

# *Enterprise Server Consolidation for UNIX Systems*



*Optimize service levels,  
resource use and flexibility*

**COMPAQ**

**NonStop™**

Can you provide the computing resources necessary to support your company's strategic business objectives — while at the same time improving the efficiency of your IT operation? The answer is yes — through enterprise server consolidation.

With the introduction of the newest members of the *Compaq AlphaServer™* GS series — coupled with the *Tru64™* UNIX® operating system 5.0 and *TruCluster™* Server 5.0 software — Compaq has significantly boosted the enterprise capabilities of its UNIX *AlphaServer* platforms. Along with the Enterprise Network Storage Architecture, seamless integration with Windows NT® and Linux®, and world-class service and support — the *Compaq AlphaServer* platform is the outstanding choice for UNIX server consolidation.

## Server Consolidation... Compelling benefits for the enterprise

### Improved service levels

Consolidation on today's newer, more powerful servers dramatically increases performance. And the cost of installing and operating high availability configurations is significantly lower. The industry-leading combination of the *Compaq AlphaServer* GS series, *Tru64* UNIX and *TruCluster* Server software, and the Enterprise Network Storage Architecture will allow you to take advantage of this trend.

### Better use of IT resources

Consolidating staff, processes, and equipment can reduce your overall management costs since it is proven that traditional server and storage deployments use only about 30% of their available resources.

Look at these benefits:

- *IDC studies have shown a 7:1 cost saving in people management resources for storage with similar gains possible for servers*
- *Consolidating your hardware resources can dramatically improve utilization of these resources — often up to 70% or 80%*
- *System utilization with the Tru64 UNIX OS is optimized with breakthrough single and multiple system options*

### Greater business flexibility

In today's era of mergers and acquisitions, new applications, and ever-changing customer needs, flexibility is essential for business survival. A server consolidation solution with the *AlphaServer* GS series and the *Tru64* UNIX OS with clustering and partitioning lets you manage and change your environment more efficiently — giving you greater flexibility to meet changing business demands.



## UNIX enterprise server consolidation opportunities

Consolidating your servers on the UNIX platform is ideal within multiple application environments such as enterprise applications, business intelligence, file and print resources, Internet/intranet servers, mail and messaging, and custom applications.

With a *Compaq AlphaServer* GS series and *Tru64 UNIX* solution, you can also take advantage of system partitioning. For example, you could run production applications in one partition — while doing development, testing, quality assurance, or batch processing in other partitions.

*Imagine the benefits of consolidating 25 or more servers running production, development, testing, and quality assurance onto four AlphaServer GS series systems. What are the bottom-line benefits? Reduced system administration efforts, higher performance, better operational flexibility and lower cost of ownership for your environment!*

### The unstoppable *AlphaServer* GS series

#### A pillar for *Compaq NonStop™* eBusiness solutions

For Internet commerce and communications, the *Compaq AlphaServer* GS Series servers with *Tru64 UNIX* provide the highest levels of proven 64-bit performance, availability, and flexibility compared to any RISC/UNIX server in the industry. With the addition of the new *Alpha* 21264 700 MHz processor, you can get the fastest performance available anywhere. Because the system architecture is modular, you can start with a system that will meet your immediate needs, then grow — without needless disruption — into fully loaded systems as your requirements change. This allows you to make the expenditure as you add capacity, instead of purchasing the entire system infrastructure at one time. The *AlphaServer* GS series servers transform high-end computing — making them a pillar for *Compaq NonStop™* eBusiness solutions.

*AlphaServer* GS servers are available in entry-level configurations with up to 8 CPUs and 2 system partitions — ranging up to an expanded configuration with up to 32 CPUs and 8 system partitions. Compared to other UNIX systems, they offer unprecedented:

- *High availability and reliability — unstoppable computing delivered through single-system availability and reliability, including future hot-swap capabilities of all system components and subsystems and through Compaq leadership clustering*
- *Lowest total cost of ownership — with reduced system management costs and overhead as well as cost-effective use of system resources*
- *Business flexibility — offers the system, storage, and configuration flexibility to support mixed operating system environments through partitioning, for resource and application consolidation*
- *Scalability — allows you to scale the system over time to meet the growing needs of multiple application consolidation... with higher performance than any other system*

### *Tru64 UNIX* — the world's best UNIX for enterprise server consolidation

The *Compaq Tru64 UNIX* OS V5.0 delivers the highest degree of performance, scalability, and availability — yet makes it easier than ever to manage and operate your environment. In fact, management is so simple that whether you deploy a single system or a cluster, the time and effort required for managing your systems and training your system administrators will be significantly reduced.

The *Tru64 UNIX OS* is the first choice in the world for demanding enterprise and Internet/Intranet applications, and the highest rated UNIX by industry analysts and users. A recent Datapro user study found *AlphaServer* systems running the *Tru64 UNIX OS* as the “outright winner” on overall satisfaction.

### Seamless integration with Windows NT

More and more, enterprise solutions need to take advantage of the cost benefits of Windows NT — while gaining the performance and reliability of UNIX. When it comes to melding Windows NT with your current environment or providing file and print services for mixed UNIX and Windows NT environments, Compaq delivers the solutions that will improve usage and simplify management.

### Clustering — for better manageability, high availability, and scalability

With *Compaq TruCluster Server V5.0* software, the cluster is the system — and is managed as a single entity rather than as multiple systems. Whether you have a cluster of two or eight nodes, *TruCluster Server* presents them as a single system to reduce administrative workload. No single point of failure configurations and logon load balancing can provide optimum service levels and system utilization.

### Partitioning for better environment flexibility

System Partitioning or Application Resource Partitioning allows you to quickly allocate system resources as needed to meet your business requirements. System Partitioning lets you run up to eight copies of the same or different operating systems in the same *AlphaServer GS* series server. For example, you could run versions 4.0F and 5.0 of the *Tru64 UNIX OS* at the same time — running production applications on one instance and development and/or testing on the other. Or you could run both *Tru64 UNIX* and *OpenVMS* operating systems concurrently. Application Resource Partitioning allows resources such as CPUs to be allocated to specific applications within a single system partition.

## Now's the time to trade in your older servers

Compaq Financial Services — Compaq's leasing and financing solutions organization — offers a complete, turnkey solution for moving to new, more powerful *Compaq AlphaServer* systems. This solution includes disposal of older systems, flexible leasing solutions for new Compaq equipment, and financing the old equipment's remaining book value.

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## Do it right the first time with Compaq Services

The key to successful server consolidation is experience. With Compaq, you can leverage our global experience to ensure that your server consolidation effort is a success from day one. Compaq gives you proven mechanisms for analyzing your current IT environment and changing the environment to meet your particular server consolidation objectives including:

- *Seminar — describes the value of Server Consolidation, explores dos and don'ts, and explains Compaq's Server Consolidation Services and process flow.*
- *Assessment — includes a workshop to explore your business drivers/interests and IT environment. Potential Server Consolidation scenarios are identified and alternatives are considered.*
- *Design and Architecture — includes the creation of a requirements document, a pilot if needed, and transition plans.*
- *Implementation — includes test and validation plans and implementation. This phase can include any of these services: Migration, Upgrade, Physical Consolidation, Backup and Recovery, and more.*

## Learn more

To learn more about Enterprise Server Consolidation through *Tru64 UNIX* on *AlphaServer GS* series systems, please contact your local Compaq Sales Office, Authorized Reseller, or call 1-800-344-4825. You can also find more information at [www.compaq.com/solutions/serverconsolidation](http://www.compaq.com/solutions/serverconsolidation)

