



World's first quad-core processors for desktop and mainstream servers



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World's first quad-core processors for desktop and mainstream servers

Intel brings you the world's first quad-core processors for desktop and mainstream servers, leading the industry in multi-core technology. Find out about the blistering performance on desktop or servers. See how Intel® quad-core technology delivers unprecedented performance to high-end computers.

Now introducing the Intel® Core™2 Quad processor

Intel's most advanced processor just got an upgrade to the power of four—four processing cores for the ultimate in demanding entertainment

- Up to 54% better performance for intense multimedia applications, streaming movies, music, and more with powerful Intel quad-core technology¹
- Up to 53% better performance when enjoying immersive 3-D gaming²
- Up to 79% faster performance for highly-threaded applications when creating multimedia and 3-D content³
- Up to 8MB of L2 cache and 1066 MHz Front Side Bus for an unrivaled multitasking experience

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Quad-Core Intel® Xeon® processor 5300 series

Breakthrough performance from the world's first quad-core processor for mainstream servers—faster, more powerful, and more efficient

- Great performance with energy efficiency
- Run applications with a smaller footprint
- Up to 50% better performance than Dual-Core Intel® Xeon® processor 5100 series within the same power envelope[^]
- Delivers the multitasking performance you need to maximize your virtualization efforts—enabling your enterprise applications to be responsive, even as you consolidate server resources

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Intel® Core™2 Extreme quad-core processor

The world's best desktop processor for multimedia applications and the first to quad-core[∇]

- Up to 80% faster performance for highly-threaded apps^Ω
- Four processing cores to handle massive throughput
- Based on leading Intel® Core™ microarchitecture, industry-first 8MB total cache

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Buy a desktop PC based on the Intel® Core™2 Extreme quad-core processor

¹ Performance measured using HD Video Publishing on Pinnacle* Studio 10.6, comparing the Intel® Core™2 Quad processor Q6600 to Intel® Core™ 2 Duo processor E6700. Actual performance may vary. See www.intel.com/performance/desktop/extreme/hd_video_publishing.htm for more information.

² Performance measured using 3DMark*06 CPU, comparing the Intel® Core™2 Quad processor Q6600 to Intel® Core™ 2 Duo Processor E6700. Actual performance may vary. See www.intel.com/performance/desktop/extreme/gaming.htm for more information.

³ Performance measured using 3D Ray Tracing on POV-Ray* 3.7 Beta 16, comparing the Intel® Core™2 Quad processor Q6600 to Intel® Core™2 Duo processor E6700. Actual performance may vary. See www.intel.com/performance/desktop/extreme/3d_ray_tracing.htm for more information.

^ Performance measured using SPECint_rate_base2000, TPC-C, Specjbb2005, and SAP SD, Intel internal measurement (September 21, 2006) comparing system configurations of Intel® Xeon® Processor 5300 Sequence Platform, 2.67 GHz w/ 2x4MB L2 Cache/ 1333 MHz FSB, 8GB (8 x 1GB FB DIMM Memory) to Intel® Xeon® Processor 5160 Series 3.00 GHz w/ 4M L2 / 1333 MHz FSB, 8GB (8 x 1GB FB DIMM Memory) to 2 AMD Opteron* processor Model 2220SE (2.80 GHz, 1MB L2 Cache) / 4GB (8x512MB) DDR2-667 memory. Actual performance may vary. For further information see: www.intel.com/performance/server/xeon/index.htm.

∇ Performance based on Adobe Premier* Pro 2.0. Actual performance may vary. See www.intel.com/performance/desktop/extreme/hd_video_publishing.htm for more information.

Ω Performance measured using 3D Ray Tracing on POV-Ray* 3.7 Beta 16, comparing the Intel® Core™2 Extreme processor QX6700 to Intel® Core™2 Extreme Processor X6800. Actual performance may vary. See www.intel.com/performance/desktop/extreme/3d_ray_tracing.htm for more information.

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