

Compaq AlphaServer 2100 to ES40 System Upgrade



*Exceptional performance for
growing enterprise requirements*

COMPAQ
NonStop™

Upgrade Benefits At-a-Glance

Incredibly fast processor speeds — Choose up to 667 MHz with the *AlphaServer* EV67 — 500 MHz EV6

– Up to 25 times power increase over *AlphaServer* 2100 4/275

Increased application scalability — with 4 MB or 8 MB of cache per processor for very high bandwidth data access

Lightning fast database response times — with up to 32 GB of memory

Powerful NonStop processing and data transfer — Crossbar-switch technology dynamically connects CPU, memory, and PCI

New faster 64-bit PCI Ultra2 SCSI RAID controllers — and Ultra3-Ready StorageWORKS (EV67)

Increased reliability — with ECC-protected memory, processor cache, and system data paths

Improved security — with hot-swap redundant fans and power supplies, N+1 power options, and RAID storage

Increased flexibility — for running your operating system of choice: *Compaq Tru64 UNIX*, *Compaq OpenVMS*, and Linux

Choice of three enclosures — tower, pedestal, and rack-mount

Increased peace of mind — with a new 3-year on-site warranty

Compaq builds solutions!

You bought your *AlphaServer*™ 2100 system at the right time... but the demands on your business have changed over time... and they continue to change. Perhaps the number of users has multiplied or your servers are no longer able to handle the increased workloads. And now you may be faced with the frequent increases in peak demand.

You can't help but wonder ... Have you held on to older technology too long? Are you through with trying to make "things work"? ... Or are you feeling that bigger issues are imminent?

The time to upgrade your current *AlphaServer* 2100 has never been better.

... Introducing the new *AlphaServer* ES40 with the advanced EV67 processor and a new low price on the *AlphaServer* ES40 EV6

"We are beefing up our infrastructure by adding new (Compaq) *AlphaServers*, which have proved to be among the fastest and most reliable for Web hosting applications. We believe these machines will improve our already high server runtime of 99.93%"

— *Chris Atkins*
Director, Commercial
Product Development
Mindspring



Take advantage of New 64-bit Processor technology with larger cache —

The best just got better! The latest generation Alpha™ processors, based on the new EV67 and EV6 21264 chip design, improve upon the superior performance that made Alpha famous. The four-way symmetric multiprocessing AlphaServer ES40 offers increased scalability with up to four 667 MHz Alpha 64-bit processors, each with 8 MB DDR (Dual Data Rate) cache and a maximum memory size of 32 GB. (4MB LW (Late Write) cache and 16 GB maximum memory size on EV6). New, very large 8 MB dual data rate cache doubles bandwidth speed, as well.

Gain the AlphaServer advanced crossbar-switch advantage —

When the AlphaServer 2100 from you make the upgrade to AlphaServer ES40 you not only gain processor speed and cache-based application performance over the AlphaServer 2100 — you also benefit from the advantage of crossbar-switch technology over the 2100's system bus-based technology. Utilizing crossbar-switch technology, the ES40's CPU, Memory, and PCI system elements are directly connected — allowing large data blocks to transfer between system elements using a dedicated bandwidth. Intelligent memory management and 5.2 GB of memory bandwidth allow system processors to communicate directly with system memory, without competition from other system components ...so transactions can fly.

Reap the benefits of 64-bit memory —

Operations perform hundreds of times faster on the Compaq® AlphaServer ES40 than on any other maker's mid-range servers. The reason? AlphaServer ES40's exclusive VLM64™ 64-bit memory capability addresses up to 32 GB of data at one time allowing for phenomenal performance increases. And with no waiting to access disk storage, applications zip for everyone.

Get more for less — with 64-bit PCI bus technology —

AlphaServer ES40's 64-bit PCI bus technology is not only faster than older EISA technology (still used by some servers), it is also less expensive. Six or ten 64-bit PCI slots are provided with ES40 servers that allow faster, lower-cost, industry-standard I/O devices to support improved application performance. In addition, AlphaServer ES40 EV67 includes new 64-bit PCI Ultra2 SCSI RAID controllers and Ultra3-ready StorageWORKS™.

Achieve higher availability through clustering —

Clustering increases the availability and power of your IT environment by enabling multiple independent systems to work together as a single virtual system. To be effective, the servers you employ should be able to operate in multiple popular operating systems environments. Only AlphaServer ES40 can participate in Compaq OpenVMS™ cluster systems and Compaq TruCluster™ solutions for Tru64™ UNIX systems. In addition, the PCI-based AlphaServer ES40 system also supports Linux™ as well as SCSI, Memory Channel™, and CI interconnections for a variety of cluster options.

Ideal for commercial performance — advanced enough for technical applications

The superior capabilities of the *Compaq AlphaServer ES40* — high speed, large capacity, data integrity, throughput, efficiency, availability, and scalability provide optimum performance that is ideal for commercial applications. And with the robustness for technical application performance.

So whether your enterprise applications are commercially-based requiring a high-performance database server, an Internet server, or a communications server — or are technically-based requiring advanced performance features for scientific applications, including 3D rendering, publishing prepress, and CAD, GIS, and CASE applications — **AlphaServer ES40 is the ideal choice.**

Systems Comparison Snapshot

	<i>AlphaServer 2100 4/275</i>	<i>AlphaServer ES40</i>
Processor Speed	275 MHz	500(EV6) or 667(EV67) MHz
Performance	1,020 tpm w/4 CPUs	25,900/30,730 tpm w/4 CPUs
Maximum memory	2 GB	16 or 32 GB
Maximum disk storage	68 GB	Tower: 145 GB/over 15 TB
	240 GB	Pedestal: 760 GB/over 15 TB
		Cabinet: 2.5 TB/over 15 TB
I/O support	8 EISA slots,	Model 1: Six 64-bit PCI slots
	3 32-bit PCI slots	Model 2: Ten 64-bit PCI slots

Safeguard your investment with comprehensive services— and a 3-year warranty

Your new *AlphaServer ES40* includes a standard 3-year, next day, on-site warranty, backed by Compaq, one of the most widely trusted worldwide service organizations in the business. Available around the clock in 100 countries around the world, Compaq's service and support professionals are skilled in multi-vendor environments and backed by a strong worldwide support organization. For more information on specific service offerings, please visit the Compaq Services Web site at www.compaq.com/services

Or, contact your Compaq Services Business Partner or local Compaq Services Representative.

Special trade-ins

To support your move, Compaq will apply a generous trade-in value on your current *AlphaServer 2100* system toward the purchase of a new *AlphaServer ES40* system. Contact your local Compaq Sales representative or business partner today for details — or visit our trade-in program website at www.compaq.com/tradein2000 for more details about this exciting offer.

For additional AlphaServer ES40 system information

To learn more about *AlphaServer ES40* systems from Compaq, please call 1-800-344-4825 in the United States or Canada.

For online product and ordering information, please visit our *AlphaServer* Web site at www.compaq.com/alphaserver

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