

ThinkSystem SR850 Achieves Four-Socket Leadership Performance per Watt for SPECpower_ssj2008 Benchmark Performance Benchmark Result (withdrawn product)

November 8, 2017 ... The Lenovo ThinkSystem SR850 has set a new four-processor performance world record for the SPECpower_ssj 2008 benchmark.

The SPECpower_ssj 2008 benchmark is the first industry-standard benchmark that evaluates the power and performance characteristics of single server and multi-node servers.



Lenovo ThinkSystem SR850 delivered the following SPECpower_ssj 2008 4-processor world record performance result:

- **SPECpower_ssj2008 = 13,010 overall ssj_ops/watt**

The SR850 was configured as follows:

- Four Intel® Xeon® Platinum 8176 processors:
 - 2.1 GHz core frequency with 38.5 MB L3 cache per processor
 - 4 processors, 112 total cores, 224 total threads
- 384 GB of Lenovo TruDDR4 memory
- Microsoft Windows Server® 2012 R2
- Oracle® Java® HotSpot 64-bit Server VM, version 1.7.0_80

Results referenced are current as of November 8, 2017.

This benchmark result can be found at the following web page:

https://www.spec.org/power_ssj2008/results/res2017q4/power_ssj2008-20171011-00792.html

To view all SPECpower_ssj 2008 results, see the following page:

https://www.spec.org/power_ssj2008/results/

About the ThinkSystem SR850

The Lenovo ThinkSystem SR850 is built to deliver the performance and reliability you require today, with the scalability and versatility you'll need as you advance toward the "future-defined" data center.

The flexible 2U SR850 can scale from two to four powerful Intel Xeon Scalable Family processors, with more cores and more memory than the previous-generation server, achieving up to 76% faster performance.

Built for standard workloads like general business applications and server consolidation, it can also accommodate high-growth areas such as databases and virtualization. The agile design of the SR850 provides rapid upgrades for processors and memory, and its large, flexible storage capacity helps you keep pace with data growth.

With reliability and security designed into the system, the SR850 server builds on industry-standard technologies to deliver an economical, dependable platform for the most demanding users and applications.

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 SPECpower

The SPEC Power benchmark suite measures the power and performance characteristics of server-class computer equipment. It is used to compare power and performance among different servers and serves as a toolset for use in improving server efficiency. This benchmark is targeted for use by hardware vendors, IT industry, computer manufacturers, and governments.

Learn more

To learn more about power-efficient solutions for compute-intensive 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 SR850 server, visit the [SR850 product web page](#).

Related product families

Product families related to this document are the following:

- [4-Socket Rack Servers](#)
- [SPECpower Benchmark Results](#)
- [ThinkSystem SR850 Server](#)

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This document, LP0798, was created or updated on November 8, 2017.

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