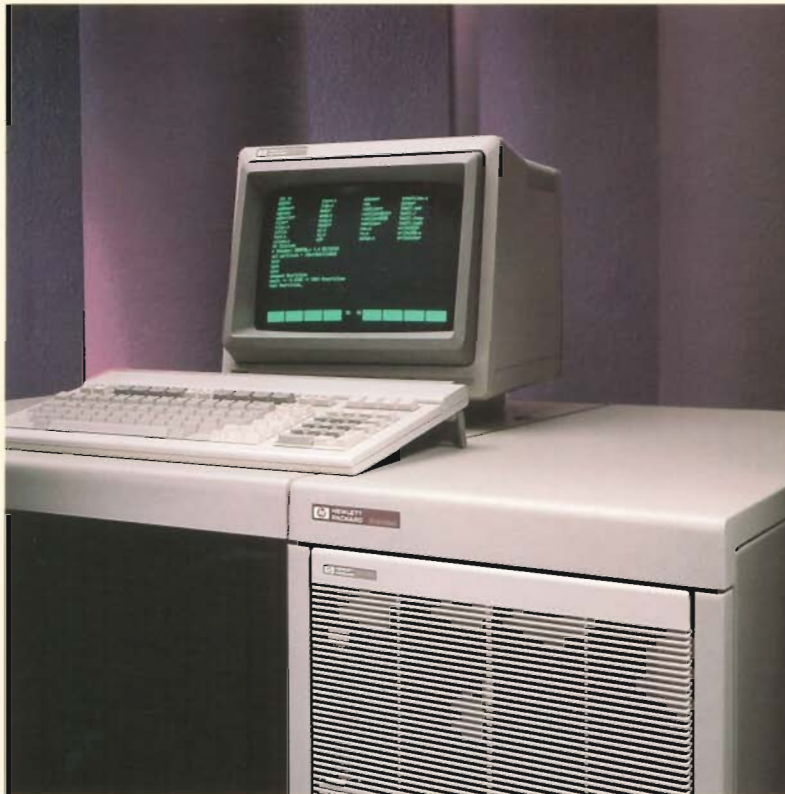


HP 9000 Series 800 Model 825S Computer System



HP Precision Architecture
systems give you low-cost
admission to high performance ...



HP Computer Museum
www.hpmuseum.net

For research and education purposes only.

HP 9000 Series 800 Model 825S

Enter the world of HP Precision Architecture.

The HP 9000, Model 825S is your low-cost admission ticket into the newest computing arena—a world where simpler means better, faster, more reliable.

It's the world of Reduced Instruction Set Computer (RISC) architecture, where a simplified instruction set implemented directly in hardware delivers superior performance for less money. Hewlett-Packard (HP) has gone *beyond* RISC to create the powerful HP Precision Architecture family of HP-UX* super minicomputers for general purpose, engineering, scientific, industrial, and business applications.

With reduced complexity design, our systems have fewer components, which means higher reliability and lower cost of ownership over the lifetime of your system. And because they're designed to adhere to current and future industry standards for UNIX** operating systems, networking, languages, graphics, and data bases, you can cut development costs while your investment keeps growing.

HP is the first major computer vendor to combine a 32-bit reduced complexity architecture and a real-time, UNIX operating system in a scalable family of compatible computers. Compatibility between the systems assures that the same applications software, subsystems, peripherals and I/O cards may be used between the processors.

The HP Precision Architecture family delivers excellent computational performance at a low cost. Designed for multi-user environments, you can choose a system to manage your most ambitious application programs.

To protect your current computing investment, our upgrade programs allow you to purchase HP computers now, with the confidence of receiving generous trade-in credits if you require more processing power later.



Super minicomputer performance, workstation affordability.

As the entry-level system in the HP Precision Architecture family, the Model 825S provides the performance and flexibility of a super minicomputer at the price of a workstation or minicomputer. The Model 825S' reduced complexity design brings breakthrough performance at a very low cost. Multi-user performance clocks in at 65 percent of the Model 840S'.

High performance in a small package.

Since the Model 825S utilizes HP's advanced NMOS III VLSI technology, all this performance comes to you in a package so small it can even fit on your desktop. If you prefer, the Model 825S can also be mounted in a cabinet that takes just 2.4 square feet of floor space, or can be rackmounted in standard EIA 19-inch racks.

Options for growth.

With its I/O expansion, the Model 825S gives you plenty of room to expand your horizons. You can support up to 64 users, 56 MB of main memory, and 9.14 GB of disc storage. To let you connect

to other vendors' systems, the Model 825S also provides industry-standard network services such as ARPA/Berkeley and IEEE 802.3

Versatility for your applications.

The Model 825S' flexibility allows you to use it for a wide variety of applications.

For example, its powerful integer and floating point performance and low price makes it very attractive for scientific, computation, and test applications.

Its native language support, low cost, and HP-UX operating environment makes it ideally suited for project teams who develop software. Its compact size and ability to support multiple users makes it well suited for a business or office environment.

And with its HP-UX, real-time capabilities, flexibility, and powerfail recovery feature, the Model 825S can perform well in communications, industrial automation, and real-time data acquisition applications.

Get more for your money.

Because of its innovative, reduced complexity architecture, the entire HP Precision Architecture family offers you outstanding price/performance values. The Model 825S SPU Package includes:

- CPU
- Floating Point Co-processor
- Power Supply
- SPU Cabinet
- 8 MB Error Correcting Memory
- HP-IB Interface
- 6 Channel Serial Multiplexer

*HP-UX complies with the proven, industry-standard UNIX System V Interface Definition, Issue 2, Volume I



- 5 Channel I/O slots for connecting peripherals, networking, or instruments

- 16-user HP-UX license

- Documentation

Also available:

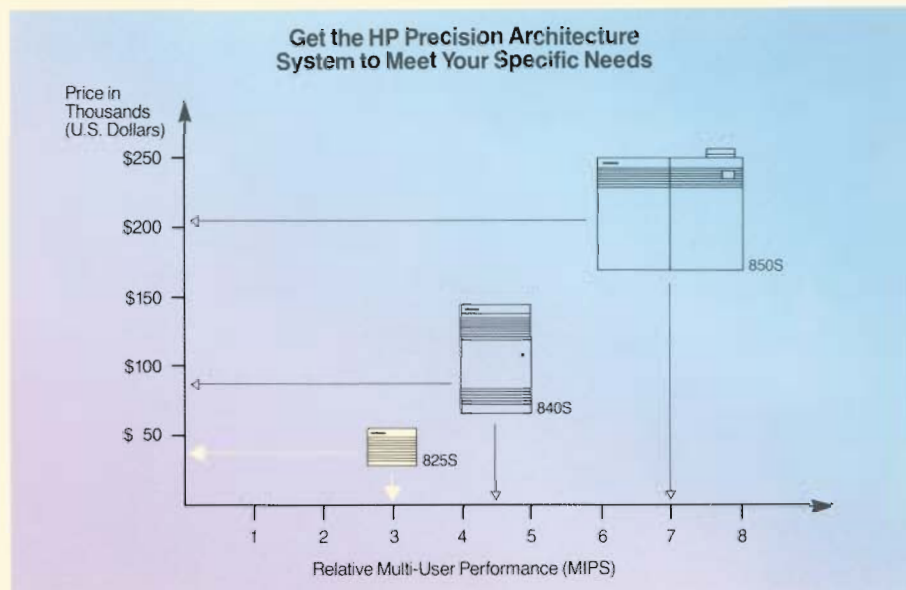
- 7-slot I/O Expander

- Battery Backup Unit

- Access Port for Remote Diagnostics

HP is the leader in service and support.

As with all HP products, the Model 825S gives you access to the added value of HP service and support. 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 computer vendor in surveys by Datapro Corporation. Our worldwide local support teams are comprised of experienced HP hardware, software, and sales engineers. One telephone call can produce assistance whenever and wherever it is needed—from 300 locations in 72 countries.



For smaller configurations with less than 32 users, the Model 825S provides the highest price/performance value depending upon your application.



Specifications

Industry Standards	
Operating System	UNIX System V Interface Definition, Issue 2, Volume 1
Data Base	HP's Allbase is compatible with IBM's Structure Query Language (SQL)
Networking	ARPA/Berkeley, TCP/IP, IEEE 802.3
Graphics	Starbase Graphics Library (ANSI/ISO CGI)
Windowing	HP GKS (ANSI/ISO Graphical Kernel System)
Languages	X-Window FORTRAN '77, C, Pascal, COBOL/HP-UX
Capacity	
Memory	8 MB ECC expandable to 56 MB
Available I/O Channels	2 channels and extender provide 14 slots
Terminals or Serial Ports	64 with expander 72 with expander
Disc Memory	9.14 GB
Central Processor Unit	
Word Size	32-bit
Base Instruction Cycle Time	80 nanoseconds
Cache Size	16 KB
TLB Entry Size	2048
Central System Bus Speeds	24/19 (peak/average) MB/second
Channel I/O Speeds	8/5 (peak/average) MB/second
Floating Point Co-processor	
Floating Point Instructions	40
Floating Point Format	ANSI/IEEE 754-1985 standard
Instruction Set	
Maximum Number of Base Instructions	140
Number of 32-bit General Purpose Registers	32
Main Memory	
Virtual Memory Address Space	48-bit addressing (281,000 GB)
Physical Address Space	29-bit addressing (512 MB)
Operating Environment	
Temperature	
Operating	0 to 55° C (32 to 131° F)
Non-operating	-40 to 75° C (-40 to 167° F)
Relative Humidity	15 to 95% at 0 to 47° C Non condensing
Altitude	
Operating	to 4.6 Km (15,000 ft)
Non-operating	to 15.3 Km (50,000 ft)
Maximum Heat Dissipation	200 BTU/hr
Electrical Specifications	
Line Voltage/Frequency	90 to 127 VAC at 47.5 to 66 Hz 180 to 254 VAC at 47.6 to 66 Hz
Maximum Power Required	600W
Battery Backup Time	15 minutes minimum
Physical Characteristics	
Weight	23 Kg (51 lbs)
Dimensions	Height 234 mm (9.2 in) Width 325 mm (12.8 in) Depth 500 mm (19.7 in)

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

Technical data subject to change.

Easy access to advanced technology.

For more information on how the HP 9000, Model 825S and our other HP-UX systems can give you access to greater performance for less money, simply call your local Hewlett-Packard sales office listed in your telephone directory. Or call one of the HP sales offices listed below.

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
5161 Lankershim Boulevard
No. Hollywood, CA 91601
(818) 505-5600

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

Canada:

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

Japan:

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

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Monte Pelvoux No. 111
Lomas de Chapultepec
11000 Mexico D.F., Mexico
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31-41 Joseph Street
Blackburn, Victoria 3130
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