ThinkSystem SR635 V3 Sets 2 World Records with New SPECcpu Benchmark Result

Performance Benchmark Result

The Lenovo ThinkSystem SR635 V3 server has set two performance world records for compute-intensive applications with new results of the SPEC CPU2017 benchmark.

The benchmark world records are:

- Best SPECspeed2017_fp_base score on a 1-processor system
- Best SPECspeed2017_fp_peak score on a 1-processor system

These new benchmark results, published in new SPEC reports on October 10, 2024, demonstrate that the ThinkSystem SR635 V3 continues Lenovo's leadership with outstanding performance for the server industry.

The ThinkSystem SR635 V3 achieved the following two top SPECCPU2017 scores:

- **SPECspeed2017_fp_base: 410** (1)
- **SPECspeed2017_fp_peak: 412** (2)

SPECspeed2017 scores are ideal for measuring single-threaded compute-intensive applications, such as High Frequency Trading (HFT) and other financial industry workloads.

SPECrate2017 scores are ideal for measuring multi-threaded compute-intensive applications, such as High Performance Computing (HPC) workloads.

The Lenovo ThinkSystem SR635 V3 server was configured as follows:

- 1x AMD EPYC 9655 processor - 96 cores, 2.60 GHz, 384 MB L3 cache
- 384 GB system memory
- Red Hat Enterprise Linux 9.4

The results are current as of October 10, 2024. To view details of the results, see the following SPEC web pages:

(1) Best overall 1 CPU SPECspeed2017_fp_base score. Used RHEL9.4
https://spec.org/cpu2017/results/res2024q4/cpu2017-20240924-44888.html

(2) Best overall 1 CPU SPECspeed2017_fp_peak score. Used RHEL9.4
https://spec.org/cpu2017/results/res2024q4/cpu2017-20240924-44888.html

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

About the ThinkSystem SR635 V3

The versatile ThinkSystem SR635 V3 provides better performance per cost, powered by a single 5th Gen AMD EPYC™ "Turin" family processor. The SR635 V3 is designed with storage-rich flexibility, by including up to 12x 2.5" hot-swappable drives with combinations of SAS/SATA, NVMe, or AnyBay™ technologies. It is easily configured for today's workloads, such as virtualization and private cloud, and can easily scaled up or down as needed.

Ideal for business applications and intensive workloads, the SR635 V3 is reliable, secure and easy to manage. ITIC named Lenovo servers #1 for reliability and uptime. Security with Lenovo ThinkShield also begins at the factory with our Root of Trust and follows the server throughout its life. The addition of Lenovo XClarity system management software also enable easy management from any location.

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 SR635 V3 server, visit the SR635 V3 product web page: https://www.lenovo.com/us/en/p/servers-storage/servers/racks/thinksystem-sr635-v3/7d9ga010na

Related product families

Product families related to this document are the following:

- 1-Socket Rack Servers
- SPECcpu Benchmark Results
- ThinkSystem SR635 V3 Server

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