

ThinkSystem SR950 V3 Sets 2 World Records with New SPECCompG Benchmark Result Performance Benchmark Result

The Lenovo ThinkSystem SR950 V3 server has set two new 8-socket performance world records with the SPECCompG_base2012 and SPECCompG_peak2012 metrics of the SPEC OMP2012 Benchmark.

This new benchmark result, published in a new SPEC report on September 2, 2024, demonstrate that the ThinkSystem SR950 V3 continues Lenovo's leadership with outstanding performance for the server industry.



The SPEC OMP2012 Benchmark suite is the industry standard to evaluate performance using applications based on the OpenMP 3.1 standard for shared-memory parallel processing and includes 14 scientific and engineering application codes, covering everything from computational fluid dynamics (CFD) to molecular modeling to image manipulation.

The ThinkSystem SR950 V3 has achieved the following scores:

- **SPECCompG_base2012 = 126**
- **SPECCompG_peak2012 = 138**

This result is the best 8-socket performance in the industry.

The SR950 V3 was configured as follows for the benchmark audit:

- 8x Intel Xeon 8490H processors (60 cores, 1.90 GHz)
- 4TB memory (64x 64GB RDIMMs, 4800MHz)
- ThinkSystem 1x 960GB SATA M.2 SSD
- Red Hat Enterprise Linux 9

Results referenced are current as of September 2, 2024.

The new Lenovo benchmark result can be found at:

<https://www.spec.org/omp2012/results/res2024q3/omp2012-20240804-00222.html>

To view all SPEC OMP2012 results, go to

<https://www.spec.org/omp2012/results/>

About the ThinkSystem SR950 V3

The Lenovo SR950 V3 is an 8-socket server that features an 8U rack design, with two 4U units cabled together for ease of installation. The server offers technology advances, including 4th Gen Intel Xeon Scalable processors, and scale-up capacity of up to 32TB of system memory, up to 14x PCIe slots (6x front, 8x rear), and up to 16x 2.5-inch or 16x E3.S EDSFF drive bays.

The SR950 V3 is designed for the most demanding, mission-critical workloads, such as in-memory databases, large transactional databases, real-time analytics, ERP, CRM, and virtualized server workloads.

About SPEC OMP2012

The SPEC OMP benchmark is designed for measuring performance using applications based on the OpenMP 3.1 standard for shared-memory parallel processing. The benchmark also includes an optional metric which includes power measurement.

The benchmark includes 14 scientific and engineering application codes, covering everything from computational fluid dynamics (CFD) to molecular modeling to image manipulation. The optional energy consumption measurements are based on the SPEC Power and Performance Benchmark Methodology, which provides details on how to integrate a power metric into standardized benchmarks.

SPEC OMP focuses on compute intensive performance, which means an emphasis of the performance of the following hardware and software:

- Processor
- Memory architecture
- Parallel support libraries
- Compilers

For more information about SPEC OMP 2012, go to <https://www.spec.org/omp2012/>

Learn more

To learn more about solutions for high performance applications that use shared-memory parallel processing, 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 V3 server, visit the SR950 V3 product web page: <https://www.lenovo.com/us/en/p/servers-storage/servers/mission-critical/thinksystem-sr950-v3/len21ts0023>

Related product families

Product families related to this document are the following:

- [8-Socket Rack Servers](#)
- [SPECComp Benchmark Results](#)
- [ThinkSystem SR950 V3 Server](#)

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