August 30, 2021

AMD EPYC™ Processors Picked by Argonne National Laboratory to Prepare for Exascale Future

—The new Polaris supercomputer will optimize AI, engineering, and scientific projects for forthcoming exascale supercomputer at Argonne National Laboratory—

SANTA CLARA, Calif., Aug. 30, 2021 (GLOBE NEWSWIRE) -- AMD (NASDAQ: AMD) announced that the U.S. Department of Energy's (DOE) Argonne National Laboratory (Argonne) has chosen AMD EPYC™ processors to power a new supercomputer, called Polaris, which will prepare researchers for the forthcoming exascale supercomputer at Argonne called Aurora. Polaris is built by Hewlett Packard Enterprise (HPE), will use 2nd Gen EPYC processors and then upgrade to 3rd Gen AMD EPYC processors, and will allow scientists and developers to test and optimize software codes and applications to tackle a range of AI, engineering, and scientific projects.

"AMD EPYC server processors continue to be the leading choice for modern HPC research, delivering the performance and capabilities needed to help solve the complex problems that pre-exascale and exascale computing will address," said Forrest Norrod, senior vice president and general manager, Datacenter and Embedded Solutions Business Group, AMD. "We are extremely proud to support Argonne National Laboratory and their critical research into areas including low carbon technologies, medical research, astronomy, solar power and more as we draw closer to the exascale era."

Polaris will use the AMD EPYC 7532 and EPYC 7543 processors, and NVIDIA® A100 Tensor Core GPUs, to deliver approximately 44 petaflops of peak double precision performance, which is 4x faster than Argonne's current supercomputers.

Initially, Polaris will be used by research teams participating in initiatives such as the DOE's Exascale Computing Project and the ALCF's Early Science Program. User communities within the DOE's Exascale Computing Project will also use Polaris for optimizing engineering tasks for Argonne's forthcoming exascale supercomputer, which includes scaling of combined CPU and GPU-enabled systems and the integration of workflows combining modeling, simulation, AI and other data-intensive components.

Polaris is scheduled to be delivered and installed in August 2021 and will go into use starting early 2022. The broader HPC community will access the system in spring of 2022 to prepare workloads for the next generation of DOE's HPC resources.

Supporting Resources

- See demos, videos and more about the AMD EPYC 7003 series processors
- Learn more about AMD High Performance Computing
- Read the HPE press release here

- Follow AMD on Twitter

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Source: Advanced Micro Devices, Inc.