

Introduction to the DAVIDE OpenPower GPU cluster

16th-17th April

Cineca, Via Magnanelli 6/3, Casalecchio di Reno, Italy.

16th April

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| 9.30-10.15 | Registration and Welcome |
| 10.15-10.45 | Introduction to HPC at CINECA (A. Marani, CINECA) |
| 10.45-11.15 | Coffee |
| 11.15-12.00 | DAVIDE: a success story(F.Magugliani, E4) |
| 12.00-12.45 | DAVIDE and beyond: architecture and performance (Piero Altoe, NVIDIA) |
| 12.45-14.00 | LUNCH |
| 14.00-14.30 | PRACE and Quantum Espresso on DAVIDE (A. Emerson, CINECA) |
| 14.30-15.00 | Classical Molecular Dynamics on DAVIDE (D.Dellis, GRNET) |
| 15.00-15.30 | Coffee |
| 15.30-16.00 | Deep learning benchmarks(M. Rorro, Cineca) |
| 16.00-16.30 | Trans precision computing on GPU (A. Emerson, GPUs) |

17th April

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| 9.30-10.15 | Power measurement infrastructure on Davide (A. Bartolini,UniBO) |
| 10.15-11.00 | Power measurement on Davide – live demo (A. Borghesi+F.Beneventi,UniBO). |
| 11.00-11.30 | Coffee |
| 11.30-12.15 | Programming GPUs (Luca Ferraro, Cineca) |
| 12.15-13.00 | Introduction to CUDA FORTRAN (P. Bonfa', Cineca) |