

# Nor-Tech HPC Clusters Feature Cornelis Omni-Path; Offering Significant Advantages Over Alternatives

News-Press Release

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## Summary

Up to 27% Better Scaling and 1.35X Higher Performance-per-Dollar.

## Message

Minneapolis, MN, October 22, 2025 -- Nor-Tech, a leading systems integrator of high-performance computing solutions, today announced benchmark results demonstrating compelling performance and value for engineering simulation workloads including Ansys Fluent 2024 R1 and Ansys LS-DYNA 12.2.2 on Cornelis Networks™ Omni-Path interconnects. In recent multi-node tests on AMD EPYC-based platforms, when compared with InfiniBand, Omni-Path delivered: • Up to 1.35x higher performance per dollar, reflecting both stronger scaling and more favorable adapter/switch/cable pricing. • Higher runs-per-hour, indicating strong parallel efficiency. • Nor-Tech Executive Vice President Jeff Olson said, "With Cornelis Omni-Path, our Fluent and LS-DYNA clusters scale efficiently across nodes and keep total solution costs in check" so our clients can run more jobs, iterate designs faster and meet deadlines with confidence. • Nor-Tech builds and supports clusters based on the Cornelis CN5000 end-to-end portfolio, enabling large-scale CFD/FEA deployments with open-source, in-distro software and flexible air or liquid cooling. These fully integrated, turnkey clusters optimized for Ansys Fluent and LS-DYNA with Cornelis Omni-Path, include options for scaling to director-class switching as needs grow. • In addition, users can accelerate throughput and reduce queue times with these clusters" translating directly into faster iteration cycles and lower cost-per-solve models for applications that include aerodynamics, combustion, automotive safety and more. • Olson added, "Our engineering customers want two things: faster solves and better ROI. Our experience and these results show Nor-Tech's Omni-Path integrated technology can deliver both. • To contact Nor-Tech call 952-808-1000 or visit <https://www.nor-tech.com>. • Sign up for a demo of the most powerful high-performance hardware and software, including next gen NVIDIA GPUs and AMD and Intel CPUs, at <https://www.nor-tech.com/solutions/hpc/demo-cluster/>. • Nor-Tech is on CRN's list of the top 40 Data Center Infrastructure Providers along with IBM, Oracle, Dell and Supermicro and is also a member of Hyperion Research's prestigious HPC Technical Computing Advisory Panel. The company is a complete high-performance computer solution provider for two Nobel Physics Award-contending/winning projects. Nor-Tech engineers average 20+ years of experience. This strong industry reputation and deep partner relationships also enable the company to be a leading supplier of cost-effective Lenovo desktops, laptops, tablets and Chromebooks to schools and enterprises. All of Nor-Tech's high-performance technology is developed by Nor-Tech in Minnesota and supported by Nor-Tech around the world. The company is headquartered in Burnsville, Minn. just outside of Minneapolis. Contracts include: Minnesota State IT, University of Wisconsin System, and NASA SEWP V.

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