

## ThinkSystem SR645 V3 Sets 3 World Records with New SPECpower on Windows Benchmark Result Performance Benchmark Result

Lenovo has published a new SPECpower\_ssj 2008 benchmark result that has set three new world records. The result has been achieved on the powerful Lenovo ThinkSystem SR645 V3 server using the new AMD EPYC 9845 processor.

The world-record benchmark results are:

- Best overall score on a 1U rack system
- Best overall score on a 2-processor, 1U rack system
- Best score on a 2-processor, 1U rack system running Microsoft Windows Server

The SPECpower\_ssj 2008 benchmark is an industry-standard benchmark that evaluates the power and performance characteristics of single servers and multi-node servers.



The ThinkSystem SR645 V3 server achieved the following score :

- **SPECpower\_ssj2008 = 42,182 overall ssj\_ops/watt**

The SR645 V3 was configured as follows:

- 2x AMD EPYC 9845 ("Turin") processors (160 cores, 2.10 GHz, 320 MB L3 cache)
- 384 GB of DDR5 memory
- 1x 240GB M.2 SSD
- Microsoft Windows Server 2022 Datacenter Edition
- Oracle Java HotSpot (TM) 64-Bit Server VM (build 17.0.10+11-LTS-240, mixed mode)

Results referenced are current as of December 17, 2024.

This benchmark result can be found at the following web page:

[https://spec.org/power\\_ssj2008/results/res2024q4/power\\_ssj2008-20241118-01472.html](https://spec.org/power_ssj2008/results/res2024q4/power_ssj2008-20241118-01472.html)

To view all SPECpower\_ssj 2008 results, see the following page:

[https://www.spec.org/power\\_ssj2008/results/](https://www.spec.org/power_ssj2008/results/)

## About the ThinkSystem SR645 V3

The ThinkSystem SR645 V3 with AMD processors, is the most powerful 2S 1U server in the industry. Ideal for Cloud Service Providers and high-performance computing workloads with its ultra-dense design and option for liquid cooling. 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 1U server.

The SR645 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.

## About SPECpower

The SPEC Power benchmark suite measures the power and performance characteristics of server-class computer equipment. It is used to compare power and performance among different servers and serves as a toolset for use in improving server efficiency. This benchmark is targeted for use by hardware vendors, IT industry, computer manufacturers, and governments.

## Learn more

To learn more about power-efficient 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 SR645 V3 server, visit the SR645 V3 product web page: <https://www.lenovo.com/us/en/p/servers-storage/servers/racks/thinksystem-sr645-v3/len21ts0008>

## Related product families

Product families related to this document are the following:

- [2-Socket Rack Servers](#)
- [SPECpower Benchmark Results](#)
- [ThinkSystem SR645 V3 Server](#)

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