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Fastest HPC Supercomputers and Workstations for Big Data, AI, ML, DL Engineered by Nor-Tech

Nor-Tech, the leading experts on HPC supercomputers and workstations for deep learning AI, ML and DL, just announced the development of expertly engineered technology for these applications.
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Nor-Tech, the leading experts on HPC supercomputers and workstations for deep learning AI, ML and DL just announced the development of expertly engineered technology for these applications. Technologies involved include NVIDIA RTX, NVIDIA Volta, AMD's new M50 and M60 GPUs and Bright Cluster Manager.

- NVIDIA RTX: Built on NVIDIA's Turing GPU architecture, NVIDIA's RTX platform combines ray tracing, deep learning and rasterization to transform the simulation process for developers. Applications built on the platform leverage the power of real-time photorealistic rendering and AI-enhanced graphics, video and image processing. The RTX platform features APIs such as NVIDIA's PhysX, FleX and CUDA 10, to accurately model how objects interact in the real world.
- NVIDIA Volta: Equipped with 640 Tensor Cores, Volta delivers over 125 teraFLOPs per second of deep learning performance; this is more than a 5X increase over prior generation NVIDIA Pascal architecture. With over 21 billion transistors, Volta is the most powerful GPU architecture in the world. It pairs NVIDIA CUDA and Tensor Cores to deliver the performance of an AI supercomputer in a GPU.
- AMD M50 and M60: These are the company's latest Radeon Instinct GPUs targeted to high performance computing, deep learning, rendering, and cloud computing. Based on TSMC's 7nm process technology, the two Vega20-generation GPUs offer terascale-level performance across these workloads. The MI60 offers 7.4 FP64 teraflops for HPC, 14.7 FP32 teraflops, 29.5 FP16 teraflops for deep learning training, and 59 INT8 teraflops for deep learning inferencing. The MI50 has about 10 percent less performance than the MI60 throughout.
- Bright Cluster Manager: Bright Cluster Manager for High Performance Computing provides all the software needed to deploy, monitor and manage HPC clusters. It lets users deploy complete clusters over bare metal and manage them effectively; providing single-pane-of-glass management for the hardware, the operating system, HPC software, and users. Bright Cluster Manager for Data Science is an add-on that provides everything needed to accelerate data science projects.

Nor-Tech has experience repurposing existing supercomputers and HPC workstations for Big Data. The company is just wrapping up a project with a major government client to repurpose its existing Nor-Tech supercomputer for a machine learning application. The project includes installation of Bright Cluster Manager; Scientific Linux 7.x, 16; PBS Pro Job Scheduler; and Bioinformatics software and a significant amount of additional storage.

Nor-Tech Executive Vice President Jeff Olson said, "The bottom line is that we have one of the best HPC-focused engineering teams in the industry. We also have a strong portfolio of top-of-the-line hardware and software providers. This ensures our clients will always receive the best technology for the application."

With nearly 20 years of high performance technology design, development, deployment and implementation expertise, Nor-Tech is one of the most respected supercomputer and HPC workstation builders in the world. They are a Certified NVIDIA Accelerated Computing Partner, an Intel Select Solutions Provider for HPC, and a Bright Computing Premier Partner.

Nor-Tech is on CRN's list of the top 40 Data Center Infrastructure Providers along with IBM, Oracle, Dell, and Supermicro; and is a high performance computer builder for 2015 and 2017 Nobel Physics Award-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. Nor-Tech holds the following contracts: GSA, University of Wisconsin System, NASA SEWP V. To contact Nor-Tech call 952-808-1000/toll free: 877-808-1010 or visit **http://www.nor-tech.com**. Full release at: **http://www.nor-tech.com/category/news/**. Media Contact: Jeanna Van Rensselar, Smart PR Communications; **jeanna@smartprcommunications.com.**