

# HP Workstation zx6000



The HP Workstation zx6000 holds the price / performance and floating-point performance record, and the bar is about to be set even higher. The latest Intel® Itanium® 2 6M processor further improves performance up to one and a half times. It can address up to 24 GB of memory via a fast, low-latency memory subsystem. The HP zx6000 is available with a full range of 2D and 3D graphics cards for the most demanding visualization requirements. In its desktower configuration, the HP zx6000 is perfect for computer-aided engineering (CAE) pre- and post-processing, solvers, mechanical computer-aided design (MCAD), and visualization and image analysis. It is also an excellent cluster node for environments where you need high-performance visualization, or you require a compute node that can later be redeployed to the desktop.

## Features

- **1.3 or 1.5 GHz Intel Itanium 2 processors with up to 6 MB of L3 cache:** Up to 50% faster performance over the previous Itanium 2 processor generation, which set new floating-point and integer performance records
- **High bandwidth, low latency HP zx1 Chipset:** 6.4 GB/s of front side bus bandwidth to the processor, 8.5 GB/s of memory bandwidth combined with less than 80 ns of open page memory system latency, and 3.3 GB/s of I/O bandwidth via independent PCI-X buses offers a high-bandwidth, low-latency system architecture that is well-balanced, ensuring that the data is available when it is needed, unleashing the power of Intel Itanium 2 processors by lowering memory latencies and increasing memory and I/O subsystem scalability
- **Easily redeployable, from an elegant desktop tower design to a 2U racked workstation:** Select the desktower option for a powerful workstation that sets new standards for desktop performance and scalability, or alternatively fit 20 ultra-performing graphics cluster nodes into a 2-meter rack employing remote management capabilities and fast interconnects
- **Choice of three 64-bit operating systems:** HP-UX 11i v2, Microsoft® Windows® XP 64-bit Edition Version 2003, or Red Hat Linux® Advanced Workstation 2.1, each offering 32-bit backward compatibility to allow a both a smooth migration and improved longevity of your investment; work with your current code and binaries with our backward-compatibility options or recompile your applications to maximize performance
- **Able to directly address up to 24 GB of DDR memory:** Enables you to open massive multi-million part assemblies and models in the main memory, or achieve inexpensive large memory configurations
- **Professional 2D & 3D graphics:** Industry standard graphics from leading vendors ensures the most accurate, high performance display of your models and sets with OpenGL graphics drivers
- **Up to 438 GB of SCSI storage:** Choose from three internal Ultra320 SCSI drives at either high-speed and high-capacity 10,000 rpm SCSI (146 GB maximum storage per drive) or extreme performance 15,000 rpm SCSI (73 GB maximum storage per drive)

Stylish looks, ferocious performance



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## Specifications

<b>Processor(s)</b>	1 or 2 Intel Itanium 2 processors 1.3 GHz with 3 MB L3 cache 1 or 2 Intel Itanium 2 processors 1.5 GHz with 6 MB L3 cache
<b>Front side bus</b>	400 MHz (6.4 GB/s)
<b>Chipset</b>	HP Scalable Processor Chipset zx1
<b>Memory</b>	Up to 24 GB <sup>1</sup> of PC2100 ECC DDR-266 (12 DIMM slots)
<b>Expansion bays</b>	3 external hot-pluggable 3.5-inch hard disk drive bays 1 external slimline optical bay
<b>Drive controllers</b>	Integrated Ultra320 SCSI controller (3 bays)
<b>Hard drive(s)</b>	36 or 146 GB Ultra320 SCSI drives (10K rpm), 36 or 73 GB Ultra320 SCSI drives (15K rpm), Maximum of 438-GB of internal storage
<b>Removable media</b>	Slimline DVD-ROM drive or slimline CD-RW/DVD combo drive (maximum of 1 drive)
<b>Expansion slots</b>	3 full-length 64-bit/133 MHz PCI-X, 1 AGP 4X Pro 50
<b>Graphics</b>	Professional 2D: ATI RADEON 7000 (dual display, all Operating Systems) Entry 3D: NVIDIA Quadro2 EX (dual display, Linux) Midrange: NVIDIA Quadro4 980 XGL (dual display, Windows and Linux) High-end: ATI FIRE GL X1 (dual display, Windows now, HP-UX and Linux future); ATI Fire GL4 (dual display, HP-UX)
<b>Audio</b>	16-bit stereo full-duplex (optional)
<b>Supported operating systems</b>	HP-UX 11i v2, Microsoft Windows XP 64-bit Edition version 2003, Red Hat Linux Advanced Workstation 2.1
<b>I/O ports and connectors</b>	4 USB 2.0 ports (2 rear, 2 front), two 9-pin DIN serial (rear), 2 RJ-45 ports (rear)
<b>Networking/communications</b>	Integrated 10/100/1000 Mbps Broadcom 5701 Wake-on-LAN, integrated 10/100 Mbps Intel 82550C
<b>Remote management</b>	Baseboard management controller (integrated) allows power and reset management, health management, event logging and reporting, hardware and data protection, highly available management console Management processor card (optional) manages resources, diagnostics, system repair, 2D graphics console, and 10/100Base-T LAN for out-of-band management
<b>Power</b>	650 Watts maximum input (optional hot-swap second supply for n+1 redundancy)
<b>Input device</b>	USB keyboard; 2-button USB scroll mouse (3-button mouse optional)
<b>Dimensions (h x w x d)</b>	tower configuration: 49.5 cm (19.5 inch) x 29.7 cm (11.7 inch) x 67.3 cm (26.5 inch) rack configuration: 8.6 cm (3.4 inch) x 48.3 cm (19.0 inch) x 68.1 cm (26.8 inch)
<b>Weight</b>	Minimum and maximum tower configuration: 22.4 kg (49.4 lb.) to 25.5 kg (56.2 lb.) Minimum and maximum rack configuration: 17.5 kg (38.6 lb.) to 22.2 kg (48.9 lb.)
<b>Monitors</b>	HP L1825 18 inch flat panel, HP L1925 19 inch flat panel, HP L2025 20 inch flat panel, HP P930 19 inch CRT, HP P1130 21 inch CRT, HP wide-aspect 24 inch CRT
<b>Warranty</b>	One year parts, labor, and on-site service, 24 x 7 telephone support in many countries; terms and conditions may vary, certain restrictions apply

<sup>1</sup> Microsoft Windows 64-bit Edition supports a maximum of 16 GB of RAM. HP-UX 11i v1.6 and Red Hat Linux Advanced Workstation 2.1 support 24 GB of RAM

Screen image courtesy of Tripos Inc.

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