

hp visualize b2000 UNIX workstation





Your complete solution, right out of the box

The b2000 is the ideal combination of price and power. It features hp's award-winning pa-8500 processor, running at a 400MHz clock rate. Incorporating numerous breakthroughs in pa-risc processor design, the industry's highest total on-chip cache of 1.5MB, maximized bandwidths, and state-of-the-art cooling technology, the b2000 is a completely optimized, purely balanced system for workstation or server tasks.

hp visualize b2000 UNIX workstation	feature	benefit	advantage	
performance	PA-8500 RISC-processor running at 400MHz	Puts more compute and visualization power behind EDA, mechanical design and other applications	Gives you the power of the chip that won the "Best RISC Processor" award (Microprocessor Reports Editor's Choice)	
	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	
	Maximum main memory up to 2GB Synchronous DRAM	Delivers higher application performance with less disk access	Supports interactive work with complex 2D and entry 3D models	
	4 industry-standard PCI slots	Provides more capability for complex applications	Provides higher capability for graphics cards and other PCI I/O cards	
	HP visualize-fxe graphics accelerator integrated on the system motherboard	Enables universal access to all types of data across diverse, cross-functional teams	Provides full-featured, 3D capability across all hp workstation platforms	
	Optional visualize <i>fx⁵pro</i> graphics subsystem	Supports faster visualization or mid-size mechanical assembles	Delivers the industry's best mid-range 3D graphics performance for mechanical design work	
integration	Rack mountable	Saves space, particularly for customers needing to maximize real estate	Supports on-side configuration as well as upright, desktop placement	
investment protection	Expansive mini-tower with 4 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	
	Full-featured base configuration	Provides for a long, low maintenance life in embedded systems, OEM, and customer care platforms	Offers a robust, common feature-set that's fully functioning	

b2000 technical specifications

central processor	_	minimum operating system	s supported		
Type	PA-8500	hp-ux 11.00 ACE9911			
Clock frequency	400MHz	hp-ux 10.20 ACE9912			
Number of processors	1				
		environmental specification	ns		
primary cache (on chip) Instruction cache	0.5MB	Altitude	0.3000n	n (0-10,000 ft)	
Data cache	1.0MB	Operating Non-operating		n (0-15,000 ft)	
Data Cache	1.0MB	Temperature	0-45001	11 (0-15,000 11)	
performance		Operating	5 to +35	degrees C	
SPECint95	31.8	Non-operating		70 degrees C	
SPECfp95	52.4	Humidity			
SPECint_rate95	286	Operating	15 to 80	15 to 80% (non condensing)	
SPECfp_rate95	472	Vibration			
SPECint2000	285 (preliminary)	Operating random			
SPECfp2000	325 (preliminary)	Swept sine survival		eak, 5-500Hz	
		Random survival Safety		rms, 5-500Hz	
main memory			UL1950, CUL to CSA C22.2#950, and TUV GS		
Bus bandwidth	1.9GB/sec 120MHz SDRAM		Mark to EN60950/IEC950		
RAM type Capacity	256MB-4GB	Emissions FCC and CISPR Class B			
Memory slots	256MB-4GB Emissions 4			and VCCI Class B	
onory stoto	·				
PCI slots (4 total)		physical dimensions			
PCI 1X (half card)	2 slots	Height	44.5 cm	n (17.5 in)	
PCI 2X (full size)	2 slots	Width		(9.0 in)	
		Depth 49.5 cm (25.8 in)			
internal storage devices		physical dimensions with r			
Ultra 2 SCSI LVD (80 pin SCA o	connector)	•	Height 6 EIA units		
2 drives maximum	000 (40 000)	Width		n (17.75 in)	
Hard-disk drive	9GB (10,000 rpm)	Danth		en columns	
	18GB (10,000 rpm) 36GB (10,000 rpm)	Depth *system racks on its side	66.5 CIT	n (25.8 in)	
	30GB (10,000 1pill)	system racks on its side			
removable media	_	net weight			
CD-ROM ATAPI interface			18.6 Kg (41.0 lbs.)		
3.5 in PC floppy drive or	1.44MB (internal)	Minimum configuration 18.6 Kg (41.0 lbs.) Fully loaded 21.4 Kg (47.6 lbs.)			
external storage		power requirements			
NSE SCSI		Input current	8 amns	RMS max	
50-pin high-density	available via PCI card	@ 100-120V			
Ultra2 SCSI LVD		3.5 amps RMS max			
68-pin in high-density	available via PCI card	@ 220-240V			
		Line frequency 50-60Hz			
networking interface		Maximum power input	dimum power input 620 watts @120 VAC, 60Hz		
RJ45	10/100 Base-Tx Ethernet	 		. , ,	
LAN Data Rate	10/100 Mbits/sec	visualize graphics	visualize-fxe	visualize– <i>fx</i> ⁵ <i>pro</i>	
other I/O		Graphics boards	3 max	1 max	
	2 ports	Max resolutions Image planes/overlay	1600x1200 24/24DB	1600x1200* 24/24DB	
Serial interface 9-pin DIN Parallel interface 25-pin DIN	2 ports 1 port	Planes	8 overlay	8 overlay	
USB (Universal Serial Bus)	2 ports	Z-buffer	24-bit HW	24-bit HW	
Series A	(keyboard and mouse only)	Stencil planes	4-bit HW	4-bit HW	
3000	(no) according to the control of the	Alpha planes	SW	8/8DB HW	
audio		Texture memory	Std. 3.5MB	48MB**	
Type	Integrated, CD-quality stereo	Color maps			
Inputs	Stereo line-in, MIC-in	lmagė planes	2 image	2 image	
Outputs	Stereo line-out, internal	Overlay planes	2 overlay	2 overlay	
	speaker, headphone	· · · · · · · · · · · · · · · · · · ·			
monitor recolution with for me	anhioo	**at 1280 x 1024 resolution			
monitor resolution with fx-pro gra					
18.1" (18.1" viewable)	1280x1024 res LCD flat				
19" (18" viewable)	panel display 1280x1024 res. Flat FD				
19 (10 viewable)	Trinitron CRT display	The hp b2000–helping yo	u to invent, desig	ın and deliver.	
21" (19.8" viewable)	1280x1024 res flat FD	Ear the letest information	about hr visus!!-	o workatation	
_: (10.0 violed)	Trinitron CRT display	For the latest information about hp visualize workstation products go to: http://www.hp.com/visualize			
24" (22.5" viewable)	1600x1024 res wide aspect	products go to. http://wi		41120	
,	Trinitron CRT display		Screen image	courtesy of Unigraphics	
		UNIX is a registered trade			

Screen image courtesy of Unigraphics.
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Printed in the USA
Revised July 12, 2000
5968-8471E