World Record SPEC CPU2006 Benchmark Result for ThinkSystem SR950

Performance Benchmark Result (withdrawn product)

November 8, 2017… Lenovo has published a top SPECfp_base2006 benchmark score for the Lenovo ThinkSystem SR950 4U rack server, using eight Intel Xeon Platinum processors. SPECfp_base2006 is part of the SPEC CPU2006 benchmark.

The SPECfp_base2006 score is ideal for measuring single-threaded compute-intensive applications, such as High Frequency Trading (HFT) and other financial industry workloads.

The ThinkSystem SR950 achieved the following SPECfp score:

- **SPECfp_base2006 = 139**

The ThinkSystem SR950 was configured as follows:

- 8x Intel Xeon Platinum 8158 processors (3.0 GHz, 24.75 MB L3 cache per processor, 8 processors with a total of 96 cores, 12 cores per processor, 192 total threads)
- 3TB of Lenovo TruDDR4 memory
- SUSE Linux Enterprise Server 12 SP2

The result is current as of November 8, 2017. To view details of the result, go to:
https://www.spec.org/cpu2006/results/res2017q4/cpu2006-20170917-49366.html

In addition, the SR950 continues to hold the top SPECint_base2006 result which was published July 11, 2017. For details of that result, see the following Lenovo benchmark report:
https://lenovopress.com/lp0715-sr950-speccpu-benchmark-result-2017-07-11

To view all SPEC CPU2006 results, go to
http://www.spec.org/cpu2006/results/

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 SPEC CPU2006

The SPEC CPU 2006 benchmark is SPEC's industry-standardized, CPU-intensive benchmark suite, stressing a system's processor, memory subsystem and compiler. CPU2006 is a set of benchmarks designed to test the CPU and memory performance of a modern server.

The SPEC CPU 2006 benchmark has several different ways to measure server performance:

- Speed measurement: Measure how fast the server completes a single task
- Throughput, capacity or rate measurement: Measure how many tasks a server can accomplish in a certain amount of time.

This benchmark is targeted for use by hardware vendors, IT industry, computer manufacturers, and government.

Learn more

To learn more about 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 SR950 server, visit the SR950 product web page.

Related product families

Product families related to this document are the following:

- 8-Socket Rack Servers
- Large Memory Capacity Servers
- SPECcpu Benchmark Results
- ThinkSystem SR950 Server

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