

## PATC: Performance Analysis and Tools

### Objectives

The objective of this course is to learn how *Paraver* and *Dimemas* tools can be used to analyze the performance of parallel applications and to familiarize with the tools usage as well as instrumenting applications with *Extræ*.

### Requirements

**Prerequisites:**

Good knowledge of C/C++

Basic knowledge of CUDA/OpenCL

Basic knowledge of MPI, OpenMP

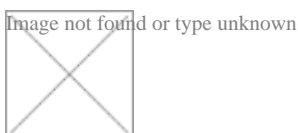
**NOTE:**

MIRI students interested in obtaining the Certificate of Attendance will have to submit some exercises. Further information will be provided on the first course day.

### Learning Outcomes

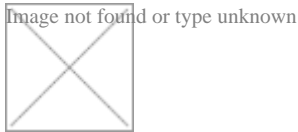
The students who finish this course will have a basic knowledge on the usage of the BSC performance tools. They will be able to apply the same methodology to their applications, identifying potential bottlenecks and getting hints on how to improve the applications performance

[Academic Staff](#)



**Course Convener:** Judit Gimenez

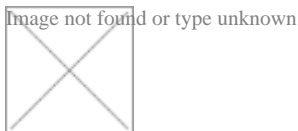
## Materials



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## Further information



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

### **Recommended Accomodation:**

Please follow [the link](#) for map of some local hotels.

[CONTACT US](#) 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 5IP project are funding the PATC @ BSC training events.  
If you want to learn more about PRACE Project, visit the [website](#).

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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**Source URL (retrieved on 20 Abr 2024 - 06:03):** <https://www.bsc.es/es/education/training/patc-courses/patc-performance-analysis-and-tools-0>