Intel Launches Three New Quad-core Processors

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(PhysOrg.com) -- Intel has launched three new quad-core processors utilizing Intel's new Nehalem architecture. These processors, formerly codenamed Lynnfield, are aimed at desktop computers, as well as the new Xeon 3400 series processors which will be deployed in low-cost servers.

At the Intel event in Taipei, PC vendors showed off computer systems giving consumers an idea of how much a new computer system, with the new Intel microprocessors, would cost.

There are about 40 new motherboards built by partners for the new Intel

microprocessors. The Core i5-750, Core i7-860 and Core i7-870, were launched by some of the leading manufactures that included Asustek Computer, Gigabyte Technology, Micro-Star International (MSI), Elitegroup Computer Systems and Foxconn Technology.

To give you an idea of pricing, GenuinePC of Taipei, showed a desktop system with an Intel Core i7-860 2.8GHz quad core microprocessor, 500GB hard disk drive, 4GB of DDR3 DRAM, Nvidia 9800GT graphics card and a Blu-ray Disc combo drive with Microsoft Windows Vista Home Premium, selling for 1,219 US dollars.

New software and operating systems are being re-engineered to take advantage of the multi-core and multi-threading capabilities. Both Apple's Snow Leopard (Mac OS X 10.6) and Microsoft's Windows 7 are both optimized for the Core i5 and i7.

Turbo mode, in the Core i5 and i7 can significantly boost the chips overall processing speed for short burst of intensive activity. This process directs one or more of the cores and diverts their processing capability to a single engine. Thereby a chip rated for 2.8GHz can increase to 3.2GHz on demand without stressing the chip or running the risk of overheating.

Via: Digital Life