

ThinkSystem SR950 Delivers Outstanding Result with 8-Socket SAP SD Two-Tier Benchmark Result Performance Benchmark Result

The Lenovo ThinkSystem SR950 server, using eight Intel Xeon Platinum 8280L processors, delivers outstanding results for the SAP SD 2-tier standard application benchmark in a Microsoft Windows environment on IBM Db2.

Lenovo announces a leading 8-processor result (1) on Microsoft Windows for the two-tier SAP Sales and Distribution (SD) standard application benchmark. The result was published on April 2, 2019. Lenovo's new result is a 41% performance improvement over the Lenovo x3950 X6 server (2).



The result was achieved on the ThinkSystem SR950, configured with eight Intel Xeon processors, using IBM Db2 10.5 and SAP enhancement package 5 for the SAP ERP application release 6.0.

Lenovo delivered the following certified result:

- **Number of SAP SD benchmark users: 108,998**

Throughput:

- Fully processed order line items per hour: 12,114,670
- Dialog steps per hour: 36,344,000
- SAPS: 605,730
- Average database request time (dialog/update): 19.74 ms/ 25.54 ms

Configuration of the central server:

- Lenovo ThinkSystem SR950
- 8x Intel Xeon Platinum 8280L processor 28C 205W 2.7GHz Processor
- Cache: 64 KB L1 cache and 1024KB L2 cache per core, 38.5 MB L3 cache per processor
- 3072 GB system memory

Software platform:

- Operating system, central server: Microsoft Windows Server 2016 Datacenter
- RDBMS: IBM Db2 10.5
- SAP Business Suite software: SAP enhancement package 5 for SAP ERP 6.0

Results referenced are current as of April 2, 2019. For the latest SAP benchmark results, visit: <https://www.sap.com/about/benchmark.html>.

(1) This benchmark fully complies with the SAP Benchmark Council regulations and has been audited and certified by SAP SE ([certification number 2019016](#)). Details can be obtained from Lenovo and SAP. The benchmark was performed at Data Center Performance Lab, Lenovo in Research Triangle Park, NC, USA, by Lenovo engineers.

(2) The claim of achieving 41% percent improvement in performance is based on results on the two-tier SAP SD standard application benchmark achieved by Lenovo System x3950 X6 (48processors / 192 cores / 384 threads, Intel Xeon Processor E7-8894 v4, 2.40 GHz processors ([certification number 2016027](#))).

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 SAP SD

SAP SD benchmark is a test for standard sale and distribution business components on SAP ERP, which is indicative of the performance of the application and database on a specific hardware environment. For more information about the benchmark, go to <https://www.sap.com/about/benchmark/appbm/erp.html>.

Learn more

To learn more about SAP solutions on Lenovo servers visit the following page:
<https://www.lenovo.com/us/en/data-center/solutions/sap/>

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:

- [Mission-Critical Rack Servers](#)
- [IBM Alliance](#)
- [IBM Db2](#)
- [ThinkSystem SR950 Server](#)
- [SAP SD Benchmark Results](#)
- [SAP Alliance](#)

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