

ThinkSystem SR950 Sets Two World Records with New Eight-Socket SPECcpu Result Performance Benchmark Result

The Lenovo ThinkSystem SR950 server delivers world-record eight-socket performance for compute-intensive applications with two new results of the SPEC CPU2017 benchmark.

The ThinkSystem SR950 with eight processors achieved the following SPEC CPU2017 scores:

- **SPECspeed2017_fp_base: 239**
- **SPECspeed2017_int_base: 10.0**

The SPECspeed2017_int_base and SPECspeed2017_fp_base tests are ideal for measuring single-threaded compute-intensive applications, such as High Frequency Trading (HFT) and other financial industry workloads.



The ThinkSystem SR950 was configured as follows:

- For the SPECspeed2017_fp_base: 8x Intel Xeon Platinum 8280 processors
 - 2.7 GHz base frequency, 38.5 MB L3 cache
 - 3 processors, each 28 cores and 56 threads
- For the SPECspeed2017_int_base: 8x Intel Xeon Platinum 8280L processors
 - 2.7 GHz base frequency, 38.5 MB L3 cache
 - 3 processors, each 28 cores and 56 threads
- 3 TB of TruDDR4 memory
- SUSE Linux Enterprise Server 15

The result is current as of April 2, 2019.

To view details of these results, go to:

- SPECspeed2017_fp_base
<https://www.spec.org/cpu2017/results/res2019q2/cpu2017-20190318-11241.html>
- SPECspeed2017_int_base
<https://www.spec.org/cpu2017/results/res2019q2/cpu2017-20190318-11247.html>

To view all SPEC CPU2017 results, go to
<http://www.spec.org/cpu2017/results/>

About the ThinkSystem SR950

Lenovo ThinkSystem SR950 is designed for your most demanding, mission-critical workloads, such as in-memory databases, large transactional databases, batch and real-time analytics, ERP, CRM, and virtualized server workloads. The powerful 4U ThinkSystem SR950 can grow from two to eight second-generation Intel Xeon Scalable Family processors, and with 96 DIMM sockets, supports up to 24 TB of high-speed memory. The modular design of SR950 speeds upgrades and servicing with easy front or rear access to all major subsystems to maximize server availability. The ThinkSystem SR950 also supports Intel Optane DC Persistent Memory delivering a new, flexible tier of memory designed specifically for data center workloads that offer an unprecedented combination of high-capacity, affordability and persistence.

The SR950 packs numerous fault-tolerant and high-availability features into a high-density, 4U rack-optimized design that reduces the space needed to support massive network computing operations and simplify servicing. Lenovo XClarity Controller is an all-new hardware embedded management engine common in every ThinkSystem server. XClarity Controller features an uncluttered graphical user interface, industry standard Redfish-compliant REST APIs, and enables booting in half the time of prior generation servers, with up to 6x faster firmware updates.

Lenovo XClarity Administrator is a virtualized application that centrally manages ThinkSystem servers, storage, and networking. Via reusable patterns and policies, it ramps up and scales infrastructure provisioning and maintenance. It serves as a central integration point to extend your data center management processes to physical IT. Running XClarity Integrators in external IT applications, or integrating through REST APIs, helps you further speed services provisioning, streamline IT management, and contain costs.

ThinkShield is a comprehensive approach to security designed to secure the data center, from the foundation of your infrastructure to the network's edge and guard against a security breach. ThinkShield protects your business with each offering, from development through disposal.

About SPEC CPU2017

SPEC CPU 2017 is SPEC's next-generation, industry-standardized, CPU intensive suite of benchmarks for measuring and comparing compute intensive performance, stressing a system's processor, memory subsystem and compiler. This benchmarks provides a comparative measure of compute-intensive performance using workloads developed from real user applications.

The SPEC CPU 2017 benchmark suite measures server performance in the following ways:

- SPECspeed 2017 is to compare time for a computer to complete single tasks
- SPECrate 2017 is to measure the throughput or work per unit of time.

This benchmark is targeted for use by hardware vendors, IT industry, computer manufacturers, and government.

Learn more

To learn more about solutions for compute-intensive applications, please contact your Lenovo Sales Representative.

To find out more about SPEC, visit <https://www.spec.org>

To learn more about the Lenovo ThinkSystem SR950 server, visit the SR950 product web page: <https://www.lenovo.com/us/en/data-center/servers/mission-critical/Lenovo-ThinkSystem-SR950/p/77XX7HSSR95>

Related product families

Product families related to this document are the following:

- [Mission-Critical Rack Servers](#)
- [ThinkSystem SR950 Server](#)
- [4-Socket Rack Servers](#)
- [SPECcpu Benchmark Results](#)

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