ThinkSystem SR950 Sets World Record with Six New 3-Socket SPECjbb2015 Benchmark Results

Performance Benchmark Result (withdrawn product)

The Lenovo ThinkSystem SR950 server has set 6 new 3-processor performance world records for the SPECjbb2015 critical-jOPS and max-jOPS 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 SR950 with 3 processors achieved the following 6 top SPECjbb2015 scores:

- **177,141 SPECjbb2015-Composite critical-jOPS**
- **176,225 SPECjbb2015-MultiJVM critical-jOPS**
- **183,818 SPECjbb2015-Distributed critical-jOPS**
- **215,965 SPECjbb2015-Composite max-jOPS**
- **260,423 SPECjbb2015-MultiJVM max-jOPS**
- **266,341 SPECjbb2015-Distributed max-jOPS**

The ThinkSystem SR950 was configured as follows:

- 3x Intel Xeon Scalable Family processors:
  - Platinum 8180M processors for critical-jOPS benchmarks (2.5 GHz with 38.5 MB L3 cache per processor, 28 cores per processor, 84 total cores)
  - Platinum 8180 processors for max-jOPS benchmarks (2.5 GHz with 38.5 MB L3 cache per processor, 28 cores per processor, 84 total cores
- Lenovo TruDDR4 system memory:
  - 1152 GB for the critical-jOPS benchmarks
  - 768 GB for the max-jOPS benchmarks
- Operating system:
  - Red Hat Enterprise Linux Server 7.5 for the critical-jOPS benchmarks
  - SUSE Linux Enterprise Server 12 SP2 for the max-jOPS benchmarks
- Oracle Java HotSpot 64-Bit Server VM, version 10.0.2

Results referenced are current as of September 13, 2018. To view details of these results, go to these SPEC web pages:

- SPECjbb2015-Composite critical-jOPS result
- SPECjbb2015-MultiJVM critical-jOPS result

- SPECjbb2015-Distributed critical-jOPS result
- SPECjbb2015-Composite max-jOPS result
- SPECjbb2015-MultiJVM max-jOPS result
- SPECjbb2015-Distributed max-jOPS result

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

About the ThinkSystem SR950

Lenovo ThinkSystem SR950 is designed for your most demanding, mission-critical workloads, such as in-memory databases, large transactional databases, batch and real-time analytics, ERP, CRM, and virtualized server workloads.

The powerful 4U ThinkSystem SR950 can grow from two to eight Intel Xeon Scalable Family processors, and with 96 DIMM sockets, supports up to 12 TB of high-speed memory without having to replace the server enclosure or upgrade to a physically larger design. The modular design of SR950 speeds upgrades and servicing with easy front or rear access to all major subsystems to maximize server availability.

The SR950 packs numerous fault-tolerant and high-availability features into a high-density design. The SR950 offers enterprise scalability and advanced RAS features to support the most demanding mission-critical applications that require 24x7 operations. The new 4U rack optimized design reduces the space needed to support massive network computing operations and simplifies servicing.

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.

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 SR950 server, visit the SR950 product web page.

Related product families

Product families related to this document are the following:

- Large Memory Capacity Servers
- SPECjbb Benchmark Results
- ThinkSystem SR950 Server

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