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# Tech Bulletin

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## **Intel Embedded Customers Unveil Products Based on New Intel® Xeon® Processors**

### **‘Jasper Forest’ Processors with Integrated I/O Prove Ideal for Communications and Storage Applications**

SANTA CLARA, Calif., Feb. 11, 2010 – Intel Corporation announced today that the new Intel® Xeon® processor C5500/C3500 series – previously codenamed “Jasper Forest” -- will be used in products by key embedded, communications, networking and storage industry players including Caswell\*, Gigabyte\*, Kontron\*, Lanner Electronics Inc.\* and Trenton Systems\*. The much-anticipated processors are paired with the Intel 3420 chipset and are ideal for communications, embedded and storage applications specifically designed to deliver increased compute density and integration.

With the Intel Xeon processor C3500/C5500 series, Intel engineers have, for the first time, integrated PCI Express\* (PCIe\*) and all input/output (I/O) functions onto a dual-processing Xeon chip. This greatly facilitates dense storage and communications solutions such as IPTV, On-Demand Video Services, VoIP, NAS, SAN and wireless radio network controllers. The Intel Xeon processor C3500/C5500 series, designed for the communications, embedded and storage market segments, maintains the performance of the Intel “Nehalem” architecture while lowering system power consumption by 27 watts when compared to the [Intel® Xeon® 5500 series processors](#)<sup>1</sup> that are designed for server applications.

“With the addition of the Intel Xeon two-chip solution, Intel is providing customers with superior processors to meet the needs of the rapidly shifting communications environment,” said Rose Schooler, general manager of the Performance Products Division of Intel’s Embedded and

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<sup>1</sup> Configurations of the systems used in the benchmark: two Intel® Xeon® processors LC5528 (“Jasper Forest”) at 2.13GHz, 60-watt thermal design power, with an Intel® 3420 chipset versus two Intel® Xeon® processors L5528 at 2.13 GHz, 60-watt thermal design power, with an Intel® 5520 chipset.

Communications Group. “The communications and embedded market segments are demanding higher computing densities. Intel is committed to providing customers with product choices that enable them to rethink their own system design around the many benefits of Intel architecture to make the best product possible.”

“This announcement extends the powerful performance of Intel Xeon processors into other key areas of the datacenter including storage,” said Seth Bobroff, general manager, Data Center Group, Storage, Intel. “The integration of PCIe and key storage features, such as RAID acceleration and non-transparent bridging for high-availability failover, enables a wide range of systems on a common architecture with robust performance and thermal options.”

### **Ecosystem Product Details**

Today, equipment manufacturers around the world unveiled offerings for the communications, embedded and storage market segments based on the Intel Xeon processor C5500/C3500 series, including:

- The [Caswell CAR-5000](#), a two-socket, 2U rack mount network appliance intended for such high-performance networking applications as Unified Threat Management (UTM), anti-virus, firewall, Virtual Private Network (VPN) and content filtering.
  - The [Gigabyte GA-7JASV](#) is a common ATX size motherboard designed for networking servers and other communications systems.
  - The [Kontron AM5030](#) is a double-wide, full-size AdvancedMC\* module designed for dense server environments deployed in storage, military/aerospace and communications networks.
  - The [Lanner FW-8910](#) is a 2U rack mount dual-CPU appliance intended for the performance segment of the network security, Network Admission Control (NAC) and WAN acceleration market segments.
  - The [Trenton JXT6966](#) is a PICMG\* 1.3 System Host Board (SHB) for use in compute-intensive embedded, military/defense, medical imaging and communication system designs.
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- Other ecosystem players unveiling offerings for the storage market segment based on the Intel Xeon processor C5500/C3500 series include [AIC/Xtore](#), [Brainaire](#), [Celestica](#), [Promise Technology, Inc.](#), [United Information Technology](#) and [Xyratex International Inc.](#)

**Pricing and Availability**

The new Intel Xeon processors will be offered with Intel’s standard 7-year lifecycle support for communications, embedded and storage customers. Pricing options are as follows:

<b>Processor</b>	<b>Thermal Design Power</b>	<b>Cores / Threads</b>	<b>1 ku Pricing</b>
Intel® Xeon® processor EC5549	85W	4 / 8	\$530
Intel® Xeon® processor EC5509	85W	4	\$265
Intel® Xeon® processor EC3539	65W	4	\$302
Intel® Xeon® processor LC5528	60W	4 / 8	\$519
Intel® Xeon® processor EC5539	65W	2	\$387
Intel® Xeon® processor LC5518	48W	4 / 8	\$519
Intel® Xeon® processor LC3528	35W	2 / 4	\$302
Intel® Xeon® processor LC3518	23W	1	\$192
<b>Chipset</b>			
Intel® Xeon® 3420 chipset	4.7 W	N/A	\$31

Processor samples for customers are available now. All processors will be generally available within 90 days. For more information about the new Intel Xeon processor C5500/C3500 series, visit [www.intel.com/pressroom/kits/embedded](http://www.intel.com/pressroom/kits/embedded) and [www.intel.com/embedded/onelesschip.htm](http://www.intel.com/embedded/onelesschip.htm).

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