



ThinkSystem SR850 V4 Sets 2 World Records with New SPECcpu Benchmark Result

Performance Benchmark Result

The Lenovo ThinkSystem SR850 V4 server has set two performance world records for compute-intensive applications with new results of the SPEC CPU 2017 benchmark.

The benchmark world records are:

- Best SPECrate2017_int_energy_base score on a 4-processor system
- Best SPECrate2017 fp energy base score on a 4-processor system

These new benchmark results, published in new SPEC reports on September 26, 2025, demonstrate that the ThinkSystem SR850 V4 continues Lenovo's leadership with outstanding performance for the server industry.



The ThinkSystem SR850 V4 achieved the following SPEC CPU 2017 scores:

SPECrate2017_int_energy_base: 1490 (1)
SPECrate2017 fp energy base: 1500 (2)

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

The Lenovo ThinkSystem SR850 V4 server was configured as follows:

- 4 x Intel Xeon 6788P processor 86 cores, 2.00 GHz, 336 MB L3 cache
- 2 TB system memory
- SUSE Linux Enterprise Server 15 SP7

The results are current as of September 26, 2025. To view details of the results, see the following SPEC web pages:

- (1) Best 4-CPU SPECrate2017_int_energy_base score. Used SUSE 15SP7 https://spec.org/cpu2017/results/res2025q3/cpu2017-20250908-49482.html
- (2) Best 4-CPU SPECrate2017_fp_energy_base score. Used SUSE 15SP7 https://spec.org/cpu2017/results/res2025q3/cpu2017-20250908-49480.html

To view all SPEC CPU 2017 results, go to http://www.spec.org/cpu2017/results/

About the ThinkSystem SR850 V4

The Lenovo ThinkSystem SR850 V4 is a 4-socket large-memory server that is densely packed into a 2U rack design. The server offers technology advances, including Intel® Xeon® 6700-Series P-core processors, up to 16 TB of 6400 MHz DDR5 memory, and up to 12x PCIe Gen 5 slots for adapters.

The SR850 V4 is designed to handle a wide range of data services workloads with large memory footprint demands, such as databases including in-memory databases, data lakes, big data analytics, business intelligence, and OLTP. See more information at https://lenovopress.lenovo.com/lp2230-thinksystem-sr850-v4-server.

About SPEC CPU 2017

SPEC CPU 2017 is SPEC's industry-standard suite of benchmarks for measuring and comparing compute intensive performance, stressing a system's processor, memory subsystem and compiler. This benchmark 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 SR850 V4 server, visit the SR850 V4 product web page: https://www.lenovo.com/us/en/p/servers-storage/servers/mission-critical/thinksystem-sr850-v4/len21ts0044

Related product families

Product families related to this document are the following:

- 4-Socket Rack Servers
- SPECcpu Benchmark Results
- ThinkSystem SR850 V4 Server

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