

2nd Gen Intel[®] Xeon[®] Scalable Platform

Be Ready for the Future on Your Terms

Modernization is the first step to transforming IT from a cost center to a profit-driving engine for modern, data-driven businesses. Intel has a growing and differentiated portfolio of datacentric technologies designed for modern infrastructure that will accelerate a range of business-critical workloads and help drive faster value from data. This includes 2nd Gen Intel[®] Xeon[®] Scalable processors combined with Intel[®] Optane[™] DC Solid State Drives (SSDs).

Performance to Propel Insights

New 2nd Gen Intel Xeon Scalable processors deliver outstanding improvements in performance, whether investing in new infrastructure or refreshing to the latest generation.

2014 doesn't feel that long ago, but with up to 4.3X performance improvement, 2nd Gen Intel Xeon Scalable processors bring transformational upgrades to dated infrastructure across a wide range of applications.



OLTP Database **Big Data BigBench (3TB) HammerDB** HiBench intel (intel) intel XEON XEON XEON' 2nd Gen 2nd Gen 2nd Gen Intel® Xeon® Platinum 8280 and Intel® Xeon® Gold 6248 Intel® Xeon® Gold 6248 Intel[®] SSD DCP4610 Series UP **2.3X**² HIGHER PERFORMANCE VS **HIGHER PERFORMANCE VS** FASTER TIME TO INSIGHTS VS 5-YEAR SYSTEM **5-YEAR SYSTEM 5-YEAR SYSTEM** Intel[®] Xeon[®] processor Intel[®] Xeon[®] processor Intel[®] Xeon[®] processor E5-2697 v2 E5-2697 v2 E5-2697 v2

Benefits of the Latest Software and Hardware Innovation

Modernizing IT infrastructure with Windows* Server 2019 and SQL Server 2017 on 2nd Gen Intel Xeon Scalable processors accelerates innovation and delivers business value to decrease "technical debt", support expanding workloads and DevOps, improve data security and deliver an easier path to hybrid cloud.



Decrease "Technical Debt"

Modernize legacy applications and infrastructure, lower TCO, improve efficiencies, and reduce unplanned downtime.



Support Expanding Workloads and DevOps

Get faster insights from data intensive workloads, speed time to market of new apps and services, and deliver self-service & developer-friendly tools.



Improve Data Security

Trusted multilayer security and compliance is GDPR ready, delivers faster data recovery, and incorporates SDN for improved network security out to the edge.



Easier Path to Hybrid Cloud with Human -Computer Interaction (HIC)

Highly scalable performance with centralized management and orchestration enable agility with control for faster deployment of services.

Real TCO Benefits, and Fast

Don't let legacy infrastructure hold your business back. Realize up to 60% savings with fewer servers delivering similar levels of performance. Be ready to compete—today and in the future— with efficient, secure data center solutions optimized for the 2nd Gen Intel Xeon Scalable platform. Can your customers afford to wait?





erformance results are based on testing by Intel as of February 2019 and may not reflect all publicly available security updates. See configuration disclosures for details. No product or component can be absolutely secure.
oftware 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 th 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/benchmarks
OLTP Watchware calim of up to 37X: 1-node, 2: Intel % Secore 720 Cance Pass with 256 GB (16 slots; 16 GB / 1866) total memory, ucode 0x420 on RHEJ76, 3100-457/d7.466; <u>65</u> , 2: Intel % CP3700 PCI-E SSD for RED0, Hammer0B 3.1, HT on, Turbo on, result: transactions per minute-2242024, testby/intel on 2/1/2019, vs. 1-node, 2: Intel % CP4 on % Haltnum 8280 CPU on Wolf Pass with 384 GB (12 slots; 13 2 GB / 2833) total memory, ucode 0x4000013 on RHEJ76, 3100-457/d7.466; <u>65</u> , 2: Intel % CP3700 PCI-E SSD for RED0, Hammer0B 3.1, HT on, Turbo on, result: transactions transactions per minute=4459206, testby linel on 2/1/2019.
BigBench* claim of 2.3X: 1+4-node, 2x Intel* Xeon* processor E5-2697 v2 on S2600.JF with 128 GB (8 slots / 16GB / 1866) total memory. ucode 0x42d on CentOS-7.6.1810, 4.20.0-1.el7.x86_64, 1x 180GB SATA3 SSD, 3x Seagate ST4000NM0033 (ATB), 1x Intel I350, TPCx-B8 v1.2 (not for publication) / 3TB/ 2 Streams, Millb, Or Hor-Sport 18.0_19, python-2.7.5, Apache Hadoop-2.9.2, Apache Spark-2.0.2, Hive 2.2 * CustomCommit,, HT on, Turbo on, result queries per min-265, test by Intel on 1/24/2018. 1+4-node, 2x Intel* Xeon* Cold 6148 processor on S2600W with 768 GB [84 GB used] (12 alorst / 164 GB [284 GB used]) total memory. ucode 0x400000A on CentOS-7.6.1810, 42:00-1 817x66_64, Intel SSD DC S3710, 6x Seagate ST2000NX0233 (2TB), 1x Intel X722, TPCx-B8 v1.2 (not for publication) / 3TB/ 2 Streams, Millb, Oracle Hot-Sport 1.8.0_191, python-2.7.5, Apache Hadoop-2.9.2, Apache Spark-2.0.2, Hive 2.2 + CustomCommit,, HT on, Turbo on, res queries per minim622, test by Intel on 1/12/2019.
HiBench claim of 4.3X: 1+4-node, 2x.Intel [®] Xeon [®] processor E5-2697 v2 on 52600.JF with 128 GB (8 slots / 16GB / 1865) total memory, ucode 0x42d on Cent05-76.1810, 42.00-1e17x86_64, 1x 180GB 5ATA3 SSD, 3x Seagate ST40001M0033 (4TB), 1x Intel 150, HiBench v71 / bigdata, Millb, Open.JDK-18.0_191, python-2.7. Apache Hadoop-2.9.1, Apache Spaik-2.2, H [®] On Trubo on, result Spaik/Kmeans-1193M, Hadoop/kmeans-436 M, Spair/Sort=301M, Spair/Sort=301
Per node X1 higher Integre Househout performance estimate based on SPEC rel:2007 v1.2, Complein Intel and 2018 1: node, 24 limit Xeon? Processor SE-5269, 12602 Intel Antemory, 16 liol X / GM / 1600/HT/S DD3 PDI/M4, Benchmark: SPEC CPU2017 V1.2, Complein Intel Xeon? Basin Anter Ante

benchmarks and other benchmark results may show greater or lesser impact from mitigations. Performance tests, such as STSmark 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. Yo consult other information and performance tests to assist you in fully evaluating your commplated purchases; including the performance of that product when combined with other products. For more complete information visit www.intel.com/benchmarks. Configuration defaults to to 60% TO assists with intelling to a performance of that product when combined with other products. For more complete information visit www.intel.com/benchmarks. Configuration defaults to to 60% TO assists with intelling to a performance of that product when combined with other products. For more complete information visit www.intel.com/benchmarks. Configuration defaults to to 60% TO assists with intelling to a performance of the perfo

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