

High Performance Computing for Science and Engineering II

Spring semester 2015

M. Troyer, P. Koumoutsakos ETH Zürich, HIT G 31.8 CH-8093 Zürich

INFORMATION FOR THE FINAL EXAM

TIME - PLACE

- WHEN: June 8th. Start at 09:00 and will end approximately 12:00
- WHERE: HG E 26.1, HG E 26.3 (Computer rooms)

INFRASTRUCTURE

Please get familiarin advance with the computers that will be used so that you will not lose time during the exam.

- the exam computers will **N**OT have network access (therefore, no internet access)
- you will work within a clean Linux environment (Fedora), NOT Windows
- compiler: gcc 4.8.2
- programming interface: eclipse, emacs, vi are present on the machines. If you have other preferences, please check the other existing options on the machines, under the linux environment.

ALLOWED MATERIAL

Electronic content available on the exam computers:

- Lecture notes in PDF format (HPCSE I + HPCSE II).
- Exercise solution sheets in PDF format.
- MPI: MPI A Message-Passing Interface Standard v3.0.
- OpenMP: OpenMP 3.1 API C/C++ Syntax Quick Reference Card, OpenMP Application Programming Interface v3.
- CUDA documentation.
- C++: offline version of cppreference.com

We strongly advise that you get familiar with the documentation you will use **beforehand** so that you will not lose time when solving the exam. Manuals are already available on the lecture homepage.

OTHER MATERIAL: you can bring with you up to **4** handwritten sheets, i.e. up to 8 pages if written on both sides. The notes must be your own and not copied from anybody else. No photocopies allowed. By drafting these notes yourself, we believe that they will help you prepare better for the exam.

OTHER NOTES

- CSE students registered to the exam 401-0686-00J will take an oral exam combined with the HPCSE I lecture (151-0107-20L) in the Summer 2015 exam block. These students do not take the written exam.
- Students registered to the 401-0686-00S exam have to additional hand-in a project. Same rules as other CSE projects apply, but the report is graded and will contribute to 20% of the final grade.

The exam will be both written (theory and programming) and on the computer (programming). If you have further questions, please contact one of the TAs.