



Training

Introduction to Parallel Programming

Duration

2 day training

Objectives

In this 2 day training, participants will learn the fundamentals of parallel programming. An overview of OpenMP and MPI will be provided with hands-on practical labs where participants will be able to progressively understand the concepts of parallel programming.

Prerequisites

- Knowledge in C

Training conditions

The training is limited to 14 persons.

Deliverables

The participants will receive all training materials: courses and practical exercises.

Training content

Day 1

- Parallel architectures and programming models (talk)
- OpenMP (talks & Practicals)

Day 2

- Introduction to MPI
- Point to point communication (+exercises)
- Non-blocking communication (+exercises)
- Collective communication (+exercises)
- Other MPI-1 and MPI-2 features (talk)
- Hybrid programming (talk)
- Tools & libraries: debugging, performance analysis, other libraries (short talk)



**Innovative software
for multicore paradigms**

Headquarters

Immeuble CAP Nord
4A Allée Marie Berhaut
35000 Rennes
France

Tel.: +33 (0)2 22 51 16 00

training@caps-entreprise.com
www.caps-entreprise.com

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