

PATC Course: Introduction to CUDA Programming

Objectives

The aim of this course is to provide students with knowledge and hands-on experience in developing applications software for processors with massively parallel computing resources. In general, we refer to a processor as massively parallel if it has the ability to complete more than 64 arithmetic operations per clock cycle. Many commercial offerings from NVIDIA, AMD, and Intel already offer such levels of concurrency. Effectively programming these processors will require in-depth knowledge about parallel programming principles, as well as the parallelism models, communication models, and resource limitations of these processors. The target audiences of the course are students who want to develop exciting applications for these processors, as well as those who want to develop programming tools and future implementations for these processors.

Requirements

Basic knowledge of C/C++ programming

Attendees will need to bring their own laptops with a SSH client

This course is now full and registration is closed.

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

This course will provide very good introduction to the **PUMPS Summer School run jointly with NVIDIA - 11-15 July** also at Campus Nord, Barcelona. For further information [visit the school website](#).

Course Convener:

Antonio Pena, BSC
Acting Director,
NVIDIA GPU Center of Excellence

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](#)

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