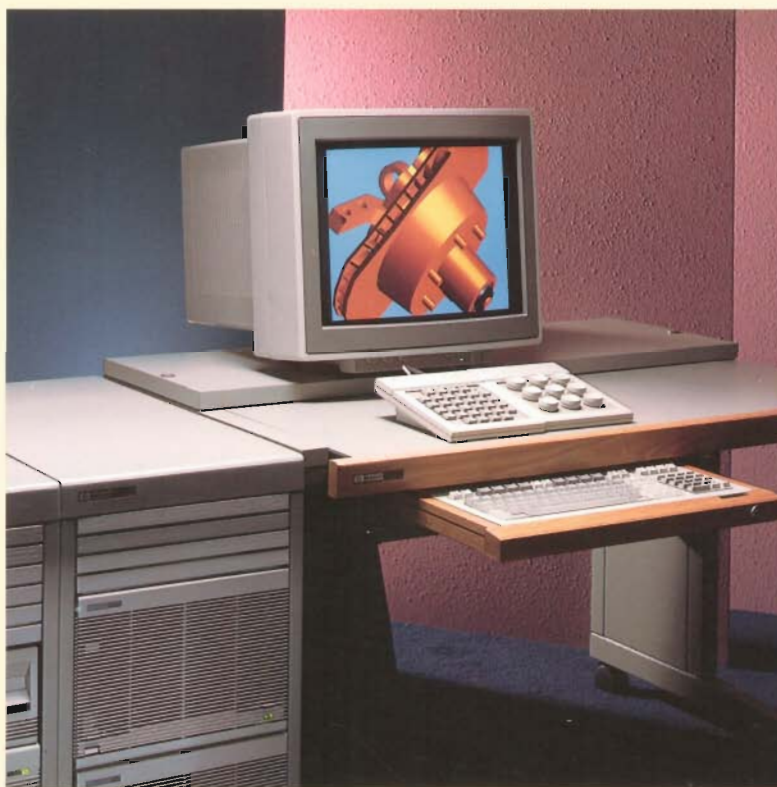


HP 9000 Series 800 Model 825SRX Superworkstation



Provides a greater return
on your design investment.



HP Precision Architecture: Lasting Value

One of a series of computers based on HP Precision Architecture, the Model 825SRX superworkstation provides fast, reliable computing and graphics.

A simplified instruction set implemented directly in hardware delivers superior performance for less money. Going beyond RISC (Reduced Instruction Set Computer), HP is the first major vendor to combine a 32-bit reduced complexity architecture and a real-time UNIX® operating system – HP-UX†, in a scalable series of compatible computers. The HP-UX operating system allows HP Precision Architecture computers to share application software, subsystems, peripherals and I/O cards – all without change.

With HP Precision Architecture, these computers have fewer components which means higher system reliability and lower cost of ownership over the life of the system. Offering unrivaled CPU uptime, these environmentally tolerant systems feature built-in diagnostics, powerfail recovery, and optional dial-up access for fast problem solving.

HP's commitment to current and future industry standard operating systems, languages, networking, data bases and graphics allows you to cut development costs and grow into multi-vendor environments. Cost-effective transitions to future HP Precision Architecture enhancements further protect your investment.

Create the Design in Less Time

Designing complex products involves revision and iteration of designs and analyses. Time and accuracy become the factors that can make or break your bottom line. To create the best product and deliver it to meet market demands means starting with the best possible design.

To produce that final design and be assured it's the most effective answer, you need time. Time that's often compressed by customer needs and competitive pressures.

Success Hangs in the Balance

The Model 825SRX superworkstation provides a balance of computation and graphics performance that buys you valuable time. Time to create, analyze and evaluate multiple designs. Time to produce a design that clearly reflects a product's dimensions and material properties; a design that best meets manufacturing and market requirements.

Performance That Gets the Job Done Faster

With performance greater than 8 MIPS, the Model 825SRX can perform applications such as finite element analysis and finite element modeling locally. With analysis under your local control, there's no need to run a batch job on a distant mainframe. This and interactive design lets you control more of your design time, so you get the job done faster.

Visual Realism and Dynamic Control

The Model 825SRX superworkstation provides the graphics performance and visual realism required to produce and evaluate complex designs. It allows you to view a design from different perspectives in real time. Transform objects or change lighting and modeling characteristics at interactive speeds. Save costly

resources by simulating various designs, instead of building and testing multiple prototypes.

Revealing Features That Communicate More

Highlights of the Model 825SRX's powerful graphics features reveal a range of capabilities:

- High-speed hidden surface removal.
- Fast scan conversion, transformations, and pixel display.
- Design complex and free-form parts with non-uniform, rational B-splines and trimming curves. Create smooth surfaces using up to 75% less data than required by conventional meshes.
- Shade polygons which are convex, concave, crossed, with or without holes, with up to 255 sides.
- See realistic reflections from surfaces such as plastics, fabric, even metal with the Phong lighting model.
- Advanced rendering techniques include multiple, colored light sources, and depth cueing, as well as Gouraud shading and hardware dithering for smooth color shading.

Model 825SRX System Package

The Model 825SRX system package includes an SPU, floating point coprocessor, power supply, 8 Mbyte error-correcting memory (expandable to 48 Mbytes), an HP-IB (IEEE-488) interface, a LAN/9000 link, SRX display controller, graphics accelerator, 8-plane frame buffer (expandable up to 32 planes), 19" high-resolution color display, display controller interface, keyboard, mouse, HP-UX, Starbase graphics, X Window System and ARPA/Berkeley networking. Up to two interactive SRX subsystems plus two SRX subsystems used as soft plotters can be supported on the system.

Choose the System That Meets Your Needs

Hewlett-Packard provides a broad range of scientific and engineering computers. You can choose from entry-level personal computers, workstations and multi-user computers. The advanced graphics features and interactive performance of the Model 825SRX superworkstation can be applied to many tasks – 3D solid modeling, real-time/simulation, architectural engineering and construction, mapping, molecular modeling – those applications which require fast response time, visual realism, and highly accurate representation of graphics data.

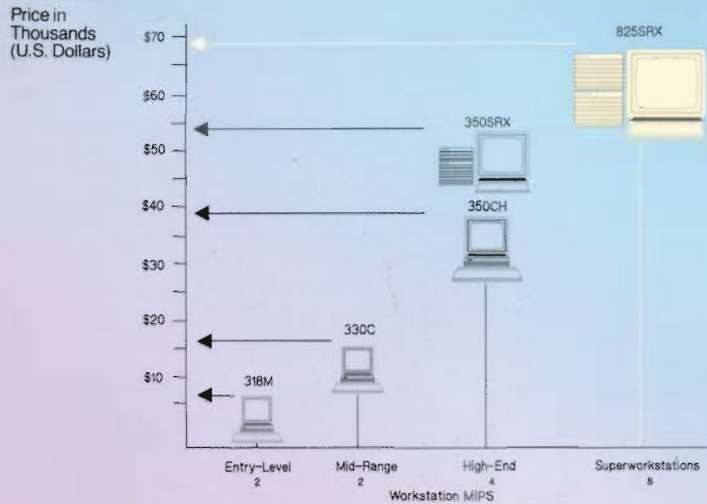
Dependable HP Service and Support

You can depend on HP advice, service, and support. We not only answer your questions, we help you ask them. That's why Hewlett-Packard offers support services that include not just hardware support but training, thorough documentation, and an on-going relationship as our products and your needs continue to grow.

All HP products undergo rigorous testing and numerous quality checks that assure you reliable computing. As part of our engineering and scientific solutions, HP also offers fully supported, quality peripherals such as discs, printers, and graphic plotters.

Over the past six years, HP has been rated #1 in service and support categories and #1 in overall customer satisfaction more consistently than any other vendor in surveys by Datapro Corporation.

HP 9000 Workstation Highlights (entire family not shown)

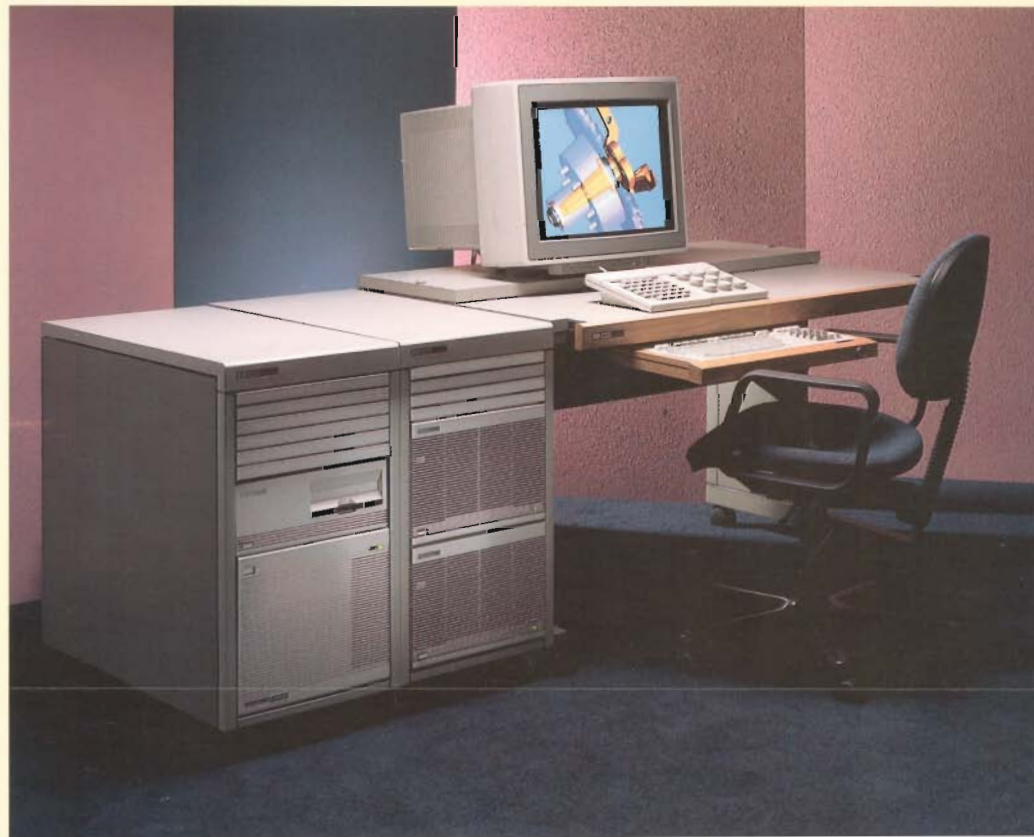


Experience Quality: The HP Difference

Think about Hewlett-Packard's approach and you'll know we're different. We bring quality solutions and equipment to your computing problems. We back everything we make with the best value per dollar for dependable service and support. And our support includes not just answers to your questions, but advice and training. These things add up to a dependable solution and solid, lasting value.

We're a stable, growing company; we'll be here today, tomorrow, and in years to come. Take a minute to think about what that can mean to you and your company. Then contact us for more information on the Model 825SRX superworkstation.

As the high-end of the HP 9000 workstation family, the Series 800 Model 825SRX is object-code compatible with other Series 800s. It is source-code compatible with the Series 300 workstations and provides twice the power of the Model 350.



HP Computer Museum
www.hpmuseum.net

For research and education purposes only.

Specifications

SYSTEM PROCESSOR:

CPU

Type	HP Precision Architecture processor implemented in NMOS VLSI
Word Size	32 bits
Virtual Memory Address Space	48 bits (281,000 Gbytes)
Physical Address Space	28 bits (256 Mbytes)
Cache Memory	16 Kbytes
Cycle Time	80 nsec
Base Instruction Time	80 nsec, except for eight instructions that take 160 nsec.
Average CPU Throughput	13,000 Dhrystones/sec.

Floating Point Coprocessor

Floating Point Performance	2.5 million Whetstone Instructions/sec. (B1D)
Floating Point Format	ANSI/IEEE 754-1985 Standard

Capacity

Memory	8-48 Mb ECC RAM
I/O Channels	Seven, of which two are used by the standard graphics interface and HP-IB interface
Disc Memory	Up to 12 spindles with 571 Mbytes per spindle

Power

Line Frequency	48-66 Hz
Current	9.5A @ 100 Vac 8.0A @ 120 Vac 5.3A @ 240 Vac
Power Consumption	600 Watts max.

Size and Weight

Size	234 mm x 325 mm x 530 mm (9.2" x 12.8" x 20.9")
Weight	23kg (approx. 50 lbs.)

GRAPHICS SUBSYSTEM:

CRT Display

Type	Color
Resolution	1280 x 1024 pixels
Size	19-inch diagonal

Frame Buffer

Size	2048 x 1024 per plane
Planes	8 standard, expandable to 32
Overlay Planes	4
Z-Buffer	Hardware, up to 16-bit full or strip
Displayed Colors	16, expandable to 16.7 million

Performance

3-D Vectors/sec.	63,000†
3-D Polygons/sec.	3200‡
Transforms	180,000 coordinates/sec.
Scan Conversion	16 million pixels/sec.

‡ 3-D vector performance is measured for transformed and clipped vectors 30 pixels in length. The lines are constant color with no hidden surface removal.

§ 3-D polygon performance is measured for transformed and clipped, Gouraud-shaded polygons with hidden surface removal. Polygons are 30 pixels on a side.

Data for images shown courtesy of SDRC.

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

† HP-UX complies with the proven industry-standard UNIX System V Interface Definition, Issue 2, Volume 1.

Use your design resources to your best advantage.

Contact us today for more information on the Model 825SRX superworkstation and our broad line of engineering and scientific computers. For your local HP Sales Office, consult the white pages of your telephone directory, or call the nearest regional office:

United States:

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

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

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

Hewlett-Packard
5161 Lankershim Blvd.
North Hollywood, CA 91601
(818) 505-5600

Canada:

Hewlett-Packard, Ltd.
6877 Goreway Drive
Mississauga, Ontario L4V 1M8
(416) 678-9430

Australia/New Zealand:

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

Europe/Africa/Middle East:

Hewlett-Packard
Central Mailing Department
P.O. Box 999
1180 AZ Amstelveens
The Netherlands
(31) 20/5479999

Far East Area:

Hewlett-Packard Asia Ltd.
47/F China Resources Bldg.
26 Harbour Road
Hong Kong
(5) 833-0833

Japan:

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

Latin America:

Hewlett-Packard de Mexico, Sp.A. de C.V.
Monte Pelvix No. 111
Lomas de Chapultepec
11000 Mexico D. F., Mexico
(905) 596-7933

United Kingdom:

Hewlett-Packard Limited
Miller House—The Ring
Bracknell
Berkshire RG121XN
England
(44) 344/424898

