



**hp visualize
c3600
UNIX
workstation**



data sheet

Your ultimate performance machine

Pure processing power. The visualize c3600 draws its speed from the pa-8600 processor running at 552MHz. Team the power of the pa-8600 with the c3600's capacity to support up to 8GB RAM, 36GB internal disk, and six PCI cards, and you have a workstation that breaks through traditional bottle-necks of computation and desktop 3D design. Complimented by robust system architecture with fast memory and disk technologies, the c3600 is masterfully crafted and optimized to maximize bandwidth, minimize system latency, and boost performance.

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performance

feature	benefit	advantage
PA-8600 RISC-processor running at 552MHz	Enables you to complete designs faster than any other desktop today	Supplies 38% more clock-speed than hp's award-winning pa-8500 processor
1.5MB on-chip cache	Enhances system performance with greater application speed and throughput	Minimizes system latency with the industry's largest on-chip cache
Four-way set associative cache	Requires less disk-to-cache access for instructions and data, providing higher performance	Decreases the miss rate of direct mapped cache
Maximum main memory up to 2GB Synchronous DRAM	Supplies higher application performance with less disk access; supports interactive work with large 3D models	Delivers the largest RAM capacity available on any workstation today

graphics

hp visualize- <i>fxe</i> graphics subsystem	Enables universal access to all types of data across diverse, cross-functional teams	Provides full-featured, 3D capability across all hp workstation platforms
hp visualize- <i>fx^epro</i> graphics subsystem with 4 hp pa-risc geometry engines	Supports faster visualization of mid-size mechanical assemblies	Delivers the industry's best mid-range 3D graphics performance for mechanical design work
hp visualize- <i>fx¹⁰pro</i> graphics subsystems with 6 hp pa-risc geometry engines	Supports faster visualization and interactive work with the largest 3D models	Delivers the world's fastest 3D graphics performance for mechanical design work.

integration

rack mountable	Saves space, particularly when deployed in your systems operations room	Supports on-side configuration as well as upright, desktop placement
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investment protection

Expansive tower with 6 industry-standard PCI slots	Gives you the flexibility to expand your system	Provides more capacity for PCI I/O cards
Binary compatibility with future pa-risc and IA-64 processors	Protects your investment in applications, data and systems	Ensures smooth transition to hp's next-generation high-performance systems

c3600 technical specifications

central processor

Type	PA-8600
Clock frequency	552MHz
Number of processors	1

primary cache (on chip)

Instruction cache	0.5MB
Data cache	1.0MB

performance

SPECint95	42.1
SPECfp95	64.0
SPECint_rate95	379
SPECfp_rate95	576
SPECint2000	384 (preliminary)
SPECfp2000	399 (preliminary)

main memory

Bus bandwidth	2GB/sec
RAM type	120MHz SDRAM
Capacity	512MB-8GB
Memory slots	8

PCI slots (6 total)

PCI 1X (half card)	2 slots
PCI 2X (full size)	3 slots
PCI 4X (full size)	1 slot

internal storage devices

Ultra 2 SCSI LVD (80 pin SCA connector)	
2 drives maximum	
Hard-disk drive	9GB (7200 rpm)
Hard-disk drive	18GB (10,000 rpm)
Hard-disk drive	36GB (10,000 rpm)

removable media

CD-ROM ATAPI interface	32X (internal)
3.5 in PC floppy drive	1.44MB (internal)
or	
DDS-3 tape drive	12-24GB (external)

external storage

NSE SCSI	
50-pin high-density	1 port - up to 7 devices
Ultra2 SCSI LVD	
68-pin in high-density	1 port - up to 13 devices

networking interface

RJ45	10/100 Base-Tx Ethernet
LAN Data Rate	10/100 Mbits/sec

other I/O

Serial interface 9-pin DIN	2 ports
Parallel interface 25-pin DIN	1 port
USB (Universal Serial Bus)	2 ports
Series A	(keyboard and mouse only)

audio

Type	Integrated, CD-quality stereo
Inputs	Stereo line-in, MIC-in
Outputs	Stereo line-out, internal speaker, headphone

monitor resolution with *fx-pro* graphics

18.1" (18.1" viewable)	1280x1024 res LCD flat panel display
19" (18" viewable)	1600x1200 res. Flat FD Trinitron CRT display
21" (19.8" viewable)	1800x1440 res flat FD Trinitron CRT display
24" (22.5" viewable)	1920x1200 res wide aspect Trinitron CRT display

minimum operating system supported

hp-ux 11.00 ACE9911
hp-ux 10.20 ACE9912

environmental specifications

Altitude	
Operating	0-3000m (0-10,000 ft)
Non-operating	0-4500m (0-15,000 ft)
Temperature	
Operating	5 to +40 degrees C
Non-operating	-40 to +70 degrees C
Humidity	
Operating	15 to 80% (non condensing)
Vibration	
Operating random	0.21 G rms, 5-500Hz
Swept sine survival	0.5 G peak, 5-500Hz
Random survival	2.09 G rms, 5-500Hz
Safety	UL1950, CUL to CSA C22.2#950, and TUV GS Mark to EN60950/IEC950
Emissions	FCC and CISPR Class B and VCCI Class B

physical dimensions

Height	44.5 cm (17.5 in)
Width	22.9 cm (9.0 in)
Depth	49.5 cm (25.8 in)

physical dimensions with rack kit*

Height	6 EIA units
Width	45.1 cm (17.75 in) between columns
Depth	66.5 cm (25.8 in)

*system racks on its side

net weight

Minimum configuration	20.9 Kg (45.9 lbs.)
Fully loaded	25.4 Kg (55.8 lbs.)

power requirements

Input current	7.4amps RMS max @ 100-120V
	3.8 amps RMS max @ 220-240V
Line frequency	50-60Hz
Maximum power input	805 watts @120 VAC, 60Hz

visualize graphics	visualize- <i>fxe</i>	visualize- <i>fx⁶pro</i>	visualize- <i>fx¹⁰pro</i>
Graphics boards	4 max	1 max	1 max
Max resolutions*	1600x1200	1600x1200	1600x1200
Image planes/overlay	24/24DB**	24/24DB	24/24DB
Planes	8 overlay	8 overlay	8 overlay
Z-buffer	24-bit HW	24-bit HW	24-bit HW
Stencil planes	4-bit HW	4-bit HW	4-bit HW
Alpha planes	SW	8/8DB HW	8/8DB HW
Texture memory	Std. 3.5MB	48MB***	48MB***
Color maps			
Image planes	2 image	2 image	2 image
Overlay planes	2 overlay	2 overlay	2 overlay

*with full features set and 75Mz refresh

**DB=double-buffered

***at 1280x1024 resolution

The **hp** c3600—helping you to invent, design and deliver.

For the latest information about **hp** visualize workstation products go to: <http://www.hp.com/visualize>

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