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AMD Delivers First Stream Processor with Double Precision Floating Point Technology

AMD Firestream 9170 and Supporting Software Development Kit Unlock Stream-Based Accelerated Computing

SUNNYVALE, Calif.--(BUSINESS WIRE)--

AMD (NYSE: AMD) today announced the AMD FireStream 9170 Stream Processor and an accompanying Software Development Kit (SDK) designed to harness the massive parallel processing power of the graphics processing unit (GPU). AMD leveraged its unique collective expertise in both GPUs and CPUs to deliver the first integrated hardware and software development solution that meets the needs of the demanding high-performance computing (HPC) market. AMD plans to deliver the FireStream 9170 and supporting SDK to market in the first quarter of 2008. With this launch AMD expects to achieve another important milestone on the path to Accelerated Computing by delivering the first in a series of next-generation heterogeneous compute architectures.

"With a broad range of customer engagements underway, notably customers in the oil and gas, financial and engineering analysis industries, AMD is delivering on its vision of Accelerated Computing with breakthrough benefits for our enterprise customers," said Rick Bergman, Senior Vice President and General Manager, Graphics Products, AMD. "Leveraging the immense graphics processing capabilities acquired from ATI and the HPC domain expertise of AMD, we are developing strong relationships with system vendors and the supporting technology eco-system to deliver processing innovation through an open platforms approach."

AMD FireStream 9170

The AMD FireStream 9170 will be the world's first Stream GPU with double-precision floating point technology tailored for scientific and engineering calculations. Competitively priced at an MSRP of $1999 USD, it features up to 500 GFLOPS(1) of compute power, rivalling many of today's supercomputers, and providing dramatic acceleration for critical algorithms. This second generation Stream Processor is built with 55 nm process technology and consumes less than 150(2) watts of power - delivering an exceptional performance per watt. In addition, the reduced heat dissipation allows it to function in dense design configurations. The FireStream 9170 is a single card solution with two GB of onboard GDDR3 memory to compute large datasets without CPU traffic. The asynchronous direct memory access (DMA) ensures data can flow freely without interrupting the stream processor or CPU.

"GPUs have long been known for their immense parallel processing performance but many challenges still remain in driving widespread customer adoption for general purpose compute," said Jon Peddie, President, Jon Peddie Research. "Leveraging its unique

capabilities in high-performance CPU and GPU technologies, AMD is well positioned to drive an integrated hardware and software proposition that can deliver the best of both processing worlds to its HPC customers."

AMD FireStream SDK

The AMD FireStream SDK is designed to deliver the tools developers need to create and optimize applications on AMD Stream processors. Built using an open platforms approach, the AMD FireStream SDK allows developers to access key Application Programming Interfaces (APIs) and specifications, enabling performance tuning at the lowest level and development of third party tools. Building on AMD's Close to the Metal (CTM) interface introduced in 2006, the Compute Abstraction Layer (CAL) provides low-level access to the GPU for development and performance tuning along with forward compatibility to future GPUs. For high-level development, AMD is announcing Brook+, a tool providing C extensions for stream computing based on the Brook project from Stanford University. In addition, AMD also plans to support the AMD Core Math Library (ACML) to provide GPU-accelerated math functions, and the COBRA video library accelerates video transcode. Also available are third-party tools from top industry partners including RapidMind and Microsoft.

In addition, AMD is now a charter participant in HP's new HPC Accelerator Program, offering HP customers best practices and guidance for these technologies, and ensuring that accelerator hardware and software is qualified for HP servers running HPC applications.

"As innovative new HPC technologies like Stream Computing emerge, it is imperative we work with our partners to ensure an open systems approach to enable new levels of processing efficiency and performance," said Winston Prather, vice president and general manager of HPC at HP. "As part of HP's new HPC Accelerator program, we're working closely with AMD and our customers to deliver an optimal mix of hardware innovation and open, collaborative development environments to ensure delivery of best-in-class HPC platforms."

About AMD

Advanced Micro Devices (NYSE: AMD) is a leading global provider of innovative processing solutions in the computing, graphics and consumer electronics markets. AMD is dedicated to driving open innovation, choice and industry growth by delivering superior customer-centric solutions that empower consumers and businesses worldwide. For more information, visit www.amd.com.

(1) Refers to peak single precision performance of AMD FireStream 9170 Processor. Based on 320 stream cores and engine clock rates of 775-800MHz.

(2) Refers to TDP of single AMD FireStream 9170 Stream Processor. Refers to maximum TDP of AMD FireStream 9170.

Cautionary Statement

This release contains forward-looking statements concerning, among other things, product and technology introduction schedules and the extent and nature of engagement with customers and technology eco-system participants, which are made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. Forward-looking statements are commonly identified by words such as "would," "may," "expects," "believes," "plans," "intends," "projects" and other terms with similar meaning. Investors are cautioned

that the forward-looking statements in this release are based on current beliefs, assumptions and expectations, speak only as of the date of this release and involve risks and uncertainties that could cause actual results to differ materially from current expectations. Risks include the possibility that Intel Corporation's pricing, marketing and rebating programs, product bundling, standard setting, new product introductions or other activities targeting AMD's business will prevent attainment of AMD's current plans; AMD will require additional funding and may not be able to raise funds on favorable terms or at all; customers stop buying AMD's products or materially reduce their operations or demand for its products; AMD will be unable to develop, launch and ramp new products and technologies in the volumes and mix required by the market and at mature yields on a timely basis; global business and economic conditions will worsen; AMD will be unable to transition to advanced manufacturing process technologies in a timely and effective way; and AMD will be unable to maintain the requisite level of investment in research and development and capacity. Investors are urged to review in detail the risks and uncertainties in AMD's Securities and Exchange Commission filings, including but not limited to the Quarterly Report on Form 10-Q for the quarter ended September 29, 2007, which are available on www.sec.gov.

Source: Advanced Micro Devices