Re-Architecting the Data Center

SANTA CLARA, Calif., Sept. 10, 2014 – At the Data Center Mega Session at the Intel Developer Forum, Intel Senior Vice President Diane Bryant discussed how data centers are being re-architected, driven in large part by the rise of the digital service economy. In the session, Bryant described the future of the data center being defined by increasing levels of workload optimization, a move to software-defined infrastructure and the industry transformation from advanced analytics.

News Highlights

- **Seven companies** at IDF are demonstrating early prototypes of equipment they’ve developed based on samples of upcoming Intel® Silicon Photonics optical modules. The Intel technology is designed to combine the speed (100 Gbps) and reach (up to 300 meters now and up to 2 km in the future) of photonics modules with the high-volume and reliability benefits of CMOS manufacturing. More information on Intel Silicon Photonics technology will be disclosed later this year.

- F5 Networks Inc. disclosed that it is one of the companies evaluating Intel’s new customizable chips based on industry-leading Intel® Xeon® processors. Using this capability, companies will be able to incorporate their specific features into Intel Xeon processors via a field-programmable gate array (FPGA) in the same package.

- Intel disclosed it is sampling the Intel® Xeon® processor D family to customers. The product is the first system-on-a-chip (SoC) under the Intel Xeon brand and the third generation of Intel 64-bit SoCs designed for the data center. The Intel Xeon processor D is expected to be in production in the first half of 2015.

- On Monday, Sept. 8, Intel introduced the Intel Xeon Processor E5-2600/1600 v3 product families to address the requirements of diverse workloads and the rapidly evolving needs of data centers. The new processor families include numerous enhancements providing performance increases up to 3x versus the previous generation\(^1\), world-class energy efficiency\(^2\) and enhanced security.

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