Dell Precision™ 490 Workstation

Introducing the Dell Precision™ 490 workstation, a productivity machine where lightning-fast 64-bit multi-core Intel® Xeon® processors, impressive graphics, and exceptional memory capacity work together in a flexible and innovative compact chassis to deliver performance, scalability and flexibility.

Big Performance. Small Footprint.

Looking for a high-end workstation that delivers groundbreaking performance and exceptional processing power to space-constrained environments? Then look no further. Developed in close collaboration with hardware and software partners, the Dell Precision 490 workstation combines a flexible, compact chassis and intelligent power management to deliver an ideal solution for financial trading floors, performance clusters, render farms and other crowded, power-sensitive environments. Optimized for performance, reliability and scalability in environments where space is at a premium, the Dell Precision 490 lets you power through complex tasks and complete your projects faster than the previous generation.

- New 64-bit quad-core Intel Xeon processors can deliver big performance gains over the current Intel dual-core processors when running multiple single-threaded applications simultaneously (multi-tasking) and for individual applications which can take advantage of up to eight cores (multi-threaded)[1].
- Up to 32GB[2] DDR2 fully buffered DIMM ECC memory, plus up to 5x more memory bandwidth over dual-channel memory with quad channel[3] memory architecture[4], delivers no-compromise compute performance in a compact, rack ready form factor
- Latest SAS (Serial attached SCSI) hard disk storage delivers up to 50% higher performance than SATA 10K drives[5]
- A flexible dual-orientation chassis, with added slots for expandability

Visual Realism with High-Performance OpenGL Graphics

Dell Precision offers an intelligent selection of high-performance graphics cards that can satisfy a range of customer needs from outstanding OpenGL 3D performance to dependable 2D performance with optional dual monitor capability.

Optimal Scalability in a Compact Chassis

With additional DIMM slots to expand memory capacity up to 32GB[2], and an innovative chassis designed for flexibility, the Dell Precision 490 provides a highly scalable, cost-effective architecture with performance capabilities that can fundamentally change the way you work.

If you're looking to optimize efficiency and power usage with a platform designed to support higher performing, low wattage multi-core Intel Xeon processors today and into the future, the Dell Precision 490 is the ultimate choice. And with Independent Software Vendor (ISV) application certification, you can be sure your applications will run efficiently on Dell Precision workstations, today and tomorrow.

Peace of Mind Through ISV Application Certification

Dell partners with leading ISVs to certify system and application compatibility to ensure optimized performance in demanding workstation environments. And, to assure access to the latest productivity enhancing technology solutions, Dell invests in the workstation ISV community by providing the hardware platforms needed to further multithreaded and 64-bit application development. By maintaining strong relationships with ISV application developers, Dell engineers can provide ongoing optimization and support, should you need it.

Dell Precision™ 490 Workstation
Image courtesy of Autodesk®

GET MORE PERFORMANCE AND FLEXIBILITY. GET MORE OUT OF NOW.

Dell Precision™ 490 Workstation

FEATURES	Dell Precision™ 490 Workstation
SYSTEM	
Processors	Dual-core Intel® Xeon® 5100 series processors with up to 1333MHz front side bus and 4MB shared cache; Quad-core Intel Xeon 5300 series processors with up to 1333MHz front side bus and 2 x 4MB shared cache; All processors are 64-bit, XD and VT capable
Operating Systems	Genuine Windows® XP Pro SP2 Genuine Windows® XP Professional x64 Edition Windows Vista™ capable[6] Red Hat Enterprise Linux WS v.4 (Intel EM64T)
Chipset	Intel® 5000X chipset
Memory	Up to 32GB[2] quad-channel[3] architecture DDR2 Fully Buffered DIMM (FBD) 533 and 667MHz ECC memory; Eight DIMM slots
Flash BIOS	8MB flash memory for system BIOS; SMBIOS 2.3.4 support
Graphics	Support for PCI Express x16 graphics cards up to 150 watts and with up to 512MB graphics memory including: NVIDIA Quadro® FX 4500; NVIDIA Quadro® FX 3500; ATI FireGL 7200; NVIDIA Quadro® FX 3450; NVIDIA Quadro® FX550; ATI™ FireGL™ V3400; NVIDIA Quadro® NVS 285; All graphics cards support dual monitor configurations
Hard Drives	SATA 3.0Gb/s with NCQ 7200 RPM with 16MB DataBurst Cache™ up to 750 GB[7]; SATA 3.0Gb/s with NCQ 7200RPM with 8MB DataBurst Cache™ up to 250GB[7]; SATA 10K RPM with 16MB DataBurst Cache™ up to 160GB[7]; SAS 10K RPM up to 300GB[7]; SAS 15K RPM up to 146GB[7]; Chassis supports up to three internal drives (2.0TB[7] maximum storage capacity)
Hard Drive Controller	Integrated SATA 3.0Gb/s controller with support for RAID 0, 1, and 5; SAS RAID 0, 1 with optional SAS 5i/r PCI-E card; SAS RAID 0, 1, 5, (in mini-tower orientation only) with optional PERC 5/i PCI-e card Integrated Broadcom® 575[8] Gigabit4 Ethernet controller
Audio Controller	Integrated High Definition Audio (Rev 1.0 Specification) with Sigmatel STAC9200 High Definition Audio CODEC and Intel ESB2's AC97/ High Definition digital controller
Standard I/O Ports	Eight USB 2.0: two on front panel, five on back panel, one internal on motherboard; Two serial; One parallel; Two PS/2; One RJ-45; Stereo line-in and headphone line-out on back panel; Microphone and headphone connector on front panel
Optional I/O	IEEE 1394a connector available on front panel with add-in card
CHASSIS	
Dual-orientation Desktop	Desktop orientation with feet: (WxHxD) 17.64" x 6.73" x 18.54" (maximum including badge); 44.8 cm x 17.1 cm x 47.1 cm (maximum including badge)Mini-tower orientation with feet: (WxHxD) 6.73" x 17.64" x 18.54"; 17.1 cm x 44.8 cm x 47.1 cm (maximum including badge)Two internal 3.5" HDD bays; Two external 5.25" optical bays, one of which can accommodate a third HDD in mini-tower orientation.One external 3.5" flex bay for floppy or media card reader, one of which can accommodate a third HDD in desktop orientation; One PCI-e x16 graphics slot, Two PCI-e x8 slots wired as x4, Two PCI-X 64bit/100MHz slots with support for 3.3v or universal cards, One PCI 32bit/33Mhz slot; 750 watts Power Factor Correcting (PFC) power supply
PERIPHERALS	
Monitors	Performance flat panel displays, Dell UltraSharp™ widescreen and standard flat panel displays from 17" viewable to 30" viewable; Analog flat panel displays and CRT monitors also available
Keyboard	Dell Enhanced QuietKey USB; Enhanced Multimedia USB; Smart Card keyboard USB
Mouse	Dell USB two-button mouse and Dell USB optical two-button scroll mouse
Optional Speakers	Internal chassis speaker; Dell two and three piece stereo system; Dell sound bar available for all flat panel displays
STORAGE DEVICES	
Optional Removable Storage	CD-ROM, CD-RW, CD-RW/DVD Combo, DVD-ROM[9], DVD+/-RW[10], USB Floppy Drive, USB media card reader
Optional Modem	Dell 56K[12] v.92 Data/Fax PCI modem
SECURITY	
Software	Trusted Platform Module 1.2 (TPM 1.2); Chassis intrusion switch; Setup/BIOS Password; I/O Interface Security
ENVIRONMENTAL & REGULATORY	
Standards	TCO99, Blue Angel, Green PC, Energy Star, BSMI, C-TICK, CE, FCC, IRAM, NEMKO, NFPA 99, SABBS, SASO, TCO, TUV, UL, VCCI, USB 2.0; WEEE
Lead Free	Environmentally conscious design is RoHS Compliant[13]/Lead Free[14]
SERVICE & SUPPORT	
Base	3-Year Limited Warranty[15] with 3 years standard Next Business Day (NBD) onsite[16] parts replacement and 3 years NBD onsite[16] labor (US Only)
Recommended	3-Year Same Business Day 4 hour On-site Service[16] – 5 days a week, M-F 10 hours a day (8-6PM) 3-Year Same Business Day 4 hour On-site Service[16] – 7 days a week, 24 hours a day 3 & 4-year Gold Technical Support, expert support via phone, e-mail and online chat - 7 days a week, 24 hours a day