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AMD Delivers Massive Compute Performance for World's Top Ranked Supercomputer

Oak Ridge National Laboratory's "Titan" Supercomputer Enables Cutting-Edge Research for Vital Science and Technology Disciplines Including Energy, Climate Change

SALT LAKE CITY, UT -- (Marketwire) -- 11/12/12 -- AMD (NYSE: AMD) today demonstrated its ongoing support for high performance computing by providing massive compute capability, performance and flexibility for the world's number one ranked supercomputer. This ranking, the sixth number-one spot for AMD-based supercomputers in the last five years, highlights AMD's commitment to enabling indispensable computing technology by offering competitive performance at low cost. The top supercomputer, a Cray XK7 nicknamed "Titan" and containing more than 18,000 AMD Opteron™ processors, was cited in the latest list of the Top500 Supercomputer Sites and is installed at the U.S. Department of Energy's (DOE) Oak Ridge National Labs (ORNL).

"AMD's impressive results in the latest edition of this prominent list underscore our strong focus on creating industry-leading technologies that allow our customers to capture and analyze massive amounts of data for areas of science that will ultimately shape our future," said Suresh Gopalakrishnan, corporate vice president and general manager, AMD Server Business Unit. "Through employment of our technology, partners like ORNL allow AMD the opportunity to play a role in how some of the biggest challenges of our time are addressed."

The semi-annual Top500 Supercomputing Sites list coincides with this week's SC12 event in Salt Lake City where AMD's leadership in supporting its technology partners and developing its ecosystem is echoed in the more than 20 technology demonstrations. Visitors to the AMD booth (#2019) will have the opportunity to see AMD-based systems that integrate technologies from nearly 30 independent software and hardware partners, as well as key industry partners such as Appro, Colfax, Cray, Dell, HP, Penguin, and Supermicro. Systems employing AMD FirePro™ graphics, AMD A-Series accelerated processing units (APUs) and AMD SeaMicro technologies will also be featured. The array of technologies presented in the booth emphasizes AMD's capabilities in addressing a range of workloads such as HPC cloud, big data and virtualization.

The Top500 ranking also comes on the heels of the launch of the AMD Opteron™ 6300 Series processor, which is also featured in AMD's SC12 booth. This latest addition to the AMD Opteron family delivers superior performance and scalability for HPC systems. AMD has enhanced the performance of the AMD Opteron 6300 Series for HPC customers by leveraging optimizations in compilers and libraries and combining them with the next-generation core architecture.

About Cray's "Titan" at Oak Ridge National Laboratory
The DOE's ORNL supercomputer contains 18,688 nodes, each holding a 16-core AMD Opteron 6274 processor, for a total of almost 300,000 cores at 20 petaFLOPS. "Titan" is 10 times more powerful than ORNL's last world-leading system, "Jaguar," which was announced in June 2010 and is also powered by AMD Opteron technology(1).

Supporting Resources

- Read more about AMD's presence at SC12
- Follow AMD SC12 activity on Twitter at #AMDatSC12
- Learn more about AMD and its HPC offerings
- See Opteron's full performance details
- Follow AMD on Facebook, Twitter and Google+
- Read more about the "Titan" system at ORNL
- Learn more about SC12

About AMD
AMD (NYSE: AMD) is a semiconductor design innovator leading the next era of vivid digital experiences with its ground-breaking AMD Accelerated Processing Units (APUs) that power a wide range of computing devices. AMD's server computing products are focused on driving industry-leading cloud computing and virtualization environments. AMD's superior graphics technologies are found in a variety of solutions ranging from game consoles, PCs to supercomputers. For more information, visit www.amd.com.

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(1) Taken from: http://www.ornl.gov/info/press_releases/get_press_release.cfm?ReleaseNumber=mr20121029-00

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