



HP Integrity servers  
Family guide



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## Make your business computing more flexible, simple, reliable—and cost-effective

If you're an IT manager, you're juggling a lot of challenges. Business units are demanding higher service levels—often 24x7 and in multiple locations around the world. Mergers and restructurings may require rapid systems integration as well as database and server consolidation. And security is a growing concern.

You're probably trying to meet these challenges with a complex infrastructure that's already supporting tens, hundreds, or even thousands of applications. You may be running a wide variety of servers that includes both outdated and underutilized machines. And you may be under pressure to meet ambitious new goals while cutting costs and conserving valuable floor space.

HP Integrity servers offer a flexible, reliable, simple, and cost-effective solution. We designed our newest line of servers with one goal in mind: to help you accomplish your business goals and earn a higher return on your IT investment.

The Integrity family of servers does this by delivering:

- **Flexible capacity**—Lets you focus server capacity on your highest-priority business needs at any given time. Helps you scale rapidly as your business grows—and respond to changes in real time.
- **Secured availability**—Helps you keep business-critical applications up and running while you safeguard sensitive business and customer data.
- **Simplified management**—Makes it easier to manage your IT environment and do more for less. Simplified management can help you consolidate IT operations, boost productivity, and get more out of your data centers.

### The Integrity server family

The Integrity server family has options to meet virtually any computing need. All HP Integrity servers support the HP Virtual Server Environment (VSE) to let you optimize your server utilization in real time.

- **Entry-class Integrity servers (rx1620, rx2620, rx3600, rx4640, rx6600, and BL60p)**—These reliable servers offer the price/performance your growing business and technical computing demand. They are flexible and fit easily into diverse environments that include multiple server types and operating systems.

- **Midrange Integrity servers (rx7640 and rx8640)**—These servers offer high-end functionality at a midrange price. They are ideal for multi-OS consolidation projects and for rapidly scaling your environment. They also provide high availability as well as processing power for your compute-intensive tasks.
- **High-end Integrity servers (Superdome)**—Our high-end servers offer superior scalability, performance, and availability for the most demanding environments. For large-scale consolidation projects, they provide very strong virtualization capabilities combined with long-term investment protection.

## The HP portfolio

HP is committed to meeting your exact needs, whether it's a departmental server, an enterprise data center, or anything in-between. This commitment has resulted in more customers choosing HP servers than any other vendor's servers.\* Our portfolio includes:

- **HP Integrity servers**—the premier choice for your most demanding workloads and applications, running HP-UX, 64-bit Microsoft® Windows®, OpenVMS, and Linux.
- **HP ProLiant servers**—the world's top-selling industry-standard servers\*, offer a superior platform for your mainstream 32-bit and emerging 64-bit x86 applications.
- **HP Integrity NonStop servers**—ideal when user service levels are paramount. They deliver high levels of availability, fail-safe data integrity, and linear scalability for ultimate business continuity.

To gain the full value from your investments, you also need expert services across the IT lifecycle, intelligent software, advanced storage devices, and system-enhancing options:

- **Services**—from training and basic product support to selective outsourcing—services help you keep your environment up and running and realize the full potential of your technology
- **Management software**—allows you to align IT with business needs, automate error-prone processes, and optimize your infrastructure
- **Network and direct-attached storage devices**—help you keep large amounts of information protected and readily accessible to people when needed
- **Server options**—including memory, disks, processors, racks, and power and cooling—help optimize your solution by enhancing system performance and functionality

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\*Source: IDC Worldwide Quarterly Server Tracker, May 2006

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# HP Integrity servers: entry-class

Providing the flexibility you need for diverse workloads, multiple operating environments, and future business growth, all at the price/performance your business demands

## Entry-class

Updated

Updated



**HP Integrity rx1620 Server**  
Ultra-dense server built to deliver technical computing value

**HP Integrity rx2620 Server**  
High-performance server for multipurpose scale-out computing

**HP Integrity rx4640 Server**  
Strong price/performance for commercial applications

<b>Processors supported</b>	Intel® Itanium® 2 processor 1.6 GHz (single-core) with 3 MB cache 1.3 GHz (single-core) with 3 MB cache	Intel Itanium 2 processor 1.6 GHz (dual-core) with 18 MB cache <sup>1</sup> 1.4 GHz (dual-core) with 12 MB cache 1.6 GHz (single-core) with 3 MB cache	Intel Itanium 2 processor 1.6 GHz (dual-core) with 24 MB cache 1.6 GHz (dual-core) with 18 MB cache
<b>Number of processors</b>	1–2	1–2	1–4
<b>Maximum number of cores</b>	2	4	8
<b>Scalable processor chipset</b>	zx1	zx1	zx1
<b>Operating systems supported</b>	HP-UX 11i v2 <sup>2</sup> Microsoft Windows Server 2003, Enterprise Edition Red Hat Enterprise Linux AS/ES 4 and Novell SUSE Linux Enterprise Server 9 and 10 OpenVMS v8.3 <sup>2</sup>	HP-UX 11i v2 <sup>2</sup> Microsoft Windows Server 2003, Enterprise Edition Red Hat Enterprise Linux <sup>3</sup> AS/ES 4 and Novell SUSE Linux Enterprise Server 9 and 10 OpenVMS v8.3 <sup>2</sup>	HP-UX 11i v2 <sup>2</sup> Microsoft Windows Server 2003, Enterprise Edition Red Hat Enterprise Linux <sup>3</sup> AS 4 and Novell SUSE Linux Enterprise Server 9 and 10 OpenVMS v8.3 <sup>2</sup>
<b>Maximum memory</b>	16 GB	32 GB	128 GB
<b>I/O slots</b>	2	4	6
<b>Internal hard disk drives</b>	2	3	2
<b>Management</b>	HP Systems Insight Manager, HP Integrity iLO	HP Systems Insight Manager, HP Integrity iLO	HP Systems Insight Manager, HP Integrity iLO
<b>EIA unit height</b>	1	2	4
<b>HP related offerings</b>			
<b>Storage</b>	Modular Smart Array 1500 Enterprise Virtual Array 4000	Modular Smart Array 1500 Enterprise Virtual Array 4000	Enterprise Virtual Array 6000 Enterprise Virtual Array 4000
<b>Software</b>	HP Virtual Server Environment HP Ignite-UX	HP Virtual Server Environment HP OpenView GlancePlus Pak	HP Virtual Server Environment HP OpenView GlancePlus Pak
<b>Services</b>	HP Proactive 24 Service HP Critical Service	HP Proactive 24 Service HP Critical Service	HP Critical Service HP Proactive 24 Service
<b>Hardware options</b>	10000 G2 Series rack 2 Gb Fibre Channel and Gigabit Ethernet multifunction adapters	10000 G2 Series rack 2 Gb Fibre Channel and Gigabit Ethernet multifunction adapters	10000 G2 Series rack 2 Gb Fibre Channel and Gigabit Ethernet multifunction adapters

<sup>1</sup> Available in 4QCY06

<sup>2</sup> Choice of Mission Critical, Enterprise, or Foundation Operating Environment

<sup>3</sup> Support of dual-core processors planned by end of 2006

# HP Integrity servers: entry-class

Providing the flexibility you need for diverse workloads, multiple operating environments, and future business growth, all at the price/performance your business demands

## Entry-class

New

New



**HP Integrity BL60p Blade Server**  
Blade simplicity and value with the robustness of HP-UX for p-Class Blade Systems

**HP Integrity rx3600 Server**  
Powerful entry-class workhorse for demanding database and application performance

**HP Integrity rx6600 Server**  
Highly expandable platform for workload consolidation and virtualization

<b>Processors supported</b>	Intel Itanium 2 processor 1.6 GHz (single-core) with 3 MB cache	Intel Itanium 2 processor 1.6 GHz (dual-core) with 18 MB cache <sup>1</sup> 1.4 GHz (dual-core) with 12 MB cache	Intel Itanium 2 processor 1.6 GHz (dual-core) with 24 MB cache 1.6 GHz (dual-core) with 18 MB cache 1.4 GHz (dual-core) with 12 MB cache
<b>Number of processors</b>	1–2	1–2	1–4
<b>Maximum number of cores</b>	2	4	8
<b>Scalable processor chipset</b>	zx1	zx2	zx2
<b>Operating systems supported</b>	HP-UX 11i v2 <sup>2</sup>	HP-UX 11i v2 <sup>2</sup> Microsoft Windows Server 2003, Enterprise Edition Red Hat Enterprise Linux <sup>3</sup> AS/ES 4 and Novell SUSE Linux Enterprise Server 10 OpenVMS v8.3 <sup>2</sup>	HP-UX 11i v2 <sup>2</sup> Microsoft Windows Server 2003, Enterprise Edition Red Hat Enterprise Linux <sup>3</sup> AS 4 and Novell SUSE Linux Enterprise Server 10 OpenVMS v8.3 <sup>2</sup>
<b>Maximum memory</b>	8 GB	96 GB	192 GB
<b>I/O slots</b>	0 <sup>4</sup>	8	8
<b>Internal hard disk drives</b>	2	8	16
<b>Management</b>	HP Systems Insight Manager, HP Integrity iLO	HP Systems Insight Manager, HP Integrity iLO 2	HP Systems Insight Manager, HP Integrity iLO 2
<b>EIA unit height</b>	N/A	4	7
<b>HP related offerings</b>			
<b>Storage</b>	Enterprise Virtual Array 4000 Modular Smart Array 1500	Modular Smart Array 1500 Enterprise Virtual Array 4000	Enterprise Virtual Array 6000 Enterprise Virtual Array 4000
<b>Software</b>	HP Virtual Server Environment HP OnlineJFS	HP Virtual Server Environment HP Mirrordisk/UX	HP Virtual Server Environment HP Serviceguard
<b>Services</b>	HP Proactive 24 Service HP Critical Service	HP Proactive 24 Service HP Critical Service	HP Critical Service HP Proactive 24 Service
<b>Hardware options</b>	10000 G2 Series rack 1 GB, 2 GB, or 4 GB memory upgrades	10000 G2 Series rack 4 Gb Fibre Channel adapters	10000 G2 Series rack 4 Gb Fibre Channel adapters

<sup>1</sup> Available in 4QCY06

<sup>2</sup> Choice of Mission Critical, Enterprise, or Foundation Operating Environment

<sup>3</sup> Support planned by end of 2006

<sup>4</sup> Standard I/O includes (4) Gigabit Ethernet, (2) 2 Gb/s Fibre Channel, and (2) 2.0 USB ports

# HP Integrity servers: midrange

Flexible, available servers for your business computing needs, incorporating high-end functionality in the midrange market—perfect for multi-OS consolidation, scale-up, and performance applications

## Midrange

Updated



**HP Integrity rx7640 Server**  
Excellent performance and compute density for data center applications

Updated



**HP Integrity rx8640 Server**  
Ideal low-cost platform for server consolidation, scale-up, and performance workloads

<b>Processors supported</b>	Intel Itanium 2 processor 1.6 GHz (dual-core) with 18 MB cache 1.4 GHz (dual-core) with 12 MB cache 1.6 GHz (single-core) with 6 MB cache	Intel Itanium 2 processor 1.6 GHz (dual-core) with 24 MB cache 1.6 GHz (dual-core) with 18 MB cache 1.4 GHz (dual-core) with 12 MB cache 1.6 GHz (single-core) with 6 MB cache
<b>Number of processors</b>	2–8	2–16
<b>Maximum number of cores</b>	16	32
<b>Scalable processor chipset</b>	sx2000	sx2000
<b>Operating systems supported</b>	HP-UX 11i v2 <sup>1</sup> Microsoft Windows Server 2003, Enterprise Edition and Datacenter Edition Red Hat Enterprise Linux <sup>2,3</sup> AS 4 and Novell SUSE Linux Enterprise Server <sup>2,3</sup> 10 OpenVMS v8.3 <sup>1,2</sup>	HP-UX 11i v2 <sup>1</sup> Microsoft Windows Server 2003, Enterprise Edition and Datacenter Edition Red Hat Enterprise Linux <sup>2,3</sup> AS 4 and Novell SUSE Linux Enterprise Server <sup>2</sup> 10 OpenVMS v8.3 <sup>1,2</sup>
<b>Maximum memory</b>	128 GB	256 GB
<b>I/O slots</b>	15	16 (32 with SEU-2 <sup>4</sup> )
<b>Internal hard disk drives</b>	4	4 (8 with SEU-2 <sup>4</sup> )
<b>Hard partitions (nPars)</b>	1–2	1–2 (1–4 with SEU-2 <sup>4</sup> )
<b>Management</b>	HP Systems Insight Manager, Management Processor	HP Systems Insight Manager, Management Processor
<b>EIA unit height</b>	10	17 (26 with SEU-2 <sup>4</sup> )
<b>HP related offerings</b>		
<b>Storage</b>	XP10000 Disk Array Enterprise Virtual Array 8000	XP12000 Disk Array Enterprise Virtual Array 8000
<b>Software</b>	HP Virtual Server Environment HP Serviceguard Storage Management Suite	HP Virtual Server Environment HP Serviceguard Storage Management Suite
<b>Services</b>	HP Critical Service HP Proactive 24 Service	HP Critical Service HP Proactive 24 Service
<b>Hardware options</b>	Instant Capacity (iCAP) processors Temporary Instant Capacity (TiCAP) for processors	Instant Capacity (iCAP) processors Temporary Instant Capacity (TiCAP) for processors

<sup>1</sup> Choice of Mission Critical, Enterprise, or Foundation Operating Environment

<sup>2</sup> Linux and OpenVMS supported only on Integrity rx7640 and rx8640 Servers with dual-core Intel Itanium 2 processors

<sup>3</sup> Support of dual-core processors planned by end of 2006

<sup>4</sup> SEU-2 = Server Expansion Unit 2

# HP Integrity servers: high-end

For enterprise-class customers requiring superior single-system high availability, leading price/performance, strong virtualization, and long-term investment protection for consolidating their demanding multi-OS applications

High-end

Updated



Updated



## HP Integrity Superdome

Scalability and virtualization ideal for enterprise consolidation

## HP Integrity Superdome

Top scalability and virtualization for larger enterprise consolidation requirements

<b>Processors supported</b>	Intel Itanium 2 processors 1.6 GHz (dual-core) with 24 MB cache 1.6 GHz (dual-core) with 18 MB cache 1.6 GHz (single-core) with 9 MB cache	Intel Itanium 2 processors 1.6 GHz (dual-core) with 24 MB cache 1.6 GHz (dual-core) with 18 MB cache 1.6 GHz (single-core) with 9 MB cache
<b>Number of processors</b>	2–32	6–64
<b>Maximum number of cores</b>	64	128
<b>Scalable processor chipset</b>	sx2000	sx2000
<b>Operating systems supported</b>	HP-UX 11i v2 <sup>1</sup> Microsoft Windows Server 2003, Enterprise Edition and Datacenter Edition Red Hat Enterprise Linux <sup>2,3</sup> AS 4 and Novell SUSE Linux Enterprise Server <sup>2,3</sup> 10 OpenVMS v8.3 <sup>1,2</sup>	HP-UX 11i v2 <sup>1</sup> Microsoft Windows Server 2003, Enterprise Edition and Datacenter Edition Red Hat Enterprise Linux <sup>2,3</sup> AS 4 and Novell SUSE Linux Enterprise Server <sup>2,3</sup> 10 OpenVMS v8.3 <sup>1,2</sup>
<b>Maximum memory</b>	512 GB	1 TB
<b>I/O slots</b>	96 (with I/O expansion)	192 (with I/O expansion)
<b>Internal hard disk drives</b>	N/A	N/A
<b>Hard partitions (nPars)</b>	1–8	1–16
<b>Management</b>	HP Systems Insight Manager	HP Systems Insight Manager
<b>EIA unit height</b>	N/A	N/A
<b>HP related offerings</b>		
<b>Storage</b>	XP12000 Disk Array Enterprise Virtual Array 8000	XP12000 Disk Array Enterprise Virtual Array 8000
<b>Software</b>	HP Virtual Server Environment HP Continentalclusters	HP Virtual Server Environment HP OpenView Operations for UNIX®
<b>Services</b>	Three predefined support service levels: <ul style="list-style-type: none"> <li>• Critical Service Solution</li> <li>• Proactive Service Solution</li> <li>• Foundation Service Solution</li> </ul>	Three predefined support service levels: <ul style="list-style-type: none"> <li>• Critical Service Solution</li> <li>• Proactive Service Solution</li> <li>• Foundation Service Solution</li> </ul>
<b>Hardware options</b>	Instant Capacity (iCAP) cells, processors, and memory Global Instant Capacity (GiCAP)	Instant Capacity (iCAP) cells, processors, and memory Global Instant Capacity (GiCAP)

<sup>1</sup> Choice of Mission Critical, Enterprise, or Foundation Operating Environment

<sup>2</sup> Linux and OpenVMS supported only on Integrity Superdome Servers with dual-core Intel Itanium 2 processors

<sup>3</sup> Support of dual-core processors planned by end of 2006

# HP Integrity server family

HP Integrity BL60p Blade Server



HP Integrity rx1620 Server



HP Integrity rx2620 Server



HP Integrity rx3600 Server



HP Integrity rx4640 Server



HP Integrity rx6600 Server



HP Integrity rx7640 Server



HP Integrity rx8640 Server



HP Integrity Superdome



HP Integrity Superdome



# HP related offerings

## Comprehensive solutions for the Integrity server platform

### HP Software

### Description

#### Virtualization

<b>HP Virtual Server Environment (VSE)</b>	Creates virtual servers that can automatically grow and shrink based on service-level objectives set for each application they host. Through tight integration with partitioning, high availability, and utility pricing, the HP VSE allows you to optimize your server utilization in real time.
HP Integrity Virtual Machines*	Improves utilization by allowing several virtual machines to share a single CPU and I/O resources. Each virtual machine runs its own guest operating system instance and offers complete software isolation.
HP Virtual Partitions (vPars)*	Improves utilization by allowing multiple HP-UX instances to share one server or hard partition. Each vPar runs its own copy of HP-UX and offers complete software isolation.
HP Integrity Essentials Capacity Advisor*	Simulates placement of application workloads to help IT administrators improve server utilization through an easy to use tool for ongoing capacity planning. Its “what if” resource modeling capabilities present multiple outcomes that let you choose the configurations that best fit your business needs.
HP Integrity Essentials Virtualization Manager*	Reduces complexity by providing unified visualization and management of physical and virtual servers. It enables you to graphically visualize and configure how your virtual resources are being used and how they map to your physical infrastructure.
HP Integrity Essentials Global Workload Manager*	Allocates server resources automatically so that the highest-priority applications get the resources they need. Designed for multi-system, multi-OS Integrity server environments, it is ideal for large, centralized IT environments that host applications for many departments.

#### Availability

<b>HP Serviceguard*</b>	Protects mission-critical applications from hardware and software failures by organizing multiple servers and/or server partitions into an enterprise cluster that delivers highly available application services to LAN-attached clients. HP Serviceguard monitors the health of each node and rapidly responds to failures to decrease or eliminate application downtime. Serviceguard can be integrated into a VSE to preserve availability in virtualized environments.
<b>HP Serviceguard Storage Management Suite</b>	Combines the power of the #1 high-availability UNIX solution, HP Serviceguard, HP VSE, and Symantec’s VERITAS Storage Foundation into a comprehensive, highly available clustering and file management solution for HP-UX 11i.
<b>HP Continentalclusters</b>	Provides the highest level of availability and business continuity for enterprise data centers and is HP’s disaster-tolerant solution for unlimited distances. This solution is built upon HP’s foundation clustering software, HP Serviceguard.
<b>HP Mirrordisk/UX</b>	Prevents data loss due to disk failures by maintaining up to three copies of data on separate disks. Applications can continue to access data even after a single disk failure, and online backups can be performed to avoid user and application disruption.
<b>HP OnlineJFS</b>	Provides online management of the Journaled File System (JFS). Using JFS rather than the UNIX file system enables high data integrity and fast file-system recovery. With the addition of HP OnlineJFS, reliable file-system administration can take place dynamically without interrupting user access to the data resources.

#### Management

<b>HP Systems Insight Manager</b>	Maximizes system uptime, reduces total cost of ownership, and provides powerful monitoring and control of your HP Integrity servers.
<b>HP Ignite-UX</b>	Enables fast deployment of HP-UX 11i for one or many servers. It provides the means for creating and reusing standard system configurations, enables replication of systems, permits post-installation customization, and is capable of operating in both interactive and unattended modes.
<b>HP OpenView GlancePlus Pak</b>	Combines real-time diagnostic and monitoring capabilities with the ability to perform historical data collection and analysis. This provides an ideal solution to manage the availability and performance of a single system while retaining valuable historical information for use with enterprise management products.
<b>HP OpenView Operations for UNIX</b>	Discovers, monitors, controls, and reports on the availability and performance of heterogeneous, large-scale IT environments. It consolidates information for all IT components: network, systems, storage, databases, and applications.

### HP Storage

### Description

<b>Modular Smart Array 1500</b>	A low-cost, high-capacity SAN array for FC networks. Ideal for smaller data centers and remote office locations, the MSA1500 provides up to 40 TB of capacity and offers the most affordable data protection and performance features in its class.
<b>Enterprise Virtual Array 4000</b>	An enhanced entry-level virtual storage array for enterprises requiring an easy-to-use, powerful midrange disk array with outstanding TCO to support business-critical processes. The EVA4000 can support up to 28 TB of capacity.
<b>Enterprise Virtual Array 6000</b>	An enhanced virtual storage array for enterprises requiring an easy-to-use, high-performing midrange disk array with outstanding TCO to support business-critical processes that can support up to 56 TB of capacity.
<b>Enterprise Virtual Array 8000</b>	An enhanced virtual storage array for enterprises requiring an easy-to-use and highest-performance midrange disk array in the EVA family, with outstanding TCO to support business-critical processes. The EVA8000 can scale up to 120 TB of capacity.
<b>XP10000 Disk Array</b>	An entry-level high-end storage system designed for mission-critical applications (where downtime is not an option), offering the highest class of reliability, availability, and performance. The XP10000 can scale up to 69 TB of capacity.
<b>XP12000 Disk Array</b>	An enterprise-class storage system that delivers state-of-the-art reliability and around-the-clock availability for mission-critical applications where downtime is not an option. The XP12000 offers the highest class of reliability, availability, performance, and capacity (scaling up to 332 TB of internal capacity) to support mission-critical processes.

\* HP recommends purchasing these software products as part of the fully integrated HP Virtual Server Environment (VSE).

# HP related offerings

## Comprehensive solutions for the Integrity server platform

HP Options	Description
<b>Instant Capacity (iCAP) cells, processors, and memory</b>	Instant Capacity eliminates over-provisioning and helps to link IT costs to revenue by deferring these costs until they are actually needed. iCAP hardware is purchased for only 25% of the price of active hardware, and does not require software or support. When the additional capacity is needed, the remaining 75% is paid and the component is activated with a simple command.
<b>Temporary Instant Capacity for processors (TiCAP)</b>	Temporary Instant Capacity (TiCAP) is like a prepaid phone card that provides 30 days of activation for iCAP processor cores. TiCAP is consumed at your own pace, and includes OS and HP VSE licenses and support. TiCAP allows you to meet short-term peaks in application demands by paying for them only when they occur.
<b>Global Instant Capacity (GiCAP)</b>	Global Instant Capacity (GiCAP) allows you to move the usage rights for hardware and licenses for software within a group of servers, effectively deactivating components in one server in order to activate them in another. GiCAP is a unique HP differentiator that offers cost-effective high availability and load balancing.
<b>10000 G2 Series rack</b>	Enterprise-class rack solution combines unparalleled structural integrity, cooling, and cable management and can be used for all HP rack-mounted server and storage products.
<b>2 Gb Fibre Channel and Gigabit Ethernet multifunction adapters</b>	The HP PCI-X 2 Gb Fibre Channel and Gigabit Ethernet multifunction adapters deliver the performance, flexibility, and high availability you need to support the connectivity requirements for server consolidation in your Adaptive Enterprise. These versatile adapters offer 2 Gb Fibre Channel I/O for mass storage connectivity and 1000Base-SX or 1000Base-T Gigabit Ethernet I/O for networking connectivity, higher port density for I/O slot-constrained systems, and higher levels of failover protection.
<b>4 Gb Fibre Channel adapters</b>	HP 4 Gb Fibre Channel adapters offer the highest level of availability and support when used in conjunction with HP StorageWorks storage arrays, tape storage systems, and Fibre Channel switches. The dual-channel and single-channel 4 Gb Fibre Channel adapters effectively double performance over previous-generation Fibre Channel adapters. In addition, the 4 Gb Fibre Channel adapters auto-negotiate 1 Gb, 2 Gb, or 4 Gb transfer rates, allowing full legacy support for existing SAN infrastructures to protect your current SAN investment.
<b>1 GB, 2 GB, or 4 GB memory upgrades</b>	HP branded memory is the easiest way to quickly enhance and improve overall system performance for demanding database and application workloads. Performance improvements increase the memory in 1 GB, 2 GB, or 4 GB increments. HP memory modules are qualified and tested to strict HP standards to help ensure consistently high levels of performance and reliability in HP servers.

HP Services	Description
<b>HP Critical Service—24x7 comprehensive hardware and software services with enhanced escalation</b>	Highest level of 24x7 mission-critical support, enhanced escalation processes, standard 6-hour call-to-repair commitment (confirm region availability), and round-the-clock system monitoring. Ideal for reducing downtime risks in mission-critical environments.
<b>HP Proactive 24—24x7 proactive hardware and software account services</b>	Complements your internal IT resources with proactive advice and account services including integrated hardware (four-hour onsite response), software, and technical advice. 24x7 coverage of the entire IT infrastructure, improving stability and operational effectiveness.
<b>HP Service Solutions with three predefined service levels for Superdome servers</b>	All three service levels provide preinstallation, deployment, and education. The Service Solutions are designed to speed and simplify Superdome implementations. <ul style="list-style-type: none"><li>• <b>Critical Service Solution</b>—highest level of 24x7 mission-critical support for environments where unplanned downtime carries serious business consequences; enhanced escalation processes, repair time commitments, and round-the-clock system monitoring</li><li>• <b>Proactive Service Solution</b>—complements your internal IT resources with proactive advice and account services including integrated hardware (four-hour onsite response), software, and technical advice—24x7 coverage</li><li>• <b>Foundation Service Solution</b>—integrated hardware and software support for mature, stable environments or non-production systems (i.e., test, development, and backup systems)</li></ul>

## A complete solution for your evolving business

Your business environment is constantly changing. To compete, you must respond quickly while delivering superior performance and consistent availability.

This can mean:

- Consolidating servers to free up valuable resources
- Bringing high-value projects online faster
- Meeting and exceeding high service-level expectations

To help you meet these imperatives, HP Integrity servers offer much more than processing power and the ability to scale up and out. All Integrity servers can run the industry's leading operating systems—including HP-UX 11i, Microsoft Windows Server 2003 for Itanium-based Systems, Linux, and OpenVMS, even on the same system. This means you can deploy new solutions quickly, reliably, and cost-effectively while consolidating demanding workloads across multiple operating environments.

We also provide leading high-availability solutions that protect your applications from unforgiving interruptions. Plus, our upgrade options protect your investment over the long term. Our robust hard, soft, and sub-core partitioning capabilities deliver improved resource utilization and allocation. And the Virtual Server Environment (VSE) integrates intelligent control with partitioning, high availability, and utility pricing, allowing you to create a pool of virtual servers that can grow or shrink based on your business priorities.

In addition, our broad and deep management solutions let you easily monitor and manage the operating systems and software that run on your servers. And you can easily redeploy Integrity servers to run a different IT solution on a different operating system as your business requirements change.

## Flexible financing for lower costs and easier purchasing

HP makes it easy on your balance sheet by offering flexible financing options through HP Financial Services. One popular option is Pay per use, a metered utility pricing solution—available with selected HP Integrity server platforms—that lets you pay for capacity as you use it. Additionally, HP Financial Services can help you transition from your existing solution to a new one by buying your unwanted technology, if it meets certain requirements, and providing you with cash toward your new purchase or lease. No matter which combination of HP solutions you need, HP Financial Services offers a full range of “acquire-to-retire” services to put those solutions within reach.

For more information, please contact your HP sales representative or visit:

[www.hp.com/go/hpfinancialservices](http://www.hp.com/go/hpfinancialservices)

## HP Factory Express: the fastest way to deployment

When you choose Factory Express, we customize your Integrity servers to your exact specifications before they leave the HP factory. This means we do the labor-intensive tasks such as software image loading, asset tagging, rack integration, and any needed server customization, configuration, or integration. The end result? Your HP Integrity server solution is ready to deploy from the moment you open the box. Listen to what other customers are saying about Factory Express:

[www.hp.com/go/factory-express](http://www.hp.com/go/factory-express)

## The right partner

We're here to help you build an infrastructure that's perfect for your business. Need help scaling up or out, or designing a data center that can change along with your business need? Look to HP. Trying to get more out of limited—and costly—floor space? We offer a complete portfolio of solutions, including small-footprint options. Power and cooling draining your budget? Our energy-saving tools and technologies can help you regulate and monitor power usage across your infrastructure. Want the broadest range of technology choice from best-in-class IT providers? Our hardware, software, and service partners deliver technology designed for HP products. The bottom line? HP is the right partner to help your business succeed.

## For more information

To learn more about how HP Integrity servers are the best choice for today's dynamic IT environments, contact your local HP sales representative or authorized HP reseller, or visit:

[www.hp.com/go/integrity](http://www.hp.com/go/integrity)

To learn more, visit [www.hp.com/go/integrity](http://www.hp.com/go/integrity)

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