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News Fact Sheet

INTEL AT THE 2008 INTERNATIONAL CONSUMER ELECTRONICS SHOW

Jan. 7, 2008 – Intel Corporation unveiled 16 products today at the 2008 International Consumer Electronic Show (CES), including the company's first 45nm processors for Intel® Centrino® Processor Technology-based laptops. All of these chips include the company's new transistor formula and 45 nanometer (nm) manufacturing design that boost a PC's speed, reduce its electricity needs, save on battery life, help the environment and come in smaller packages for more fashionable and compact computer designs. With the introduction of the new processors, Intel will offer 32 desktop, laptop and server processors based on these innovations. Intel also announced continuing momentum in ultra mobile computing and WiMAX. A summary of Intel news and updates from the CES is included below.

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Mobility: Intel Announces Santa Rosa Refresh Product Line
Santa Rosa Refresh – Intel launched "Santa Rosa Refresh," an update to Intel® Centrino® processor technology that includes the next-generation 45 nanometer (nm) high-k (Hi-k) mobile processor (codenamed "Penryn") and improved graphics capabilities.

- ***45nm Hi-k Intel® Core™2 Duo mobile processor for Centrino*** – Taking advantage of the Hafnium-based, Hi-k metal gate reinvented transistors inside, Santa Rosa Refresh-based notebooks deliver improved platform performance and great battery life. Graphics improvement focuses on HD DVD* and Blu-ray Disc* support with an optional third-party decoder, as well as enhanced content and gaming capabilities.

- ***Santa Rosa Refresh for Desktop*** -- Intel will also use this new mobile technology foundation with the energy-efficient performance of the 45nm Intel Core 2 Duo processor to enable a variety of smaller, cooler and quieter, stylish desktop designs.

Processor Name	Cores / Threads	CPU Clock Speed	Cache size	Bus Speed**	1 Ku Price ($)	Availability

Intel® Core™ 2 Extreme processor X9000	2 / 2	2.80 GHz	6 MB shared L2	800 MT/s	$851	January
Intel® Core™ 2 Duo processor T9500	2 / 2	2.60 GHz	6 MB shared L2	800 MT/s	$530	January
Intel® Core™ 2 Duo processor T9300	2 / 2	2.50 GHz	6 MB shared L2	800 MT/s	$316	January
Intel® Core™ 2 Duo processor T8300	2 / 2	2.40 GHz	3 MB shared L2	800 MT/s	$241	January
Intel® Core™ 2 Duo processor T8100	2 / 2	2.10 GHz	3 MB shared L2	800 MT/s	$209	January

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Mobile Internet Devices: Best Internet Experience in Your Pocket

Intel's strategy for enabling the best Internet experience "in your pocket" is based on using low-power Intel Architecture (IA) platforms that drastically reduce CPU/Chipset power and package size for a range of mobile Internet devices (MIDs) and ultra mobile PCs (UMPCs). Intel can achieve these lower power products due to its combination of reinvented transistors, 45nm manufacturing and microarchitecture design features.

- ***Intel confirms "Menlow" platform shipments in the first half of 2008:*** Intel is getting ready to ship its first-generation low-power platform, codenamed "Menlow," in the first half of the year. The Menlow platform is comprised of the "Silverthorne" processor and the "Poulsbo" chipset, both being designed from the ground up for MIDs and UMPCs. At CES, Intel provided a sneak peek of some of the upcoming "Menlow"-based devices and applications that are being optimized for this platform.

- ***Intel unveils customers planning to launch Menlow-based platforms at CES:*** In a sign of growing momentum behind MIDs and UMPCs, Intel is showcasing a range of Menlow-based devices from customers who expect to ship these products later this year. In its technology showcase, Intel has Menlow-based MIDs and UMPCs from Aigo, Asus, BenQ, Clarion, Compal, Digifriends, EB, Gigabyte, Lenovo, LG-E, LiteOn, Quanta, Toshiba, USI, and Willcom.

- ***Skype announces support for Intel-based MIDs***: Skype announced a collaboration with Intel to develop a mobile Skype experience for MIDs based on Intel low power processors and chipsets. Mobile users will be able to make Skype voice and video calls and send instant messages on the move while harnessing the PC-like performance of Intel's MIDs. This new category of small, truly mobile consumer devices with WiMAX and Wi-Fi capabilities will enable free Skype-to-Skype voice and video calls and cheap SkypeOut* calls to be made on open wireless networks.

- ***Intel demonstrates compelling applications on Menlow-based platforms at CES:*** Intel showcased a range of operating systems and applications covering its targeted usages in the information, entertainment, communication and productivity segments on Menlow-based platforms. Key companies whose applications are included in Intel's technology

showcase include Adobe, Alibaba, AOL, BMAT, Canonical, Commendo, Comverse, DailyMotion, Dazhihui, EB, Ekiga, GestureTek, Glide, Haansoft, Jajah, Lingtu, Mitac, MobiTV, Movial, MySpace, NeuSoft, OurGame, PopCap Games, PPLive, Qidian, Red Flag, Sina, Skype, Teknision, Tencent, Thinkfree and Veveo.

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WiMAX: Mobile WiMAX Takes the Stage in 2008

Mobile WiMAX, based on the IEEE 802.16e industry specification, is a broadband wireless technology that provides low-cost, multi-megabit speed and great throughput for accessing large amounts of data such as movies and multimedia content. Intel's integrated Wi-Fi/WiMAX module (codenamed "Echo Peak") will debut in certain next-generation Intel® Centrino® processor-based laptops (codenamed "Montevina") beginning in the middle of the year. The company's low-power mobile WiMAX silicon specifically designed for mobile Internet and consumer electronic devices (codenamed "Baxter Peal") will also be available this year.

- ***Global mobile WiMAX adoption continues to grow*** – Intel continues to work with Sprint and Clearwire on the deployment of a mobile WiMAX network in the United States starting this year. Intel is also working with carriers around the world to deploy mobile WiMAX networks globally.
    - The Japanese Ministry of Internal Affairs and Communications recently announced that Wireless Broadband Planning K.K. (WBPK), a joint venture formed in September with investments from KDDI, Intel Capital and other companies, is one of the recipients of two 2.5 GHz frequency licenses in Japan. WBPK aims to offer a wide range services over the mobile WiMAX network it intends to build, with its initial offering expected in 2009.

    - Comstar and Intel recently announced a collaboration to build a citywide mobile WiMAX network in Moscow using Comstar's 2.5-2.7GHz spectrum footprint. The commercial launch of Comstar's mobile WiMAX network is targeted for late 2008.

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Consumer Desktop PCs: 45nm Goes Mainstream this Quarter

- ***"Penryn" family of processors comes to mainstream desktop PCs*** – Intel announced three quad-core and four dual-core 45nm-based processors for consumer desktop PCs arriving later this month and throughout the first quarter of the year. The new 45nm Intel® Core™ 2 Quad and Intel Core 2 Duo processors have a range of speeds and feature large L2 caches and Intel® HD Boost, which delivers increased performance on such multimedia applications as video editing and encoding.

- ***Intel® Core™2 Processor with Viiv™ technology*** – Intel will also extend the performance and energy efficiency of the new 45nm processors with Intel HD Boost to the Intel Core 2 Processor with Viiv technology platform. The company will also focus future plans on delivering silicon-driven capabilities that support the areas of better connecting, protecting and managing digital content – as well as delivering the performance required to view, share and enjoy it.

Processor Name	Cores / Threads	CPU Clock Speed	Cache size	Bus Speed**	1 Ku Price ($)	Availability
Intel® Core™ 2 Quad processor Q9550	4 / 4	2.83 GHz	12 MB shared L2	1333 MT/s	$530	Q1 2008
Intel® Core™ 2 Quad processor Q9450	4 / 4	2.66 GHz	12 MB shared L2	1333 MT/s	$316	Q1 2008
Intel® Core™ 2 Quad processor Q9300	4 / 4	2.50 GHz	6 MB shared L2	1333 MT/s	$266	Q1 2008
Intel® Core™ 2 Duo processor E8500	2 / 2	3.16 GHz	6 MB shared L2	1333 MT/s	$266	January
Intel® Core™ 2 Duo processor E8400	2 / 2	3 GHz	6 MB shared L2	1333 MT/s	$183	January
Intel® Core™ 2 Duo processor E8200	2 / 2	2.66 GHz	6 MB shared L2	1333 MT/s	$163	January
Intel® Core™ 2 Duo processor E8190^	2 / 2	2.66 GHz	6 MB shared L2	1333 MT/s	$163	January

^ *No Intel® VT or Intel® TXT.*

- **Later this quarter, Intel will continue its progression of leading-edge technology leadership products**:
  - ***The Intel® Core 2 Extreme QX9770 Processor*** (3.2 GHz/1600 MHz system bus 45nm Hi-k metal gate processor formerly codenamed "Yorkfield") and Intel® X48 Express Chipset targeted at high-end PC users and enthusiasts. The Intel X48 Express Chipset continues to push the performance envelope with native support for XMP 1600 DDR3 memory.

  - ***"Skulltrail"*** is a new dual processor-based platform that will provide extreme high-end enthusiasts with a fantastic professional media creation and gaming experience. The platform will feature two quad-core Intel Core 2 Extreme processors for 8-core performance and 4 PCI Express x16 Gen 1.1 slots with planned support for up to 4 graphics cards.

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About Intel
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