

Inici > PATC Course: Heterogeneous Programming on GPUs with MPI + OmpSs

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Objectives

The tutorial will motivate the audience on the need for portable, efficient programming models that put less pressure on program developers while still getting good performance for clusters and clusters with GPUs.

More specifically, the tutorial will:

- Introduce the hybrid MPI/OmpSs parallel programming model for future exascale systems
- Demonstrate how to use MPI/OmpSs to incrementally parallelize/optimize:
 - MPI applications on clusters of SMPs, and
 - Leverage CUDA kernels with OmpSs on clusters of GPUs

Requirements

Prerequisites:

Good knowledge of C/C++ Basic knowledge of CUDA/OpenCL Basic knowledge of Paraver/Extrae

Registration for this course is available here

All PATC Courses at BSC do not charge fees. PLEASE BRING YOUR OWN LAPTOP.

Comments:

Please fill in the **evaluation form** by following the link.

Recommended Accomodation:

Please follow the link for map of some local hotels.

Contact Us:

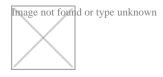
<u>CONTACT US</u> for further details about MSc, PhD, Post Doc studies, exchanges and collaboration in education and training with BSC.

For further details about Postgraduate Studies in UPC - Barcelona School of Informatics (FiB), visit the website.

Sponsors:

BSC and PRACE 3IP project are funding the PATC @ BSC training events. If you want to learn more about PRACE Project, visit the <u>website</u>.

Materials



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