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Advanced School in High Performance and GRID Computing

3 - 14 November 2008

Presentation of the second week activities

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High Performance
and GRID Computing**



INTRODUCTION TO the second week activities

Stefano Cozzini / Axel Kohlmeyer

**CNR-INFM DEMOCRITOS and SISSA eLab Trieste
University of Penn., Philadelphia, U.S.A**

Our Goals for second week

- To provide an overview of advanced topic in some area of HPC
- To allow you time to review and discuss things learned in the first week
- To allow you a chance to apply some of the concepts and techniques presented to your specific problem.

Structure of the school: 2nd week

- Second week will be advanced topics:
 - Labs will be split into different areas software/hardware and work will be more individual.
 - Lectures and discussion groups are not mandatory but if you are not attending them we expect you to be in the lab.

The labs..

- Cluster Installation Labs:
 - for people interested in setting up their own computational infrastructure
 - Afternoon lab session at SISSA multimedia room.
- Grid Laboratory:
 - for people interested in exploring this new computational paradigm
 - Lundqvist room and infolab for hands-on session
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First week questionnaire

- A questionnaire to assess the quality of the first week activity
- Soon on line
- We need your feedback so please DO it and be sincere... (it is anonymous...)

Third lab: optimization and parallel

- Options:
 - a) redo exercises from week 1 (with help of tutors)
 - b) MPI/OpenMP parallelization of provided code (LJ-md).
 - c) consulting on optimization/parallelization of their own code.
- If you are interested in c please do b first and the get an appointment with Axel and/or Brown

THE WIKI : www.democritos.it/hpc-wiki

- your main tool to give feedback to us
- you are requested to report **daily** during the second week on the wiki about your activities

Special sessions:

- Thursday 13th,
 - Sponsor session (first part of the morning)
 - Round table: How to run a similar event in your own institution (second part of the morning)
 - Axel/Stefano + ICTP contribution (Alvise Nobile and Clement Onime)

Friday's session:

- Your contribution is expected:
- So far:
 - Antun Balaz: the see-grid3 project
 - Ehsan Nedaaee: LTSP, a simple way to construct a diskless linux cluster
 - Irene Gallai: “ Benchmarking WRF on different clusters “

Our sponsors

- scientific institution:



- commercial sponsor:

