

## 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.](#)

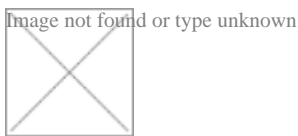
As an NVIDIA GPU Center of Excellence, BSC and UPC are deeply involved in research and outreach activities around GPU Computing. OpenACC is a high-level, directive-based programming model for GPU computing. It is a very convenient language to leverage the GPU power with minimal code modifications, being 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



**Convener:**

**Antonio Peña, BSC**

Acting Director,

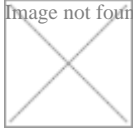
NVIDIA GPU Center of Excellence

**Lecturers:**

Pedro Valero, Marc Jordà, Pau Farré

## Materials

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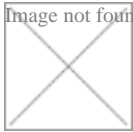


The relevant materials will be made available to the participants during the course. **INTELLECTUAL PROPERTY RIGHTS NOTICE:**

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- For further details, please contact BSC-CNS [patc@bsc.es](mailto:patc@bsc.es)

## Further information

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**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

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