SCAI
SuperComputing Applications and Innovation

CINECA
COURSES
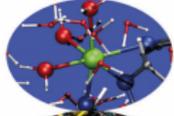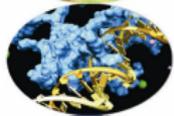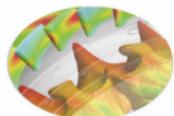High Performance
Computing 2014

HPC enabling of OpenFOAM$^{\textcircled{R}}$ for CFD applications

Course Presentation

26-28 March 2014, Casalecchio di Reno, BOLOGNA.

SuperComputing Applications and Innovation Department, CINECA

PRACE

CINECA
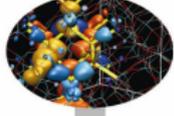
The HPC (High Performance Computing) enabling of OpenFOAM for CFD applications is a technical, 3 days, review course.

The aim of the course is to provide to the participants a clear update, from a technical point of view, of the key subjects, models and tools available today on OpenFOAM, the standard de-facto CFD open-source library.

The course will focus on the usability and performances of OpenFOAM on modern HPC platforms. Specifically, examples and case history of real life industrial relevant problems will be discussed, highlighting the cost-effective benefits obtained using this open-source CFD library on HPC infrastructures.

The course consists of lectures and hands-on tutorials on CFD topics (only 20 PC are available, please use your laptop if available).

- Course Agenda

Include here the Agenda in pdf format

- Use *username* and *password* that has been provided at the front desk to login via SSH to PLX

```
ssh -X a06traXX@login2.plx.cineca.it
```

XX is your personal ID.
SSH: The Secure Shell protocol allows data to be exchanged over a secure channel between two computers. On Linux systems the ssh client is usually pre-loded, on Windows systems you have to download and install it. You can get a free client from openssh website
For more info have a look to our HPC User Guide

- **Lunch**: It will be @ Charlot, Via Giovanni Verga 8, Casalecchio di Reno (BO). It is located behind the corner at the rear of CINECA, 3 minutes walking distance.
- **Social Dinner**: Thursday the 28th 20:30 p.m. @ Cantine Bentivoglio, in city centre of Bologna, Via Mascarella 4/B. At your expense, two menus available here. Please, confirm your presence in the google doc before the end of the working day.