



hp workstation  
i2000



data sheet

**the first of a new generation**

The HP workstation i2000 is the first workstation of a new era of computing based on the Itanium™ processor family architecture, co-invented by Intel® and HP. This architecture will set the pervasive 64-bit standard, and will eclipse RISC architectures in the next few years. Today, the HP workstation i2000 is already delivering leadership 64-bit floating point performance, which is outstanding for any first generation of a new architecture.

No other architecture in history has been introduced with such a wide variety of applications ported to three operating systems. These key 64-bit operating system environments are included with your HP workstation i2000; HP-UX 11i version 1.5, Microsoft® Windows® XP 64-bit Edition, and Red Hat® Linux Release 7.1, allowing you to jumpstart your productivity in today's heterogeneous operating environments.

The HP workstation i2000 is available in two configurations. Our dual processing high performance model is ideal for the toughest problems in Computer Aided Engineering (CAE), Life Sciences, secure web serving, and will also perform well across a wide variety of applications, including Mechanical Computer Aided Design (MCAD) and Digital Content Creation (DCC). Our economically priced uniprocessor model is perfect for application porting and development. Software ported to this first generation will have full binary compatibility with next generation Itanium systems. Ignite Itanium performance today, with the HP workstation i2000.

hp workstation i2000	features	benefits	advantages
<b>performance</b>	1 or 2 Intel® Itanium® processors	excels at floating point performance	powerful floating point processing particularly suits CAE, offering performance or price/performance flexibility
	hardware acceleration for encryption and decryption, plus HP-UX cryptography libraries	excels in encrypted web serving	leadership performance for secure e-commerce
<b>flexibility</b>	two configurations: <ul style="list-style-type: none"> <li>• 1-way 733MHz processor, 1GB RAM</li> <li>• 2-way 800MHz processors, 2GB RAM</li> </ul>	choice of single processor or dual processor performance	configure for your needs: <ul style="list-style-type: none"> <li>• 1-way system for application porting and development</li> <li>• 2-way system for maximum performance for early adopters</li> </ul>
	native execution environment with HP-UX 11i v1.5 and Object Code Translation	PA-RISC binaries run natively	easy transition of HP-UX applications to Itanium, no recompiling necessary
	three operating systems: <ul style="list-style-type: none"> <li>• HP-UX 11i v1.5</li> <li>• Microsoft® Windows® XP 64-bit Edition</li> <li>• Red Hat® Linux® Release 7.1</li> </ul>	Delivering the best operating systems to suit your needs	OS changes do not require hardware changes; it's a safe hardware purchase
	may be clustered to form compute farms with Linux and HP-UX	allows computation of the largest intensive data sets in CAE, life sciences, and other markets	faster compute times can mean quicker time-to-market

hp workstation i2000	features	benefits	advantages
leadership graphics	NVIDIA® Quadro2 Pro™	industry-standard 2D and 3D card for medium and large sets in the MCAD and DCC markets (accelerated 3D on Windows only)	excellent mid-range performance in these markets under Windows XP 64-bit Edition
investment protection	HP's strong partnerships with Independent Software Vendors (ISVs)	HP works closely with selected ISVs on porting and optimisation programs for HP-UX, Windows, and Linux	faster throughput, better response times, next generation compatibility for tuned applications
	HP Itanium consulting services	optimise code quickly; learn how to develop faster code with HP, the Itanium co-inventors	spend less time porting, tuning, getting your environment optimised on Itanium
	investment protection program	financial incentives when the next generation Itanium processors become available	get rewarded for your vision, protect your investment

## technical specifications

central processor	type clock frequency number of processors	Intel Itanium 733 or 800MHz 1 or 2
cache	L1: 16KB code, 16KB data L2: 96KB L3: 2MB (high speed off chip)	
performance	SPECfp2000: 658* (preliminary) SPECint2000: 400* (preliminary)	
	hp workstation i2000 performance results can be found at: <a href="http://www.hp.com/workstations/products/itanium/performance.html">http://www.hp.com/workstations/products/itanium/performance.html</a>	
	* Peak results for 2-way 800MHz, 2MB cache, and current for May 2001 — Itanium performance will continue to improve as compilers mature	
main memory	front side bus bus bandwidth RAM type capacity memory slots	266 MHz front side bus 4.2GB/sec peak SDRAM 1GB – 4GB supported by HP 16
operating system	HP-UX 11i v1.5 (media included) Windows® XP 64-bit Edition (pre-loaded) Red Hat Linux Release 7.1 (media included)	
expansion slots (8 total)	PCI-4X PCI-2X AGP	5 slots full length 2 slots full length 1*
	* Supporting AGP-1X, 3X, 4X, or AGPpro-110	
internal storage devices and bays	Ultra3 SCSI LVD disk (5 bays) 3.5 inch removeable media bays 5.25 inch removeable media bays	1 18GB (10,000 rpm) 1 2

## technical specifications (continued)

<b>external storage</b>	interface external connectors	Ultra160 SCSI LVD 2 68-pin LVD/SE connectors
<b>removable media</b>	DVD ROM SuperDisk LS-120/240 Drive	1 1
<b>networking (integrated)</b>	networking stand LAN data rate	10/100 BaseT 10/100Mbps/sec
<b>built-in I/O</b>	USB Series A PS2 serial interface	4 ports 2 ports 1 port
<b>audio</b>	type	stereo
<b>monitors (available)</b>	18" Flat Panel LCD 19" Flat Screen CRT 21" Flat Screen CRT	
<b>environmental specifications</b>		
temperature	operating non-operating	+10°C to +40°C (+50°F to +104°F) -40°C to +70°C (-40°F to +158 °F)
<b>physical dimensions</b>	height width depth	43.9 cm (17.3 in) 25.1 cm (9.9 in) 59.6 cm (23.5 in)
<b>net weight</b>	minimum configuration fully loaded	38.1Kg (84 lbs) 50.3Kg (89 lbs)
<b>power requirements</b>	input current line frequency maximum power input  * Maximum power – configuration will vary	7.5 amps RMS max @ 100-120V 3.75 amps RMS max @ 220-240V 50Hz to 60Hz 750 watts*
<b>professional graphics</b>	NVIDIA Quadro2 Pro*  * Microsoft Windows XP 64-bit Edition Red Hat Linux release 7.1 HP-UX 11i v1.5	single, integrated raster and geometry engine, 64MB unified DDR graphics memory  – accelerated 3D graphics support – 3D driver available from NVIDIA – remote 3D graphics only

For more information, call your local Hewlett-Packard sales office or your nearest HP authorised dealer:

#### hp customer information center

Australia	HP Online 132347 ACN 004 394 763
China	+86 10 6564 5858
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Australia	+61 3 8877 8000
China	+86 10 6564 5959
Hong Kong	+852 800 96 7729
India	+91 11 682 6035
Indonesia	+62 21 350 3408
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Taiwan	+886 2 2717 0055
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