HEWLETT PACKARD

Performance designed for your application needs

HP 9000 computing systems

HP Computer Museum
www.hpmuseum.net

For research and education purposes only.

Outperform the competition by making the right choices

You build the continued success of your business on the computing systems you select today. A competitive choice will deliver the most computing for your dollar, ensure reliability and allow for future growth.

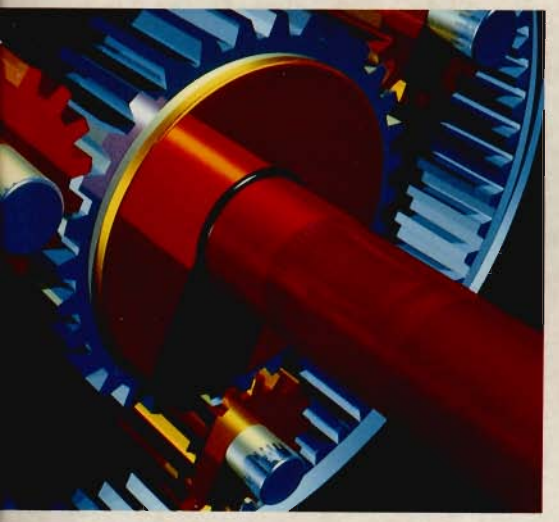
HP understands the challenges you face. That's why the broad, compatible family of HP 9000 workstations and computing systems is so extensive. At this critical step, you have access to a rich array of choices from PCs and entry-level workstations through superworkstations, servers and multiuser systems. Configured for your specific use, these systems can handle elementary or complex design and analysis, manufacturing automation and instrument control.

You'll further benefit from HP's strong foundation in standards. HP's long- standing commitment to industry standards enables you to maintain the value of current computing investments, yet easily add compatible computing resources in the future. Demonstrating this commitment, the entire HP 9000 family and its HP-UX operating system are compliant with X/Open™ standards.

In addition, HP's industry-leading multivendor connectivity allows you to share resources by providing a variety of networking solutions and connections to systems from other manufacturers.

High-performance HP Vectra PCs

HP Vectra PCs offer premium PC performance – up to 6 MIPS within the MS-DOS® environment, as well as with the SCO XENIX® and OS/2® operating systems. The HP Vectra ES/12 PC provides a superior, 12 MHz Intel 80286 system at an attractive price. The HP Vectra RS/20C and RS/25C PCs provide exceptional Intel 80386 power with memory caching, and are ideal for engineering and scientific applications. HP also offers outstanding high-resolution monitors and graphics cards such as the Intelligent Graphics Controller (IGC) for the HP Vectra PCs.



HP 9000 Series 300 – a broad choice of performance

Based on powerful Motorola 68030 processors and floating point coprocessors, the compatible HP 9000 Series 300 workstations allow you to select the system that best fits your application. With high reliability and with one of the lowest costs of ownership in the industry, these affordable systems offer a versatile choice of capabilities and performance.

The HP Series 300 Model 340 workstations are your entry into 32-bit workstations with the HP-UX operating system (based on the popular UNIX® operating system), offering 4 MIPS performance. The Model 340 provides a choice of six graphics subsystems, plus affordability and power tailored to applications ranging from software development and graphical analysis to 3D solid modeling and surface rendering.

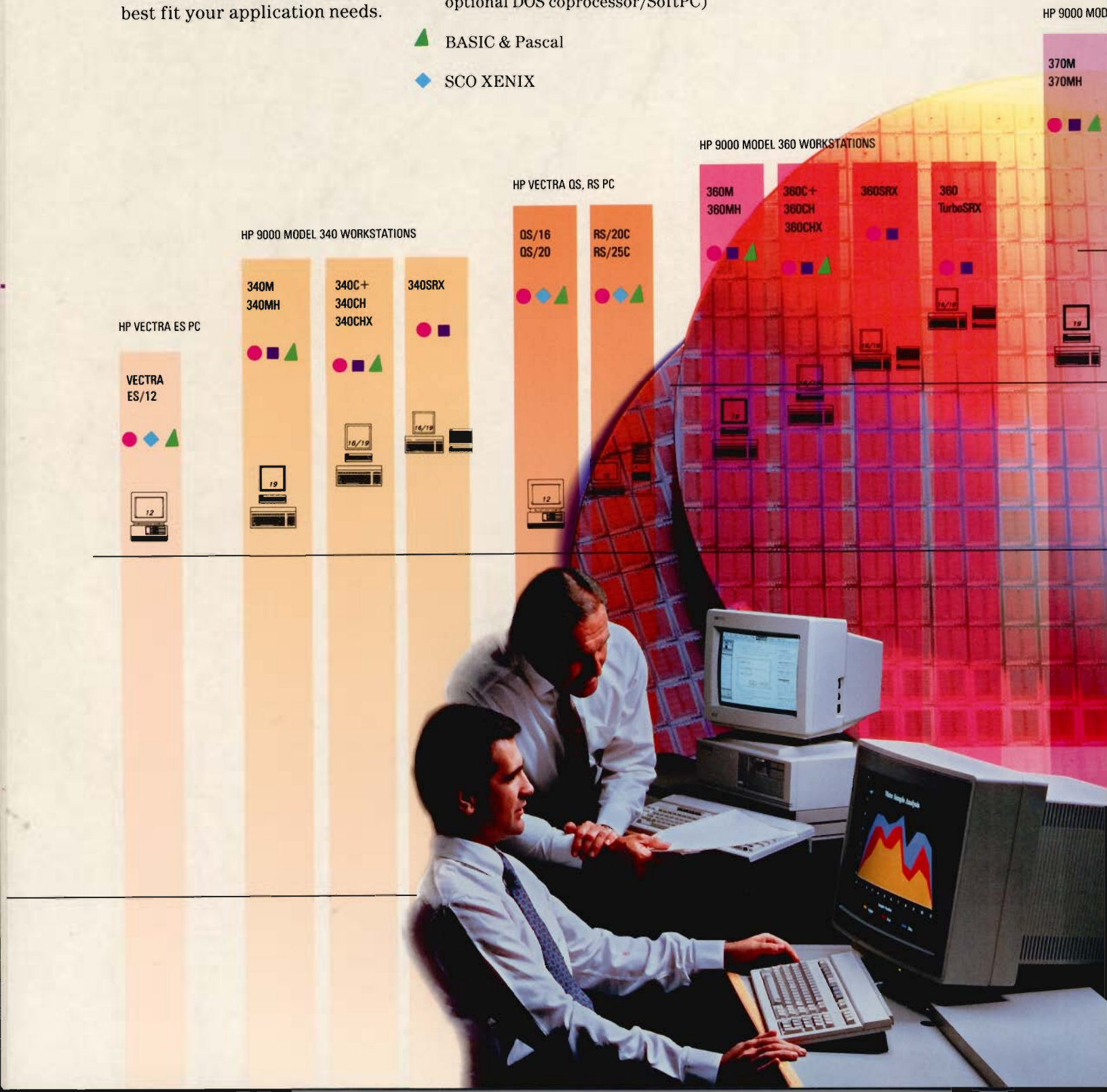
Systems based on the Series 300 Model 360 provide 6 MIPS performance with an MC68030 processor operating at 25 MHz. At the high end of the Series 300, the Model 370 provides 8 MIPS performance, featuring the MC68030 processor operating at 33 MHz. The Model 370 delivers complex 2D or 3D graphics with speed. Both of these configurable work-stations offer performance choices to suit a variety of applications. They also provide greater possibilities for system expansion, I/O, high-resolution displays, and optional accelerators for faster computation and graphics performance.

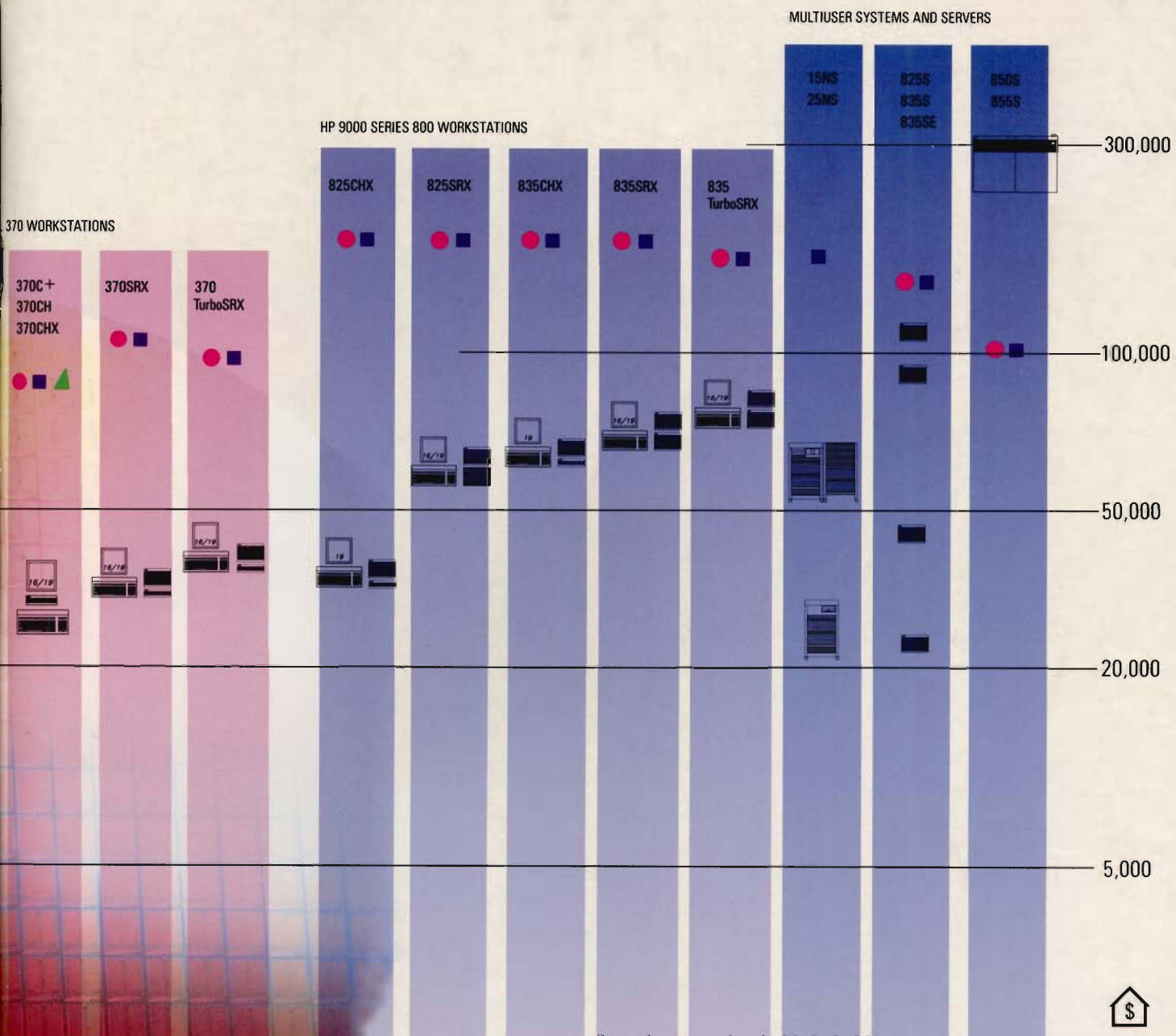
Your options in price and performance

The HP 9000 and HP Vectra families offer you a wide range of choices in price and performance. Select the systems that best fit your application needs.

Languages and operating systems

- ■ HP-UX (with FORTRAN, C, Pascal, Ada, Common LISP, HP-PROLOG & assembly language)
- ● MS-DOS (Series 300/800 require optional DOS coprocessor/SoftPC)
- ▲ BASIC & Pascal
- ◆ SCO XENIX





Screen images produced with the SAS® System of software, SAS Institute Inc., Cary, NC.

SAS is the registered trademark of SAS Institute, Inc.

Chart reflects relative workstation CPU performance and relative multiuser CPU throughput.

PERFORMANCE

All systems include keyboard. The HP Vectra RS also includes a monitor.

HP 9000 Series 800 – dramatic RISC workstation performance

Based on HP Precision Architecture, the compatible HP 9000 Series 800 workstations deliver superior 8 to 14 MIPS and .65 to 2 MFlops performance for interactive graphics and a full spectrum of scientific and engineering

applications. Several models are available – from the Model 825 CHX for 2D applications, to the Model 835 TurboSRX for maximum graphics interactivity while displaying photorealistic images.

Series 800 models are virtually source-code compatible with the HP Series 300 workstations, and are object-code compatible with other Series 800 systems.

HP graphics – power you can see

The addition of HP's 2D and 3D graphics subsystems to the HP 9000 Series 300 and 800 computers enables powerful workstation CPUs to take on full, high-performance graphics functionality. With the unique approach of incorporating advanced graphics features in hardware, HP's SRX and TurboSRX 3D graphics systems provide unsurpassed speed, interactivity, and photorealism.

HP's C+ , CH and CHX graphics subsystems provide value, power and enhanced color graphics for 2D applications. In addition, HP offers EGA, VGA, and now the even higher-resolution IGC graphics subsystems to bring HP's leading graphics capabilities to the HP Vectra PC and other PC AT-compatible computers.

Share a wealth of computing power

You'll find impressive value in the HP Series 800 Models 825S, 835S, and 835SE servers. Systems can be economically selected, whether for small teams of lab engineers or large workgroups of up to 78 users. The HP Models 850S and 855S servers provide the high I/O throughput and computational performance demanded of systems serving up to 400 connections.

HP's low-cost network servers, optimized to increase the productivity of design automation workgroups, include the HP Series 300 Models 15NS and 25NS. To help you implement workgroup computing, you can combine one of these network servers with four of HP's 2D and 3D graphics systems to create an ME-CAD Workgroup Cluster. The purchase of this cluster entitles you to a substantial purchase discount.

Meeting the needs of many markets

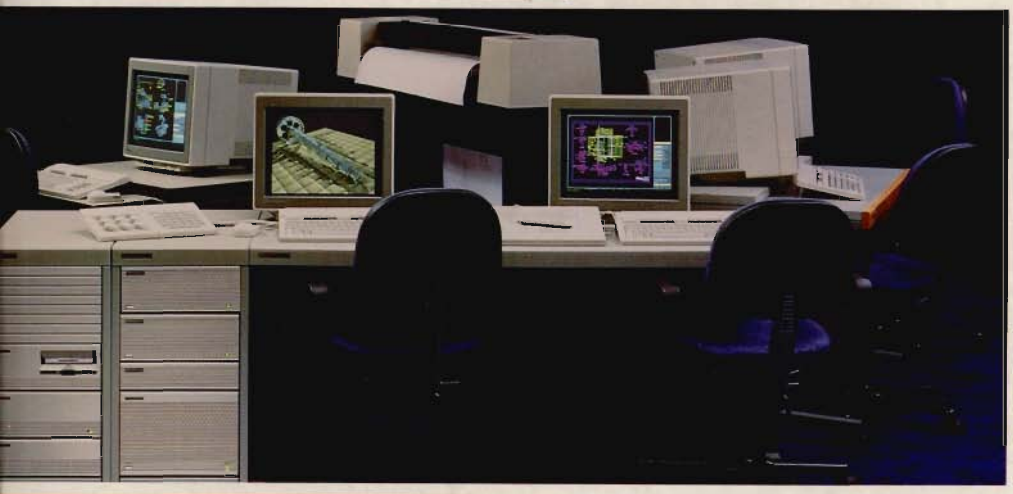
HP's workstations and controllers for industrial automation and automated test and measurement offer you a broad choice of performance, configuration and price. These systems can help you shorten the design and implementation cycle and improve manufacturing quality and productivity.

HP 9000 Series 300 controllers offer you the widest choice of operating systems in the industry with MS-DOS, BASIC and HP-UX solutions. From the entry-level Model 332 (also available in a rack-mountable version) to the highest-performance Model 370, these controllers allow you to choose the computational performance, operating system, languages and configuration that work best for your application.

Foundations

Over 2500 applications run on the HP 9000 systems. MS-DOS applications run on the HP Vectra PC or HP Series 300 with the optional DOS coprocessor, and on the HP Series 300 or 800 with HP's SoftPC® synthetic hardware product*.

Among the applications available on HP 9000 systems are those for:



Aerospace & Aeronautical Engineering
AI Program Development
Architectural, Structural Engineering & Construction
Computer Integrated Manufacturing
Chemical Engineering
Data Base Management
Data Communications & Networking
Earth Resources & Civil Engineering
Electrical Engineering
Factory Automation
Graphics
Imaging
Industrial Automation
Languages & Compilers
Math & Statistics
Mechanical Engineering
Medicine
Scientific Computation
Software Engineering
Technical Office Automation

Using HP's SoftPC® synthetic hardware product, users can communicate and share data between systems running both HP-UX and MS-DOS applications concurrently. This software only emulator provides PC XT compatibility for workstation and multiuser terminal systems, and opens the door to over 60,000 MS-DOS applications.

HEWLETT PACKARD

Advanced multivendor compatibility

By embracing popular industry standards, systems from Hewlett-Packard allow integration of your hardware, software, and peripherals – regardless of manufacturer.

Ada
ARPA/BSD
BASIC
C
CGI
CGM
Cobol HP-UX
Common Lisp
CORE
DecNet Gateway
EDIF
EISA
5080 Emulation
FORTRAN
GKS
HYPERChannel
IEEE-488 (HP-IB)
IEEE 802.3/Ethernet
IGES
LNS
MAP
MS-DOS
Network Services
NFS
NLS
OSF (Open Software Foundation)
OSI
OS/2
Pascal
PHIGS
POSIX
Prolog
RJE
RS-232
RS-423
SCSI
SCO XENIX
SNA
SQL
TCP/IP
Tek 4125 Emulation
3278 Emulation
VT100 Emulation
VMEbus
X Window System Version 11
X.25
X/Open

For more information, call your local HP sales office listed in your telephone directory or an HP regional office listed below for the location of your nearest sales office.

United States:
Hewlett-Packard Company
4 Choke Cherry Road
Rockville, MD 20850
(301) 670-4300

Hewlett-Packard Company
5201 Tollview Drive
Rolling Meadows, IL 60008
(312) 255-9800

Hewlett-Packard Company
5161 Lankershim Blvd. No.
Hollywood, CA 91601
(818) 505-5600

Hewlett-Packard Company
2015 South Park Place
Atlanta, GA 30339
(404) 955-1500

Canada:
Hewlett-Packard Ltd.
6877 Goreway Drive
Mississauga, Ontario L4V1M8
(416) 678-9430

Japan:
Yokogawa-Hewlett-Packard Ltd.
29-21, Takaido-Higashi 3-chome
Suginami-ku, Tokyo 168
(03) 331-6111

Latin America:
Hewlett-Packard
Latin American Region Headquarters
Monte Pelvoux Nbr 111
Lomas De Chapultepec
11000 Mexico, D.F. Mexico
(905) 596-79-33

Australia/New Zealand:
Hewlett-Packard Australia Ltd.
31-41 Joseph Street
Blackburn, Victoria 3130
Melbourne, Australia
(03) 895-2895

Far East:
Hewlett-Packard Asia Ltd.
22/F Bond Centre
West Tower
89 Queensway
Central, Hong Kong
(5) 8487777

Germany:
Hewlett-Packard GmbH
Vertriebzentrale Deutschland
Hewlett-Packard-Strasse
Postfach 1641
6380 Bad Homburg v.d.H.
Federal Republic of Germany
06172/400-0

France:
Hewlett-Packard France
Parc d'activite du Bois Briard
2, avenue du Lac
91040 EVRY Cedex
01/60 77 83 83

United Kingdom:
Hewlett-Packard Ltd.
Customer Information Centre
King Street Lane
Winnersh
Wokingham
Berkshire
RG11 5AR
0734 777828

Italy:
Hewlett-Packard Italiana S.p.A
Via G. di Vittorio, 9
20063 Cernusco Sul Naviglio (MI)
Milano
02/923691

European Multi Country Region:
Hewlett-Packard S.A.
Route du Nant d'Avril 150
1217 Meyrin 2 - Geneva
Switzerland
(41) 22/83 81 11

Or write to:

United States:
Hewlett-Packard Company
P.O. Box 10301
Palo Alto, CA 94303-0890

Europe/Middle East/Africa:
Hewlett-Packard S.A.
Central Mailing Department
P.O. Box 529
1180 AM Amstelveen
The Netherlands

For all other areas:
Hewlett-Packard Company
Intercontinental Headquarters
3495 Deer Creek Road
Palo Alto, CA 94304
U.S.A.

Printed in U.S.A., 4/89
5953-3778D