June 8, 2020

AMD EPYC™ Processors Ecosystem Continues to Grow with Integration into New NVIDIA DGX A100

New NVIDIA DGX A100 system harnesses PCIe® 4 support, high-core count, and overall performance of 2nd Gen AMD EPYC™ Processors to create the world's most advanced AI system

SANTA CLARA, Calif., June 08, 2020 (GLOBE NEWSWIRE) -- AMD (NASDAQ: AMD) today announced the NVIDIA DGX™ A100, the third generation of the world's most advanced AI system, is the latest high-performance computing system featuring 2nd Gen AMD EPYC™ processors. Delivering 5 petaflops of AI performance, the elastic architecture of the NVIDIA DGX A100 enables enterprises to accelerate diverse AI workloads such as data analytics, training, and inference.

NVIDIA DGX A100 leverages the high-performance capabilities, 128 cores, DDR4-3200MHz and PCIe® 4 support from two AMD EPYC 7742 processors running at speeds up to 3.4 GHz[1]. The 2nd Gen AMD EPYC processor is the first and only current x86-architecture server processor that supports PCIe® 4, providing leadership high-bandwidth I/O that's critical for high performance computing and connections between the CPU and other devices like GPUs.

"Only 2nd Gen AMD EPYC processors can provide up to 64 cores and 128 lanes of PCIe 4 interconnectivity in a single x86 data center processor, and we're excited to see how the power of the NVIDIA DGX A100 system enables the I/O bandwidth to be effectively doubled," said Raghu Nambiar, corporate vice president, data center ecosystems and application engineering, AMD. "With 2nd Gen AMD EPYC processors, our partners and customers can maximize performance and cost efficiencies in heterogeneous computing, virtualized and hyper converged infrastructure workloads, providing teams with the flexibility and capability to stay at the forefront of innovation."

"The NVIDIA DGX A100 delivers a tremendous leap in performance and capabilities," said Charlie Boyle, vice president and general manager, DGX systems at NVIDIA. "The 2nd Gen AMD EPYC processors used in DGX A100 provide high performance and support for PCIe Gen4. NVIDIA has put those features to work to create the world's most powerful AI system while maintaining compatibility with the GPU-optimized software stack used across the entire DGX family."

Supporting Resources

- Learn more about the 2nd Gen AMD EPYC Processor
- Become a fan of AMD on Facebook
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About AMD

For more than 50 years AMD has driven innovation in high-performance computing, graphics and visualization technologies — the building blocks for gaming, immersive platforms and the datacenter. Hundreds of millions of consumers, leading Fortune 500 businesses and cutting-edge scientific research facilities around the world rely on AMD technology daily to improve how they live, work and play. AMD employees around the world are focused on building great products that push the boundaries of what is possible. For more information about how AMD is enabling today and inspiring tomorrow, visit the AMD (NASDAQ: AMD) website, blog, Facebook and Twitter pages.

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[1] Max boost for AMD EPYC processors is the maximum frequency achievable by any single core on the processor under normal operating conditions for server systems. EPYC-18

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Source: Advanced Micro Devices