



REV UP YOUR NEW CLOUD ENGINE.




UP TO 1.74X

Gen-to-Gen Performance¹

- Redesigned, six-channel memory subsystem
- Up to 28 cores per socket
- New Intel® Ultra Path Interconnect²



UP TO 2X

Acceleration for Crypto and Compression Workloads³ with Intel® QuickAssist Technology



UP TO 1.63X

Faster in Storage-Intensive Applications⁴ with Intel® Optane™ Technology



UP TO 1.26X

Speed Increase from Enhanced Vectorization⁵ with Intel® Advanced Vector Extensions 512 (Intel® AVX-512)

THE NEW INTEL® XEON® SCALABLE PROCESSORS

www.intel.com/XeonScalable
www.intel.com/XeonSoftwareSolutions

¹ Gen-to-gen performance. Baidu Search Click-Through-Rate (CTR)*, OS: CentOS* Linux* release 7.3.1611. Testing by Intel June 2017.
BASELINE: 2x Intel® Xeon® processor E5-2699 v4 @ 2.2 GHz, Intel® Turbo Boost Technology and Intel® Hyper-Threading Technology enabled, 128 GB total memory (8 slots, 16 GB, 2400 MT/s, DDR4 RDIMM), Intel® SSD DC S3700 Series (800 GB).
NEW: 2x Intel® Xeon® Platinum 8180 processor @ 2.5 GHz, Intel Turbo Boost Technology and Intel Hyper-Threading Technology enabled, 192 GB total memory (12 slots, 16 GB, 2666 MT/s, DDR4 RDIMM), Intel® SSD DC S3700 Series (800 GB).

² www.intel.com/XeonScalable.

³ Intel® QuickAssist Technology performance. Neusoft SaCa* Aclome*, compressing/decompressing workload. OS: CentOS* 7.3.1611. Testing by Intel and Neusoft May 2017.
BASELINE: 2x Intel® Xeon® processor E5-2699 v4 @ 2.2 GHz, Intel® Turbo Boost Technology and Intel® Hyper-Threading Technology enabled, 128 GB total memory (8 slots, 16 GB, 2400 MT/s, DDR4), SATA SSD.
NEW: 2x Intel® Xeon® Platinum 8180 processor @ 2.5 GHz, Intel Turbo Boost Technology and Intel Hyper-Threading Technology enabled, Intel® C627 Chipset, 128 GB total memory (8 slots, 16 GB, 2666 MT/s, DDR4), SATA SSD.

⁴ Intel® Optane™ Technology performance. Kingsoft Cloud Image Processing and MySQL Cloud Service*, OS: CentOS* 7.3.1611. Testing by Intel May 2017.
BASELINE: Intel® Xeon® Platinum 8180 processor @ 2.5GHz, Intel® Turbo Boost Technology and Intel® Hyper-Threading Technology enabled, 192 GB total memory (12 slots, 16 GB, 2666 MT/s, DDR4), Intel® SSD DC S3700 Series (800 GB).
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⁵ Intel® AVX-512 performance. Tencent In-Game Purchase Machine Learning Platform*, OS: CentOS* 7.3.1611. Testing by Intel May 2017.
BASELINE: Intel® Xeon® Platinum 8180 processor @ 2.5GHz, Intel® Turbo Boost Technology and Intel® Hyper-Threading Technology enabled, 192 GB total memory (12 slots, 16 GB, 2666 MT/s, DDR4), Intel® SSD DC S3700 Series (800 GB).

Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors. Performance tests, such as SYSmark and MobileMark, are measured using specific computer systems, components, software, operations and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products. For more complete information visit www.intel.com/performance/datacenter.
 Normalized performance is calculated by assigning a baseline value of 1.0 to one benchmark result, and then dividing the actual benchmark result for the baseline platform into each of the specific benchmark results of each of the other platforms, and assigning them a relative performance number that correlates with the performance improvements reported.
 *Other names and brands may be claimed as the property of others.