



HPC EUROPA 2 WORKSHOP ON APPLICATION PORTING AND OPTIMIZATION

The goal of this workshop is that, after the course, participants will have their codes ported, compiled, profiled, tuned and ready for efficient production runs. The platform used for the course will be CSC's flagship machine, a Cray XT4/XT5 Louhi. The presented strategies are applicable to other platforms as well.

The lectures will be broadcast as web stream, hence you may attend the course virtually. You may also participate in the hands-on sessions remotely over an SSH connection.

Date: 21.09.2009 09:00 - 24.09.2009 16:30

Location: Premises of CSC-IT Center for Science Ltd, Keilaranta 14, Keilaniemi, Espoo.

Language: English

Lecturers: John Levesque, Luiz DeRose (Cray Inc.)

Price: Free of charge

Registration by 15.09.2009 16:30 at www.csc.fi/courses.

PROGRAM

Day One Morning

Overview of Methodical Approach for analyzing applications (Levesque, 90 minutes)

Overview of statistics gathering software (DeRose, 90 minutes)

Day One Afternoon

Hands on profiling applications

Day Two Morning

Resolving scaling issues (Levesque, 90 minutes)

Using Apprentice2 to identify scaling issues (DeRose, 90 minutes)

Day Two Afternoon

Hands on for scaling application as high as possible

Day Three Morning

Using OpenMP to mitigate scaling problems (Levesque, 90 minutes)

Advanced usage of Apprentice2 (DeRose, 90 minutes)

Day Three Afternoon

Hands-on workshop

Day Four Extra

Hands on workshop

ADDITIONAL INFORMATION

Further information from courses@csc.fi

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