



HP PC, Server, Storage, and Networking IRG

July 2003

HP Workstation c3700 and c3750



Pure processing power. The HP Workstation c3700 and c3750 are the ultimate uniprocessor RISC-based UNIX workstations with a single PA-8700 750 MHz or PA-8700+ 875 MHz processor delivering leadership 3D graphics performance, expandability and value. Engineers and scientists working in the automotive, aerospace and EDA markets will particularly appreciate the compute power to help slash product cycle times and shorten time-to-market. Team the power of the PA-RISC processor with the capacity to support up to 8 GB RAM, 146 GB internal disk and 6 PCI card slots, and you have a workstation that breaks through traditional bottlenecks of computation and desktop 3D design.

Key features

Performance

- 750 MHz PA-8700 or the 875 MHz PA-8700+ processor delivers application performance to complete your design needs
- 2.25 MB on-chip cache enhances system performance and minimizes system latency
- 4-way set associative cache requires less data-to-cache access for instructions and data, providing higher performance
- Up to 8 GB SDRAM for higher performance with less disk access
- Up to 146 GB maximum internal storage
- Support for HP *flex*, HP *6i* pro, HP *6i* pro and Fire GLUX graphics options

Flexibility

- Support for HP-UX 11i MTOE, HP-UX 11i TCOE and 11.0
- 6 PCI slots for easy expandability
- Support for two 18, 36 and 72 GB 10K rpm and 36 GB 15K rpm Ultra2 SCSI DVD hard disk drives

Investment protection

- Binary compatibility with future PA-RISC and Intel Itanium processors protects investments in applications, data and systems
- Expansive tower with 6 industry-standard PCI slots provides the flexibility to expand

Warranty

- 3-year next-day onsite warranty, includes parts and labor and phone-in technical support on HP Workstation c3700 and c3750

For more information, visit www.hp.com/workstations

HP recommends Microsoft® Windows®
HP Professional for Business

Models and part numbers

Base system

HP c3700 base system with 750 MHz PA-RISC 8700 CPU, no memory	A72778
HP c3750 base system with 875 MHz PA-RISC 8700 CPU, no memory	A9626A

Bundles

HP c3700 base system with 750 MHz PA-RISC 8700 CPU with 2 GB RAM	A60378
HP c3750 base system with 875 MHz PA-RISC 8700+ CPU with 2 GB RAM	A9637A

Compatible options

HP <i>flex</i> (see <i>flex</i>) graphics card	A49828-001
HP <i>6i</i> pro graphics card	A1262A-001
HP <i>6i</i> pro (see <i>flex</i>) graphics card	A1299B-001
HP Fire GLUX graphics card	A7780A-001
572 MB SDRAM additional system RAM	A4992A-001
1 GB SDRAM additional system RAM	A6016A-001
18 GB DVD 10K rpm disk additional hard disk storage	A4992A-001

36 GB DVD 10K rpm disk additional hard disk storage	A603A-001
36 GB 15K rpm disk additional hard disk storage	A7208A-001
72 GB 10K rpm disk additional hard disk storage	A7207A-001
DVDROM drive	A8088A-001
Removable CD-RW drive	A78138-001
1.4 MB with PCAT interface for floppy disk drive	A3009A-001
HP P1120 21" CRT color monitor	F4819D
HP 24" CRT color monitor	A7217A
HP P930 19" CRT color monitor	P9009A
HP L1825 18.1" LCD flat-panel display monitor	F48299
HP L2025 20" LCD flat-panel monitor	F48311
Keyboard with plain 3-button mouse	A49938
Keyboard with scroll 3-button mouse	A49938-004
System power cord only	A4199A
System and monitor power cords	A4199B
OS for HP-UX 11.0 and HP-UX 11i minimal technical operating environment	S6845AA
OS for HP-UX 11i technical computing operating environment	S6822AA

For a complete list of options and part numbers, please consult the options list on page 67.

HP AlphaServer SC45

085170 www.hp.com/go/alpha



The HP AlphaServer SC45 system is a parallel supercomputer that scales up to 4096 1.0 or 1.25 GHz Alpha EV68 processors (10 TFLOPS) to deliver incredible sustained performance for large-scale applications. It is based on four-processor SMP servers, an ultra-low-latency, high-bandwidth interconnect and an integrated software package for management and application development. By fully integrating these state-of-the-art technologies, the HP AlphaServer SC45 system can exceed both the capacity and the capability requirements of the most demanding supercomputer users at a fraction of the cost of previous architectures.

Key features

Interconnect building block

- 16-port or 128-port switches deliver more than 12 Gbps of cross-section bandwidth with application latencies as low as 5 microseconds
- Fully integrated console management includes DECserver 900TM, DECub ONE and a console switch
- Fully integrated management network includes a 10/100 Ethernet switch
- Complete documentation and media

Compute building block

Consists of 5 customized AlphaServer ES45 servers, each of which include:

- 1 Alpha EV68 CPU
- 2-port Ultra SCSI storage adapter
- 10 PCI I/O slots
- 1 x 600 MB 40X IDE CD-ROM
- 1 PCI network adapter, capable of over 280 Mbps sustained bandwidth to/from the interconnect
- Tru64 UNIX v5.1a operating system

Storage building block

- Dual HSG80 RAID controllers
- 2 Fibre Channel host adapters
- Choice of 18, 36 or 72 GB disk drives
- 2 or 3 splitbus shelves, holding up to 42 disk drives
- HSG80 RAID controller software
- Advanced File System utilities software

Warranty

- 1-year on-site, 9 x 5 warranty with next-business-day response
- Optional service plans for up to 2-hour same-day response time and 24 x 7 support
- Complete portfolio of worldwide service offerings

Service and support

- Includes staging, integration and installation of the interconnect building block, compute building block(s) and storage building block(s); 90 days of consultant level, outside support is recommended to help address the planning and introduction of the server into the user's environment (full range of training courses are available at additional charge)
- Optional integration and installation on options not included in the building blocks
- Optional custom site planning, custom freight arrangements, VLS engineering team on-site installation and tailored customer configuration documentation

System software

AlphaServer SC system software v2.5 provides the utilities and libraries necessary for the operation and management of the AlphaServer SC45. Key components are:

- Cluster file system, including SCFS
- Parallel file system
- Device request dispatcher
- Cluster alias
- Transparent NFS failover
- Resource management system (job launch, access, management and administration; partition management; job execution; gang scheduling)
- LSF batch management system (batch job launch, queue management and reporting, policy-driven scheduling)
- System-wide management utilities (SysMan menu and station; SEA automated system installation; hardware error monitoring, diagnostics, remediation)
- Performance visualizer
- MPI library for parallel application development
- Shmem library for parallel application development

Development software

- HP AlphaServer SC development software v2.5 is a full suite of tools for technical software development, which complements the MPI and Shmem libraries available in system software
- Includes Fortran v5.5 for Tru64 UNIX Alpha systems, C++ v6.5 for Tru64 UNIX and developers' toolkit for Tru64 UNIX (v5.14A)

Visit www.hp.com/go/alpha-server for the latest performance information.

Models and part numbers

For ordering information, please see www.hp.com/go/alpha-server or send email to high_performance@hp.com.

Compatible options

- CPU modules, up to 5 additional Alpha EV68 (1.0 GHz, with 8 MB cache or 1.25 GHz, with 16 MB cache per system)
- Memory options from 2 GB to 32 GB per system
- 8-port and 16-port Fibre Channel switches
- 18, 36 or 72 GB Ultra3 SCSI disk drives
- HP AlphaServer OS/2K management server
- Network connectivity — Gigabit or 10/100 Ethernet
- HP AlphaServer SC expansion cabinets and doors
- Monitors and keyboards

For complete options compatibility, visit www.hp.com/go/alpha-server or see the compatibility chart on page T-14.

HP AlphaServer systems GS/SC series options compatibility

continued

Part number	Description	HP AlphaServer				
		0080	00160	00120	001380	SC40
Host bus storage adapters, back plane RAID controllers and Fibre Channel switches						
D5-K0PSA-CA, 168794-821*	Fibre Channel host bus adapter	*	*	*	*	*
D5-K0PSA-DA, 261329-821*	Fibre Channel host bus adapter	*	*	*	*	*
D5-D5G0D-AC, 258707-821*	Fibre Channel switch	*	*	*	*	*
D5-D5G0D-AD, 283056-821*	Fibre Channel switch	*	*	*	*	*
D5-D5G0E-AE, 254508-821*	Fibre Channel switch	*	*	*	*	*
D5-D5G0D-BA, 287055-821*	Fibre Channel switch	*	*	*	*	*
D5-DHGG0-BC, 286810-821*	Fibre Channel switch	*	*	*	*	*
D5-DHGG0-SA, 286809-821*	Fibre Channel switch	*	*	*	*	*
3X-K2PC-8E*	Ultra160 2-channel internal RAID controller, 128 MB cache					*
3X-K2PC-0P*	Ultra160 4-channel internal RAID controller, 256 MB cache					*
COMAB-AA	PCI-to-system area network controller					*
SN-P5007-BA	Wide-to-narrow SCSI adapter					*
Network storage routers						
3R-A3740-AA, 262653-821*	M2402 N5R, 2FC X 4 DVD ports	*	*	*	*	*
3R-A3741-AA, 262654-821*	M2402 N5R, 2FC X 4 HDD ports	*	*	*	*	*
3R-A3747-AA, 280823-821*	N1200 N5R, 1FC X 2 DVD ports	*	*	*	*	*
3R-A3935-AA, 262665-821*	a2400 N5R, 2FC X 4 DVD ports, opt. kit	*	*	*	*	*
3R-A3745-AA, 262664-821*	a2400 N5R, 2FC X 4 DVD ports, upgrade kit	*	*	*	*	*
3R-A3746-AA, 262672-821*	a1200 N5R, 1FC X 2 DVD ports, graphite	*	*	*	*	*
3R-A3871-AA, 266694-821*	a1200 N5R, 1FC X 2 DVD ports, opt.	*	*	*	*	*
External storage controllers/external RAID arrays						
D5-DV110-X0*	Enterprise Virtual Arrays, Fibre Channel	*	*	*	*	*
D5-DW02B-X0*	Enterprise Modular Arrays, esm12000	*	*	*	*	*
D5-H5C80-8K	H5C80 Fibre Channel storage array	*	*	*	*	*
D5-DW03A-X0*	RA3000 storage array					*
HVD-to-LVD converters						
3X-DW2CV-BA	1-port TU rack-mount HVD-to-LVD converter	*	*	*	*	*
3X-DW2CV-CA	2-port TU rack-mount HVD-to-LVD converter	*	*	*	*	*
Internal SCSI tape drives						
D5-TL210-XA	StorageWorks 5.25" DAT 24 (588)	*	*	*	*	*
SCSI hot plug tape drives						
3R-A2780-AA	4 mm DAT 40 Ultra2, LVD	*	*	*	*	*
3R-A2396-AA	8 mm AIT 70 Ultra2, LVD	*	*	*	*	*
3R-A2779-AA	8 mm AIT 100 Ultra2, LVD	*	*	*	*	*
3R-A3421-AA	8 mm AIT 200 Ultra2, LVD	*	*	*	*	*
Tabletop/external SCSI tape drives						
D5-TL210-08	DAT 24 GB 4 mm, narrow SE w/power cord (top gen blue)	*	*	*	*	*
157770-002	DAT 40 GB 4 mm Ultra2, LVD (carbon black)	*	*	*	*	*
216885-001	AIT 70 8 mm, DVD (carbon black)	*	*	*	*	*
157767-002	AIT 100 8 mm Ultra2, LVD (carbon black)	*	*	*	*	*
192103-002	SDT 220 (carbon black)	*	*	*	*	*
257319-001	SDT 320 tape drive (carbon black)	*	*	*	*	*
146196-822	DJ78000 40/80 GB DLT (carbon black)	*	*	*	*	*
Autoloaders and automated tape libraries						
392355-001	AIT 35 GB tabletop autoloader, 8-cartridge	*	*	*	*	*
166505-001	4 mm DAT 320 SCSI autoloader, tabletop	*	*	*	*	*
175195-821	SS2000 AIT tabletop library, 1 AIT 50 GB drive, 20 slots, DVD	*	*	*	*	*
175195-822	SS2000 AIT tabletop library, 2 AIT 50 GB drives, 20 slots, DVD	*	*	*	*	*
175196-821	SS2000 AIT rack-mount library, 1 AIT 50 GB drive, 20 slots, DVD	*	*	*	*	*
175196-822	SS2000 AIT rack-mount library, 2 AIT 50 GB drives, 20 slots, DVD	*	*	*	*	*
280349-001	AIT 35 GB rack-mount autoloader, 8-cartridge	*	*	*	*	*
284930-001	AIT rail kit for rack-mount autoloader	*	*	*	*	*

* Requires 3X-K2PC-AA adapter



HP supplies products

supplies irg

July 1, 2003 – October 31, 2003

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