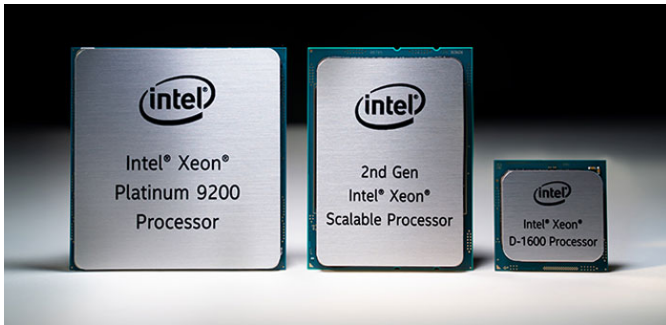# Intel Presents 2nd Gen Xeon Scalable Processors

Written by Marco Attard
04 April 2019

Intel further cements its datacentre strategy at the "Data-Centric Innovation Day" event with the launch of the 2nd generation Xeon Scalable processors aimed at enterprise, cloud and communication service providers.

Previously dubbed "Cascade Lake," Xeon Scalable processors support Optane DC persistent memory, bringing support for up to 36TB of system-level memory capacity in combination with traditional DRAM. Turbo Boost 2.0 technology ramps up to 4.4GHz, alongside memory subsystem enhancements with support for DDR4-2933 MT/s and 16 Gb DIMM densities.

A built-in Deep Learning Boost promises up to 14x inference through throughput improvement, while Speed Select technology allows the configuration to performance settings of core counts and frequencies, creating "three CPUs in one."

The flagship 2nd gen Xeon Scalable processor is the Platinum 9200-- a chip featuring up to 56 cores and 12 memory channels aimed at high-performance computing (HPC), advanced analytics, AI and high-density infrastructures. Following are the Xeon Platinum 8200 (with up to 28 cores in 2-, 4- and 8-socket configurations), Xeon Gold 6200 (networking specialised (NFVi optimized) SKUs with Intel Speed Select technology with up to 24 cores), Xeon Gold 5200 (NFVi optimized SKUs with up to 18 cores), Xeon Silver 4200 (up to 12 corews and as low as 70W TDP) and Xeon Bronze 3200 (entry-level upgrade over Xeon E processors).

In addition, Intel also presents the Xeon D-1600 range of high-density SoC processors for edge computing applications. Designed for dense environments, the processors come in configurations with up to 8 cores, and feature QuickAssist and Virtualisation technology for workload-optimised performance. Hardware-enhanced security benefits virtualised network functions (VNFs), control plane and mid-range storage solutions.

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Another announcement involves FPGAs-- the Agilex range of 10nm FPGAs designed for
flexible acceleration in edge computing, embedded, networking and datacentres.

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