

Lenovo Posts Two World Record Four-Socket SPECvirt_sc2013 Benchmark Results with ThinkSystem SR950

Performance Benchmark Result

November 8, 2017 ... Lenovo delivers leadership server consolidation performance on the SPECvirt_sc2013 virtualization benchmark with the publication of the leadership 4-socket performance/watt scores.

These benchmark suites are targeted for use by hardware vendors, virtualization software vendors, application software vendors, datacenter managers, and academic researchers.

The Lenovo ThinkSystem SR950 delivered the following world record SPECvirt_sc2013 performance/watt results for 4-socket server platforms:



- **SPECvirt_sc2013_ServerPPW 3.434 @ 326 VMs**
- **SPECvirt_sc2013_PPW 3.434 @ 326 VMs**

The SR950 was configured as follows:

- Four Intel® Xeon® Platinum 8180 (2.5 GHz with 38.5 MB L3 cache per processor: 4 chips/112 cores/28 cores per chip)
- 3TB of memory using 48x Lenovo 64GB TruDDR4 DIMMs
- Two ThinkSystem RAID 930-16i Adapters with 4GB flash
- Four Intel X710-DA2 10Gb 2 Port SFP+ Ethernet Adapters
- SUSE Linux Enterprise Server 12 SP2

This benchmark results can be found at:

- [SPECvirt_sc2013_ServerPPW result](#)
- [SPECvirt_sc2013_PPW result](#)

Results referenced are current as of November 8, 2017. To view all SPECvirt_sc2013 results, visit https://www.spec.org/virt_sc2013/results/specvirt_sc2013_perf.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 SPECvirt

SPECvirt_sc2013 is the second-generation SPEC benchmark for evaluating the virtualization performance of datacenter server consolidation (SPEC VIRT), including enterprise class workloads such as virtualized SMP application server VMs and SMP database VMs, as well as dynamic workload levels across many workload types and VM instances.

Learn more

To learn more about power-efficient solutions for virtualization 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:

- [4-Socket Rack Servers](#)
- [Mission Critical Servers](#)
- [SPECvirt Benchmark Results](#)
- [ThinkSystem SR950 Server](#)

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