PATC Systems workshop: Programming ARM based Prototypes

Objectives

- Get a comprehensive view of the architecture of the heterogeneous ARM-based platforms deployed in the framework of the Mont-Blanc project, including ARM multicore clusters based on mobile and server technology.
- Understand the challenges associated with large-scale HPC simulations.
- Understand the basic concepts of architectural simulations and introduce the MUlti-scale Simulation Architecture (MUSA), developed within Mont-Blanc 3 for the simulation of next-generation HPC architectures.
- Hands-on and study of a use case using MUSA. Tools for architectural simulation that include a complete software stack for performing architectural simulations at scale of thousands of cores will be made available.

Requirements

- Standard HPC users, with some knowledge in computer architecture (recommended, but not required).
- BSc (or higher) degree in science or engineering with basic knowledge in parallel computing.
- There will be a hands-on session, therefore attendees should bring their own laptop.
**Academic Staff**

Barcelona Supercomputing Center on behalf of the Mont-Blanc 3 consortium.

- Adriá Armejach - post-doc at the Barcelona Supercomputing Center (BSC).
- Marc Casas - senior researcher at the Barcelona Supercomputing Center (BSC).
- Miquel Moreto - senior researcher at the Barcelona Supercomputing Center (BSC).
- Filippo Mantovani - post-doc at the Barcelona Supercomputing Center (BSC).

**Materials**

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- For further details, please contact BSC?CNS pate [at] bsc [dot] es

**Further information**

- All PATC Courses at BSC do not charge fees.
- **NOTE:** PLEASE BRING YOUR OWN LAPTOP.

http://montblanc-project.eu/

**Recommended Accomodation:** Please follow [the link](http://montblanc-project.eu/) for map of some local hotels.

[CONTACT US](http://montblanc-project.eu/) 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](http://montblanc-project.eu/).

**Sponsors:** BSC and PRACE 4IP project are funding the PATC @ BSC training events.
If you want to learn more about PRACE Project, visit the [website](https://www.bsc.es/ca/education/training/patc-courses/patc-systems-workshop-programming-arm-based-prototypes).

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