

VI-HPS



**Barcelona
Supercomputing
Center**

Centro Nacional de Supercomputación



13th VI-HPS Tuning Workshop

Barcelona Supercomputing Center

10-14 February 2014

- Presenters
 - Wolfgang Frings & Marc Schlütter (JSC)
 - Robert Dietrich & Tobias Hilbrich (TU Dresden)
 - Michael Firbach & Isaías Comprés (TU Munich)
 - Tim Cramer, Joachim Protze & Felix Münchhalfen (RWTH)
 - Andres Charif-Rubial & Jean-Baptiste Besnard (UVSQ)
 - Judit Giménez, Juan González, Germán Llort & Harald Servat (BSC)
- Thanks
 - Sponsor: BSC PRACE Advanced Training Centre

Monday 10th February

- 13:30 (registration)
- 14:00 Welcome
 - ▶ Introduction to VI-HPS & overview of tools
 - ▶ Introduction to parallel performance engineering
 - ▶ Introduction to parallel performance modeling
 - ▶ Parallel file I/O bottlenecks and solutions
- 15:30 (break)
- 16:00 Lab setup
 - ▶ MareNostrum-III computer system & software environment
 - ▶ Building & running NPB-MZ-MPI/BT-MZ & CGPOP examples
- 17:30 (adjourn)

Tuesday 11th February

- 09:00-10:45 **Paraver**
- 11:15-13:00 **Dimemas**

Wednesday 9 February

- 09:00-10:45 **Score-P & CUBE**
- 11:15-13:00 **Score-P & Scalasca**

Thursday 10 February

- 09:00-10:45 **Vampir**
- 11:15-13:00 **Periscope**

Friday 14th February

- 09:00-10:45 **MUST**
- 11:15-13:00 **MAQAO**

- Hands-on exercises part of each tool presentation every morning session
- Hands-on coaching to apply tools to analyse & tune your own codes each afternoon to 17:30