Advanced GPU Computing Workshop

Over the past few years, the use of GPU-acceleration in High Performance Computing has matured with the technology now used in a number of the fastest supercomputers in the world. There are a growing number of scientific codes that take advantage of the GPU in a wide range of fields, including astrophysics, geosciences, molecular dynamics, signal and image processing, radio astronomy and many more.

iVEC and NVIDIA invite you to attend the Advanced GPU Computing Workshop, featuring expert presenters from NVIDIA including Mark Harris, Michael Wang, and Mark Patane. This three-day event will include seminars on a range of advanced GPU computing topics including: accelerated CUDA libraries, concurrency and multi-GPU programming, debugging and profiling tools, OpenACC and GPU-accelerated Python. The workshop will also include brief presentations from projects that have used GPU-accelerated computing in their scientific processing. For those new to GPU computing, there will also be an introductory session to CUDA programming.

Additionally, there will be a limited number of one-on-one discussions sessions with experts from NVIDIA, which provide a unique opportunity to access expertise and improve the performance of your GPU-accelerated algorithms. If you would be interested in such a discussion, please mention this in your RSVP.

Date: 20th-22nd May 2013

Venue: ARRC Auditorium
26 Dick Perry Ave, Kensington

Cost: Free

Registration:
http://www.ivec.org/ai1ec_event/advanced-gpu-computing-workshop/

Supported by:

IEEE computer society

ACS AUSTRALIAN COMPUTER SOCIETY

iVEC is an unincorporated joint venture of CSIRO and the four public WA universities with funding from the State Government. iVEC fosters and promotes scientific and technological innovation through the provision of supercomputing and eResearch services to the research community, commercial organisations and government agencies. In 2009, iVEC was charged with establishing and operating the $80 million Pawsey Centre by the Australian government.

CSIRO Curtin University ECU Murdoch University The University of Western Australia