

Performance powerhouses

The redesigned family of Dell Precision workstations flexes its performance muscle



Dell Precision 470

Organizations and professionals who use data- or graphics-intensive applications can't afford to waste valuable time suspended in performance bottlenecks. Production slowdowns in high-performance environments can bring productivity to a grinding halt—and a hit to your bottom line.

Maximum performance

Dell introduces its most powerful Dell Precision™ workstations to date—designed specifically for professionals who demand exceptional performance and scalability for complex applications. This includes accountants with very large data and decision sets and creative professionals who create 2-D or 3-D content. These new models integrate a range of next-generation technologies that deliver solutions optimized for workstation-class applications: 64-bit support with Intel® Extended Memory 64 Technology (EM64T), Peripheral Component Interconnect Express (PCI Express), and double data rate 2 (DDR2) memory technologies help your organization work more productively. Fast CPU and graphics processing, very large memory support, scalability, and a wide range of storage and display options can handle your most demanding technical, scientific, design, and business applications with the reliability that workstation users require.

The new dual-processor Dell Precision 670 offers maximum performance in a highly expandable chassis that can continue to scale as your computing needs evolve. The Dell Precision 470 is designed to excel in the same compute-intensive environment, but it comes in a smaller, lighter package that fits in more space-constrained work environments such as financial trading desks or clustering applications; offers a flexible, dual-orientation design; and can be rack mounted. The Dell Precision 370 is a highly scalable workstation designed for complex computing environments that require outstanding performance, expandability, and reliability in a single-processor architecture

Completely redesigned to meet the requirements of complex applications, the 470 and 670 are powered by the new Intel Xeon™ processors with EM64T. The dual processor-capable models enable more performance-intensive design applications to manipulate larger, more elaborate visual models in sharp detail by breaking past the 4 GB memory barrier of today's systems and accessing up to 16 GB of memory. And performance-hungry users will benefit from clock speeds of up to 3.6 GHz with the 800 MHz frontside bus (FSB), and from the larger 1 MB level 2 (L2) cache.

Extreme productivity

The Dell Precision systems include new Intel core architecture chip sets, which bring support for many new technologies that affect every primary performance subsystem of the workstations. The new Intel E7525 (470/670) and 925X Express (370) chip sets also address system I/O bottlenecks with support for PCI Express, a highly scalable serial bus that will deliver the next step function in throughput for the pipelines connecting the core architecture and all other areas of the workstation, including graphics and expansion slots. For users of storage-intensive applications, such as digital content creators, the new architecture also delivers more performance and disk configuration flexibility with the integration of Serial ATA (SATA) technology in I/O Controller Hub (ICH) modules with integrated RAID. With support for 10,000 rpm SATA drives, these workstations deliver increased speed.

Supreme peace of mind

Dell partners with leading independent software vendors (ISVs) to certify workstation and application compatibility to help ensure that your applications will run reliably and efficiently on these Dell Precision workstations. Through rigorous testing, Dell helps ensure flawless compatibility in demanding workstation environments.



Dell Precision 670

Dell Precision 370

Dell tunes its Precision hardware for optimized performance with each application. Customers have the assurance of ISV and Dell support to address issues if they do arise. Plus, Dell provides dedicated workstation support and specialized ISV-knowledgeable support to help keep your system running smoothly with your applications.

Exceptional scalability

From a minimum single-processor solution with ISV certifications to a dual-processor performance powerhouse configured for the most demanding applications, the Dell family of Precision workstations can easily scale to your unique workstation needs. This means that users can appreciate the increased performance today, while IT managers can be assured of a smooth transition path to the future.

The Dell Precision 670 includes a full range of performance options such as high-performance PCI Express, PCI Extended (PCI-X), and PCI expansion slots; integrated Ultra320 (U320) SCSI RAID controller; and certified graphics choices—engineered to anticipate your future needs. It also supports up to four hard drives capable of providing a maximum 800 GB SATA or 584 GB of combined SCSI capacity while the high-speed, 15,000 rpm U320 SCSI drives provide

maximum performance and capacity for compute-intensive workstation applications. And for external storage requirements, the 670 can support up to three external devices. Select from a wide range of 5.25-inch external devices including the versatile DVD+RW2 drive and CDRW/DVD-ROM combo drive as well as CD-RW, CD-ROM, DVD-ROM, and USB memory key devices.

The Dell Precision 470 supports up to three hard drives to tackle even the most demanding storage requirements with an optional PCI-X U320 RAID (0, 1, 5, 10) controller for increased I/O performance and data integrity. The 470 also supports numerous removable storage options, from the versatile CDRW/DVD-ROM combo or DVD+RW2 drives to removable USB memory key devices.

The Dell Precision 370 offers a host of performance scaling features including DDR2 533 MHz error-correcting code (ECC) memory, and specialized processors like the Intel Pentium® 4 3.40 GHz Extreme Edition processor with 2 MB of L3 cache, which can deliver outstanding single-processor performance in CPU-intensive applications. In addition, although limited to 4 GB of physical memory, the 370 also supports Intel EM64T to enable the running of

less-demanding 64-bit applications, which primarily need increased address space.

Powerful manageability features

Dell follows open industry standards for system management and network administration to help ensure your system integrates seamlessly with your network. The Dell™ OpenManage™ suite delivers software and hardware management features designed to lower total cost of ownership (TCO). It also helps keep you productive and current by enabling mass system updates, providing system alerts and allowing after-hours software updates and imaging. In addition, you receive the benefits of Dell's award-winning service and support staff with a dedicated workstation phone queue and three-year Next Business Day On-Site Service. Providing uncompromised performance, exceptional scalability, and flexibility with the latest processor technology, the family of Dell Precision workstations is well suited for the most challenging workstation applications.

For more information:

In U.S.: www.dell.com/precision

In Europe: www.euro.dell.com

In Asia: www.dell.com/ap