

Four World Record SPECjbb2015 Benchmark Results for 2-Socket ThinkSystem SR650

Performance Benchmark Result

November 8, 2017 ... Lenovo has published four new leadership 2-socket performance world records for the SPECjbb2015-MultiJVM, SPECjbb2015-Distributed and SPECjbb2015-Composite benchmarks.

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 SR650 achieved the following four top SPECjbb2015 scores:

- **179,534 SPECjbb2015-MultiJVM max-jOPS**
- **181,507 SPECjbb2015-Distributed max-jOPS**
- **160,590 SPECjbb2015-Composite max-jOPS**
- **123,404 SPECjbb2015-Composite critical-jOPS**

These results prove the ThinkSystem SR650 performs the best in the industry for throughput and latency intensive workloads.

The SR650 was configured as follows:

- Lenovo ThinkSystem SR650
- 2x Intel Xeon Platinum 8180
 - 2.5 GHz with 38.5 MB L3 cache per processor
 - 2 processors, 56 total cores, 28 cores per processor
- Lenovo TruDDR4 memory:
 - 384 GB for the MultiJVM max-jOPS and Distributed max-jOPS benchmarks
 - 768 GB for the Composite max-jOPS and Composite critical-jOPS benchmarks
- Operating system:
 - SUSE Linux Enterprise Server 12 SP2 for the MultiJVM max-jOPS and Distributed max-jOPS benchmarks
 - Red Hat Enterprise Linux Server 7.3 for the Composite max-jOPS and Composite critical-jOPS benchmarks
- Oracle Java HotSpot 64-bit Server VM, version 1.8.0_144

Results referenced are current as of November 8, 2017. To view details of these results, go to these SPEC web pages:

- [Composite critical-jOPS result](#)
- [Composite max-jOPS result](#)
- [Distributed max-jOPS result](#)
- [MultiJVM max-jOPS result](#)

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

About the ThinkSystem SR650

For medium to large enterprises, and managed and cloud service providers, Lenovo ThinkSystem SR650 is the optimum 2U, two-socket server—the most widely used server type worldwide. It's engineered to deliver high performance with 205W CPUs, low-latency NVMe drives, and high-power GPUs.

With Lenovo's history of reliability, the highly flexible and configurable SR650 is the ideal platform for hyper-converged infrastructure (HCI) or software-defined storage (SDS). It provides a solid foundation for:

- Transforming physical resources into services, using validated designs for hybrid cloud
- Performing analytics on streaming data, using validated designs for Big Data
- Increasing productivity of virtualized transactional systems, using validated designs for OLTP databases.

Lenovo XClarity Controller is an all-new hardware embedded management engine common in every ThinkSystem server. XClarity Controller features an uncluttered graphical user interface, industry standard Redfish-compliant REST APIs, and enables booting in half the time of prior generation servers, with up to 6x faster firmware updates.

Lenovo XClarity Administrator is a virtualized application that centrally manages ThinkSystem servers, storage, and networking. Via reusable patterns and policies, it ramps up and scales infrastructure provisioning and maintenance. It serves as a central integration point to extend your data center management processes to physical IT. Running XClarity Integrators in external IT applications, or integrating through REST APIs, helps you further speed services provisioning, streamline IT management, and contain costs.

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.

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 SR650 server, visit the [SR650 product web page](#).

Related product families

Product families related to this document are the following:

- [2-Socket Rack Servers](#)
- [SPECjbb Benchmark Results](#)
- [ThinkSystem SR650 Server](#)

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