

**PRACE Autumn School in
HPC Programming
Techniques - Athens, Greece**

Report of Contributions

Contribution ID: 0

Type: **not specified**

PRACE and Greek National Tier-1

Tuesday, 25 November 2014 13:45 (45 minutes)

Presenter: Mr LIABOTIS, Ioannis

Session Classification: Technical Presentations about PRACE, HPC Systems and Programming models

Contribution ID: 1

Type: **not specified**

Trends and challenges for achieving Exascale computing

Tuesday, 25 November 2014 14:30 (1h 15m)

Presenter: Dr BEKAS, Costas

Session Classification: Technical Presentations about PRACE, HPC Systems and Programming models

Contribution ID: 2

Type: **not specified**

How to get access to PRACE Resources

Tuesday, 25 November 2014 16:05 (45 minutes)

Presenter: Mr LIABOTIS, Ioannis

Session Classification: Technical Presentations about PRACE, HPC Systems and Programming models

Contribution ID: 3

Type: **not specified**

Logistics

Contribution ID: 4

Type: **not specified**

Introduction to Parallel Performance Engineering

Contribution ID: 5

Type: **not specified**

Automatic trace analysis with Scalasca

Contribution ID: 6

Type: **not specified**

Optimisation and Benchmarking: Part 1 - LWM2, a useful tool

Friday, 28 November 2014 09:30 (45 minutes)

Session Classification: Optimization and benchmarking (including hands on)

Contribution ID: 7

Type: **not specified**

Optimisation and Benchmarking: Part 2 - OpenMP

Friday, 28 November 2014 10:15 (45 minutes)

Session Classification: Optimization and benchmarking (including hands on)

Contribution ID: 8

Type: **not specified**

Optimisation and Benchmarking: Part 3 - MPI Optimisation

Friday, 28 November 2014 11:00 (45 minutes)

Session Classification: Optimization and benchmarking (including hands on)

Contribution ID: 9

Type: **not specified**

Optimisation and Benchmarking: Part 4 - Parallel I/O

Friday, 28 November 2014 11:45 (45 minutes)

Session Classification: Optimization and benchmarking (including hands on)

Contribution ID: 10

Type: **not specified**

Case Study: Application of Mixed Mode Programming (MPI+OpenMP) in a Real-World Scientific Code

In this case study we will go through the steps taken in order to introduce Threaded Parallelism (OpenMP) into a scientific code already parallelized with MPI. The whole process will be reviewed, from initial benchmarks and profiling to the verification of results and final benchmarks.

Presenter: Mr TRYFONIDIS, Nikolaos (AUTH)

Contribution ID: 11

Type: **not specified**

How to Use the Training System

Tuesday, 25 November 2014 16:50 (40 minutes)

Presenter: Dr DELLIS, Dimitris

Session Classification: Technical Presentations about PRACE, HPC Systems and Programming models