GPU Computing

Eyescale

Eyescale at a glance

GPU Computing
Our experts help you to access the computational power of modern GPU's. We assist you during the entire migration process, from identifying the computational bottlenecks, GPU programming to application deployment.
Eyescale makes the benefits and costs of GPU computing transparent.

Scalable Rendering
Our parallel rendering knowledge is based on over 15 years of industry experience developing the OpenGL Multipipe™ SDK and Equalizer parallel rendering frameworks, and successfully deploying them in major commercial applications.

Parallel Programming
Where beneficial, we combine GPU computing with other paradigms to fully harness the power of multi-core, multi-GPU workstations and clusters, e.g., by using OpenMP, Intel TBB, SIMD instruction sets or native thread APIs.

OpenGL Experts
Eyescale offers OpenGL training and consulting for OpenGL-based applications and middleware in the scientific visualization, medical imaging, oil & gas, and visual simulation markets.

Open Source Integration
We have a profound knowledge of 3D visualization software, such as the OpenSceneGraph, Open Inventor, NVSG and OpenSG scene graph APIs, as well as the Equalizer and Chromium parallel rendering frameworks.

GPU Consulting and Engineering

Eyescale provides the knowledge to harness the computational power of modern graphics processing units to your applications. Our CUDA™ and OpenCL experts will help you to:

**Weather simulation visualized using Virtual Reality
Image courtesy University of Siegen**
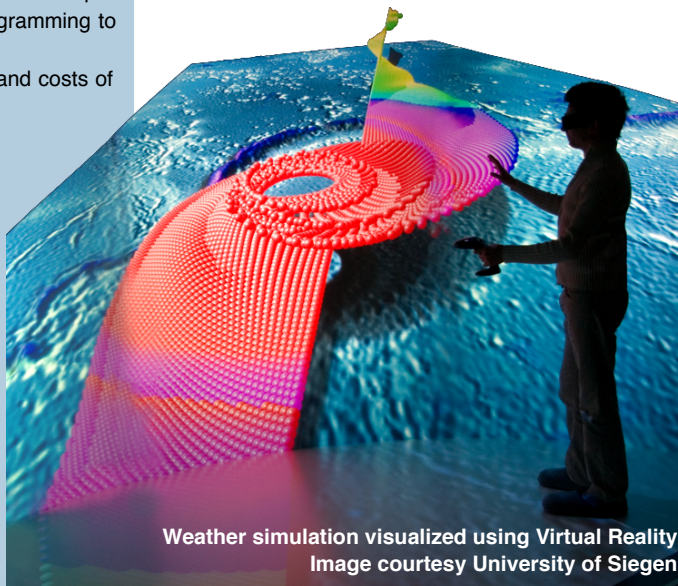
- **Analyze** the potential for GPU acceleration of your existing or planned applications.
- **Plan** your implementation strategy and roadmap to port the key software components to modern GPU architectures.
- **Implement** and integrate GPGPU algorithms using CUDA™ or OpenCL.

- **Optimize** GPU compute kernels to leverage the full power of the available resources to achieve maximum performance.
- **Deploy** your application on a variety of target platforms, ranging from single and multi-GPU workstations to large-scale HPC clusters.

Parallel Programming and Visualization

Our industry experts give you the additional competitive advantage to combine GPU computing with other paradigms, such as 3D visualization, scalable rendering, parallel programming, SIMD and distributed cluster computing.

For more information please email gpucomputing@eyescale.ch

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