

# World Record SPEC CPU2017 Benchmark Result for 1-Processor ThinkSystem SR650

## Performance Benchmark Result

November 8, 2017... Lenovo has published a top SPEC CPU2017 benchmark score for the Lenovo ThinkSystem SR650 rack server, using one Intel Xeon Platinum 8180 processor with 28 cores.

The SPECrate2017\_int\_base score is ideal for measuring multi-threaded compute-intensive applications, such as High Performance Computing (HPC) workloads.

The ThinkSystem SR650 achieved the following SPECrate score:

- **SPECrate2017\_int\_base = 141**



The ThinkSystem SR650 was configured as follows:

- One Intel Xeon Platinum 8180 processor (2.5 GHz, 38.5 MB L3 cache, 28 cores)
- 192 GB of TruDDR4 memory
- SUSE Linux Enterprise Server® 12 SP2

Results referenced are current as of November 8, 2017.

To view details of the result, go to:

<https://www.spec.org/cpu2017/results/res2017q4/cpu2017-20171017-00153.html>

To view all SPEC CPU2017 results, go to

<http://www.spec.org/cpu2017/results/>

## About the ThinkSystem SR650

For medium to large enterprises, and managed and cloud service providers, Lenovo ThinkSystem SR650 is the optimum 2U, two-socket server—the most widely used server type worldwide. It's engineered to deliver high performance with 205W CPUs, low-latency NVMe drives, and high-power GPUs.

With Lenovo's history of reliability, the highly flexible and configurable SR650 is the ideal platform for hyper-converged infrastructure (HCI) or software-defined storage (SDS). It provides a solid foundation for:

- Transforming physical resources into services, using validated designs for hybrid cloud
- Performing analytics on streaming data, using validated designs for Big Data
- Increasing productivity of virtualized transactional systems, using validated designs for OLTP databases.

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 CPU2017

SPEC CPU 2017 is SPEC's next-generation, industry-standardized, CPU intensive suite of benchmarks for measuring and comparing compute intensive performance, stressing a system's processor, memory subsystem and compiler. This benchmarks provides a comparative measure of compute-intensive performance using workloads developed from real user applications.

The SPEC CPU® 2017 benchmark suite measures server performance in the following ways:

- SPECspeed2017 is to compare time for a computer to complete single tasks
- SPECrate2017 is to measure the throughput or work per unit 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 SR650 server, visit the [SR650 product web page](#).

## Related product families

Product families related to this document are the following:

- [2-Socket Rack Servers](#)
- [SPECcpu Benchmark Results](#)
- [ThinkSystem SR650 Server](#)

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