intel

Tuesday, November 4, 2008

Intel® Xeon® Processor 5000 Sequence

The breakthrough performance, energy efficiency, and reliability of Intel® Xeon® processor-based server systems make them the ideal choice for all of your data demanding or standard enterprise infrastructure applications.
Intel® processor-based servers enable businesses worldwide to do more and spend less—with outstanding price/performance and broad 64-bit choice across OEMs, operating systems, and applications. Supported by a single stable mainstream 2P server platform supporting a range of CPU options for IT flexibility, investment protection and easy migration.
Reliable, efficient, proven performance. Why would you depend on anything else? Intel® Xeon® processor-based servers deliver it all. Put Intel® server technology to work in your data center.
Reducing Data Center Energy Consumption: A summary of strategies used by CERN, the world's largest physics laboratory (PDF 372KB)Read more about the energy-saving strategies developed by CERN openlab 2 and used by CERN, the world's largest physics laboratory.
Open Box Success Brief (PDF 31KB)
View performance benchmarks Product information
Intel® Xeon® processor 5400 series animated product brief (PDF 5.84MB)
Intel® Xeon® processor 5300 series product brief (PDF 535KB)
Compare Intel® Xeon® processor features
Discuss server products and technologies with IT experts in the server zone
Intel® Xeon® Server Estimator
Intel® Xeon® processor 5200/5400 series for embedded computing platforms product brief (PDF 304KB) Features and benefits
Features
Benefits
Intel® Xeon® processor 5400 series
Up to 2x better performance than previous-generation dual-core and 5x better than single-core[1]
Up to 20 percent better performance and 38 percent better performance per watt than previous-generation quad-core[2]
Intel Xeon processor 5300 series
64-bit, quad-core computing with large 8 MB on-die cache
Up to 4 times the performance versus previous-generation single-core processors[3]
Better performance/watt than Intel Xeon processor 5100 series-based platformsξ

Blog Archive

About Me

sohail
View my complete profile

Intel Xeon processor 5200 series
Supports two dual PCI second-generation adapters that enable users to visualize and process greater computationally intensive workloads
Denser, more powerful HPC designs
Improved store and forward algorithms and advanced I/O enable users to quickly and efficiently process parallel workflows
Intel Xeon processor 5100 series
Breakthrough performance at up to 3 times the performance versus previous-generation single-core processors
Enhanced power-efficient technologies for over 3 times performance/watt∂
Wide range of 65 watt SKUs for performance-optimized deployments, plus 40 watt SKUs for ultra-dense deployments
Intel® Virtualization Technology (Intel® VT)±
Enables more operating systems and software to run in today's virtual environments
Developed with virtualization software providers to enable greater functionality and compatibility compared to non-hardware-assisted virtual environments
Intel® 64 architectureΦ
Flexibility for 64-bit and 32-bit applications and operating systems
Fully buffered DIMM technology
Up to 21 GB/s for 3 times the increase in memory bandwidth over previous memory technology
Up to 4 times the memory capacity up to 64 GB
Enhanced reliability, availability, and serviceability features
Intel® I/O Acceleration TechnologyΔ (Intel® I/OAT)
Moves data more efficiently for fast, scalable, and reliable network performance
Ability to significantly reduce CPU overhead, freeing resources for more critical tasks
Enhanced reliability and manageability
Many memory controller features, together with PCI Express RAS features, combine to help improve platform reliability vs. previous-generation platforms
New features include Error Correcting Code (ECC) system bus, new memory mirroring and I/O hot-plug
[1] Intel® Xeon® processor x5460 series delivers up to 119% (2.19x) higher performance when compared to Intel Xeon processor 5160 series as published/measured using SPECjbb2005* in November 12th, 2007. Intel Xeon processor x5460 series delivers up to 443% (5.43x) when compared to single-core 64-bit Intel Xeon processor 3.80GHz as published/measured using SPECint*_rate_base2006 in November 12th, 2007.
[2] Intel® Xeon® processor x5460 series delivers up to 20% (1.25x) higher performance when compared to Intel Xeon processor 5365 series as published/measured using SPECjbb2005* in November 12th, 2007. Intel Xeon processor 5450 series delivers up to 38% (1.38x) higher performance per watt when compared to Intel Xeon processor E5335 as published/measured using SPECjbb2005* in November 12th, 2007.
[3] For further information see **www.intel.com/performance/server/xeon/app.htm**
ξ For further information see **www.intel.com/performance/server/xeon/ppw.htm**
Δ Microsoft will support Intel® I/OAT in future Microsoft Windows

Server* releases. For more information, visit **www.intel.com/go/ioat**

Φ 64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers, and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. Consult with your system vendor for more information.

± Intel® Virtualization Technology requires a computer system with an enabled Intel® processor, BIOS, virtual machine monitor (VMM) and, for some uses, certain platform software enabled for it. Functionality, performance or other benefits will vary depending on hardware and software configurations and may require a BIOS update. Software applications may not be compatible with all operating systems. Please check with your application vendor.

*Posted by sohail at **12:12 PM***

0 COMMENTS:

Post a Comment

Home **Older Post**

Subscribe to: **Post Comments (Atom)**