Design of Parallel and High-Performance Computing

Fall 2015

Lecture: Organization of the Course

Instructor: Torsten Hoefler & Markus Püschel

TA: Timo Schneider

ETH

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

The Team

- Professors: Torsten Höfler & Markus Püschel
- TA: Timo Schneider

- Guest lecturer: we'll see
- Possibly consultants for projects

- Course website: http://spcl.inf.ethz.ch/Teaching/2015-dphpc/

Administrative

- **Lecture: Mo 13:15 – 16:00**
- **Recitation: Do 13:15 – 15:00**
  - Takes place as announced on website
  - Sometimes used as lecture or swapped with lecture
  - Used for project updates
- **Help:**
  - Email Timo: timo.schneider@inf.ethz.ch
  - Or do you prefer office hours?

Administrative

- **Website: http://spcl.inf.ethz.ch/Teaching/2015-dphpc/**
- **Will contain all material (slides, homeworks, schedule, etc.)**
- **Mailing list: https://spcl.inf.ethz.ch/cgi-bin/mailman/listinfo/dphpc15**

- **Background material:**
  - Maurice Herlihy and Nir Shavit: The Art of Multiprocessor Programming. Morgan Kaufmann, 2012
  - Papers as mentioned

Work and Grading

- **Work during semester:**
  - Regular homeworks
  - Project
- **Grade:**
  - 50% Project
  - 50% Written exam (120 minutes)

Project

- **Teams of 3 (look for partners now)**
- **Topic that fits the course material**
  - More later (this Thursday)
  - You are encouraged to choose a topic
- **Milestones**
  - Pick topic: in about a month
  - Project progress presentations: about a month before end
  - Project presentations: last week of class
- **Report:**
  - Due around mid January
  - 6 pages, conference style
  - Template provided

Course Name

- **Design of Parallel and High-Performance Computing**
- **Design of Parallel and High-Performance Computing Platforms?**
- **Design of Parallel and High-Performance Computing Applications?**
- **Design of Parallel and High-Performance Computing Systems?**

- **Design of Parallel and High-Performance Computing:**
  Understand principal issues involved in software development for parallel computing