



Intel Details 2011 Processor Features, Offers Stunning Visuals Built-in

NEWS HIGHLIGHTS

- Intel detailed several new and improved features for its upcoming 2nd Generation Intel(R) Core(TM) processor family for laptops and PCs. This will be Intel's latest processor, with a rich visual experience built-in.
- Expected to be in production later this year with new laptops and PCs available starting in early 2011.
- Chips will further expand Intel's battery life and performance leadership.
- First public demonstrations of Intel's next-generation Xeon(TM) server platforms, for both dual and multi-processing servers.

SAN FRANCISCO--(BUSINESS WIRE)-- Intel Corporation revealed today several significant design features for the company's 2011 2nd Generation Intel(R) Core(TM) processor family at the Intel Developer Forum. The new and enhanced features will further extend Intel's chip performance and battery life leadership, and add a number of visually related features built right into the chips.

Codenamed "Sandy Bridge," the chips will be based on Intel's first new "visibly smart" microarchitecture produced on the company's cutting-edge manufacturing factories, or "fabs," at 32-nanometer (nm is a billionth of a meter) process technology with second-generation high-k metal gate transistors.

"The way people and businesses are using computers is evolving at an explosive rate, fueling demand for an even more powerful and visually appealing experience," said Dadi Perlmutter, executive vice president and general manager of the Intel Architecture Group.

"Our upcoming 2nd Generation Intel Core processor family represents the biggest advance in computing performance and capabilities over any previous generation. In addition to offering these features inside Intel-based laptops, we plan to scale these advances across our server data center and embedded computing product portfolio."

The processor family will include a new "ring" architecture that allows the built-in processor graphics engine to share resources such as cache, or a memory reservoir, with the processor's core to increase a device's computing and graphics performance while maintaining energy efficiency.

The 2nd Generation Intel Core processor also includes an enhanced version of Intel(R) Turbo Boost Technology. This feature automatically shifts or reallocates processor cores and processor graphics resources to accelerate performance, tailoring a workload to give users an immediate performance boost when needed.

Laptops and PCs powered by the 2nd Generation Intel Core processor family are expected to be available early next year.

New Visual Experience - Visibly Smart

Intel's new processor graphics delivers enhanced visual features focused on the areas where most users are computing today: HD video, 3-D, mainstream gaming, multi-tasking and online socializing and multimedia.

To obtain and view video faster, Perlmutter demonstrated hardware accelerated video editing using the architecture's dedicated silicon for media processing, which allows users to quickly convert video to other formats.

The 2011 chips also come with Intel Advanced Vector Extensions (AVX). AVX delivers improved performance, rich functionality and the ability to better manage, rearrange and sort data. A new 256-bit instruction set accelerates floating point intensive applications such as digital photo editing and content creation.

Intel also demonstrated a dual processor, next-generation Intel(R) Xeon(R) processor server running Vidyo* video conferencing software that utilizes the 32 threads available on the system, and takes advantage of the AES New Instructions set (AESNI). Next-generation Xeon(TM) processors for 2 socket servers and workstations run 8 cores and 16 threads per processor and are on schedule for production in the second half of 2011.

Intel (NASDAQ:INTC), the world leader in silicon innovation, develops technologies, products and initiatives to continually advance how people work and live. Additional information about Intel is available at www.intel.com/pressroom and blogs.intel.com.

EDITORS NOTE: Additional information on the 2nd Generation Intel(R) Core(TM) processor family (formerly codenamed "Sandy Bridge") and the technologies demonstrated for the first time are available at www.intel.com/newsroom/idf.

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