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 next-generation 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 Dual-Core Intel Xeon processors deliver performance gains over the previous generations of up to 45% in single-threaded applications* and up to 155% on multithreaded applications*
- New memory architecture increases memory bandwidth by 500% to deliver no-compromise compute performance in a compact, rackable form factor
- Up to 32GB\(^1\) quad channel DDR2 fully buffered DIMM ECC memory
- New SAS (Serial attached SCSI) hard disk storage delivers up to 50% higher performance than SATA 10K
- Innovative, new, 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 unprecedented 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\(^1\), and an innovative new 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 ready to scale to higher performing, lower wattage multi-core processors of the future, the Dell Precision 490 is the ultimate choice. And with 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 Independent Software Vendors (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.
processors: Up to two Dual-Core Intel® Xeon® 64-bit processors with up to 1066MHz front-side bus and 2MB L2 cache per core, with XD, HT, VT and EIST; All Intel® Xeon® processors support 64-bit computing with Intel EM64T.

Operating systems: Dell recommends Microsoft® Windows® XP Professional for Business, Genuine Windows XP Professional; Genuine Windows XP Professional x64 Edition; Red Hat® Enterprise Linux WS v. 4 (IA32); Red Hat Enterprise Linux WS v. 4 (Intel EM64T).

Chipset: Intel® 5000X chipset.

Memory: Up to 32GB quad-channel DDR2 Fully Buffered DIMM (FB-D) 533MHz ECC memory; Eight DIMM slots.

Flash BIOS: 4MB flash memory for system BIOS; SMBIOS 2.3.1 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 5800; nVIDIA Quadro FX550; ATI® FireGL® V3400; nVIDIA Quadro NVS 285; All graphics cards support dual monitor configurations.

Hard drives: SATA 3.0Gb/s 7200RPM with 8MB DataBurst Cache™ up to 250GB; SATA 3.0Gb/s 10K RPM with 16MB DataBurst Cache™ up to 500GB; SATA 10K RPM with 8MB DataBurst Cache™ up to 160GB; SAS 10K RPM up to 300GB; SAS 15K RPM up to 146GB; Chassis supports up to three internal drives (1.5TB storage maximum).

Network controller: Integrated 3.0Gb/s controller with support for RAID 0, 1, and 5, SAS RAID 0, 1, 5, 10 with optional PERC 5i/SCSI controller.

Audio controller: Integrated High Definition Audio (Rev 1.0 Specification) with Sigmamet STAC9200 High Definition Audio CODEC and Intel ES82'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 18.54” x 17.64” (maximum including badge).

Internal USB floppy drive; CD-ROM, CDRW±; CD-RW/DVD Combo; DVD-ROM±; DVD±RW; and USB media card reader and Dell USB Memory Key up to 512MB.

STORAGE DEVICES:

Recommended: 3-Year Limited Warranty with 3 years standard Next Business Day (NBD) onsite parts replacement and 3 years NBD onsite labor (US Only).

SEXP & SUPPORT:

Base: 3-Year Limited Warranty with 3 years standard Next Business Day (NBD) onsite parts replacement and 3 years NBD onsite labor (US Only).

Recommended: 3-Year Same Business Day 4 hour On-site Service – 5 days a week; M-F 10 hours a day (8-6PM).

3-Year Same Business Day 4 hour On-site Service – 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.

NOTE: All specifications and features are subject to change without notice. Dell will not be responsible for typographical or clerical errors.

PERIPHERALS:

Monitors: Performance flat panel displays, Dell UltraSharp™ widescreen and standard flat panel displays from 17” viewable to 24” viewable.

Keyboard: Dell EHCI 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 speaker; Dell two and three piece stereo system; Dell Sound bar available for all flat panel displays.

SOFTWARE:

Operating System: Dell recommends Microsoft® Windows® XP Professional for Business.

Intel® Xeon® processors support 64-bit computing with Intel EM64T.

ENERGICAL & REGULATORY:

Standards: TCO99, Blue Angel, Green PC, Energy Star, BSMI, C-TICK, CE, FCC, IRAM, NEMKO, NFPA 99, SABS, SASO, TCO, TUV, UL, VCCI, USB 2.0; WEEE.

ENVIRONMENTAL: Conforms to the EU Directive on the Restriction of the Use of Certain Hazardous Substances directive, this system (chassis and factory installed components) or configuration contains less than 0.1% lead by weight.

Lead Free: Environmentally conscious design is RoHS Compliant (Lead Free).

Dell PCs use genuine Microsoft Windows. www.microsoft.com/piracy/howtotell. Dell’s Terms and Conditions of Sales and Service apply and are available upon request. Dell cannot be held responsible for errors in typography or photography.

Upgrade: In most cases, users can upgrade their operating system by adding memory or other components. For more information, please visit http://www.dell.com/us/en/gen/misc/policy_010_policy.htm.

Privacy: Service may be provided by third-party. Technician will be dispatched if necessary following phone-based troubleshooting. Subject to parts availability, geographical restrictions and terms of service contract. Service timing dependent on parts availability.

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