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AMD Supercomputing Leadership Continues With Broader Developer Ecosystem and Latest TOP500

24 of the Top 100 Supercomputers Powered by AMD

HAMBURG, GERMANY -- (Marketwire) -- 06/18/12 -- *ISC'12* -- AMD (NYSE: AMD) today announced its continued leadership in high performance computing (HPC) with 24 of the top 100 supercomputers in the 39th TOP500 list, announced today, while making significant strides in maturing its HPC ecosystem through the addition of several key components that enable end users to continue to benefit from best-in-class price/performance1 for today's demanding applications.

AMD has continued to work closely with its technology partners to significantly mature its HPC ecosystem, resulting in several new developments including LS-DYNA® simulation software optimized for the AMD Opteron™ 6200 Series processors from Livermore Software Technology Corporation (LSTC), the addition of programming options for AMD graphics processor unit (GPU) technology from CAPS, and the announcement by Mellanox® Technologies of its Connect-IB™ products that will deliver FDR 56Gb/s InfiniBand® speeds to AMD's solution portfolios.

"AMD is fully committed to extending its offerings for the HPC market and ensuring that leading solution providers will continue to turn to AMD for a superior supercomputing experience," said Margaret Lewis, director, Server Software Planning, AMD. "Our latest engagements with industry-leading applications, developer tools, and high performance interconnect technology demonstrate the capabilities of AMD's innovative architecture. As well, our commitment to drive the industry shift to heterogeneous computing puts AMD in a prime position to strengthen our HPC leadership position well into the future."

LS-DYNA, a general-purpose finite element program from LSTC capable of simulating complex real-world problems, has developed a version of its popular LS-DYNA optimized specifically for the AMD Opteron 6200 Series processor. A beta version is currently available with general availability to come in the third quarter of this year. LS-DYNA is used by the automobile, aerospace, construction, military, manufacturing, and bioengineering industries to run simulations that are complex and compute-intensive like auto crashes and explosions.

The CAPS entreprise directive-based compiler, HMPP™, has recently added support for AMD's GPU technology. Based on OpenACC and OpenHMPP programming models, the HMPP compiler fully integrates data-parallel backend for OpenCL™, leveraging the computing power of AMD GPU and APU devices. The CAPS HMPP Workbench compiler will be demonstrated in AMD's booth running on a Supermicro system with the forthcoming AMD FirePro™ W8000 Series professional graphics technology based on an AMD technology codenamed "Tahiti."

The Mellanox Connect-IB product based on FDR 56Gb/s InfiniBand is the next-generation InfiniBand technology developed and specified by the InfiniBand Trade Association (IBTA). Mellanox announced the Connect-IB interconnect adapter product this week which brings the capabilities of FDR InfiniBand to PCI Express® Gen2, offering customers with AMD Opteron 6200-based servers an opportunity to leverage faster data rates.

Supporting Resources

- Learn more about AMD and its HPC offerings at http://www.amd.com/hpc
- Follow AMD on Facebook, Twitter and Google+

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 http://www.amd.com.

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(1)SPEC and SPECint are registered trademarks of the Standard Performance Evaluation Corporation. The comparison reflects results published on http://www.spec.org/cpu2006/results/ as of 4/16/12 and is based on the best performing two-socket servers using AMD Opteron™ processor Model 6262 HE and Intel Xeon processor Model E5-2630L, operating at each processor's default frequency. For the latest SPECint®_rate2006 results, visit http://www.spec.org/cpu2006/results/. SPECint®_rate2006 score of 371 using 2x AMD Opteron™ processor Model 6262 HE: PowerEdge R715 (AMD Opteron 6262 HE, 1.60 GHz), 128 GB (16 x 8 GB 2Rx4 PC3-12800R-11, ECC), Red Hat Enterprise Linux Server release 6.1, Kernel 2.6.32-131.0.15.el6.x86_64, C/C++: Version 4.2.5.2 of x86 Open64 Compiler Suite (from AMD), http://www.spec.org/cpu2006/results/res2011q4/cpu2006-20111121-19032.html. SPECint®_rate2006 score of 394 using 2 x Intel Xeon E5-2630L: Fujitsu PRIMERGY RX300 S7, Intel Xeon E5-2630L, 2.0 GHz, 128 GB (16 x 8 GB 2Rx4 PC3L-12800R-11, ECC, running at 1333 MHz and CL9), Red Hat Enterprise Linux Server release 6.2 (Santiago) 2.6.32-220.el6.x86_64, C/C++: Version 12.1.0.225 of Intel C++ Studio XE for Linux, http://www.spec.org/cpu2006/results/res2012q2/cpu2006-20120326-20603.html. Pricing for Intel-based low cost server is based on HP ProLiant DL380 G8 server ($5,227) with two Intel Xeon processor Model E5-2630L, 32GB RAM (1333MHz 4x8GB 2R), 72GB 15K hdd, DVD, and 3yr base warranty at www.hp.com as of 4/16/12. Specs for Intel Xeon E5-2600 Series processors are available at www.intc.com/pricelist.cfm as of 4/16/12. Pricing for AMD-based server is based on HP ProLiant DL385 G7 server ($3,843) with two AMD Opteron processor Model 6262 HE, 32GB RAM (1333MHz 4x8GB 2R), 72GB 15K hdd, DVD, and 3yr base warranty at www.hp.com as of 4/16/12. Specs for AMD Opteron™ 6200 Series processors are available at http://www.amd.com/us/products/server/processors/Pages/model-numbers.aspx as of 4/16/12. SVR-169

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Source: Advanced Micro Devices