

INTEL® XEON® SCALABLE PROCESSORS

MISSION-CRITICAL WORKLOADS? MISSION ACCOMPLISHED

The innovative **Intel® Xeon® Scalable processors** are architected to provide the foundation for mission-critical workloads. The new **Intel® Xeon® Platinum and Gold processors** are optimized to deliver exceptionally fast performance and high reliability for robust business continuity.

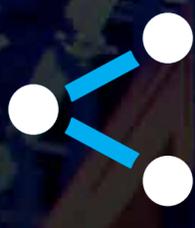


WHAT IS MISSION CRITICAL?

Business today depends on rapidly gathering and analyzing massive amounts of data—resulting in more mission-critical workloads than ever before. The performance of those diverse and ever-evolving workloads can make the difference between business success and failure.



Advanced Analytics and In-Memory databases



Business Processing
(e.g., CRM, ERP, OLTP)



Big Data Analytics
(27.8% CAGR¹)

Mission-critical workload requirements

Five 9's availability – 24/7 server uptime | Faster time to insight | Hardware-enhanced platform resilience

BUILT FOR MISSION CRITICAL: THE INTEL® XEON® SCALABLE PROCESSORS

The new **Intel Xeon Scalable processors** feature the largest set of platform advancements this decade. Designed for five 9's availability, the processors deliver a huge boost in performance, reliability, and data integrity.

KEY FEATURES

UP TO
28 CORES
AND **56 THREADS**
per processor

1-8+ SOCKET
scalability to address the
widest variety of workloads

NEW 
Intel® Mesh Architecture
with new Intel® Ultra Path
Interconnect Links

Increased memory bandwidth, with
SIX MEMORY CHANNELS
and up to 2666 MHz DDR4 speed

HIGH AVAILABILITY

 **DESIGNED FOR**
99.999%
server uptime

PERFORMANCE

PERFORMANCE DELIVERS **1.65X**
average performance boost
over prior generation²

UP TO
5X tpm gains³ on mission
critical 4-socket
applications

ADVANCED PLATFORM RESILIENCE

72+ RAS (Reliability, availability, serviceability) features including **Intel® Run Sure Technology (Advanced RAS)**, to reduce cost and frequency of unplanned server downtime

ENHANCED PERFORMANCE FOR SAP HANA

The Intel Xeon processor Scalable family is the ideal solution for advanced analytics and for real-time in-memory database workloads—including enhanced performance for SAP HANA.

UP TO
1.59X **BETTER PERFORMANCE**
for in-memory SAP HANA workloads
than previous generation⁴

UP TO
6X **MORE MEMORY**
for four- or eight-socket configurations
than systems representing a 4-year old
install base

GET STARTED

Mission-critical workloads demand the best—and the **Intel® Xeon® Platinum and Gold processors** deliver. Visit www.intel.com/xeonscalable for details.

Results have been estimated based on internal Intel analysis and are provided for informational purposes only. Any difference in system hardware or software design or configuration may affect actual performance. 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 information go to <http://www.intel.com/performance/datacenter>.

¹ Intel and industry estimates.

² Geomean based on Normalized Generational Performance (estimated based on Intel internal testing of OLTP Brokerage, SAP SD 2-Tier, HammerDB, Server-side Java, SPECint_rate_base2006, SPECfp_rate_base2006, Server Virtualization, STREAM triad, LAMMPS, DPOK, L3 Packet Forwarding, Black-Scholes, Intel Distribution for LINPACK).

³ Up to 5x claim based on OLTP Warehouse workload: 1-Node, 4x Intel® Xeon® Processor E7-4870 on Emerald Ridge with 512 GB Total Memory on Oracle Linux® 6.4 using Oracle 12c running 800 warehouses. Data Source: Request Number: 56. Benchmark: HammerDB, Score: 2.46322e+006 Higher is better vs. 1-Node, 4x Intel® Xeon® Platinum 8180 Processor on Lightning Ridge SKX with 768 GB Total Memory on Red Hat Enterprise Linux® 7.3 using Oracle 12.2.0.1 (including database and grid) with 800 warehouses. Data Source: Request Number: 2542. Benchmark: HammerDB, Score: 1.2423e+007 Higher is better. Claim based on 4 year system refresh over Intel Xeon processor E7-4870 [Westmere Q1'11].

⁴ Up to 1.59x claim based on SAP testing of SAP® HANA workload: 1-Node, 4S Intel® Xeon® Processor E7-8890 v4 on Grantley-EX-based platform with 1024 GB Total Memory on SLES12SP1 vs. estimates based on SAP internal testing on 1-Node, 4S Intel® Xeon® processor Scalable family (codename Skylake-SP) system.