

# ThinkSystem SD550 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 SD550 V3 server using the new Intel Xeon Platinum 8592+ processor.

The six benchmark world records are:

- Best SPECjbb2015-Distributed max-jOPS score on two nodes with 4 processors running Linux Server
- Best SPECjbb2015-Distributed critical-jOPS score on two nodes with 4 processors running Linux Server
- Best SPECjbb2015-Distributed max-jOPS score on two nodes with 4 processors
- Best SPECjbb2015-Distributed critical-jOPS score on two nodes with 4 processors
- Best SPECjbb2015-Distributed max-jOPS score on two nodes with 4 processors running Microsoft Windows Server
- Best SPECjbb2015-Distributed critical-jOPS score on two nodes with 4 processors running Microsoft Windows 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 SD550 V3 with 2 nodes 4 processors achieved the following six top SPECjbb2015 scores:

- **SPECjbb2015-Distributed Max-jOPS (SUSE Linux 15SP5): 942,619 (1,3)**
- **SPECjbb2015-Distributed Critical-jOPS (SUSE Linux 15SP5): 817,116 (2,4)**
- **SPECjbb2015-Distributed Max-jOPS (Windows Server 2022): 904,258 (5)**
- **SPECjbb2015-Distributed Critical-jOPS (Windows Server 2022): 726,781 (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 SD550 V3 was configured as follows:

- 4x Intel Xeon Platinum 8592+ processors - 64 cores, 1.9 GHz, 320 MB L3 cache per processor

- Memory configuration:
  - Up to 2TB system memory
  - Up to 4TB system memory
- Operating system:
  - SUSE Linux Enterprise Server 15SP5
  - Windows Server 2022 Datacenter
- Java version:
  - Java HotSpot 64-bit Server VM, version 17.0.10
  - Java HotSpot 64-bit Server VM, version 22

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

- (1) Best 2-nodes, 4-processors SPECjbb2015-Distributed Max-jOPS score run on Linux. Used SUSE Linux 15SP5 & Oracle Java SE 17.0.10  
<https://www.spec.org/jbb2015/results/res2024q2/jbb2015-20240401-01241.html>
- (2) Best 2-nodes, 4-processors SPECjbb2015-Distributed Critical-jOPS score run on Linux. Used SUSE Linux 15SP5 & Oracle Java SE 17.0.10  
<https://www.spec.org/jbb2015/results/res2024q2/jbb2015-20240401-01241.html>
- (3) Best 2-nodes, 4-processors SPECjbb2015-Distributed max-jOPS score. Used SUSE Linux 15SP5 & Oracle Java SE 17.0.10  
<https://www.spec.org/jbb2015/results/res2024q2/jbb2015-20240401-01241.html>
- (4) Best 2-nodes, 4-processors SPECjbb2015-Distributed critical-jOPS score. Used SUSE Linux 15SP5 & Oracle Java SE 17.0.10  
<https://www.spec.org/jbb2015/results/res2024q2/jbb2015-20240401-01241.html>
- (5) Best 2-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/jbb2015-20240417-01252.html>
- (6) Best 2-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/jbb2015-20240417-01251.html>

To view all SPECjbb2015 results, go to  
<https://www.spec.org/jbb2015/results/jbb2015.html>

## About the ThinkSystem SD550 V3

Compute intensive workloads do not necessarily require large amounts of storage. The ThinkSystem SD550 V3 multi-node server is optimized for these workloads by maximizing density, providing up to 2x the CPUs than a standard 2U rack server, and doesn't add costs with unnecessary storage. The 2U half-width format with up to 2 CPUs maximizes core density, saves rack space, and lowers 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 SD550 V3 server, visit the SD550 V3 product web page: <https://www.lenovo.com/us/en/p/servers-storage/servers/multi-node/thinksystem-sd550-v3-multi-node-server/len21ts0027>

## Related product families

Product families related to this document are the following:

- [Multi-Node Servers](#)
- [SPECjbb Benchmark Results](#)
- [ThinkSystem SD550 V3 Server](#)

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