

ThinkSystem SR665 V3 Sets 2 World Records with New SPEC ACCEL OpenMP Benchmark Result Performance Benchmark Result

The Lenovo ThinkSystem SR665 V3 has set two new 2-socket performance world records with the SPECaccel_omp_base and SPECaccel_omp_peak metrics from the SPEC ACCEL Benchmark. The SPEC ACCEL Benchmark suite is the industry standard to evaluate hardware-based accelerator devices and the performance of parallel computing workloads.

This new benchmark result, published in a new SPEC Report on November 10, 2022, demonstrates that the ThinkSystem SR665 V3 continues Lenovo's leadership with outstanding performance for the server industry.



The ThinkSystem SR665 V3 has achieved the following scores:

- **SPECaccel_omp_base = 19.0**
- **SPECaccel_omp_peak = 21.0**

The SR665 V3 was configured as follows for the benchmark audit:

- 2x AMD EPYC 9654 processors (96 cores, 2.40 GHz)
- 768 GB memory (24x 32 GB RDIMMs @ 4800 MHz)
- 480 GB 2.5-inch SSD
- Red Hat Enterprise Linux 8.6

Results referenced are current as of November 10, 2022.

The new Lenovo benchmark result can be found at:

<https://www.spec.org/accel/results/res2022q4/accel-20221016-00167.html>

About the ThinkSystem SR665 V3

The ThinkSystem SR665 V3 is a 2S 2U rack server built with the performance and flexibility to manage a complex set of workloads like data management, analytics, virtualization, cloud, and AI. The 320 cores of the dual 5th Gen AMD EPYC™ "Turin" family processors with up to 160 PCIe lanes and up to 6TB of the latest DDR5 memory, maximize the performance of this 2U server.

The SR665 V3 is designed to support today's infrastructure and easily scale to prepare for next gen workloads. 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 SR665 V3 includes support for multiple options for GPU and PCIe to satisfy graphics, speed, and budget requirements.

About SPECaccel

The SPEC ACCEL benchmark suite provides a comparative measure the performance of hardware accelerator devices and their supporting software tool chains using computationally-intensive parallel applications. The suite is comprised of scientific applications used in High Performance Computing (HPC) and focuses on parallel computing performance.

The suite has been ported using several accelerator programming models each of which has been released as separate benchmark components:

- SPEC ACCEL OpenCL -- based on the Open Computing Language (OpenCL) 1.1 framework
- SPEC ACCEL OpenACC -- based on the Open Accelerators (OpenACC) 1.0 programming standard for parallel computing
- SPEC ACCEL OpenMP -- based on the Open Multi-Processing (OpenMP) 4.5 application programming interface

The product consists of source code benchmarks that are developed from real user applications.

For more information and SPEC ACCEL results, see <http://www.spec.org/accel/>.

Learn more

To learn more about solutions for parallel computing workloads, please contact your Lenovo Sales Representative.

To find out more about SPEC, visit <https://www.spec.org>

To learn more about the Lenovo ThinkSystem SR665 V3 server, visit the SR665 V3 product web page: <https://www.lenovo.com/us/en/p/servers-storage/servers/racks/thinksystem-sr665-v3/len21ts0009>

Related product families

Product families related to this document are the following:

- [2-Socket Rack Servers](#)
- [SPECaccel Benchmark Results](#)
- [ThinkSystem SR665 V3 Server](#)

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