

Application optimization for GPU acceleration



As part of driving the BSC/UPC NVIDIA GPU Center of Excellence, we provide GPU Computing optimization/development services to the BSC community. We are involved in developing /optimizing GPU acceleration in a variety of projects from different departments at BSC.

Summary

Right now we are involved in developing/optimizing GPU acceleration for the following applications:

- [EPEEC Applications](#):
 - AVBP
 - DIOGENeS
 - Osiris
 - Quantum Espresso
 - SMURFF

In the past we were involved in developing/optimizing GPU acceleration for the following applications:

- [ALYA Multiphysics](#)

- [PELE](#)
- [Human Brain Project](#)
- [CaixaBank - Cognitive Computing Application to Financial Innovation](#)
- [Barcelona Subsurface Imaging Tools \(Repsol-BSC Research Center\)](#)

Objectives

To provide GPU Computing optimization/development services to the BSC community.

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

Source URL (retrieved on 30 abr 2025 - 11:13): <https://www.bsc.es/ca/research-development/research-areas/programming-models/application-optimization-gpu-acceleration>