NVIDIA Chosen by Every Major Computer Maker, Every Major Cloud

New Containers on NVIDIA GPU Cloud Help Developers Instantly Deploy Fully Optimized AI and HPC Software

SC17 -- NVIDIA today announced the world's most advanced data center GPU -- the NVIDIA® Tesla® V100 GPU based on NVIDIA's Volta architecture -- is available through every major computer maker and chosen by every major cloud to deliver artificial intelligence and high performance computing.

Dell EMC, Hewlett Packard Enterprise, Huawei, IBM and Lenovo have all announced Volta-based offerings for their customers. Providers such as Alibaba Cloud, Amazon Web Services, Baidu Cloud, Microsoft Azure, Oracle Cloud and Tencent Cloud have also announced Volta-based cloud services.

Building on this breadth of offerings, NVIDIA has introduced new software and tools on the NVIDIA GPU Cloud (NGC) container registry that make it easy for scientists to deploy NVIDIA's accelerated computing platform for compute-intensive research.

NVIDIA shared the news at the SC17 supercomputing conference, where dozens of computer makers and cloud service providers launched a wide range of Volta-based products and services.

“Volta is the world's most powerful platform for AI and HPC, and will allow the world's top minds in scientific research to push the limit on what's possible in areas like drug discovery, alternative fuel sources and predicting natural disasters," said Jensen Huang, founder and chief executive officer of NVIDIA. “With Volta now in data centers and clouds around the world, a new wave of innovation is underway that will have an incredible impact across society."

NVIDIA GPU Cloud Adds HPC Containers

More than 500 HPC applications, including the industry's most widely used, incorporate GPU acceleration. However, one of the biggest challenges facing scientists who want to take advantage of these applications is the complexity of deployment.

NVIDIA's new containers for scientific computing applications and for HPC visualization tools provide access to some of the most widely used GPU-optimized HPC software. They join the GPU-optimized AI frameworks and deep learning applications the company introduced in the NGC container registry last month.

Together, the offerings make NGC a single source for researchers seeking to easy access, at no charge, to the AI frameworks, HPC applications and visualization tools essential for their scientific workflows.

With NGC, scientists and researchers can focus on discovery rather than setting up and deploying scientific computing applications, and the time-consuming challenges of installing complex, resource-intensive software and updates. The GPU-optimized HPC containers on NGC transform this cumbersome chore, which can take days or weeks to complete, into a simple task that requires only a few minutes.

The HPC application containers encompass several popular third-party scientific applications, including GAMESS, GROMACS, LAMMPS, NAMD and RELION.

The HPC visualization containers now available in beta on NGC feature the industry's leading visualization tools, including ParaView with NVIDIA IndeX™ volume renderer, NVIDIA Optix™ ray-tracing library and NVIDIA Holodeck™ for interactive real-time visualization and high-quality visuals.

The complete set of GPU-accelerated deep learning, HPC application and HPC visualization containers are available to users at no charge from the NGC container registry. Simply sign up for an NGC account. The HPC containers can run on any NVIDIA Pascal™ and later generation NVIDIA GPU-accelerated system, including local workstations, NVIDIA DGX™ systems and HPC supercomputing clusters.

More information about NGC is available at www.nvidia.com/gpu-cloud.

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About NVIDIA
NVIDIA's (NASDAQ:NVDA) invention of the GPU in 1999 sparked the growth of the PC gaming market, redefined modern computer graphics and revolutionized parallel computing. More recently, GPU deep learning ignited modern AI — the next era of computing — with the GPU acting as the brain of computers, robots and self-driving cars that can perceive and understand the world. More information at http://nvidianews.nvidia.com/.

Certain statements in this press release including, but not limited to, statements as to: the adoption and use of NVIDIA’s Tesla V100 and Volta GPUs; the benefits, impact and performance of NVIDIA Tesla V100 and Volta GPUs; Volta GPUs helping to create a new wave of innovation that will have an impact on society; and the benefits, impact, abilities and performance of NVIDIA’s GPU Cloud container registry, including AI frameworks, HPC applications, scientific applications and visualization tools are forward-looking statements that are subject to risks and uncertainties that could cause results to be materially different than expectations. Important factors that could cause actual results to differ materially include: global economic conditions; our reliance on third parties to manufacture, assemble, package and test our products; the impact of technological development and competition; development of new products and technologies or enhancements to our existing product and technologies; market acceptance of our products or our partners’ products; design, manufacturing or software defects; changes in consumer preferences or demands; changes in industry standards and interfaces; unexpected loss of performance of our products or technologies when integrated into systems; as well as other factors detailed from time to time in the reports NVIDIA files with the Securities and Exchange Commission, or SEC, including its Form 10-Q for the fiscal period ended July 30, 2017. Copies of reports filed with the SEC are posted on the company’s website and are available from NVIDIA without charge. These forward-looking statements are not guarantees of future performance and speak only as of the date hereof, and, except as required by law, NVIDIA disclaims any obligation to update these forward-looking statements to reflect future events or circumstances.

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