AccelerEyes announces its SC08 demos

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FOR IMMEDIATE RELEASE:

ATLANTA, GA—OCTOBER 23, 2008— AccelerEyes will be demoing on the 20ft Cyviz screen in Booth #2131 at the Supercomputing 2008 conference. The demos will run on a Velocity Micro machine by James River Technical.

AccelerEyes will also be presenting a poster entitled, "Jacket: The GPU Engine for MATLAB", at the upcoming Supercomputing 2008 conference held in Austin, TX. The details for this presentation are given as follows:

Title: Jacket: The GPU Engine for MATLAB

Authors:

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Posters Session:

Tuesday, Nov 18, 05:15PM - 07:00PM
Room Rotunda Lobby

Abstract:

In this work, we present a novel approach to GPU computing with our software, Jacket: The GPU Engine for MATLAB®. Jacket is not another GPU API nor is it another collection of GPU functions. Rather, it is simply an extension of the MATLAB language to new GPU data types, 'gsingle' and 'gdouble'. Jacket provides transparent overloading of MATLAB's CPU-based functions with CUDA-based functions. Jacket includes automated and optimized memory transfers and kernel configurations. Furthermore, Jacket uses a compile on-the-fly system that allows GPU functions to run in MATLAB's interpretive style. Jacket brings the speed and visual computing capability of the GPU to MATLAB programs. Further, Jacket lowers the barrier to entry to GPU computing for programmers. Within minutes of download, programmers, most of whom have never attempted GPU computing, are able to start running their code on the GPU. In our poster, we will provide a visual description of Jacket's novel components. Further, we will bring laptops to allow users to experience Jacket firsthand.

We look forward to seeing many of you at this presentation!

About AccelerEyes

Founded in 2007, and located in Atlanta, Georgia, AccelerEyes is leading the software-side of the movement towards visual computing. AccelerEyes' products bring a level of supercomputing power to standard personal computers.

In order for high performance computing (HPC) companies to adopt GPU technologies, a robust and healthy software tool chain must be created to connect programmers to GPU hardware. While hardware manufacturers are building lower-level software tools, such as CUDA, which support their devices, AccelerEyes delivers high-level interfaces which remove the lower-level complexity.

AccelerEyes' first product, Jacket, is used by customers across all major HPC industries, such as the automotive, financial, medical, and seismic industries. Further, Jacket's Graphics Toolbox enables true Visual Computing, seamlessly merging the compute power of CUDA with OpenGL visualizations. AccelerEyes plans to adapt and expand Jacket for other hardware and software platforms.

AccelerEyes is a division of DivEyes, an Atlanta incubator for Digital Imaging and Vision Solutions.