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Fact Sheet

A BRIEF HISTORY OF INTEL CORE MICROARCHITECTURE

Sept. 5, 2007 -- *Intel introduced its first server processors based on the Intel® Core™ microarchitecture in June 2006. Desktop and mobile chips arrived a month later. Below is an update on progress of these processors and manufacturing advancements:*

- Intel's server, laptop and desktop processors continue to win virtually all independently verified benchmarks, and this trend is expected to continue.

- With the launch of six new Intel® Xeon® quad-core 7300 processors (formerly codenamed Tigerton), Intel has completed the ramp of the Intel® Core™ microarchitecture across the entire Intel® Xeon® processor family in under 15 months.

- Intel offers more than 20 quad-core processors in the server and desktop market segments with millions already sold. Intel has offered quad-core products since November 2006.

- The myriad of products based on the microarchitecture have earned almost 100 industry accolades and awards.

- Intel's Caneland platform, featuring the Intel Xeon 7300 series processors and Intel 7300 chipset with Data Traffic Optimizations, has been in production and shipping since June.

- Intel mobile products continue to lead the industry with tremendous new opportunities for growth in low power IA, especially in the new class of mobile Internet devices, ultra-mobile, and ultra-low-cost PCs.

- Intel will begin shipping its next-generation 45nm Penryn family of Intel Core™ 2 quad-core processors later this year, marking the next step in the company's "tick-tock" product strategy to deliver new microarchitecture or manufacturing advance every year.

- Our progress on both the tick and the tock looks very solid going forward, with our 32nm process and Nehalem designs also on track.

- The Penryn processors will have up to 820 million transistors and are based on our 45nm manufacturing process with high-k metal gate transistors. The combination of 45nm process and our high-k metal gate transistor technology significantly boosts performance and energy

efficiency. No other company can combine these two features today or has provided a firm date of when they might do so.

- Intel expects to have four 45nm chip plants up and running by the middle of 2008. Intel is currently up and running in D1D, its development plant in Oregon. The next volume manufacturing plant will open in Chandler, Ariz. within the next 60 days.

- The dual-core Penryn processor has a die size of 107mm2 -- 25 percent smaller than Intel's current 65nm products -- and yet operates at the same or lower power than current dual-core processors.

- In 2008, Intel plans to ship its Nehalem family of processors. These processors will include 1-8+ cores per product, and 2-16+ threads via the return of multi-threading technology.

- In 2009, Intel plans to introduce its 32nm manufacturing process.

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