

PATC: Introduction to OpenACC

Objectives

This is an expansion of the topic "OpenACC and other approaches to GPU computing" covered on last years editions of the Introduction to CUDA Programming. This course is delivered by the **GPU Center of Excellence (GCOE)** awarded by NVIDIA to the Barcelona Supercomputing Center (BSC) in association with Universitat Politècnica de Catalunya (UPC). It will provide very good introduction to the PUMPS Summer School run jointly with NVIDIA - also at Campus Nord, Barcelona. [For further information visit the school website.](#)

As an NVIDIA GPU Center of Excellence, BSC and UPC are deeply involved in research and outreach activities around GPU Computing. OpenACC is a high-level, directive-based programming model for GPU computing. It is a very convenient language to leverage the GPU power with minimal code modifications, being the preferred option for non computer scientists. This course will cover the necessary topics to get started with GPU programming in OpenACC, as well as some advanced topics.

Requirements

Level: *(All courses are designed for specialists with at least 1st cycle degree or similar background experience)*

BEGINNERS: for trainees from different background or very little knowledge.

Academic Staff

Image not found or type unknown



Convener:

Antonio Peña, BSC

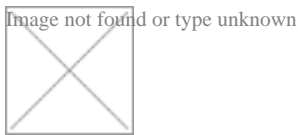
Acting Director,

NVIDIA GPU Center of Excellence

Lecturers:

Pedro Valero, Marc Jordà, Pau Farré

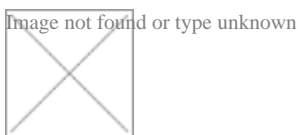
Materials



The relevant materials will be made available to the participants during the course. **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@bsc.es

Further information



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

Recommended Accommodation: 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 4IP 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

Source URL (retrieved on 11 Mar 2025 - 02:45): <https://www.bsc.es/ca/education/training/patc-courses/patc-introduction-openacc-0>