

GPU Parallel Programming using CUDA

3 hour seminar at University of Calabria

3:00 PM, January, 21st, 2016. Department of Mathematics and Computer Science.

Room: Lab 31A (Cubo 31A – 2° piano).

Lecturer: Prof. William Spataro – Unical Nvidia Teaching Center Principal Investigator

Target audience: Researchers/students with basic (or little) knowledge of parallelism and C programming.

This seminar introduces the basic concepts of the CUDA (Compute Unified Device Architecture) parallel programming model to exploit the power of Nvidia graphics processing units (GPUs) to enable dramatic increases in computing performance for graphics, 3D content, video and scientific processing-intensive applications. This talk will provide an introduction to CUDA and examples of applications within research conducted in the simulation field, related to geological complex systems modelling.

