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Fact Sheet

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QUAD-CORE INTEL® XEON® PROCESSOR 5300 SERIES FOR EMBEDDED, COMMUNICATIONS AND STORAGE

EMBEDDED SYSTEMS CONFERENCE, San Jose, Calif., April 3, 2007 – Intel Corporation today unveiled two embedded products: the Quad-Core Intel® Xeon® processor 5300 series with extended life cycle support, the industry's first to bring Intel® architecture-based quad-core performance to the embedded segment; and the Intel® IP Network Server NSC2U. The quad-core embedded processors are among the 11 quad-core products Intel has brought to market in less than 6 months.

Quad-Core Intel® Xeon® Processor 5300 Series

The Quad-Core Intel® Xeon® processor E5335 and E5345 are the industry's first Intel® architecture quad-core processors offered with extended lifecycle support, meaning Intel will maintain production for at least 5 to 7 years. Quad-core processors double the compute density over previous Intel dual-core processors, providing breakthrough performance and energy efficiency for compute-intensive embedded, storage and communications platforms. Made with Intel's leading 65nm manufacturing process technology, they combine the benefits of a quad-core processor with dual-processing capabilities, providing up to eight high-performance cores per platform.

Dual-processor platforms based on the Quad-Core Intel Xeon processor 5300 series provide high levels of computing for threaded applications delivering eight-thread, 32- and 64-bit processing capabilities with 8 MB of L2 cache per processor. Validated with the Intel® 5000P chipset and supported by fully buffered DIMM (FB-DIMM) technology, the platform provides an excellent solution for intense computing and I/O-intensive workloads within high-end communications and enterprise systems, including rack-mount (1U/2U) and blade servers, as well as NAS and SAN systems and high-end medical imaging equipment.

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Product Highlights

- Quad-core processor with dual-processing capabilities. Significant performance headroom for multi-threaded applications using up to eight high-performance cores per platform to run parallel tasks
- Extended lifecycle product support protects system investment
- 8 MB total L2 cache; each of the two 4 MB L2 caches is shared by two cores and is allocated dynamically between cores based on application load; increased efficiency of L2 cache-to-processor data transfers maximizes main memory-to-processor bandwidth and reduces latency
- 1333 MHz front-side bus speed enables faster data transfer between physical memory, I/O and cores for increased throughput
- FB-DIMM memory supports higher bandwidth memory subsystem, enabling high-speed memory interface with large capacity
- Enhanced Intel SpeedStep® technology reduces average system power consumption
- Platforms based on the 5300 series deliver the benefits of many Intel technologies including the Intel® Core™ microarchitecture, Intel® Virtualization Technology (Intel® VT), Intel® I/O Acceleration Technology (Intel® I/OAT) and Intel® 64 Architecture (Intel® 64).

Processor Name	Core Speed	L2 Cache	Front-Side Bus Speed	Thermal Design Power	Tcase	Package
Intel® Xeon® E5335	2.0 GHz	8 MB	1333 MHz	80 W	66° C	LGA771
Intel® Xeon® E5345	2.33 GHz	8 MB	1333 MHz	80 W	66° C	LGA771

Intel® IP Network Server NSC2U

The Intel IP Network Server NSC2U combines network port density and processor performance in a compact 2U package, ideally suited for network data applications including network security and services over IP (SoIP). The NSC2U uses Intel's 64-bit quad-core processor, coupling high performance with power efficiency to provide improved performance-per-watt over previous-generation rack mount servers.

The NSC2U is designed for network data applications with large I/O requirements, while providing extended lifecycle support, DC power capabilities, compact form factor and the ruggedness found on carrier-grade servers. Due to its high I/O throughput and performance capabilities, the NSC2U is well suited for a variety of network applications and is ideal for network security, intrusion detection/prevention, VPN/firewall and unified threat management solutions. It is also a valuable platform for running Telco SoIP, IMS, IPTV, Video on Demand and SIP application servers. This high-performing IP network server also supports many of Intel's latest hardware technologies, including Intel VT, Intel I/OAT, Intel 64 architecture and FB-DIMM technology.

For further information visit: <http://intel.com/go/embedded>