



HP 9000 ENTERPRISE SERVERS

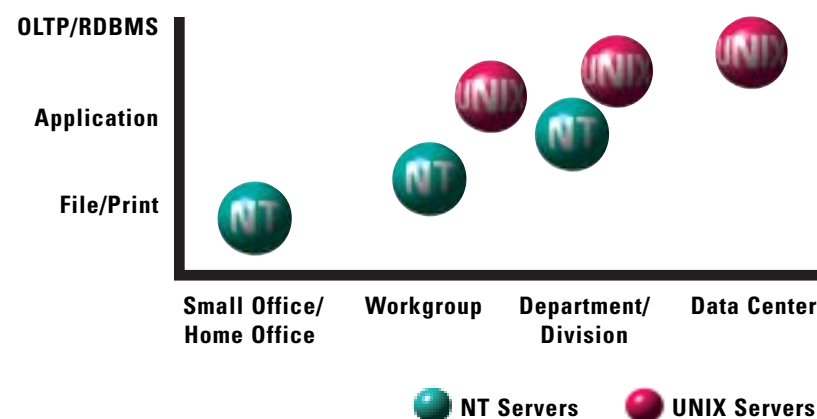
**The Market-Leading
Family of Enterprise
Servers Spanning the
Workgroup to the
Data Center**

Hewlett Packard...

Defining The New Enterprise

Now That
Your Business
Depends On
Your Network...
Your Network
Needs To Be
Powered By
An HP 9000
Enterprise
Server

HP INTERNET READY SERVERS FOR THE SMALL OFFICE TO THE DATA CENTER



The phenomenal growth of the Internet has demonstrated that a standards-based network

infrastructure can help fuel global opportunities for business commerce and communications. That's why companies are increasingly turning to networked computing based on open systems as the platform for implementing business strategies.

As the leader in RISC-based computing and open systems over the last decade, HP has played a key role in this evolution of standards-based networked computing. Today, HP's Open Enterprise Computing strategy defines integrated HP and partner solutions while HP 9000 Enterprise Servers comprise the broadest family of binary compatible servers on the market, ranging from a few users in the workgroup to thousands of users in a data center and beyond with the internet.

Now, with world-leading 64-bit PA-8000 RISC technology, HP 9000 Enterprise Servers provide even greater levels of performance, price/performance, and continued investment protection. In addition, HP's high performance Enterprise Parallel Servers (EPS) offer superb scalability beyond a single system for very large decision support systems and other business critical services.

HP IS PROVIDING THE SERVER PLATFORM THAT EMPOWERS THE ENTERPRISE

The HP 9000 Enterprise Server platform is unique in its ability to support computing environments of all sizes, ranging from small businesses to the workgroups, departments, replicated sites and data centers of large enterprises. HP 9000 Enterprise Servers offer an unmatched value proposition in terms of meeting five key enterprise customer requirements: Performance, Resilience, Integration, Security and Management.

Performance. The HP 9000 family offers outstanding performance when used as a database server running OLTP, decision support and batch applications. In addition, the HP 9000 Enterprise Servers provide leadership performance for Internet/Web, compute, and file server environments. Balanced performance across all these environments is offered through the highly tuned combination of HP-UX optimizing compiler technology and the PA-RISC processor, as well as built-in HP-UX support for up to 14-way symmetrical multiprocessing, large-scale memory configurations, and mainframe-class I/O and mass storage capabilities.

Resilience. Drastically reducing the amount of downtime from system problems or planned upgrades and reconfigurations, high availability solutions such as HP Enterprise Clusters, disk array technologies, transparent disk mirroring, and cluster management provide outstanding levels of system uptime and application availability in the open systems HP-UX environment.

Integration. HP 9000 Enterprise Servers also address the need for integration in the enterprise. The HP-UX enterprise-class operating environment consists of software for the operating system, software, networking, systems and network management, high availability products, distributed computing middleware, and tools. Through the IT Collaboration Program, HP-UX can coexist and integrate with mixed computing environments, including Windows NT® Server, Novell NetWare®, and PC desktops. As a result, the HP-UX environment has the richest collection of commercial applications and tools — including leading mainframe connection offerings — of any UNIX-based platform.

Security. HP offers the Praesidium Enterprise-wide Security Framework, including the Praesidium/Virtual Vault and Praesidium/Authorization Server, to support secure operations and transactions on the Internet and Enterprise-wide networks. As many of these security offerings are delivered for corporate intranets, HP is giving companies a way to expand their business model to encompass network computing and the Internet.

Management. In addition, the industry's leading enterprise-wide, system and network management framework, HP OpenView®, allows integrated monitoring, configuration, and control of the network environment. HP's OpenView platform also supports over 200 compatible products from HP and partners that extend the functionality of the core system in areas such as multi-vendor, enterprise configuration management, operational and performance monitoring, software distribution, and datacenter-class storage management.

HP 9000 Enterprise Servers Were Designed To Be The Secure Network Platform For Internet/Corporate Intranet Deployment

HP was able to quickly move to Web technology because its own network, built over the last decade, was based on open systems technologies (TCP/IP) the same used by the Internet. As a result, HP's private intranet is now the world's largest with 140,000 computers transmitting 7-8 terabytes of information every month and 1.5 million e-mail messages every day. This has given HP an enormous business advantage which has contributed to the continued growth of the company. It's this type of practical know-how that HP is putting to use in presenting a range of tools and services to help you build and manage your global intranet.

HP's comprehensive corporate intranet strategy is to provide your business with the HP 9000 Enterprise Servers and secure Web technologies that can give your company a competitive advantage. Since unplugging its last mainframe, HP has demonstrated how a Fortune 22 company can run its business on a open systems network consisting of HP servers.

A CLOSE-UP VIEW OF THE HP 9000 ENTERPRISE SERVER FAMILY

HP 9000 Enterprise Servers: D-Class

D-Class Enterprise Servers are ideally suited to meet customer needs for small businesses, replicated sites, branch, or workgroup servers. With over a 6X range of performance that affords plenty of performance headroom to add new applications and additional users, these entry-level systems are exceptionally cost-effective. Yet in comparison to traditional PC LAN servers, the D-Class Enterprise Servers go much further by providing the enterprise-class performance, reliability, integration, security and management required for running business critical applications. D-Class Enterprise Servers feature PA-RISC price/performance, integrated I/O devices to minimize complexity, and a compact chassis footprint. With prices similar to less functional PC LAN servers, D-Class Enterprise Servers offer a tremendous value, providing users with an entry-level server with enterprise-class functionality.

Number of CPUs:	1-2	Maximum Disk (TB):	5.0 TB
Maximum Memory (GB):	1.5 GB	Available I/O Slots:	Up to 8 slots

HP 9000 Enterprise Servers: E-Class, G-Class, H-Class, I-Class

Designed as departmental or division servers, these entry-level to midrange servers offer highly competitive performance and value. With a choice of systems expandable to a 2-way multiprocessor architecture, a floating point coprocessor, and extensive configurability in both memory and disk, these systems deliver maximum flexibility, and choice for customers. Designed for easy upgradeability to protect customer investments, E-Class Enterprise Servers provide over a 3X range of performance scalability, while G/H/I-Class Enterprise Servers provide nearly 5X scalability within the same system cabinet.

Number of CPUs:	1-2	Maximum Disk (TB):	Up to 4.0 TB
Maximum Memory (GB):	Up to 0.77 GB	Available I/O Slots:	Up to 12 slots

HP 9000 Enterprise Servers: K-Class

K-Class Enterprise Servers address requirements that extend from the traditional midrange all the way to the data center. Using HP's latest PA-RISC processors, the K-Class offers more performance than any other midrange server and at better price/performance levels. In addition, for networking and clustered environments, all HP 9000 Enterprise Servers support next generation ATM and Fibre Channel communications. The K-Class Enterprise Servers utilize a single system cabinet which provides for unmatched investment protection and over a 10X range of performance through multiple generations of PA-RISC technology upgraded by simple board upgrades. As a recipient of numerous industry awards, HP's K-Class has redefined mid range computing to a higher standard of excellence.

Number of CPUs:	1-4	Maximum Disk (TB):	Up to 8.3 TB
Maximum Memory (GB):	Up to 4.0 GB*	Available I/O Slots:	Up to 13 slots

*3.75 GB addressable with HP-UX 10.X

HP 9000 Enterprise Servers: T-Class

T-Class Enterprise Servers are the most capable and expandable high-end UNIX based servers available for commercial applications. These servers were designed to be modern, viable open systems alternatives to older, inflexible, and expensive mainframe systems. With up to 14-way symmetrical multiprocessing and balanced high-end system design, these systems deliver maximum performance, growth capabilities, and value in the data center. In addition, the T-Class Enterprise Servers contain a service processor which monitors the health of the server to proactively assure maximum uptime for corporate data center applications. Designed for an unprecedented combination of performance scalability, high availability, and investment protection, the T-Class Enterprise Servers provide an unmatched value in enterprise-class data center computing.

Number of CPUs:	1-14	Maximum Disk (TB):	Up to 30 TB
Maximum Memory (GB):	Up to 4.0 GB* (16 GB with future O.S. release)	Available I/O Slots:	Up to 112 slots

*3.75 GB addressable with HP-UX 10.X

HP 9000 Servers: Enterprise Parallel Servers

The HP 9000 Enterprise Parallel Servers provide a flexible and scalable enterprise resource that is easily adaptable to meet your dynamically changing organizational needs. HP's EPS models help you create an open, modular, high-performance environment capable of solving a variety of today's high-end, data-intensive commercial computing problems. The concept behind the EPS family is simple — combine the strengths of time-proven, high-performance symmetric multi-processing (SMP) with the performance and system resource scalability potential that can be achieved through a parallel architecture. The result is a robust, high-performance architecture that uniquely enables commercial parallel processing to reach the highest levels of performance scalability for data intensive environments, while leveraging existing and proven SMP programming models.

Number of CPUs:	1-192+ (thousands of CPUs in future)	Maximum Disk (TB):	up to 480 TB (1,000 TB+ in future)
Maximum Memory (GB):	up to 256 GB (1 TB+ in future)	Available I/O Slots:	1,792 slots (2,000+ I/O slots in future)

THE FULL RANGE OF HP 9000 SERVERS AND WORKSTATIONS



HP - YOUR STRATEGIC I.T. SUPPLIER

A Relationship Built On Trust and Innovation

HP recognizes that partnership means working to build a lasting relationship as your strategic IT supplier. With thousands of customers using the HP 9000 platform for mission-critical applications, HP has delivered on the promise of open systems. With its proven track record, the HP 9000 has earned its place as the safe choice for mission-critical environments and for the open, distributed systems of today and tomorrow.

Hardware and Software Investment Protection

While other vendors force customers to make changes to their mission-critical applications in order to gain access to new operating environment functionality, HP has offered binary forward-compatibility across the HP 9000 Enterprise Servers and on the HP-UX operating environment from the mid-80s. Single business units, branches, or departments can purchase economical entry-level systems and then grow that system as requirements increase. In many cases, HP 9000 Enterprise Servers can be upgraded onsite by a simple board replacement. In other upgrades that require a box swap, HP allows the same systems software, applications, and peripherals to be used from the deskside to the data center.

Reputation For Quality and Leadership

With its reputation built on quality, HP is widely recognized for the superior design and performance of its products. Just as important is HP's tradition of high performance, which insures that customers will continue to benefit from leading edge technology in a partnership with HP. For the last two years, the HP-UX environment has earned a place on Datapro's Honor Roll as the top rated UNIX systems for reliability and overall satisfaction. Datapro has also given HP the number one ranking in customer support. HP's continued investment in quality assures customers that the HP 9000 will remain the platform that defines the standard of price/performance, high availability and binary compatibility in open systems.

Unparalleled Industry Support

HP has built strategic alliances with some of the foremost independent software providers, all the leading database suppliers and CASE solutions, application developers, and systems integrators in the industry, enabling additional expertise to be leveraged in the implementation of HP 9000 systems. To date, HP has 4,000 Independent Software Vendors (ISVs) supplying more than 15,000 solutions on HP platforms. In addition, HP works with thousands of distributor authorized resellers (DARs) selling integrated HP 9000 solutions around the world.

More mainframe-based solutions have been ported to HP systems than any other vendor. In many cases, the HP 9000 has been the first or only open systems environments to which these solutions have been ported. To assist customers in porting in-house applications to the HP 9000, HP maintains partnerships with leading conversion tool providers.

Worldwide Service and Support

HP has assembled the qualified consultants, proven methodologies and tools, and the worldwide support and service infrastructure necessary to implement open systems. HP offers the most comprehensive range of services to design, integrate, finance, operate, and maintain customers' open systems, multivendor computing environments. HP combines experienced professionals with dedicated processes and tested tools to offer integrated support for hardware, software and network solutions.

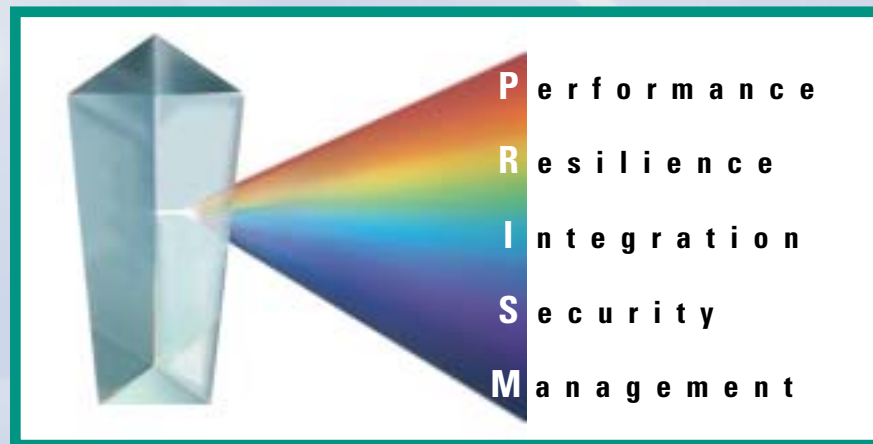
HP works with customers to optimize the overall computing environment, provide necessary training, implement preventative measures, and develop responsive service programs for all forms of ongoing maintenance. Over 18,000 professionals delivering services through a worldwide, integrated support infrastructure have earned HP an industry leading reputation for service and support.

HP and Intel: Defining The Future Of Computing

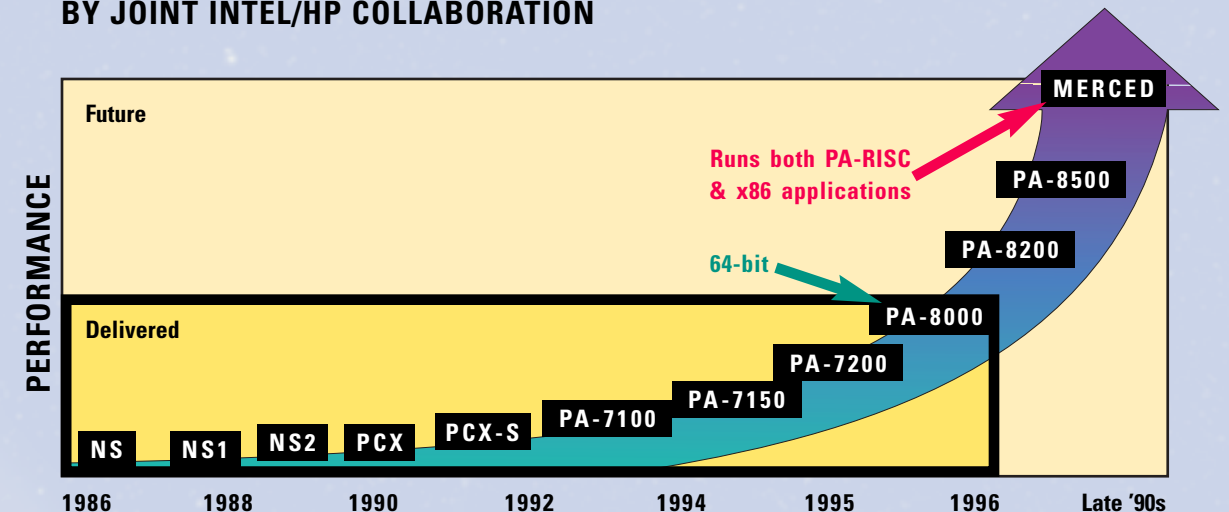
With the introduction of the PA-RISC-based servers in 1986, HP was the first major vendor to bring Reduced Instruction Set Computing (RISC) technology to commercial computing. Since then, HP has delivered eight generations of PA-RISC technology that have consistently provided new performance and price/performance thresholds for open systems computing and provide forward compatibility to each successive generation. The PA-RISC processor is common to every member of the HP 9000 Enterprise Server family and now can be leveraged even further through HP's extensive experience in symmetrical multiprocessing and parallel processing.

With an agreement to develop the next generation computing architecture with Intel Corp., HP and Intel are jointly developing next-generation processor technology that accelerates performance improvements and provides binary compatibility for all leading PA-RISC/HP-UX and PC applications in a single architecture. Most importantly, all customer investments in PA-RISC based applications are assured of binary compatibility with the next-generation microprocessor design, continuing the tradition of investment protection. This means that HP customers are assured a seamless growth path into the high performance computing environments of the next decade.

HP now introduces the concept of "PRISM" to summarize the driving factors facing customers in today's enterprise and to highlight our key HP 9000 Enterprise Server technology differentiators.



PERFORMANCE LEADERSHIP SECURED INTO THE NEXT CENTURY BY JOINT INTEL/HP COLLABORATION



Where can you find out more?

Taken together, the HP 9000 Enterprise Servers and the enterprise-class HP-UX operating environment insure that you have the performance, resiliency, integration, security, and management ease to address your business needs. HP offers the proven platform for business innovation and open systems flexibility.

As an ever increasing number of customers have already learned, the HP 9000 is the platform of choice for mission-critical enterprise integration and intranet deployment. For more information, contact HP at an office listed below, or visit our web site at <http://www.hp.com>.

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