

ThinkSystem SR675 V3 Sets 6 World Records with New SPECcpu Benchmark Result Performance Benchmark Result

The Lenovo ThinkSystem SR675 V3 server has set six performance world records for compute-intensive applications with new results of the SPEC CPU2017 benchmark.

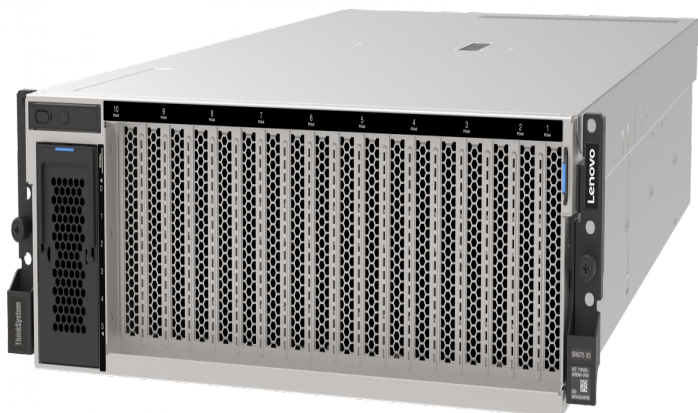
The benchmark world records are:

- Best SPECspeed2017_int_base score on a 2-processor system
- Best SPECspeed2017_int_base score
- Best SPECspeed2017_fp_base score on a 2-processor system
- Best SPECspeed2017_fp_base score
- Best SPECspeed2017_fp_peak score on a 2-processor system
- Best SPECspeed2017_fp_peak score

These new benchmark results, published in new SPEC reports on October 10, 2024, demonstrate that the ThinkSystem SR675 V3 continues Lenovo's leadership with outstanding performance for the server industry.

The ThinkSystem SR675 V3 achieved the following SPEC CPU2017 scores:

- **SPECspeed2017_int_base: 21.3 (1,2)**
- **SPECspeed2017_fp_base: 564 (3,4)**
- **SPECspeed2017_fp_peak: 575 (5,6)**



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 SR675 V3 server was configured as follows:

- 2x AMD EPYC 9575F processor - 64 cores, 3.30 GHz, 256 MB L3 cache per processor
- Up to 768 GB system memory
- SUSE Linux Enterprise Server 15 SP6

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

(1) Best overall 2 CPU SPECspeed2017_int_base score. Used SUSE 15SP6
<https://spec.org/cpu2017/results/res2024q4/cpu2017-20240924-44921.html>

(2) Best overall CPU SPECspeed2017_int_base score. Used SUSE 15SP6
<https://spec.org/cpu2017/results/res2024q4/cpu2017-20240924-44921.html>

(3) Best overall 2 CPU SPECspeed2017_fp_base score. Used SUSE 15SP6
<https://spec.org/cpu2017/results/res2024q4/cpu2017-20240924-44917.html>

(4) Best overall SPECspeed2017_fp_base score. Used SUSE 15SP6
<https://spec.org/cpu2017/results/res2024q4/cpu2017-20240924-44917.html>

(5) Best overall 2 CPU SPECspeed2017_fp_peak score. Used SUSE 15SP6
<https://spec.org/cpu2017/results/res2024q4/cpu2017-20240924-44918.html>

(6) Best overall SPECspeed2017_fp_peak score. Used SUSE 15SP6
<https://spec.org/cpu2017/results/res2024q4/cpu2017-20240924-44918.html>

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

About the ThinkSystem SR675 V3

The Lenovo ThinkSystem SR675 V3 is a powerful and versatile server designed to meet the demands of modern data center environments. The server delivers optimal performance for Artificial Intelligence (AI), High Performance Computing (HPC) and graphical workloads across an array of industries. The SR675 V3 is a versatile GPU-rich 3U rack server that supports eight double-wide GPUs including the new NVIDIA H100 and L40S Tensor Core GPUs, or the NVIDIA HGX H100 4-GPU offering with NVLink and Lenovo Neptune hybrid liquid-to-air cooling.

The server is based on the new 5th Gen AMD EPYC 9005 Series processors (formerly codenamed "Turin") and on the AMD EPYC 9004 Series processors (formerly codenamed "Genoa", "Genoa-X" and "Bergamo") with up to 160 PCIe lanes and up to 3TB of the latest DDR5 memory. Multiple drive options using SAS/SATA and NVMe with hot-swap capabilities and XClarity system management software enable changes to be made quickly with ease. The versatile design doesn't stop at storage; the SR675 V3 includes support for multiple options for GPU and PCIe to satisfy graphics, speed, and budget requirements.

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 SR675 V3 server, visit the SR675 V3 product web page:
<https://www.lenovo.com/us/en/p/servers-storage/servers/racks/thinksystem-sr675-v3/7d9r1000na>

Related product families

Product families related to this document are the following:

- [2-Socket Rack Servers](#)
- [SPECcpu Benchmark Results](#)
- [ThinkSystem SR675 V3 Server](#)

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