ThinkSystem SD535 V3 Sets 2 World Records with New SPEC CPU Benchmark Result
Performance Benchmark Result

The Lenovo ThinkSystem SD535 V3 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_base score on a 1-processor system
- Best SPECrate2017_int_peak score on a 1-processor system

These new benchmark results, published in new SPEC reports on December 4, 2024, demonstrate that the ThinkSystem SD535 V3 continues Lenovo's leadership with outstanding performance for the server industry.

The ThinkSystem SD535 V3 achieved the following SPEC CPU 2017 scores:

- **SPECrate2017_int_base: 1510** (1)
- **SPECrate2017_int_peak: 1570** (2)

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

The Lenovo ThinkSystem SD535 V3 server was configured as follows:

- 1 x AMD EPYC 9965 processor - 192 cores, 2.25 GHz, 384 MB L3 cache
- 768 GB system memory
- SUSE Linux Enterprise Server 15 SP6

The results are current as of December 4, 2024. To view details of the results, see the following SPEC web pages:

(1) Best 1-CPU SPECrate2017_int_base score. Used SUSE 15SP6
https://spec.org/cpu2017/results/res2024q4/cpu2017-20241118-45545.html

(2) Best 1-CPU SPECrate2017_int_peak score. Used SUSE 15SP6
https://spec.org/cpu2017/results/res2024q4/cpu2017-20241118-45545.html

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

About the ThinkSystem SD535 V3

The 1U half-width ThinkSystem SD535 V3 multi-node server, powered by AMD, provides flexible high-density compute with increased storage over other multi-node servers. With double the CPU density of a standard 1U server, it is ideal for large enterprises who need to process large amounts of data quickly. The ThinkSystem SD535 V3 is also thermally designed for efficiency with 1U optimized thermals, up to 4 nodes sharing only 2 or 3 power supplies. It provides efficient, dense, processing while minimizing OPEX.

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 SD535 V3 server, visit the SD535 V3 product web page: https://www.lenovo.com/us/en/p/servers-storage/servers/multi-node/lenovo-thinksystem-sd535-v3/len21ts0033

Related product families

Product families related to this document are the following:

- Multi-Node Servers
- SPECcpu Benchmark Results
- ThinkSystem SD535 V3 Server

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