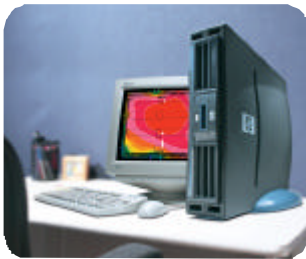# hp workstation j6700

data sheet

largest memory, smallest package available

The HP workstation j6700 delivers industry leading performance, unparalleled memory and compute density. It will ensure that you complete your designs and simulations faster than any other UNIX two way workstation. Whether used as a deskside configuration optimized for your office environment or a racked solution, the hp j6700's performance and reliability will satisfy the most demanding user.

When you need ultimate performance for today's toughest designs and simulations with the capacity to handle tomorrow's even bigger workloads, look to the HP workstation j6700. With HP and the HP workstation j6700, you have new ways to invent the future.

hp workstation j6700	feature	benefit	advantage
performance	2 PA-8700 RISC processors running at 750MHz	puts more compute and visualization power behind EDA and CAE applications; provides higher application performance at a lower price	holds the fastest microprocessor on the market
	16GB synchronous DRAM capacity	supports analysis of larger models	delivers higher application performance with less disk access; largest memory available
	2.25MB on-chip cache	enhances system performance with greater application speed and throughput; lowers cost	minimizes system latency
	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
	64x64 operating system and microprocessor	improves large processing performance, such as full-chip simulation, logic synthesis and design rule checking	furnishes large address spaces
	1.9GB/s I/O peak performance	delivers excellent file server performance	provides fastest data transfer to I/O
integration	efficient rack mountable design	saves space, particularly when used in your compute room; up to 20 systems per 2m rack	flexible configurations increase system versatility
graphics	hp *fxe* graphics	enables universal access to all types of data across diverse, cross-functional teams	provides full-featured, 3D capability across all HP workstation platforms
	hp *fx^{10}pro* graphics	greater user productivity and performance in mechanical applications	delivers the world's fastest 3D graphics performance for mechanical design and analysis work
investment protection	binary compatibility with future PA-RISC and Itanium® processors	protects your investment in applications, data and systems	ensures smooth transition to HP's next-generation, high performance systems

hp workstation j6700 technical specifications

central processor
type	PA-8700
clock frequency	750MHz
number of processors	2

primary cache (on chip)
instruction cache	0.75MB
data cache	1.5MB
total	2.25MB

performance
HP workstation performance results can be found at:
http://www.hp.com/workstations/products/unix/performance.html

main memory
bus bandwidth	1.9GB/sec
RAM type	120MHz SDRAM
capacity	1GB-16GB
memory slots	16

PCI slots (3 total)
PCI 4X (full size)	3 slots 4x slots
	64-bit 3.3 volt 66MHz
	20 watts per slot

internal storage devices
Ultra 2 SCSI LVD	2 maximum hot pluggable drives

removable media
CD-ROM ATAPI interface	1 (internal)

external storage
Ultra2 SCSI LVD	13 devices
NSE SCSI	7 devices

networking interface
RJ45	10/100 BaseT
LAN data rate	10/100Mbits/sec

other I/O
USB Series A	2 ports (keyboard and mouse only)
serial interface	2 ports
NSE SCSI	1 port
Ultra2 SCSI LVD	1 port

audio
type	integrated, CD-quality stereo
inputs	stereo line-in, MIC-in
outputs	stereo line-out, internal speaker with frequency range of 25-20,000Hz, internal CD-ROM audio, headphone

monitor
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" (27.5" viewable)	1920x1200 res flat FD Trinitron CRT display

operating systems supported
HP-UX 11i TCOE (technical computing operating environment)****
HP-UX 11i MTOE (minimal technical operating environment)****
HP-UX 11.00 ACE9911

environmental specifications
altitude	
operating	0-3000m (0-10,000ft)
non-operating	0-4500m (0-15,000ft)
temperature	
operating	0 - +35 degrees C
non-operating	-40 - +70 degrees C
humidity	
operating	15-80% (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	49.5 cm (19.5 in)
width	13.7 cm (5.4 in)
depth	65.5 cm (25.8 in)

physical dimensions with rack kit
height	8.6 cm (3.4 in)
width	48.3 cm (19.0 in)
depth	62.2 cm (24.5 in)
rack orientation	Horizontal

net weight
minimum configuration	18.2Kg (40 lbs.)
fully loaded	21.8Kg (48 lbs.)

power requirements
input current	amps RMS max @ 100-120V amps RMS max @ 220-240V
line frequency	50-60Hz
maximum power input	watts*

*maximum power--configuration will vary

hp graphics

	hp *fxe (rev b)*	hp *fx10 pro*
graphics boards	3 max	2 max
max resolutions*	1600x1200	1920x1200
image planes/overlay	24/24DB**	24/24DB**
planes	8 overlay	8 overlay
z-buffer	24-bit HW	24-bit HW
stencil planes	4-bit HW	4-bit HW
alpha planes	SW	8/8DB HW
texture memory	Std. 9.5MB	Std. 110MB***
color maps		
image planes	2 image	2 image
overlay planes	2 overlay	2 overlay

The HP j6700 workstation -- invent the future

For the latest information about HP workstation products:
http://www.hp.com/workstations

*with full features set and 75Mz refresh
**DB=double buffered
***at 1280x1024 resolution
****available late Q4 2001