

ThinkSystem SR950 Sets Three World Records with Four-Socket SPECvirt_sc2013 Benchmark Result Performance Benchmark Result

Lenovo delivers leadership server consolidation performance on the SPECvirt_sc2013 virtualization benchmark with the publication of the leadership 4-socket scores for all three SPECvirt_sc2013 result categories.

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

- **SPECvirt_sc2013 7410 @ 420 VMs**
- **SPECvirt_sc2013_ServerPPW 4.812 @ 420 VMs**
- **SPECvirt_sc2013_PPW 4.812 @ 420 VMs**



The SR950 was configured as follows:

- 4x Intel Xeon Platinum 8280L (2.7 GHz with 38.5 MB L3 cache per processor: 4 chips/112 cores/28 cores per chip)
- 3TB (48x 64GB DDR4 DIMMs) of memory
- 2x ThinkSystem RAID 930-16i Adapters with 4GB flash
- 4x Intel X710-DA2 10Gb 2 Port SFP+ Ethernet Adapters
- SUSE Linux Enterprise Server 12 SP4

This benchmark results can be found at:

- SPECvirt_sc2013 result
https://www.spec.org/virt_sc2013/results/res2019q2/virt_sc2013-20190312-00118-perf.html
- SPECvirt_sc2013_ServerPPW result
https://www.spec.org/virt_sc2013/results/res2019q2/virt_sc2013-20190312-00118-ppw.html
- SPECvirt_sc2013_PPW result
https://www.spec.org/virt_sc2013/results/res2019q2/virt_sc2013-20190312-00118-ppws.html

Results referenced are current as of April 2, 2019. 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 second-generation Intel Xeon Scalable Family processors, and with 96 DIMM sockets, supports up to 24 TB of high-speed memory. The modular design of SR950 speeds upgrades and servicing with easy front or rear access to all major subsystems to maximize server availability. The ThinkSystem SR950 also supports Intel Optane DC Persistent Memory delivering a new, flexible tier of memory designed specifically for data center workloads that offer an unprecedented combination of high-capacity, affordability and persistence.

The SR950 packs numerous fault-tolerant and high-availability features into a high-density, 4U rack-optimized design that reduces the space needed to support massive network computing operations and simplify 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.

ThinkShield is a comprehensive approach to security designed to secure the data center, from the foundation of your infrastructure to the network's edge and guard against a security breach. ThinkShield protects your business with each offering, from development through disposal.

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. This benchmark suite is targeted for use by hardware vendors, virtualization software vendors, application software vendors, datacenter managers, and academic researchers.

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: <https://www.lenovo.com/us/en/data-center/servers/mission-critical/Lenovo-ThinkSystem-SR950/p/77XX7HSSR95>

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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