



Lenovo and NVIDIA Bring Future-Ready Compute to Life with MLPerf-Proven Results

Article

Training models require processing massive volumes of data, supported by a carefully optimized combination of high-performance, reliable, and resilient servers. The world knows Lenovo and NVIDIA, and we are proud of our partner NVIDIA's well deserved state-of-the-art NVIDIA Blackwell Ultra-based GB300 NVL72 MLPerf results. Clearly NVIDIA dominates in the accelerated computing space with a win in all seven tests based on the Grace Blackwell architecture—from LLMs, image generation, recommender systems, computer vision and [graph neural networks](#)—and our partnership continues to strengthen our trusted and proven AI infrastructure solutions.

Lenovo's **ThinkSystem SR680a V3, SR680a V4 and SR780a V3** featuring **NVIDIA technologies** also delivered strong competitive performance across a broad spectrum of AI training workloads, validating our position as an innovative leader for AI model development at scale.

Highlights from ML Perf 5.1 Training

ThinkSystem SR680a V3 with 8x NVIDIA B200-SXM-180GB GPUs is an ideal system for training next-gen AI models in enterprise, academic, and research settings.

Lenovo achieved competitive performance across various training tasks including:

- llama31_81b
- dlm_dcnv2
- retinanet
- llama2_70b_lora
- rgat

ThinkSystem SR680a V4 with 8x NVIDIA B300-SXM GPUs is geared for high-end AI training and a diverse range of workloads, proving itself with strong performance in LLMs and multimodal tasks.

LLMs:

- llama31_8b
- llama2_70b_lora

ThinkSystem SR780aV3 with 8x NVIDIA B200-SXM-180GB GPUs is the ultimate Generative AI server, with advanced GPU-to-GPU communications and high-speed PCIe 5.0 connectivity.

Benchmarks submitted:

- llama31_8b
- dlm_dcnv2
- llama2_70b_lora
- rgat

Empowering Businesses with Lenovo's AI Leadership

Lenovo's MLPerf benchmark results reinforce our continued focus on delivering high-performance, future-ready AI systems that meet the evolving needs of modern workloads.

Key differentiators include:

- **Cross-Workload Excellence:** From computer vision to LLMs, Lenovo systems consistently deliver strong results across use cases.
- **Scalable Infrastructure:** Built with the latest NVIDIA B200-SXM and B300-SXM GPUs, Lenovo's systems offer the performance and flexibility needed for AI projects of any size.
- **Enterprise Integration:** With support for both centralized training and edge-ready deployment, Lenovo empowers organizations to scale AI from research labs to production environments.

Looking Ahead: AI Innovation with Lenovo & NVIDIA

As AI training workloads continue to grow in complexity and scale, Lenovo remains firmly committed to innovation. Our strong MLPerf Training results reflect not only technical excellence but also a forward-thinking approach to solving tomorrow's AI challenges with real business outcomes.

With deep industry partnerships like NVIDIA and a focus on building agile, efficient infrastructure, Lenovo carves a leading path for breakthroughs in generative AI, LLMs, Computer Vision, Recommender Systems, and more.

Conclusion

Lenovo's latest MLPerf Training results reaffirm its leadership in advanced AI infrastructure. Powered by ThinkSystem SR680a V3, SR680a V4, and SR780a V3 servers, Lenovo delivers unmatched performance, scalability, and reliability—whether training complex language models, enhancing computer vision, or enabling real-time generative AI. For organizations ready to lead in AI, Lenovo Hybrid AI Advantage™ with NVIDIA provides a trusted foundation to build, train, and scale with confidence—unlocking innovation and accelerating Smarter AI adoption.

Together, Lenovo and NVIDIA are driving the future of AI with faster, Smarter AI for All.

For more information

For more information, see these resources:

- Lenovo Hybrid AI Advantage with NVIDIA landing page
<https://www.lenovo.com/us/en/servers-storage/solutions/ai/>
- ThinkSystem SR680a V3 with B200 product guide
<https://lenovopress.lenovo.com/lp2247-lenovo-thinksystem-sr680a-v3-with-b200>
- ThinkSystem SR680a V4 Server product guide
<https://lenovopress.lenovo.com/lp2264-thinksystem-sr680a-v4-server>
- ThinkSystem SR780a V3 Server product guide
<https://lenovopress.lenovo.com/lp1980-thinksystem-sr780a-v3-server>
- Article: Lenovo Strengthens AI Leadership with Standout MLPerf Training 5.0 Results
<https://lenovopress.lenovo.com/lp2277-lenovo-strengthens-ai-leadership-with-standout-mlperf-training-50-results>

See more NVIDIA performance data on the [Data Center Deep Learning Product Performance Hub](#) and [Performance Explorer](#) pages.

Author

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Related product families

Product families related to this document are the following:

- [Hybrid AI Factory](#)
- [ThinkSystem SR680a V3 Server](#)
- [ThinkSystem SR680a V4 Server](#)
- [ThinkSystem SR780a V3 Server](#)

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