hp invent ®

hp visualize j6000 UNIX workstation or server

data sheet

Largest memory, smallest package available.

The **hp** j6000 provides the capacity to deliver on your toughest designs and simulations. With industry leading performance, the 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, a workstation or a server, the **hp** j6000's performance and reliability will satisfy the most demanding engineer.

hp visualize j6000 UNIX workstation or server	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; can be deployed as a work-station or a server
	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
	2GB/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 systems operations 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 MDA work
investment protection	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

j6000 technical specifications

central processor

Type	PA-8600
Clock frequency	552MHz
Number of processors	2

primary cache (on chip)

Instruction cache	0.5MB
Data cache	1.0MB

performance

SPECint95	42.6 preliminary
SPECfp95	62.7 preliminary
SPECint_rate95	758 preliminary
SPECfp_rate95	847 preliminary
SPECint2000	387 preliminary
SPECfp2000	390 preliminary

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
	64-bit 3.3 volt 66MHz
	20 watts per slot

internal storage devices

Ultra 2 SCSI LVD	10K rpm
18GB LP hard disk drive	2 maximum hot pluggable drives*
36GB LP hard disk drive	2 maximum hot pluggable drives*

*Hot pluggable (requires **hp** mirrordisk/ux)

removable media

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

external storage

Ultra2 SCSI LVD	13 devices
NSE SCSI	7 devices

networking interface

LAN data rate	10/100Mbits/sec 1 port
Serial interface	2 ports
NSE SCSI	1 port
Wide Ultra2 SCSI LVD	1 port

other I/O

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 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" (22.5" viewable)	1920x1200 res wide aspect Trinitron CRT display

operating system

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 +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 A and VCCI Class A

physical dimensions

Height desk side	49.5 cm (19.5 in)
Width desk side	13.7 cm (5.4 in)
Depth desk side	65.5 cm (25.8 in)
Height with rack kit	8.6 cm (3.4 in)
Width with rack kit	48.3 cm (19.0 in)
Depth with rack kit	62.2 cm (24.5 in)
Rack	Horizontal orientation

net weight

Minimum configuration	18.2 Kg (40 lbs.)
Fully loaded	21.8 Kg (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.

visualize graphics	visualize–*fxe*	visualize–*fx*[10]*pro*
Graphics boards	3 max	1 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. 3.5MB	Std. 110MB
Color maps		
Image planes	2 image	2 image
Overlay planes	2 overlay	2 overlay

*24/24DB assumes 1280x1024 resolution

*The **hp** j6000–helping you to invent, design and deliver.*

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