hp j6000 UNIX workstation

data sheet

largest memory, smallest package available

The HP workstation j6000 with UNIX® provides the capacity to deliver on your toughest designs and simulations. With industry leading performance, the HP j6000 gives EDA IC designers the large memory capacity they need to handle their ever-increasing data sets. MCAE engineers will cut design cycle time running compute intensive mechanical engineering applications.

Whether as a deskside configuration optimized for your office environment or a racked solution, the HP workstation j6000's performance and reliability will satisfy the most demanding engineer.

hp workstation j6000	feature	benefit	advantage
performance	2 PA-8600 RISC processors running at 552MHz	puts more compute and visualization power behind EDA and MCAE 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; largest memory available
	1.5MB on-chip cache	enhances system performance with greater application speed and throughput; lowers cost	highly integrated microprocessor design 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 visualize–*fxe* graphics accelerator	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–fx^{10}*pro* graphics accelerator	supports faster visualization and interactive work with large 3D models	delivers the world's fastest 3D graphics performance for mechanical design and analysis work
investment protection	binary compatibility with future PA-RISC and Intel® Itanium™ processors	protects your investment in applications, data and systems	ensures smooth transition to HP's next-generation, high performance systems

hp workstation j6000 technical specifications

central processor	
type	PA-8600
clock frequency	552MHz
number of processors	2
primary cache (on chip)	
total cache	1.5MB
instruction	0.5MB
data	1.0MB
performance	
HPworkstation 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	3 slots 1 slot: 256MB/s 2 slots: 500MB/s 64-bit 3.3 volt 66MHz 20 watts per slot
internal storage devices	
Ultra 2 SCSI LVD	80 pin SCA connector 2 drives maximum (hot pluggable) 18GB (10K RPM) 36GB (10K RPM) 36GB (15K RPM) 73GB (10K RPM)
removable media	
CD-ROM or CD-RW*	1 internal
*HP-UX 11.0 and higher	
external storage	
Ultra2 SCSI LVD	1 shared port – 13 devices
NSE SCSI	1 shared port – 7 devices
networking interface	
integrated	10/100 Base-Tx
LAN data rate	10/100 Mbits/sec
other I/O	
USB Series A	2 ports (keyboard and mouse only)
serial interface	2 ports
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)	1600x1200 res flat FD Trinitron CRT display
24" (22.5" viewable)`	1920x1200 res flat FD Triniton CRT display
operating systems supported	
hp-ux 11i TCOE (Technical Computing Operating Environment)	
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	0 to +35 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 A and VCCI Class A
physical dimensions	
height	49.5cm (19.5 inches)
width	13.7cm (5.4 inches)
depth	65.5cm (25.8 inches)
physical dimensions with rack kit	
height	2 EIA units
width	48.3cm (19.0 inches)
depth	62.2cm (24.5 inches)
net weight	
minimum configuration	18.2kg (40 lbs.)
fully loaded	21.8kg (48 lbs.)
power requirements	
input current	6 amps RMS max @ 100-120V 3 amps RMS max @ 220-240V
line frequency	50-60Hz
maximum power input	600 watts*

*maximum power – configuration will vary

hp graphics	**hp fxe**	**hp fx^{10} pro**
graphics cards	3 max	2 max
max resolutions*	1600x1200	1600x1200
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
Aapha 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

* with full feature set and 75Mz refresh
** DB=double buffered
*** at 1280x1024 resolution

The hp workstation j6000 – power to invent in real time

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

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