

ThinkSystem SD535 V3 Sets 6 World Records with New SPECjbb on Linux & on Windows Benchmark Result

Performance Benchmark Result

Lenovo has published several new SPECjbb2015 benchmark results that have set six new world records. These results have been achieved on the powerful Lenovo ThinkSystem SD535 V3 server using the new AMD EPYC 9684X processor.

The six benchmark world records are:

- Best SPECjbb2015-Distributed max-jOPS score on four nodes with 4 processors running Microsoft Windows Server
- Best SPECjbb2015-Distributed critical-jOPS score on four nodes with 4 processors running Microsoft Windows Server
- Best SPECjbb2015-Distributed max-jOPS score on four nodes with 4 processors
- Best SPECjbb2015-Distributed critical-jOPS score on four nodes with 4 processors
- Best SPECjbb2015-Distributed max-jOPS score on four nodes with 4 processors running SUSE Linux Server
- Best SPECjbb2015-Distributed critical-jOPS score on four nodes with 4 processors running SUSE Linux Server

SPECjbb2015 is a Java Business Benchmark and is the SPEC benchmark used for evaluating the performance of servers running typical Enterprise Java applications.



The ThinkSystem SD535 V3 with 4 nodes 4 processors achieved the following six top SPECjbb2015 scores:

- **SPECjbb2015-Distributed Max-jOPS (Windows Server 2022): 1,504,168 (1)**
- **SPECjbb2015-Distributed Critical-jOPS (Windows Server 2022): 1,264,990 (2)**
- **SPECjbb2015-Distributed max-jOPS (SUSE Linux 15): 1,515,045 (3,4)**
- **SPECjbb2015-Distributed critical-jOPS (SUSE Linux 15): 1,324,145 (5,6)**

SPECjbb2015 measures multi-threaded compute-intensive applications, with mixed industry workloads such as online purchase, inventory management, and supply. Critical-jOPS scores are ideal for measuring latency-critical applications and max-jOPS scores are ideal for measuring throughput-critical applications.

The Lenovo ThinkSystem SD535 V3 was configured as follows:

- 4x AMD EPYC 9684X "Genoa-X" processor - 96 cores, 2.55 GHz, 1152 MB L3 cache per processor

- Up to 3TB system memory
- Operating system:
 - Windows Server 2022 Datacenter
 - SUSE Linux Enterprise Server 15 SP5
- Java version:
 - Java HotSpot 64-bit Server VM, version 22
 - Java HotSpot 64-bit Server VM, version 17.0.10

Results referenced are current as of May 2, 2024. To view details of these results, go to these SPEC web pages:

- (1) Best 4-nodes, 4-processors SPECjbb2015-Distributed Max-jOPS score run on Windows. Used Windows Server 2022 & Oracle Java SE 22
<https://www.spec.org/jbb2015/results/res2024q2/jbb2015-20240401-01240.html>
- (2) Best 4-nodes, 4-processors SPECjbb2015-Distributed Critical-jOPS score run on Windows. Used Windows Server 2022 & Oracle Java SE 22
<https://www.spec.org/jbb2015/results/res2024q2/jbb2015-20240401-01239.html>
- (3) Best 4-nodes, 4-processors SPECjbb2015-Distributed max-jOPS score. Used SUSE Linux 15 & Oracle Java SE 17.0.10
<https://www.spec.org/jbb2015/results/res2024q2/jbb2015-20240417-01250.html>
- (4) Best 4-nodes, 4-processors SPECjbb2015-Distributed max-jOPS score run on Linux. Used SUSE Linux 15 & Oracle Java SE 17.0.10
<https://www.spec.org/jbb2015/results/res2024q2/jbb2015-20240417-01250.html>
- (5) Best 4-nodes, 4-processors SPECjbb2015-Distributed critical-jOPS score. Used SUSE Linux 15 & Oracle Java SE 17.0.10
<https://www.spec.org/jbb2015/results/res2024q2/jbb2015-20240417-01249.html>
- (6) Best 4-nodes, 4-processors SPECjbb2015-Distributed critical-jOPS score run on Linux. Used SUSE Linux 15 & Oracle Java SE 17.0.10
<https://www.spec.org/jbb2015/results/res2024q2/jbb2015-20240417-01249.html>

To view all SPECjbb2015 results, go to

<https://www.spec.org/jbb2015/results/jbb2015.html>

About the ThinkSystem SD535 V3

The 1U half-width ThinkSystem SD535 V3 multi-node server, powered by AMD, provides flexible high-density compute with increased storage over other multi-node servers. With double the CPU density of a standard 1U server, it is ideal for large enterprises who need to process large amounts of data quickly. The ThinkSystem SD535 V3 is also thermally designed for efficiency with 1U optimized thermals, up to 4 nodes sharing only 2 or 3 power supplies. It provides efficient, dense, processing while minimizing OPEX.

About SPECjbb2015

The SPECjbb 2015 benchmark has been developed from the ground up to measure performance based on the latest Java application features. It is relevant to all audiences who are interested in Java server performance, including JVM vendors, hardware developers, Java application developers, researchers and members of the academic community.

SPECjbb2015 scores are ideal for measuring throughput and latency of multi-threaded compute-intensive applications such as online purchasing, inventory management, and supply.

Learn more

To learn more about solutions for Java 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 SD535 V3 server, visit the SD535 V3 product web page: <https://www.lenovo.com/us/en/p/servers-storage/servers/multi-node/lenovo-thinksystem-sd535-v3/len21ts0033>

Related product families

Product families related to this document are the following:

- [Multi-Node Servers](#)
- [SPECjbb Benchmark Results](#)
- [ThinkSystem SD535 V3 Server](#)

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