other Frenchspeaking regions. HP Instant Ignition is now a global product f d y , with versions available in English, Japanese, German, and French.

ORDERING INFORMATION

Product No. Description

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B3485A	French HI' Instant Ignition
Opt. APH	HI'-1 IX Version 9.0
Opt. AAB	CD-ROM recovery media
Opt ATB	100-LIB swap space on first disk
Opt. ATC	200-LIB swap space on first disk
Opt. ATD	500-MB swap space on first disk
Opt. ATE	$100 ext{-}\mathrm{MB}$ swap space on second disk
Opt. ATF	$200\text{-MB}\mathrm{snap}\mathrm{space}$ on second disk
Opt. ATG	500-MB swap space on second disk

HP OpenMail price change

To maintain HP OpenMail's competitive, cost-of-ownership position in the messaging services market, the OpenMail for HP 9000, HP-UX systems mailbox price has been reduced in line with general market trends.

Product No. Description

HP OpenMail software and manuals for Knowledge Worker Solution Release 10

B3100A

HP OpenMail for HP 9000 Series 800 media and manuals

HP OpenMail single-user licenses

B2290AZ

HP OpenMail A 01 mailbox + client — M/C locked, for all platforms or P/N A2323B

B2499A

HP OpenMail single-user license, for P/N A2323A

HP OpenMail can be ordered as a standalone product or as part of HP's Cooperative Computing Systems Division (CCSY) Knowledge Worker Solution. For HP OpenMail as a standalone product, users must order HP OpenMail software (P/N B2284A, B2285A, or B2286A), documentation (P/N B2280A), and license (P/N B2290AZ).

HP OpenMail software provides electronic messaging services. The software may be copied onto any number of servers. A right to use the software is not included but is provided by the license component, which is ordered separately. When ordering the software, you must specify a media and HP-UX version option.

HP OpenMail documentation provides the manuals necessary for installation, configuration, and administration of the product.

The HP OpenMail license provides the right to configure and use one OpenMail A.O1 mailbox and one AdvanceMail, NewWave Mail, or GUI client. The license locks the mailbox to a specified machine by means of the machine's node identifier. Users should order as many licenses as there are configured mailboxes (HP OpenMail users) on the machine, and specify the appropriate unit price option.

DN and Series 400 peripherals and add-on products discontinuance

The DN Series peripherals and add-on products will be discontinued on June 1, 1993. Since the last DN 450015500 systems were discontinued on December 1, 1992, DN users should place final orders now. For Domain and HP-UX Motorola 68k users, Series 400 is still available and is not planned for discontinuance until June 1, 1994. Series 400 running Domain is a replacement solution for most DN users.

The following disk and 3D products will also be discontinued on June 1, 1993.

Product No.	Description
A1442A	330-MH disk kit for Series 400
98705A	PVRX P2
98705B	PVRX P3
98706A	PVRX P2 to P3 upgrade
98707A	SRX to PVRX P2 upgrade
98708A	SRX to PVRX P3 upgrade
98735A	TVRX T1
98736A	TVRX T2
98736B	TVRX T3
98737A	TVRX T1 to T2 upgrade
98738A	TVRX T2 to T3 upgrade
98739A	TIRX T1 to T3 upgrade
98744A	SRX to TVRX T1 upgrade
98748A	Turbo SRX to TVRX T2 upgrade

Note There ware no replacements for these products

HP Vectra PC accessories discontinuance

The following accessones for discontinued HP Vectra PCs will be removed from the HP Price List.

Product No.	Description
D1640A	1 MB memory for HP Vectra RS/25C PC
D1642A	d MB memory for HP Vectra RS/25C PC
D1678A	Flexible disk expander for HP Vectra RS/25C PC
D1685A	440-MI? hard disk drive lor HP Vectra 486/33T PC

Product No	Description
D1686A	670-MB hard dish drive for HP Vectrs 486/33T PC
D1687A	1000-MB hard disk drive for HP Vectra 486/33T PC
D2150A	1 MB memory for HP Vectra 486s/20 PC
D2153A	Flexible disk cable
D2162A	HP Vectra 487SX/20 PC coprocessor
D2382A	Super VGA controller
D2383B	256-KB DRAM upgrade kit for Super VGA controller

The following products were removed from the May HP Price List: P/N D1640A, D1678A, D1687A. Orders will be accepted through May 31,1993.

The following products will be removed from the July HP Price List: D1642A, D1685A, D1686A, D2150A, D2153A, D2162A, D2382A, D2383B. Limited quantities are available; orders will be taken while supplies last or until July 30, 1993.

HP OpenView OperationsCenter

H

P OPENVIEW OPERATIONSCENTER IS A HIGHLY
CUSTOMIZABLE SOLUTION FOR CENTRAL OPERATIONS
AND PROBLEM MANAGEMENT OF MULTIVENDOR
DISTRIBUTED SYSTEMS. IT PROVIDES AN OPEN

ARCHITECTURE FOR EASY INTEGRATION OF OTHER MANAGEMENT APPLICATIONS, OFFERS CLIENT/SERVER IMPLEMENTATION, AND IS A KEY MEMBER OF THE HP OPENVIEW PORTFOLIO.

HP OpenView OperationsCenter was developed for users who have distributed (client/server), multivendor computing environments and want to manage systems centrally or are looking for ways to improve management productivity and system availability. HP OpenView OperationsCenter offers a new way of managing multivendor distributed systems.

FEATURES AND BENEFITS

- Sophisticated message management Intelligent agents collect management mformation from different sources such as system and application logfiles, consoles, and simple network management protocol (SNMP) traps for forwarding to the central management system.
- Filtering, grouping, and priority setting capabilities —
 Management by exception allows users to focus on key management information and tasks.

 Message filtering by agents re-

- duces network traffic. Relevant information is consolidated at the central location, converted to a consistent format, and handled in a consistent manner removing the need for system specialists.
- Threshold monitoring Services collect values of any system or application variable that users want to monitor. Comparing the values against predefined threshold values gives early warning of potential problems and the chance to perform corrective actions resulting in improved availability of the computing resources. HP Operations Center monitors its own processes to guarantee complete, continuous availability of services.
- Problem management When HP OpenView OperationsCenter detects a critical event, it can trigger a predefined corrective action without involving users, offening a major step toward self-managing systems. If attention is required, users will be notified and pro-

- vided with event-specific instructions to aclueve faster problem resolution. Actions taken to address a specific event are tracked and recorded, which allows continuous enhancements that include improved instruction and automation.
- Central control All management activities are initiated from a single window including opening a console on a remote system, which permits unattended lightsout operation at remote sites. A broadcast facility simplifies the execution of the same task on multiple systems. Consolidation of different management activities reduces the cost of operations, ensures consistency, and provides the same level of management expertise for all systems in the management domain.
- Customization Broad customization and configuration capabilities enable HP OpenView OperationsCenterto adapt to the

continued on next page

specific requirements of virtually any information technology organization. Workspace Manager permits creation of individual user workspaces delivering only user relevant management information and gives access to management tasks according to company policy. Each user has a task-oriented worlang environment with an associated password to assure secure operations.

 Multivendor and extensible management — HP OpenView OperationsCenter can manage HP 3000 Series 900, HP Apollo 9000 Series 400 and 700, HP 9000 Series 800, IBM RS6000, and Sun Microsystems SPARC computer systems. It is an open solution offering powerful extension capabilities that enable quick, easy integration of other management applications to provide common, consistent, and uniform worlang environments for management activities.

ORDERING INFORMATION

Product No. Description

	-
B1960AA*	HP OpenView Operations- Center license to use for management system
B1961AA	HP OpenView Operations Center license to use for managed node
B1967AA	HP OpenView Operations- Center media and documentation for Series 700 management system

Product No.	Description
B1968AA	HP OpenView Operations- Center media and documentation for Series 800 management system

* Management system requires HP OpenView SNMP platform software with INGRES relational database management system.

Options for managed user (ASCII terminals, X-terminals, PCs, and workstations using services on managed nodes), return credits for managed users, and accessories are available for these products. Check with your HP representative for more information. Products will be listed on the May HP Price List.

HP OpenView Software Distributor

HP OpenView Software Distributor is a tool set that performs distributed software installation, update, and removal across a network. It was developed for users with distributed (client/server) computing environments who want to reduce the costs or improve the productivity of administrators who perform software distribution.

FEATURES AND BENEFITS

• HP OpenView Software Distributor gives central management organizations an industry-standard capability for single-point software distribution that reduces costs, improves service levels, and remains flexible to support unique software distribution policies. With HP OpenView Software Distributor, administrators can push software to

distributed systems, and systems users can pull software from networked or local software depots.

- Application and data integrity

 Automation of software
 distribution from a central management location quickly gives end users the most recent application revisions and accurate data at a lower cost.
- Industry standard HP
 OpenView Software
 Distributor's predecessor was
 selected as the electronic
 software distribution facility
 for OSF/DME. HP has built
 upon the capability to provide
 a solution for this critical
 area.
- Flexibility HP OpenView Software Distributor is designed to fit into a user's

distributed environment and will conform to unique software distribution policies.

ORDERING INFORMA'I'ION

Product No.	Description
J2326AA	HP OpenView Software Distributor license
Opt. UAU	Single-controller license to use
Opt. UDE	Single-agent license to use, HP-UX
J2325AA	Media for HP Apollo 9000 Series 700 and HP 9000 Series 800
Opt. M H	DDS tape for HP-UX 9.0
Opt. AA0	1/4-inch tape for HP-UX 9.0
Opt. AA1	1/2-inch tape for HP-UX 9.0
Opt. AAF	CD-ROM for HP-UX 9.0
Opt. M 4	$\ensuremath{\mathrm{QIC}}$ cartridge tape for HP-UX 9.0
J2327AA	Users' guide

Products will appear on the June HP Price List.

New HP GlancePlus/UX performance software pricing

Effective May 1, 1993, HP has made HP GlancePlus/UX (P/N B1807A) a key HP-UX system management product, available in site licenses of 10, 25, and 50 nodes. This provides price reductions of up to 73% off the single-node price. The new prices apply only to HP Apollo 9000 Series 700 workstations and are effective May 1, 1993.

Product No.	Description
B1807A	HP GlancePlus/UX for Series 700
Opt UDE	Single-node license
Opt UDG	10-node license
Opr. UDH	25-[lode license
Opt. UDJ	50-node license

For users migrating from Domain, these performance products may be discounted a further 33% using the HP Software Transfer Program (promotion number 2.648). This discount does not require previously owned product licenses for any product on Domain.

Discounts apply only to users whose Series 700 systems are predominantly used as desktop workstations. Discounts do not apply to server-only or server-dominated configurations.

As node-based license options for HP GlancePlus Pak, the combination of GlancePlus and Performance Collection Software, are not yet available.

New HP PerfRX analysis software

The new HP PerfRX Analysis Software is an interactive performance analysis software tool for managing system resource utilization. It provides a graphical and tabular interface to historical system performance data collected by HP Performance Collection Software.



FEATURES AND BENEFITS

Flexible graphing options

 provide line, stacked, and pie graphs of system- and application-level activity for easy identification of current or potential system performance problems

- Hierarchical user interface

 guides users from the system-level perspective down to the application and process level for more detailed information
- Customizable graphs allow users to define and create graphs
- Export feature allows data to be exported to a flat ASCII or spreadsheet format file
- Printing feature allows users to print graphs and tables for easy documentation of system activity information

HP PerfRX provides an interface to system performance data collected by HP Performance Collection Software, which is available through the HP GlaricePlus Pak bundle or as a separate product for HP-UX. HP PerfRX will read data collected from HP-UX and MPE systems. As an integral member of HP's performance management software solution set, HP PerfRX provides the long-term analysis functionality, HP GlancePlus provides the online diagnostics functionality, and HP PerfView is the umbrella application that provides the online performance problem notification and characterization within the distributed system environment.

MIGRATION PROMOTION

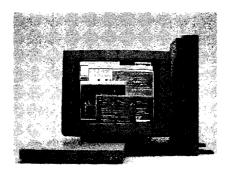
A six-month, worldwide promotion beginning May 1, 1993, allows users who own HP LaserRX/UX Analysis Software (P/N B1766B) or LaserRX/MPE (P/N 50700B) to receive a credit toward the purchase of HP PerfRX Analysis Software.

New HP OpenView Probe Manager/LanProbe II capabilities

HP OpenView Probe Manager 2.0 and HP LanProbe II/simple network management protocol (SNMP) network monitor Revision A.O1 now offer revisions that enhance RMOM support for managing Ethernet networks.

FEATURES AND BENEFITS

HP OpenView Probe Manager software running on HP OpenView platforms with distributed HP LanProbe II/SNMP network monitors provides multivendor network management for Ethernets. HP OpenView Probe Manager uses the new SNMP RMON MIB, the standard for remote network monitoring, to collect data from HP LanProbe II/SNMP.



New capabilities include automatic tracking of internet protocol (IP) addresses and detection of duplication.
User-configurable alarms and out-of-band communications between HP LanProbe II and OpenView Probe Manager increase monitoring system flexibility.

ORDERING INFORMATION

Software update service subscribers will receive new HP LanProbe II upgrade firmware, which can be downloaded to each LanProbe II over LAN or via serial link. Subscribers will also receive new HP Probe Manager upgrade software. Nonsubscribers can purchase the upgrades.

Product No.	Description
18404A	HP LanProbe II/SNMP network monitor Revision A.01 firmware upgrade
4998A	HI' OpenView Probe Manager 2 0 software upgrade

HP OpenView Distributed Network Advisor integrates network management and test

HP OpenView distributed network advisor (P/N Z3051A) has been enhanced to include an expert systems-based troubleshooting tool and virtual remote software application running on the HP OpenView platform

FEATURES AND BENEFITS

HP OpenView distributed network advisor allows integration of network management and test from a single workstation. It enables network managers to control multiple network advisors for hi-depth troubleshooting.

Users can run other HP OpenView applications simultaneously which provides an easy way to view and correlate information for problem resolution. The HP network advisor supports Ethernet, Token Ring, FDDI, and WAN.

The product provides the vehicle to integrate network management and test. The application integrates a portable LAN troubleshooting tool onto the HP OpenView platform providing powerful network analysis and management from a single workstation.

ORDERING INFORMATION

The product is currently offered only as a special and is not on the HP Price List.

Product No.	Description	
Z3051A	HP OpenView distributed network advisor. manager software for workstations	
J2176.4	386 network advisor main- frame	
J2219A	486 network advisor main frame	
P/N J2176A/J2291A options		
Opt. 502	Ethernet 10Base-T, application/communications software and Ethernet adapter	
Opt. 503	Ethernet 10Base-2, application/communications software and Ethernet adapter	

HP NetWare and LAN Manager upgrade pricing policy

In the next year, HP anticipates major enhancement releases of HP PC-LAN offerings, such as HP LAN Manager(LM)/X 2.1 and NetWare 4.0 for HP-UX platforms.

These major revisions provide significant enhancements from the previous release. Users with current support contracts will continue to receive maintenance revisions under the support contract terms. A maintenance revision such as HP LM/X 1.2 to 1.3 and NetWare 3.01b to 3.11 can provide support for operating system versions, defect repairs, and minor enhancements. Current HP LM/X and NetWare/9000 users will need to purchase the revisions.

The revisions have significant functionality enhancements and new part numbers: A user who

has purchased P/Ns B1011A/B/C, B1003A/B/C, J2240A, J2239A, or J2243A will be entitled to an upgrade credit toward the purchase of the major revisions. Users who maintain current support contracts and choose not to purchase upgrades to HP LM/X 2.1 and NetWare 4.0 can remain on LM/X 1.4 and NetWare 3.11 and HP will fulfill its support obligation for five years after discontinuance.

HP STREAMS/UX for HP's UNIX sewers and workstations

STREAMS/UX is available on HP 9000 Series 800 business servers, HP Apollo 9000 Series 700/400, and HP 9000 Series 300 workstations running HP-UX 9.0. STREAMSLJX is required to run HP-UX 9.0 versions of some key networking products, including OSI Transport Services (OTS), NetWare for the HP 9000 (Portable NetWare, NetWare for UNIX® systems), and all SNAplus

products.

STREAMS is an industry-standard environment for software development and deployment. The STREAMS environment is being added to HP-UX to enhance the UNIX system product offering and support HP networking products. The STREAMS framework is an extension of the operating system kernel, which enables STREAMS-based code to become part of the kernel.

The STREAMS framework supports the development of modular, reusable, portable code. For networking protocols, STREAMS can help provide

network protocol and media independence. The standard networking-related interfaces within STREAMS allow module layering; complex services can be built up from simpler building blocks.

HP PRODUCTS REQUIRING STREAMS/UX

Beginning with HP-UX 9.0, these products require purchase and installation of STREAMSLJX code. Only one copy of STREAMS/UX is required per system.

Product No.	Description
J2220A	HP SNAplusLink for Serirs 800
J2226A	HPSNAplusLink for Series 700
J2221A	HP SNAplus3270 for Series 800
J2227A	HP SNAplus3270 for Series 700
J2233A	HP SNAplus3270 for HP 9000 Series 300/HP Apollo 9000 Series 400
J2223A	HP SNAplusAPI for Series 800
J2229A	HP SNAplusAPI for Series 700

J2235A	HP SNAplusAPI for Series 300/400
J2222A	HP SNAplusRJE for Series 800
J2228A	HP SNAplusRJE for Series 700
J2234A	HP SNAplusRJE for Series 3001400
J2224A	HP SNAplus3179G for Series 800
J2230A	HF SNAplus3179G for Series 700
J2236A	HP SNAplus3179G for Series 300/400
32070A	HP OTS/9000 for Series 800
J2160A	HP OTS/9000 for Series 700
32069A	HP OTS/9000 for Series 300/ 400
J2240A	HP NetWare for the HP 9000 for Series 800
J2239A	HP NetWare for the HP 9000 for Series 700
	continued on next page

Product No.

Description

HP-UX 8.0X versions of these products included an earlier, bundled version of the STREAMS code. Users who purchased these networking products on HP-LJX 8.0X and purchased support will receive the separate STREAMSAJX product as part of the HP-UX 9.0 upgrade for their networlung product.

ORDERING INFORMATION

Product No.	Description
J2237A	HP STREAMS/UX for Series
Opt. AA0	114-inch cartridge tape and documentation
Opt. AAl	1/2-inch magnetic tape, 1,600 bpi and documentation
Opt AA4	QIC cartridge tape and documentation
J2232A	HP STREAMS/UX for Series 700
J2231A	HP STREAMS/UX for Series 300/400
Opt. AA0	1/4-inch cartridge tape and documentation
Additional P/N J2237A/J2232A/J2231A options	
Opt. AAH	DDS cartridge and documentation
Opt. AAU	CD-ROM certificate and documentation

HP STREAMSAJX products require HP-UX 9.0 or higher and are available on the HP Price List.

HP OpenView OmniBack enhanced backup and recovery

HP OmniBack, HP OmniBack/ Turbo, and HP OmniBack/Link (P/N B1922A/23A/26AA) are enhancements to the comprehensive backup and recovery solutions for networked and standalone enviroruments.

To improve ease of operation and to reduce administration costs, enhancements are available with IIP OmniBack A.03.00. HP OmniBack, part of HP OpenView OmniBack family, is the backup and recovery solution needed in current networked environments. It provides centrally controlled backup and restore within a heterogeneous environment.

FEATURES AND BENEFITS

- OSF/Motif-based graphical user interface for backup and restore that enhances operator or administrator productivity
- Data compression to increase media capacity while reducing network traffic and achieve backup performance improvements
- Overwrite protection to prevent accidentally overwriting existing backup media, with protection level that is configurable, for examplr, to allow the reuse of media after a specified time

- HP OpenView integration via OmniBack/Link for direct access to multiple OmniBack environments from OpenView management station through graphical OmniBack symbols or menubar tasks, and for automatic reporting of problems and errors to OpenView management station
- These enhancements apply to the network component of HP OmniBack/Turbo. HP OmniBack/Turbo complements the OpenView OmniBack family by providing, in addition to OmniBack functionality, a high-speed component for backup and recovery of up to 20 GB/h on local data.
- HP OmniBack is supported on HP-UX 8.0X or 9.0 HP 9000 Series 800/300 and HP Apollo 9000 Series 400/700, Domain SR 10.3.5 or 10.4 workstations, and Sun Microsystems SunOS 4.1.1 or 4.1.2 SPARCstations (backup clients only)

ORDERING INFORMATION

HP OmniBack A.03.00 began shipping May 3,1993. The product structure of HP OmniBack and OmniBack/Turbo will not be changed. Orders with a shipment date of May 3 or later will automatically receive version A.03.00. For detailed ordering instructions, product numbers, product options, and pricing, contact your HP representative.

HP OmniBack/Link and OpenSpool/Link provide integration into OpenView

HP OmniBack/Link (P/Ns B1926AA/27AA) and HP OpenSpool/Link (P/Ns B1912AA/13AA) now offers integration that provides a solution to centrally manage backup or print management domains from HP OpenView management station, improves operator productivity through single-point handling, and offers sitewide access to HP OmniBack or HP OpenSpool application.

FEATURES AND BENEFITS

• Operators or administrators can work in a uniform user environment accessing HP OmniBack or OpenSpool through OpenView management station. Problems or errors are automatically reported to HP OpenView management station and via a color change of the respective OmniBack or OpenSpool symbol on the OpenView map. Details can be retrieved using HP OpenView message browser.

- Direct access to the HP
 OmniBack or OpenSpool application is provided through graphical application symbols and menubar tasks on the OpenView map. HP
 OmniBack or OpenSpool management stations can be easily located on the OpenView map.
- HP OmniBack and HP OpenSpool are supported on HP 9000 Series 800, HP-UX 8.0X and 9.0. HP Apollo 9000 Series 700, and HP-UX 8.0X and 9.0. HP OpenView requires OmniBack or OmniBack/Turbo A.03.00 or later (management station on HP-UX only), or OpenSpool A.04.00 or later, and one of the OpenView management software products that include OpenView Network Node Manager 3.1 or later, OpenView OperationsCenter 1.0 or later, OpenView SNMP Platform 3.1 or later, or OpenView DM Platform 3.1 or later.

ORDERING INFORMATION

Product No. Description

HP OmniBack/Link

B1926AA License to use

B1927AA Media and documentation

HP OpenSpool/Link

B1912AA License to use

B1913AA Media and documentation

P/N B1926AA/B1912AA options

Opt AAH DAT

Opt AAU CD

HP-FL disk arrays for 900 Series HP 3000

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HE HP-FL DISK ARRAYS ARE 8.0- AND 4.0-GB DISK ARRAYS

FOR 900 SERIES HP 3000 USERS WHO REQUIRE HIGH DATA

AVAILABILITY AND HIGH-CAPACITY DISK STORAGE.

Effective May 1, 1993, these new disk arrays are available only for 900 Series HP 3000 systems.



FEATURES AND BENEFITS

• High availability — The arrays extend high-data availability disk arrays to new capacity points, providing 40 GB in one 19-inch 1.6 meter cabinet. The arrays use the new high-capacity 2.0-GB, 5%-inch disk mechanisms. which have a 300.000-hour MTBF and provide increased performance and lower price/ megabyte (at least a 20% improvement). As with the current HP-FL disk arrays (5.4- and 2.7-GB), the array controller supports RAID 3, which offers data protection through the use of a parity disk.

- High connectivity The new 8.0-GB disk arrays offer a 47% increase in connectivity over the current 5.4-GB disk arrays. Since each array appears to the host as a single device, up to 64 GB can be configured to each HP-FL interface. For Series 990/992, up to 768-GB of protected storage can he configured.
- Price/performance The pricing of the new arrays provides a 20% lower cost/ megabyte than the May 1 reduced pricing of the current HP-FL disk arrays.
- HP-FL interface The HP-FL interface supports cable lengths up to 500 m. HP-FL requires approximately 20% less CPU resources than SCSI in the execution of disk I/O.

ORDERING INFORMATION

Product No	Description
C2259HA	80-GB high-availability disk array
С2258НА	4.0-GB high-availability disk array
C2259B	8.0-GB disk array
C2258B	4.0-GB disk array

Pr <u>oduct N</u> o.	Description
C2257A	2.0-GB disk module for P/N C2258/9
C2259HZ*	8.0-GB high-availability disk array
C2258HZ*	4.0-GB high-availability disk array
C2259BZ*	8.0-GB ilisk array
C2258BZ*	4.0-GB disk array
C3300A	Hl' MPE/iX 4.0 patch for P/N C2258/9

* Disk array is integrated in P/N A1884A cabinet. Product must be ordered on the same section as A1884A.

The disk arrays arc supported on 900 Series systems running HP MPE/iX 4.0 with a patch. The patch will be included in the HP MPE/iX 3.0 PowerPatch in mid-May. For users who do not use HP PowerPatch, the disk array patch may be obtained by ordering P/N C3300A. The disk arrays are not currently supported as LDev1.

The HP-FL system interface (P/N 28616A or 27115A) must be ordered separately. The 19-inch EIA cabinet (P/Ns C2786A, C2785A, or A1884A) must be ordered separately. The disk arrays require 6 EISA units of rack space.

Additions to HP Series 6000 SCSI mass storage systems

The HP Series 6000 SCSI mass storage systems are now available in 1- and 2-GB SCSI disk drives in mass storage rackmountable and minitower enclosures

These additions were developed for HP Apollo 9000 Series 700, HP 9000 Series 800, and 900 Series HP 3000 computer users who need external mass storage.

FEATURES AND BENEFITS

Product packaging options are now available. Users who do not need 2 GB of additional external storage have the 1-GB capacity point option. Performance-oriented users may want to split data between spindles using 1-GB disks rather than 2-GB disks.

ORDERING INFORMATION

Product No.	Description
С3022Т	1-GB disk in minitower cabinet
C3022R	1-GB disk in rackmount cabinet

Users should order Option 001 for the HP Apollo Series 700 systems and Option 002 for the Series 800 and 900 Series HP 3000 systems. The following options are for a single language manual: Option ABA English, Option ABD German. and Option ABF French.

Refurbished HP Series 6000 1.34 FL disk storage systems at lower price

For the U.S. and Canada only

Refurbished HP Series 6000 1.34 FL disk storage systems (P/N C2204AR) are available from HP's Finance and Remarketing Division at a new low price. Targeted for midrange and high-end PA-RISC multiuser systems. the Series 6000 offers configuration flexibility and a performance growth path for medium to large systems. Availability of this system is limited.

ORDERING INFORMATION

Product No.	Description
C2204AR	Remarketed 1.34-GB disk storage system ni1h HP-FL interface, .8-m PBus cable

Note: This disk must be the first on an FL channel

HP optical disk media prices reduced

Effective April 1, 1993, HP optical disk media prices were reduced by approximately 20%. The new pricing applies to single disk, bulk pack, and master carton quantities.

Product No.	Description
92279A	Rewritable optical disk, 612 KB/sector
92279M	Bulk pack of 8 P/N 92279A disks
92279Z	Master carton of 32 P/N 92279A disks
92280A	Rewritable optical disk. 1,024 KB/sector
92280M	Bulk pack of 8 P/N 92280A disks
92280Z	Master carton of 32 P/N 92280A disks
92289A	Write-once optical disk, 512 KB/sector
92289M	Bulk pack of 8 P/N 92289A disks
92290A	Write-once optical disk, 1,024 KB/sector
92290M	Bulk pack of 8 P/N 92290A disks

HP-FL disk arrays price reduction

Effective May 1, 1993, prices of the 5.4- and 2.7-GEHP-FL disk arrays were reduced. The new pricing represents an 11% decrease and ensures that the disk arrays have a competitive cost/megabyte when compared to mirrored SCSI disk drives. The disk arrays, which also offer the benefits of hot-plug disk modules and high connectivity, arc targeted at HP 9000 Series 800 and 900 Series HP 3000 users who require high data availability and high-capacity disk storage.

Product No	Description
C2254HA	5.4-GB high-availability disk array
C2252HA	2.7-GB high-availability clisk array
C2254B	5.4-GB disk array
C2252B	2.7-GB disk array
C2251A	1.3-GB disk module for P/N C2252/4
C2254HZ*	5.4-GB lugh-availability disk array
C2252HZ*	2.7-GB high-availability disk array
C2254BZ*	5.4-GB disk array
C2252BZ*	2.7-GB disk array

^{*} Disk array is integrated into P/N A1884A or A1897A cabinet Product must be ordered on the same section as P/N A1884A or A1897A

HP-IB disk discontinuance

Effective May 31, 1993, HP will discontinue the following HP-IB disk products. The products are used on 900 Series HP 3000 and HP 9000 Series 300/800.

Product No.	Description
C2200A	Model 335H 335-MB HP-IB mass storage system
C2202A	Model 670XP 670-MB HP-IB CACHE mass storage system
C2203A	Model 670H 670-MB HP-IB mass storage system
C2281A*	335-MB HP-IB expansion disk for SPU
C2282A*	670-MB HP-IH expansion disk for SPU
* These pro	oducts which are used inter-

^{*} These products, which are used internally in Model 822/832 and Series 922/ 932 SPUs, will be discontinued July 31, 1993.

Last orders must be placed prior to discontinuance date.
Product support life is five years

HP-FL disk discontinuance

HP will discontinue the following HP-FL disk products on May 31, 1993. Final orders must be placed in May.

The replacements for the discontinued HP-FL product line are P/Ns C2252B/54B or C2252HA/54HA. Product support life is five years.

Product No.	Description
C2201A	Model 670FL 670-MB HP-FL mass storage system
C2204A	Model 1.34FL 1,340-MB HP-FL mass storage system
C2206A	HP-FL controller upgrade

SCSI disk discontinuance

HP will discontinue the majority of its older SCSI disk product line on October 1,1993. With support now offered for new disks, the older products offer limited benefits to users. The new disks offer better performance and cost/MB.

The older products will still be available in the 1.3-GB size, but smaller capacity points will be discontinued. For CD-ROM and DAT products, the substitute products are the same mechanism under a new product numbering format.

Product support life is five years.

Product No.	Description	Product No.	Description
C2216T	670-MB workstation SCSI disk	C2473S	670-MB SCSI expansion disk
C2473T	670-MB workstation SCSI disk expansion kit	C2472F/R	422-MB multiuser SCSI disk
C2297A/T	2-GB workstation DAT		expansion kit
	expansion kit	C2473F/R	670-MB multiuser SCSI disk expansion kit
C2298A/T	Up to 8-GB workstation DAT	00.4547745	•
	expansion kit	C2476F/R	600-MB multiuser CD-ROM expansion kit
C2293A/T	600-MU CD-ROM for worksta-	C2477F/R	2-GB multiuser DAT expansion
	tion expansion kit	0341117IX	kit
C2460F/R	422-MB multiuser SCSI disk	C2478F/R	Up to 8-GB multiuser DAT
C2461F/R	670-MB multinser SCSI disk	OZ4TOP/R	expansion kit
C2470S	234-MB SCSI expansion disk	C2295B	
	for SPU cabinet	Ont OD1	Englowy integration of 1.9 CB
C2471S	328-MB SCSI expansion disk	Opt. OD1	Factory integration of 1.3-GB upgrade kit
	for SPU cabinet	C2474T/F/R	
C2472S	422-MB SCSI expansion disk		
	for SPU cabinet	Opt, 0D1	Factory integration of 1.3-GB upgrade kit

PERIPHERALS -- PRINTERS

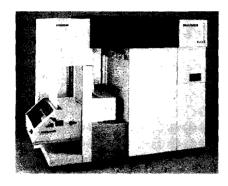
New HP 5000 printers for HP 3000 and 9000 systems

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HE NEW HP 5000 MODEL F100/TURBO, F135, F100XP, AND F135XP PRINTERS ARE PRODUCTION-CAPACI PAGE PRINT-ERS FOR HIGH-QUALITY PRINTING IN THE RANGE OF APPROXIMATELY 200,000-1,000,000PAGES PER MONTH. THESE NEW

PRINTERS ARE DESIGNED FOR 900 SERIES HP 3000 AND HP 9000 SERIES 800 SYSTEMS USERS AND MULTIVENDOR SYSTEMS USERS WHO USE HP SYSTEMS AS PRINT SERVERS.

continued on next page



FEATURES AND BENEFITS

- Extended print speeds of up to 210 ppm with Model F135XP offers increased print-on-demand throughput for high-volume billing, invoicing, financial statements, and user mailirgs.
- New 17-inch print line in Model F100XP and F135XP—allows two-up printing to yield a 54% increase in ppm throughput and 30% reduction in per-page usage fees.

- New Turbo HP PCL control-Ler — maintains rated speed for complex HP PCL4 print formatting.
- New field upgrades offer investment protection by allowing users to install one model and later upgrade functionality within the same unit.

ORDERING INFORMATION

Product No.	Description
Printers	
C2753A*	Model F100; 100 ppm, 60 Hz
$C2754A^*$	Model F100; 100 ppm, 60 Hz
C2753B	Model F100/Turbo; 100 ppm. turbo controller, 60 Hz
C2754B	Model F100/Turbo; 100 ppm, turbo controller, 50 Hz
C2776A	Model F135; 135 ppm, turbo controller , 60 Hz
C2777A	hlodel F135; 135 ppm, turbo controller, 50 Hz

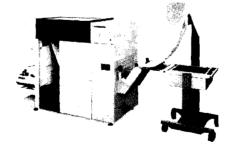
Product No.	Description
C2772A	hlodel F100XP; 100/154 ppm turbo controller, 60 Hz
C2773A	Model F100XP; 1001161 ppm, turbo controller, wide print, 60 Hz
C2755B	Model F135XP; 135/210 ppm, turbo controller, wide print, 60 Hz
C2756B	Model F135XP; 135/210 ppm, turbo controller, wide print, 50 Hz
Upgrades	
C2768A	135-ppm speed upgrade; 60 Hz
C2769A	135-ppm speed upgrade; 50 Hz
C2774A	17-inch wide print upgrade
C2779A	F100 turbo controller upgrade
* These pri available.	nters are not new, but are still

New memory and paper handling accessories for HP 5000 printers

New memory and paper handling accessories for HP 5000 printers are now available. These new accessories include graphics memory expansion, external paper inputs, splicing station, center cutter, and decurler.

FEATURES AND BENEFITS

- Graphics memory expansion extends the capacity for stored fonts and electronic forms; up to three 16-MB expansion modules per printer
- External paper inputs increases the reliability and usability of bulk paper feeding equipment; available in center- and floor-feed positions for layout flexibility



- Splicing station provides a low-cost method of feeding and splicing paper from a pallet; requires a center-feed external paper input
- Center cutter provides a basic two-up page separation method for XP model HP 5000 printers

• Decurler — removes paper curl for sensitive postprint paper-handling equipment

ORDERING INFORMATION

Product No.	Description
C2758A	16-MB graphics memory expansion
C2775A	Floor-feed external paper input
C2760A	Center-feed external paper input
C2761A	Splicing station
C2762A	Center cutter
C2770A	Decurler

New HP JetDirect EX External Network Interfaces

The new HP JetDirect EX Network Interface for Ethernet/802.3 10Base-T/10Base2 and the HP JetDirect EX Network Interface for Token Ring/802.5 (P/N J2382A and P/N J2383A) are interfaces that provide NetWare connectivity for HP printers and plotters that are not equipped with modular I/O (MIO) or extended I/O (XIO) expansion slots. These new interfaces were developed for printer and plotter users who want networking capabilities.

FEATURES AND BENEFITS

- Novell NetWare 286 (Advanced NetWare, SFT NetWare Version 2.15c or later) and 386 (Version 3.11) support
- Support for 8 file servers and 32 queues
- Ethernet/IEEE 802.3 support with 10Base-T/10Base2 transceivers on board
- 4/16 Mb/s Token Ring/IEEE 802.5

- HP Bi-Tronics (bidirectional parallel) support
- Power supply with AC passthrough capability for most HP peripherals
- Simple network management protocol (SNMP) support via onboard agent and management information base (MIB)
- HP JetAdmin network administrator and HP JetPrint Novell client Microsoft® Windows-based utilities offer installation ease, printer control, and remote administration capability
- Onboard single in-line memory module (SIMM) socket allows users to upgrade as their network operating system evolves

These new products expand the HP JetDirect interface product line to the low end and provide location flexibility, high performance, and network management for HP parallel/ Centronics-based printers and plotters.

The HP JetDirect EX power supply provides AC power pass-through capability for most HP peripherals. Some HP peripherals that have permanently attached power cords or their own external power supplies require a standard IEC 320 power cord (P/N 8120-1378) in the U.S. and Canada, which must be purchased separately.

A standard 25- to 36-pin parallel/ Centronics printer cable must be purchased separately. Various lengths are available from HP

ORDERING INFORMATION

Product No.	Description
J2382A	HP JetDirect EX External Network Interface for Ethernet/802.3 10Base-T/ 10Base2
J2383A	HP JetDirect EX External Network Interface for Token Ring/802.5

Microsoft* is a U.S. registered trademark of Microsoft Corporation.

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HP JetDirect ards support multiple network protocols

The HP JetDirect cards for Ethernet and Token Ring we multiple-protocol network adapter cards that allow HP network-ready printers and plotters to attach directly to most PC, Apple Macintosh, and UNIX system-based networks.



These network adapter cards are designed for small-to-large Ethernet or Token Ring networks that require a flexible, high-performance means to connect HP network-ready printers anywhere on a LAN across multiple network platforms.

Effective April 5, 1993, HP announced three new HP JetDirect cards to add to its line of network interfaces for HP printers anti plotters: two for Ethernet/802.3 networks (one with a 10Base-T port, and one with both 10Base-T and 10Base2 ports), and one for Token Ring networks. All three cards are designed for use in HI printers equipped with modular I/O (MIO) accessory slots. HP also introduced two software kits to be purchased along with HP JetDirect cards that will be installed in supported UNIX system Ethernet environments.

FEATURES AND BENEFITS

 Direct network connection allows HP printers and plotters to be located anywhere on the network

- High-performance network connection provides maximum data throughput to support full engine speed
- Onboard SIMM socket makes products user upgradable
- Support for network protocols for Ethernet/IEEE 802.3: SPX/IPX, DLC/LLC, TCP/IP, EtherTalk
- Support for network operating systems for Ethernet/
 IEEE 802.3: Novell NetWare;
 Microsoft LAN Manager, Windows for Workgroups, and
 Windows NT; IBM LAN
 Server; HP-TJX; SunOS;
 Solaris; SCO UNIX; Apple
 EtherTalk
- Support for network protocols for Token Ring/IEEE 802.5: SPX/IPX, DLC/LLC
- Support for network operating systems for Token Ring/ IEEE 802.5: Novell NetWare; Microsoft LAN Manager, Windows for Workgroups, and Windows NT. IBM LAN Server
- Simple network management protocol (SNMP) support
- Software utilities for Novell NetWare networks HP JetAdmin, which allows net work administrators to remotely configure. monitor, and manage all printers connected with an HP Jc Direct interface; IIP JetPrint, which offers end users simple network printer selection, automatic installation of Windows drivers, and remote printer and job status

• When installed in the accessory slot of an HP LaserJet 4Si or 4Si MX printer, the new HP JetDirect cards automatically switch among supported network protocols and network operating systems, so a single printer can receive print jobs from multiple networks running different network operaling systems. The new cards are also supported with HP LaserJet 4 and IIISi printers, PaintJet XL300 printers, and DesignJet 600 and 650C plotters. When the cards are installed in any of these peripherals, a single selectable network protocol/network operating system is supported.

ORDERING INFORMATION

Product No.	Description
J2371A	HP JetDirect Card for Ethernet/10Base-T, RJ-45 port
J2372A	HP JetDirect Card for Ethernet/10Base-T and 10Base2 (thin Ethernet), RJ-45 and BNC ports
J2373A	HP JetDirect Card for Token Ring, DB9 port
J2374A	FIT JetDirect Network Interface Software for HP-UX systems: includes CD-ROM, ½-inch cartridge tape, DAT tape
J2375A	HI' JetDirect Network Interface Software for Sun UNIX systems, includes CD- ROM, 1/4-inch QIC24 cartridge tape

One software kit (P/N J2374A/ J2375A) must be purchased with either P/N J2371A or J2372A if the card is to be installed into an HP-UX or SunOS/Solaris network. A single kit rnay be used to load software onto multihost systems and support multiple HP JetDirect cards.

New HP JetDirect upgrades

The HP JetDirect product offering has been simplified and enhanced with new capabilities. To continue to protect existing user investments in HP JetDirect products, upgrade kits provide enhancements to the installed base. The following upgrade products will be available on the HP Price List. The upgrade products will be purchase-agreement discountable.

HP JetDirect upgrade product, avadable May 1, provides new printer and configuration management utilities, support for Microsoft Windows for Workgroups and Windows NT. NetWare 4.0, and multiple-protocol capability to HP JetDirect Ethernet users who have HP LaserJet IllSi and 4 printers, PaintJet XL300 color printers, and DesignJet 600 plotters. With the multiple-protocol capability. only one network protocol is avadable at a time. The ability Lo support other networks is built in so users can move to new network operating systems without buying new cards. The upgrade includes a SIMM. software, manuals, and upgrade addendum.

HP JetDirect Novell NetWare upgrade products, which will be available in the third quarter of 1993, will provide support for Novell NetWare 4.0 and new printer and configuration management utilities to HP JetDirect Novell NetWare users. The upgrades will include EPROM, software, installation addendum, and HP JetDirect software addendum.

The HP JetDirect LAN Manager upgrade product provides support for Windows for Workgroups and Windows NT on both Ethernet and Token Ring networks to HP JetDirect LAN Manager users who have HP LaserJet IIISi printers, PaintJet XL300 color printers, and DesignJet 600 plotters. Support for additional printers on IBM LAN Server networks is provided. The upgrade product includes software and an addendum. Support for Microsoft LanManager 2.2 and IBM LAN Server 3.0 is planned for the third quarter of 1993.

ORDERING INFORMATION

Product No.	Description
J2378A*	HP JetDirect upgrade lor P/N J2337A/38A/39A/40A
	rt IIISi and PaintJet XL300 nd DesignJet plotter
J2362B	HP JetDirect Novell NetWare upgrade kit/Ethernet for P/N C2059A
J2363B	HP JetDirect Novell NetWare upgrade kit/Token Ring for P/N C2059C
HP LaserJe	et II, IID, III ^{and} IIID printers
J2364B	HP JetDirect Novell NetWare upgrade kit/Ethernet for P/Ns C2071A/71B
J2365B	HP JetDirect Novell NetWare upgrade kit/Token Ring for P/N C2071E
J2379A	HP JetDirect LAN Manager upgrade kit for P/Ns C2059B/ 59D and P/Ns C2071C/71D/71F

^{*} UNIX users must specify one software product, P/N J2374A for HP-UX or J2375Afor Sun/OS/Solaris. Software for SCO UNIX is available from the Santa Cruz Operation, Inc

HP JetDirect cards for LaserJet II, IID, III, IIID printers price reduction

Effective April 1, 1993, users are able to purchase HP JetDirect cards at 20-50% below previous prices. This price reduction positions HP JetDirect cards ahead of the competition in terms of price and product features for network interface cards, which enhances the overall connectivity solution for HP peripherals.

ORDERING INFORMATION

Product No.	Description
C2071A	HP JetDirect card for NetWare/Ethernet/10Base2
C2071B	HP JetDirect card for NetWare/Ethernet/10Base-T
C2071E	HP JetDirect card for NetWare/Token Ring
C2071C	HP JetDirect card for LAN Manager/Ethernet/10Base2
C2071D	HP JetDirect card for LAN Manager/Ethernet/10Base-T
C2071F	HP JetDirect card for LAN Manager/Token Ring
C2071T	HP JetDirect card for UNIX systems/Ethernet/10Base2
C2071S	HP JetDirect card for UNIX systems/Ethernet/10Base T

HP JetDirect card discontinuance

Effective April 1, 1993, current HP JetDirect Ethernet cards for Novell NetWare, Microsoft LanManager, IBM LAN Server. EtherTalk, and UNIX systems, and HP JetDirect Token Ring cards for Novell NetWare artd LAN Manager were discontinued. The products have been replaced by new multiple-protocol HP JetDirect cards. The new HP JetDirect products were simplified to support current network operating systems within one product for each networking topology. Orders after April 1 must be for the new HP JetDirect cards (P/N J2371A for Ethernet 10Base-T only, P/N J2372A for Ethernet 10Base-Tanti 10Base2, or P/N J2373A for Token Ring). Users of current HP JetDirect Ethernet cards can upgrade to the rtew multiple-protocol capability by purchasing the HP JetDirect upgrade product (P/N J2378A). This upgrade kit was available as of May 1, 1993. Due to hardware differences, older HP JetDirect cards (P/Ns C2059A/ 59B/59C/59D/59E/59T and P/Ns C2071A/71B/71C/71D/71E/71F/ 71S/71T) cannot be upgraded to support the new multiple-protocol capabilities.

The ordering structure of the HP JetDirect cards for UNIX systems that support HP LaserJet II, IID, III, and IIID printers has been changed to simplify the ordering of the UNIX media. Effective May 1, 1993, the current software media options on HP JetDirect for UNIX cards (P/Ns C2071S and C2071T) has been discontinued. For new purchases, users will be required to order one of the new HP JetDirect UNIX software products.

ORDERING INFORMATION

Product No.	Description
J2337A	HP JetDirect for Novell/ Ethernet
C2059C	HP JetDirect for Novell/Token Ring
J2338A	HP JetDirect for LAN Manager/ Ethernet
C2059D	HP JetDirect for LAN Manager/ Token Ring
J2339A	HP JetDirect for EtherTalk/ Ethernet
J2340A*	HP JetDirect for UNIX systems/Ethernet
C2071T	HP JetDirect for UNIX systems/10Base2
Opt. I	Software for HP-UX, ½-inch cartridge tape
Opt. AAH	Software for HP-UX, DAT tape
Opt AAV	Software lor SunOS. ¹ / ₄ -inch cartridge tape
Opt. 1AK	No media N/A
C2071S	HP JetDirect for UNIX systems/10Base-T
Opt. AA0	Software lor HP-UX, ¼-inch cartridge tape
Opt AAH	Software for HP-I X, DXT tape
Opt. AAV	Software for SunOS, ½-inch cartridge tape
Opt. 1AK	No media
* 171777	

^{*} UNIX users must specify one software product, P/N J2374A for HP-UX or J2375A for Sun/OS/Solaris. Software for SCO UNIX is available from the Santa Cruz Operation, Inc.

Discontinued printer availability

HP will be accepting orders for the following discontinued products through October 29, 1993: HP ThinkJet (P/N 2225A), HP QuietJet (P/N 2227A), and HP RuggedWriter (P/Ns 2235A and 2934A) printers and their accessories. HP cannot guarantee availability of order for May - October 199.3 that were placed after April 16, 1993. Orders will be filled on a first-come, first-served basis while supplies last.

HP 700/RX named SunWorld best products 1992

Two HP X station models were named best products 1992 in February SunWorld. HP 700/RX Models 19Ca and 19Ga received scores of 9.2 out of 10. The article describes Model 19Ca as a color X-terminal that offers HP trademark setup and configuration menus, great performance, and a large, attractive screen. The Model 19Ga is referred to as the best in its class.

The reviews were done at the SunWorld Advanced Systems
Test Center, which has one of the most rigorous testing strategies in the industry.

New HP 700/RX Model 17Cs color X station features 1Finch Sony monitor

The new HP 700/RX Model 17Cs (P/N C3228A) is a 17-inch, high-resolution X station with Sony Trinitron monitor. It was designed for users of technical and commercial applications such as CAD/CAM, color imaging, financial analysis/ trading, and desktop publishing.

FEATURES AND BENEFITS

The new X station model features a 17-inch, 1,280 x 1,024, 72-Hz, flicker-free, color Sony Trinitron monitor. Model 17Cs comes standard with 4 MB of user memory. It offer; 93,000 X stones of X window performance.

Description	Performace (X stones)	Resolution
Model 17Cs	93,000	1,280 x 1,024
Model 17Ca	93,000	1,024 x 768
Model 17Ci	52,000	$1,024 \times 768$

ORDERING INFORMATION

Product No.	Description
C3228A	Model 17Cs X station with 17-inch, 1,280 x 1,024,72-Hz. flicker-free color monitor; X Window processor base unit; PS/2 keyboard,PS/2 thee-button mouse; 2 MB VRAM 4 MB DRAM, power cords; and manual; 93,000 X stones
Opt. 1A2	Delete keyboard
Opt AN7	Delete 2-MB SIMM

HP ranks first in color X-terminal market

HP has been ranked as the number-one worldwide supplier of color X-terminals for the third consecutive year. International Data Corporation (IDC) and X Business Group (XBG) ranked HP as the number-one vendor based on worldwide shipments of color X-terminals. HP saw the fastest revenue growth among X-terminal vendors and is ranked as the revenue leader worldwide.

Steve Auditore, XBG president, attributes HP's success to its aggressive workstation and X station bundling program. He states that, "HP's X-terminal bundling program is a model that other vendors should emulate."

HP X stations are a solution for sharing the power of network computing while allowing lower overall cost-per- seat. HP RISC X stations coupled with HP Apollo 9000 Series 700 workstations and HP 9000 Series 800 business systems/servers continue to be solid systems offermgs.



Remanufactured HP 700/RX X-terminals

For the U.S. and Canada only

Remanufactured HP 700/RX X-terminals are now available from HP's Finance and Remarketing Division (FRD) at discounted prices. Users should place orders now as quantities are limited.

Product No.	Description
C2710A	HP 700/RX 16-inch X station with high-performance color
C2711A	monitor HP 700/RX 19-inch X station with high-performance color monitor
	rkstation prices are net; no greement discounts arc

SUPPORT

Personal HP System Support

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B

Y INVESTING IN HP COMPUTER SYSTEMS,
WORKSTATIONS, AND PERIPHERALS, YOU'VE
DEMONSTRATED YOUR COMMITMENT TO RELIABILITY,
PERFORMANCE, AND VALUE. NOW TO HELP PROTECT

YOUR INVESTMENT AND ACHIEVE MAXIMUM SYSTEM PERFORMANCE THROUGH SMOOTH, UNINTERRUPTED SYSTEM OPERATIONS, HP OFFERS PERSONALIZED HP SYSTEM SUPPORT SERVICE.

Combining hardware, software, and network services, this all-inone support solution enables you to deliver the improved performance you need to increase the productivity of those who depend on your systems. Personalized system support provides a costeffective, comprehensive support solution, blending proactive preventative maintenance with industry-leading technical assis-

tance, which is personalized to meet your business requirements.

MAXIMIZE YOUR PRODUCTIVITY

To maximize the effectiveness of both your people and systems, personalized HP System Support service provides a dedicated team to work as your organization's advocate. Your team — including an HP Re-

sponse Center engineer and a system support engineer — provides valuable assistance in resource management as well as direct access to HP's world-class service organization and dedicated support technology. Through this proactive partnership with HP, you are assured that appropriate HP resources are available as you need them.

The personal relationship developed between you and the HP support team helps you increase system availability and the productivity of your internal support staff.

Your HP team coordmates all hardware, software, and network maintenance services, utilizing its in-depth understanding of your business goals and computing environment to prevent problems from occurring, and quickly resolving those that arise. Saving you time and money, this enables you to turn your focus from managing your systems back to managing your business.

SMOOTH SYSTEM OPERATIONS

This comprehensive support solution enables you to keep your systems running smoothly by avoiding hardware, software, and network problems. On a regular basis, your support team provides necessary parts, labor, and materials to maintain your hardware products in good operating condition. For those unavoidable times when your system does go down, help is only a call away. Personalized HP System Support service provides you with unlimited access to HP's worldwide network of experienced professionals in the HP Response Center who can provide you with timely, accurate answers to your critical support questions. This service also provides escalation management for resolving difficult problems, software license updates, complete documentation, and electronic support.

And personalized HP System Support service also simplifies support management by offering a customized support solution with the added convenience of a single support contact. Now, one support solution gives you comprehensive support coverage that evolves as your information system needs change while dramatically simplifying support administration. Through your proactive partnership with HP, you will improve your productivity and that of your systems.

For more information about how personalized HP System Support service can cost-effectively address your support needs, contact your local HP representative today.

HP Personalized System Support pricing change

Effective April 1, 1993, the product structure of the HP Personalized System Support (PSS) product (P/N H5682A) that is cold unfront with the gyant

that is sold upfront with the system sale was changed to provide more flexibility in pricing the service. The old HP PSS upfront product had one price regardless of the system. The current product structure has multiple price points based on the number of

Product No.	Description
H5682A	PSS upfront base product
Opt. 0Tl	Low-end systems (1-32 users)
Opt. 0T2	Midrange systems (33-128 users)
Opt. 0T3	High-end systems (128+ users)

Users who want to purchase HP PSS upfront with the system sale must purchase it in conjunction with system support Options OS2, 0S3, and OS6, which combine hardware support and telephone assistance.

HP Computer Update

May/June

To order HP snftware or hardware products, call your HP representative.

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: 800-7.52-0900 in the U.S., or 800-387-3867 in Canada.

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