

ThinkSystem SR665 V3 Sets 2 World Records with New TPCx-AI Benchmark Result

Performance Benchmark Result

Lenovo has published a new TPCx-AI benchmark result that has set two world records. The result has been achieved on the powerful Lenovo ThinkSystem SR665 V3 server with 5th Gen AMD EPYC processors. The benchmark results are:

- The world's #1 overall TPCx-AI v2.0 performance result at scale factor 30
- The world's best TPCx-AI v2.0 performance result on 2-processor systems at scale factor 30

TPCx-AI is an AI benchmark standard developed by the TPC to measure the performance of an end-to-end machine learning or data science platform. It focuses on emulating the behavior of representative industry AI solutions that are relevant in current production datacenters and cloud environments.



The ThinkSystem SR665 V3 server achieved the following score (1):

- **1272.25 AIUCpm@30 (AI Use Cases per minute) @ \$168.29 USD/AIUCpm@30**

Compared to other scale factor 30 TPCx-AI version 2 results, this result is:

- The highest performance ever published, 14% faster than Dell's PowerEdge R6725 result (2)

The SR665 V3 achieved this record level of AI performance using the following configuration:

- 2x AMD EPYC 9475F 48-core processors at 3.65GHz (2 processor, 96 total cores, 192 total threads)
- 1536 GB of Lenovo TruDDR5 memory
- Red Hat Enterprise Linux 8.10
- Anaconda Business

Results referenced are current as of May 1, 2026. To view all TPC results, visit www.tpc.org.

(1) The total solution availability for this TPCx-AI benchmark result is May 1, 2026. See the details for this result at <https://www.tpc.org/5429>.

(2) Dell PowerEdge R6725 TPCx-AI SF30 result details are from <https://www.tpc.org/5425>.

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 TPCx-AI

The TPCx-AI benchmark defines and provides a means to evaluate the performance of a general-purpose data science system that:

- Generates and processes large volumes of data
- Trains preprocessed data to produce realistic machine learning models
- Conducts accurate insights for real-world customer scenarios based on the generated models
- Can scale to large scale distributed configurations
- Allows for flexibility in configuration changes to meet the demands of the dynamic AI landscape.

The benchmark models real-life examples of companies and public-sector organizations that use a range of analytics techniques, both AI and more traditional machine learning approaches, as well as the potential application of these techniques in situations like those in which they have already been successfully deployed. In addition, the benchmark measures end to end time to provide insights for individual use cases, as well as throughput metrics to simulate multiuser environments for a given hardware, operating system, and data processing system configuration under a controlled, complex, multi-user AI or machine learning data science workload.

Learn more

To learn more about solutions for database and AI applications, please contact your Lenovo Sales Representative.

To find out more about TPC, visit <http://www.tpc.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](#)
- [TPCx Benchmarks](#)
- [ThinkSystem SR665 V3 Server](#)

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