Synopsys at Supercomputing 2026

Nov. 16, 2026

What's New:

At Supercomputing 2026 (SC'26) this week, Synopsys is showcasing how its engineering solutions are helping customers design the next generation of AI and HPC infrastructure. New use cases and demonstrations, showing the power of AI-accelerated design and simulation to optimize complex systems and infrastructure include:

- As AI, simulation and data-intensive engineering workloads grow, R&D teams need powerful simulation and visualization capabilities at their fingertips. Ansys Technology Partner, CORSAIR, will demonstrate a CORSAIR PRO system running Ansys Fluent, with simulation results streamed into NVIDIA Omniverse™ for live visualization.
- Synopsys will join IonQ's Quantum House at SC'26 to discuss how the companies are advancing hybrid quantum-classical computing to accelerate real-world engineering simulation. For example, integrating a quantum algorithm into Ansys LS-DYNA to more efficiently organize large systems of equations before classical processing can deliver significantly reduced simulation runtimes across complex digital models from automobiles and jet engines to pumps and drill components.

Throughout the event, Synopsys will also host in-booth panel discussions with industry leaders from AMD, AWS, GE Aerospace, Honeywell Technologies, HPE, Intel, Microsoft, NVIDIA, and Vertiv. The sessions will examine topics including: hybrid cloud engineering, rack-scale AI systems, data-center power and cooling, accelerated computing, AI-enabled engineering workflows, and hardware assisted verification.

Booth details and the panel session schedule can be found on the Synopsys SC'26 event website: https://ansys.synopsys.com/events/ansys-at-supercomputing.

Why It Matters:

AI and HPC are reshaping engineering on two fronts: driving unprecedented complexity in computing infrastructure while providing the computational power to design and optimize the world's most advanced systems, from autonomous vehicles and aircraft to quantum computing, fusion energy and beyond.

Synopsys is uniquely positioned across both sides of this equation. Our technology helps enable the advanced silicon powering AI and HPC, while we harness AI and accelerated computing to make our own engineering solutions faster, more intelligent and increasingly autonomous.

"Synopsys' engineering solutions help customers design more efficient AI and HPC systems while using those same computing capabilities to explore more designs, run larger and faster simulations, optimize complex systems, and ultimately bring better products to market faster." - Wim Slagter, Partnerships, Senior Director, Ansys, part of Synopsys

Other Resources:

- Schedule: Supercomputing 2026 In-booth Discussions
- Blog: Your Next Data Center Bottleneck Won't Be the GPU
- Blog: Is LS-DYNA Software Faster on the New NVIDIA Vera CPU?
- High-Performance Computing Tools white paper