

Tools and techniques for scientific programming on BG/Q

CINECA 3-4 Dec 2012

AGENDA

day 1:

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| 10:00-11:00 | Introduction to the BG/Q architecture |
| 11:00-11:30 | Italian and European offer for HPC computing - ISCRA and PRACE |
| 11:30-11:45 | Break |
| 11:45-13:00 | Programming environment |
| 13:00-14:30 | Lunch |
| 14:30-16:00 | Production environment |
| 16:00-16:30 | Break |
| 16:30-18:00 | Profiling (Scalasca, HPC toolkit, gprof) |

day 2:

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| 09:00-10:00 | BG/Q at CINECA (FERMI): local configuration, access, services |
| 10:00-11:00 | Scientific application stack, benchmarks and best practices |
| 11:00-11:30 | Break |
| 11:30-12:00 | Hands-on: primer |
| 12:00-13:00 | Hands-on: debugging (totalview, addr2line, gdb) |
| 13:00-14:30 | Lunch |
| 14:30-16:00 | Network topology on a BG/Q system |
| 16:00-17:00 | Q&A, working on student's problems (user support) |