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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



Please fill in the evaluation form by following the link.

Recommended Accommodation:

Please follow the link for map of some local hotels.

Contact Us:

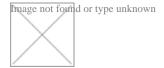
<u>CONTACT US</u> for further details about MSc, PhD, Post Doc studies, exchanges and collaboration in education and training with BSC.

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 website.

Materials



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• For further details, please contact BSC?CNS patc [at] bsc [dot] es

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