

# **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