



natESM Training 2024

5. - 6.11.2024 · JSC - FZ Jülich · Wilhelm-Johnen-Straße · 52428 Jülich

Day 1 ▪ 5.11.2024

Topic of the day: Performance Analysis

- 8:15 If needed: Bus shuttle from Jülich to JSC
- 8:30 Arrival and registration with coffee and snacks
- 9:00 Welcome and overview
Sabine Griebach (FZ Jülich)
- 9:15 Presentation: GPUs for Exascale: Introduction to JUPITER System and its GPUs
Andreas Herten (FZ Jülich)
- 10:45 C o f f e e b r e a k
- 11:15 Presentation: Parallel Performance Analysis and Score-P Basics
Markus Geimer (FZ Jülich)
- 12:15 L u n c h b r e a k @ S e e k a s i n o
- 13:30 Tutorial : Parallel Performance Analysis and Score-P Basics
Markus Geimer (FZ Jülich)
- 15:30 C o f f e e b r e a k
- 16:00 Tutorial : Applying Score-P to an ESM Code
Markus Geimer (FZ Jülich)
- 17:15 Profiling ICON: Facing the Complex Realities
Markus Geimer (FZ Jülich)
- 17:45 Wrap-up Performance Analysis
Markus Geimer (FZ Jülich)
- 18:00 Bus shuttle to restaurant
- 18:30 D i n n e r

Day 2 ▪ 6.11.2024

Topic of the day: GPU Programming

- 8:00 If needed: Bus shuttle from Jülich to JSC
- 8:30 Arrival with coffee and snacks
- 9:00 Taming the Beasts - A Practical Overview of GPU Programming Models
Andreas Herten (FZ Jülich) and Team
- 9:45 Fast-Track to High Performance: Exploring OpenACC
Andreas Herten (FZ Jülich) and Team
- 10:45 C o f f e e b r e a k
- 11:05 Fast-Track to High Performance: Exploring CUDA
Andreas Herten (FZ Jülich) and Team
- 12:30 L u n c h b r e a k @ S e e k a s i n o
- 13:30 Fast-Track to High Performance: Exploring Kokkos
Andreas Herten (FZ Jülich)
- 14:45 Two ESM Experiences of Performance Portability: Born Into It or Maturing Into It
Daniel Caviedes-Voullième (FZ Jülich)
- 15:15 Wrap-up
Sabine Griebach (FZ Jülich)
- 15:30 E n d o f t r a i n i n g
- 15:30 If needed: Bus shuttle from JSC to Jülich station

Requirements:

Please bring your own laptop for the tutorials & your passport for registration.

