

Performance Analysis of GPU enabled HPC applications

(PRACE Training Centre Course)

July 15-16, 2021

**VSB - Technical University of Ostrava
ONLINE**

Lecturers: Gunter Roth, Giuseppe Fiameni, Mozhgan Kabiri Chimeh - NVIDIA
Radim Vavřík - IT4Innovations

Learn about multiple GPU programming models and choose the one that best fits your needs. This course will cover an introduction to GPU programming using OpenACC, OpenMP, CUDA C. Throughout the course, you will learn how to analyse GPU enabled applications using Nsight tools.

Thursday July 15, 2021

09:00 - 09:15 Presentation
09:15 - 09:30 Connecting to a cluster
09:30 - 10:00 Introduction to GPU computing
10:00 - 11:45 Directive Based Programming with OpenMP and OpenACC on GPU
11:45 - 12:30 CUDA C Programming
12:30 - 13:00 Lunch break
13:00 - 14:00 CUDA C Programming - continued
14:00 - 16:00 Dive into Nsight Profiling

Friday July 16, 2021

09:00 - 12:00 Challenge : hands on
12:00 - 12:30 Wrap up and QA



More information & registration

events.prace-ri.eu/event/1237/



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