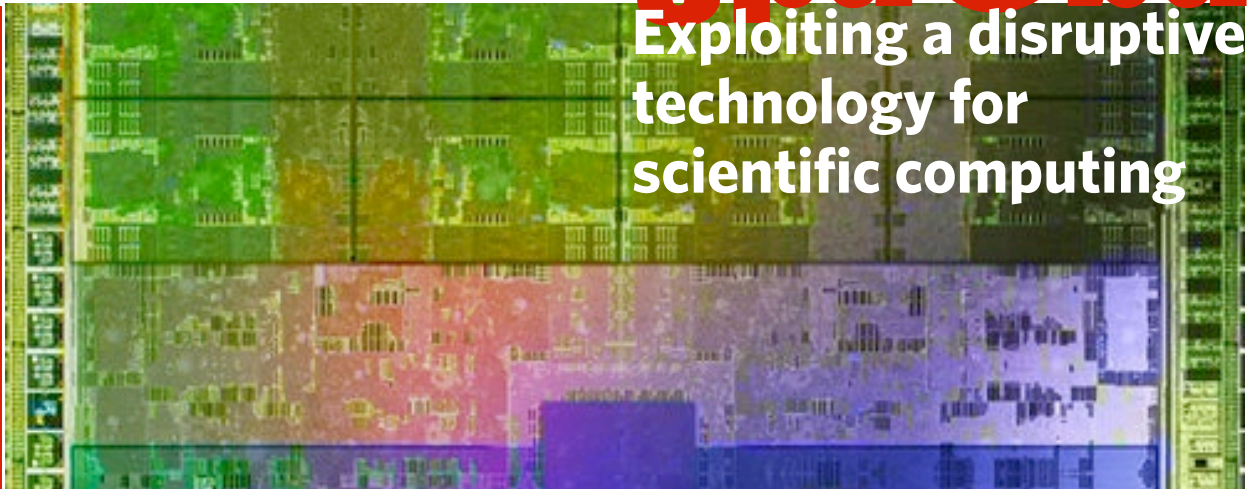


November 8–9, 2011

An X-ray image of the "Fermi" GPU die from Nvidia.



gpu@bu

Exploiting a disruptive technology for scientific computing

GPU@BU workshop & tutorial **Hariri Institute for Computing and Computational Science**

organized by Lorena Barba, Richard Brower, Martin Herbordt & Claudio Rebbi

Tuesday, Nov. 8 — 111 Cummington Street MCS-180

9–9:20am Coffee and mingle.

9:20–9:30am Welcome & Introductions, Claudio Rebbi for the CCS and Azer Bestavros for Hariri Institute

9:30–10:15am KEYNOTE: Jonathan Cohen, NVIDIA
"A credible path to Exascale"

10:15–10:45am Richard Brower, Boston University
"High-throughput science"

10:45–11:00am BREAK

11:00am–11:30pm Michael Clark, Harvard University
"Accelerating radio astronomy cross-correlation with GPUs"

11:30–12:00pm Chris Hill, MIT
"Applying GPUs to geoscience"

12:00–12:30pm David Kaeli, Northeastern University
"Developing extensions to OpenCL targeting GPU computing"

12:30–1:30pm LUNCH

1:30–2:00pm Andrew Corrigan, Naval Research Laboratory
"A hybrid-grid compressible flow solver for large-scale supersonic jet noise simulations on multi-GPU clusters"

2:00–2:30pm Cris Cecka, Harvard University
"Application of assembly of finite elements on GPU: real-time elastodynamics"

2:30–3:00 Miriam Leeser, Northeastern University
"Tasks and conduits framework for portable heterogeneous architecture applications"

3:00–3:30pm BREAK

3:30–4:00pm Simon Layton, Boston University
"Classical algebraic multigrid using CUDA"

4:00–4:30pm Ben Chandler, Boston University
"Brain-inspired computing"

4:30–5:00pm Rio Yokota, King Abdullah University of Science and Technology (KAUST)
"Fast multipole methods for post-petascale computers"

Wednesday Nov. 9 — 3 Cummington St, room 595

10:30am–12pm & 1–2:30pm "CUDA Tutorial"

More information:

<http://blogs.bu.edu/gpu/>

