ThinkSystem SR665 V3 Sets 2 World Records with New SPECompG Benchmark Result
Performance Benchmark Result

The Lenovo ThinkSystem SR665 V3 server has set two new 2-socket performance world records with the SPECompG_base2012 and SPECompG_peak2012 metrics of the SPEC OMP2012 Benchmark.

This new benchmark result, published in a new SPEC report on June 13, 2022, demonstrate that the ThinkSystem SR665 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 SR665 V3 has achieved the following scores:

- **SPECompG_base2012 = 91.6**
- **SPECompG_peak2012 = 93.6**

This result is the best 2-socket performance in the industry.

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

- 2x AMD EPYC 9754 ("Bergamo") processors (128 cores, 2.25GHz)
- 1TB memory (24x 64GB RDIMMs, 4800MHz)
- ThinkSystem 1 TB SATA HDD
- Red Hat Enterprise Linux 8.6, Kernel 4.18.0-240.el8.x86_64

Results referenced are current as of June 13, 2022.

The new Lenovo benchmark result can be found at:
https://www.spec.org/omp2012/results/res2023q2/omp2012-20230517-00213.html

To view all SPEC OMP2012 results, go to
https://www.spec.org/omp2012/results/

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 256 cores of the dual 4th Gen AMD EPYC™ 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 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 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
- SPEComp Benchmark Results
- ThinkSystem SR665 V3 Server

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