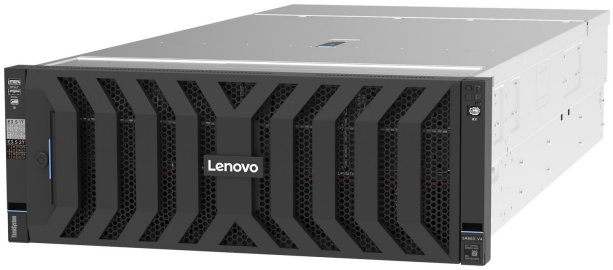
# ThinkSystem SR860 V4 Sets 2 World Records with New VMmark 4 Benchmark Result

## Performance Benchmark Result

The Lenovo ThinkSystem SR860 V4 has set two new VMmark world record. Two of these powerful servers, each configured with four Intel Xeon 6788P processors, achieved the following benchmark records:

- The world's #1 VMmark 4 result for 4-socket servers in a matched pair configuration
- The world's best VMmark 4 matched pair result on Intel processors

The VMmark 4 benchmark is a free web-scale multi-server virtualization platform benchmark developed by VMware, part of Broadcom. The benchmark is designed to enable enterprise customers to objectively measure and compare the performance and scalability of various virtualization platforms.




The ThinkSystem SR860 V4 server achieved the following VMmark 4.0.3 score (1):

- **5.26 @ 6 Tiles**

This result is:

- The highest VMmark 4 result for servers with Intel processors in a 4-socket matched pair configuration
- The best VMmark 4 matched pair result ever published using Intel Xeon processors
- 55% better performance than a 2-socket server with Intel Xeon 6 processors in a matched pair configuration (2)
- 49% better performance than our previous generation SR860 V3 4-socket server, which uses 4th Generation Intel Xeon Scalable processors (3)

The two ThinkSystem SR860 V4 servers achieved this record level of virtualization performance using the following configuration:

- Two Lenovo ThinkSystem SR860 V4 servers configured as systems under test. Each SUT included:
  - Four Intel Xeon 6788P 86-core processors at 2 GHz (4 processors, 344 cores, 688 threads)
  - 32x Lenovo TruDDR5 96GB 6400MHz memory
  - VMware ESXi 9.0.0.0, Build 24755229
  - 3x Emulex LPe38102 64Gb 2-port SecureHBA PCIe Fibre Channel Adapters
- Four Lenovo ThinkSystem SR665 V3 servers configured as client hosts, each with:
  - Two client hosts contain
    - 2x AMD EPYC 9654 96-core processors at 2.4 GHz (total 2 processors, 192 cores, 384 threads)
    - 24 x Lenovo TruDDR5 64GB 4800MHz memory DIMMs

    - Two client hosts contain
        - 2x AMD EPYC 9845 160-core processors at 2.1 GHz (total 2 processors, 320 cores, 640 threads)
        - 12 x Lenovo TruDDR5 96GB 4800MHz memory DIMMs
    - VMware ESXi 9.0.0.0, Build 24755229
- Six Lenovo ThinkSystem SR665 servers and one Lenovo ThinkSystem SR655 server configured as external storage targets:
    - SUSE Linux Enterprise Server 15 SP6 - 6.4.0-150600.21-default kernel
    - Attach to the SUTs via a Fibre Channel switch

The total solution availability for this VMmark 4 benchmark result is on September 16, 2025.

Results referenced are current as of September 16, 2025.

To view all VMmark results, visit https://www.vmware.com/products/vmmark/results4x.

(1) Two Lenovo ThinkSystem SR860 V4 each with four Intel Xeon 6788P processors (2 hosts, 8 total sockets, 688 total cores, 1376 total threads) scored 5.26 @ 6 tiles. See full disclosure report (FDR) at: https://www.vmware.com/docs/2025-09-16-Lenovo-ThinkSystem-SR860-V4-5_26

(2) Two Lenovo ThinkSystem SR650 V4 each with 2x Intel Xeon 6787P processors (2 hosts, 4 total sockets, 344 total cores, 688 total threads) scored 3.39 @ 3.8 tiles. See FDR and the details for this result at: https://www.vmware.com/docs/2025-04-15-Lenovo-ThinkSystem-SR650-V4-3_39

(3) Two Lenovo ThinkSystem SR860 V3 each with 4x Intel Xeon Platinum 8490H processors (2 hosts, 8 total sockets, 480 total cores, 960 total threads) scored 3.54 @ 4 tiles. See FDR and the details for this result at: https://www.vmware.com/docs/2024-11-12-Lenovo-ThinkSystem-SR860V3

## About the ThinkSystem SR860 V4

The Lenovo ThinkSystem SR860 V4 is an ideal 4-socket 4U rack server for customers that need industry-leading reliability, management, and security, as well as maximizing performance and flexibility for future growth. The server offers technology advances, including Intel® Xeon® 6700-Series processors, up to 16 TB of 6400 MHz DDR5 memory, and up to 18x PCIe slots for adapters.
With four Intel® Xeon® 6700-Series processors, massive memory capacity and available expansion for up to four enterprise-class GPUs and up to 56 drives, the Lenovo ThinkSystem SR860 V4 is designed to be the scalable, performance-tuned engine that can tackle compute-intensive applications like visualization, machine learning, artificial intelligence, analytics, and 3D modeling. Add to that an optional Neptune™ Core liquid cooling module to enable even higher sustained performance, and the ThinkSystem SR860 V4 stands out as an enterprise-class system, delivering performance and efficiency without compromise. See more information at https://lenovosopress.lenovo.com/datasheet/ds0197-thinksystem-sr860-v4

## About VMmark

VMmark® is a product of VMware, Inc. It is a tool used by hardware vendors and others to measure the performance and scalability of virtualization platforms. The VMmark benchmark:

- Allows accurate and reliable benchmarking of virtual data center performance.
- Allows comparison of the performance of different virtualization platforms.
- Can be used to determine the performance effects of changes in hardware, software, or configuration within the virtualization environment.
- See more information at https://www.vmware.com/products/vmmark

## About Emulex SecureHBA

The Emulex® Secure Fibre Channel host bus adapters by Broadcom are designed to deliver the highest level of security, performance, and manageability for mission-critical infrastructures. See details at https://lenovopress.lenovo.com/lp2117-thinksystem-emulex-securehba-lpe37102-lpe38102-32gb-64gb-fc-adapters.

## Learn more

To learn more about solutions for virtualization applications, please contact your Lenovo Sales Representative.

To find out more about VMmark4, visit https://www.vmware.com/products/vmmark

To learn more about the Lenovo ThinkSystem SR860 V4 server, visit the SR860 V4 product web page: https://www.lenovo.com/us/en/p/servers-storage/servers/large-memory/lenovo-thinksystem-sr860-v4/len21ts0045?orgRef=https%253A%252F%252Flenovopress.lenovo.com%252F

## Related product families

Product families related to this document are the following:

- 4-Socket Rack Servers
- ThinkSystem SR860 V4 Server
- VMmark Benchmark Results

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This document, LP2297, was created or updated on September 22, 2025.

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