

Message-Passing Programming with MPI



IT4Innovations
national
supercomputing
center



When: 12 -13 December, 2013

Where: Institute of Geonics, Studentská 1768, Ostrava- Poruba

Tutor: David Henty, EPCC

Programme:

Thursday, December 12

10,00 - 11,30 Message-Passing Concepts
Practical: Parallel Traffic Modelling

11,30 – 12,00 Coffee break

12,00 – 13,30 MPI Programs
MPI on Anselm
Practical: Hello World

13,30 – 14,30 Time for lunch

14,30 – 16,00 Point-to-Point Communication
Practical: Pi

16,00 – 16,30 Coffee break

16,30 – 18,00 Communicators, Tags and Modes
Practical: Pi continued / Ping-Pong

Friday, December 13

9,00 - 10,30 Non-Blocking Communication
Practical: Message Round a Ring

10,30 - 11:00 Coffee break

11,00 - 12,30 Collective Communicaton
Practical: Collective Communication

12,30 - 13,30 Time for lunch

13.30 - 15,30 Introduction to the Case Study
Practical: Case Study

The world's largest supercomputers are used almost exclusively to run applications which are parallelised using Message Passing. The course covers all the basic knowledge required to write parallel programs using this programming model, and is directly applicable to almost every parallel computer architecture.

Language: English

Prerequisites: Notebook and ability to program in Fortran, C or C++. Anselm account recommended. (Temporary Anselm accounts will be created for the course participants.)

Registration:

<http://prace.it4i.cz/regitrace/MPI-Dec-2013>

Deadline for registration: December 5, 2013 or exhausted course capacity.

Capacity: 45 attendees

More information:

<http://prace.it4i.cz/message-passing-programming-with-mpi>

If you have any questions please contact us at:

training@it4i.cz



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YOUTH AND SPORTS

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