AGENDA FOR GPU WORKSHOP

AT
UNIVERSITY OF KIEL
06.03. - 08.03.2013

06.03.2013   *Introduction Event*

9:00 - 9:30   *Registration and hardware exhibition*

9:30 - 9:35   *Opening*

9:35 - 9:45   *Tesla hardware Nvidia/sysGen*

9:45 - 11:15   *Cuda introduction*

11:15 - 12:00   *Break and hardware exhibition*

12:00 - 13:15   *OpenACC*

13:15 - 14:30   *Lunch and hardware exhibition*

06.03.2013   **Workshop Members only**

14:30 - 15:00   Lecture. From GPU to GPGPU. Introduction to CUDA.

                CUDA programming model. CUDA Runtime API.

15:00 - 16:00   Hands-on session: Introduction to CUDA. Device properties. Vector addition.

16:00 - 16:15   Break and hardware exhibition

16:15 - 17:15   Lecture. Memory hierarchy. Standard algorithms: reduce.

17:15 - 18:30   Hands-on session: memory hierarchy.

07.03.2013   **Workshop Members only**

10:00 - 11:00   CUDA accelerated libraries overview.

11:15 - 13:15   Hands-on session: eigenvalue example.

13:15 - 14:30   Lunch

14:30 - 15:45   Thust for STL-like library dealing with GPU. CUSP.

16:00 - 17:30   Hands-on session: Thrust. CUSP

08.03.2013   **Workshop Members only**

10:00 - 11:30   Optimization techniques. Profiling and debugging.

11:45 - 13:15   Contest: optimization

13:15 - 14:30   Lunch

14:30 - 15:45   Rapid CUDA development with directives. OpenACC.

16:00 - 17:30   Hands-on session: OpenACC.

17:30 - 18:00   Concluding remarks. Q&A session.