

[PATC Course: Programming Distributed Computing Platforms with COMPSs](#)

Objectives

The objectives of this course are COMPSs is a programming model which is able to exploit the inherent concurrency of sequential applications and execute them in a transparent manner to the application developer in distributed computing platform. This is achieved by annotating part of the codes as tasks, and building at execution a task-dependence graph based on the actual data used consumed/produced by the tasks. The COMPSs runtime is able to schedule the tasks in the computing nodes and take into account facts like data locality and the different nature of the computing nodes in case of heterogeneous platforms. Additionally, recently COMPSs has been enhanced with the possibility of coordinating Web Services as part of the applications. COMPSs supports Java, C/C++ and Python as programming languages.

Learning Outcomes: In the course, the COMPSs syntax, programming methodology and an overview of the runtime internals will be given. The attendees will get a first lesson about programming with COMPSs that will enable them to start programming with this framework.

A hands-on with simple introductory exercises will be also performed. The students who finish this course will be able to develop simple COMPSs applications and to run them both in a local resource and in a distributed platform (initially in a private cloud)

Requirements

Prerequisites: Programming skills in Java and or Python

[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:

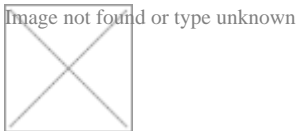
[CONTACT US](#) for further details about MSc, PhD, Post Doc studies, exchanges and collaboration in education and training with BSC.

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

Sponsors:

BSC and PRACE 3IP project are funding the PATC @ BSC training events.
If you want to learn more about PRACE Project, visit the [website](#).

[Materials](#)



INTELLECTUAL PROPERTY RIGHTS NOTICE:

- The User may only download, make and retain a copy of the materials for his/her use for non-commercial and research purposes.
- The User may not commercially use the material, unless has been granted prior written consent by the Licensor to do so; and cannot remove, obscure or modify copyright notices, text acknowledging or other means of identification or disclaimers as they appear.
- For further details, please contact BSC?CNS patc [at] bsc [dot] es

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

Source URL (retrieved on 6 oct 2024 - 16:58): <https://www.bsc.es/ca/education/training/patc-courses/patc-course-programming-distributed-computing-platforms-compss>