Tech Enthusiast

If it's newer and faster, it's the server for you. Whether you're powering powerful business applications or just like having a shiny box to show off in your office, the latest and greatest in hardware and software is a must for you.

March 30, 2009

Tech Enthusiasts that need to power mission-critical business applications will find innovative new technologies in the Intel® Xeon® processor 5500 series deliver the kind of performance they need.

Intel Turbo Boost Technology adapts processor frequency to application needs, scaling performance to meet peak performance demands. It also allows specific cores within each processor to operate above rated frequency within a set range, increasing frequency when needed to increase execution speed.

Intel Hyper-Threading Technology enables simultaneous multi-threading within each processor core, up to two threads per core or eight threads on a quad-core processor, for those applications that lend themselves to parallel, multithreaded execution. Hyper threading reduces computational latency and makes optimal use of every clock cycle. For example, while one thread is waiting for a result or event, another thread is executing in that core, to minimize down cycles.

To achieve top application performance, you need optimal processing speed plus enough data bandwidth to keep each CPU running at capacity. The Intel Xeon processor 5500 series features new Intel QuickPath Technology that delivers top performance for bandwidth-intensive applications. This new scalable, shared memory architecture delivers memory bandwidth leadership and up to 3.5x the bandwidth of previous-generation processors by connecting processors and other components with a new high-speed interconnect. Intel QuickPath Technology is designed to unleash the full performance of the Intel Microarchitecture codename Nehalem and future generations of Intel multi-core processors.

Tech Enthusiasts that also need to manage a fleet of PCs can take advantage of Intel vPro technology, which designed to address many of the most costly challenges IT organizations currently face in deploying, maintaining, managing, and securing clients. It enables support teams to securely access and manage PCs over networks even when an OS is unresponsive, a software agent is missing, or a hard drive has failed.

It also contains other features that can enhance a wide range of client management functions, including persistent and protected storage for event logs and asset information, configurable hardware-based traffic filters, and programmable triggers and responses for protecting Internet-connected PCs.

Resources For You

HSBC Calculates Improved IT Support Productivity and Patch Management
With a projected positive ROI of 605% and a break-even point achieved in two months, HSBC Mexico can look forward to driving improved operating efficiencies across their IT support model, while serving as a foundation to drive worldwide adoption and savings through the use of Intel vPro technology.

Implementing Intel vPro Technology to Drive Down Client Management Costs
Intel IT offers guidelines for achieving quick returns and long term value with Intel vPro technology based on our experience in the first year of a multi-year deployment program.

Proactive PC Support Improves Service and Lowers TCO
As part of our online support strategy, Intel IT developed a self-service PC Health Check utility to deliver better customer support, improve response time, and increase employee satisfaction—while reducing operating costs

The Return on Investment for PC Refresh
In this video, John Mahvi, PC Fleet Manager for Intel IT, diagrams the financial logic Intel IT uses to justify a regular refresh of Intel's PC fleet. By maintaining a refresh cadence of approximately three years, Intel gains the benefits of increased security and manageability capabilities, as well as increased productivity and lower overall costs.

Selecting Server Processors to Reduce Total Cost
Intel IT is standardizing on Intel Xeon processor X5570 for two-socket servers for design computing and enterprise server virtualization. Its testing and analysis demonstrates that the newest high-end Intel Xeon processors based on Next-Generation Intel® Microarchitecture (Nehalem) can significantly enhance server performance, providing an opportunity for Intel IT to reduce total cost of ownership by 42 percent. »

INTEL NEWS

Why Choose Intel® Server Products?
Watch this YouTube video to see

TOP INTEL CONTENT

- First the Tick, Now the Tock: Next Generation Intel® Microarchitecture Nehalem
- Intel Xeon Processor 5500 Series Product Brief
- Intel and Microsoft Complementary Virtualization Technologies

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HOTLIST

New Intel® Xeon® Processor Increases Server Efficiency and Capabilities