

# Course evaluation: DN2258 Introduction to High-Performance Computations, 2010/11

- Course data**
- DN2258 Introduction to high-performance computations, 7.5 credits
  - August 2010, P1 2010/11
  - Personal: Michael Hanke (course leader) plus many invited lecturers
  - Teaching sessions
    - Lectures: 39 hours
    - Laborations: 40 hours
  - Students: 14 (additionally many PhD students and external students, altogether 70)
  - ECTS: Laboration 3.0, project work 4.5.
  - Prestationsgrad: 83% (per 2011-08-10)
  - Examinationsgrad: 71% (per 2011-08-10)

**Aims** The goal of this course is to give the student a basic introduction to the skills needed to utilize high performance computing resources for own projects.

**Changes compared to the last year** As usual, the course has been adapted to more recent developments in high-performance computing and applications in frontier research the summerschool. The summerschool is an intrinsic part of NGSSC and KCSE. The changes proposed in the last year's evaluation have been realized.

**Conclusions** The following conclusions are based upon the answers to the course avaluation form, chats with the students, and experiences from the homework evaluation. They have been discussed with the program committee.

- General opinions**
- The course was considered to be very interesting and useful.
  - The audience of the course is rather heterogenous. Thus, the prerequisites are very different.
  - The teachers and lab assistents got very high estimations.
  - The social program was very highly estimated.
  - Relatively few students finished the project work in time.

- More detailed**
- The number of participants was too large for this edition of the summerschool. It should be limited to approximately 60 students.
  - Most of the lab sessions are well appreciated. However, a better feedback is necessary. (see the part on planned changes)

- As a compact course, the schedule is rather tight. Some lectures a little bit too condensed.
- The students' command of unix system commands and programming languages is occasionally not sufficient.

**Teaching** Two-weeks compact course. Lectures by guest lecturers (from KTH, Chalmers, Uppsala univ., abroad) and lab sessions

**Examination** Project report and computer labs

**Kurslitterature** • Lecture notes, copies of OH-slides

**Prerequisites** As indicated above, the audience is rather wide-spread. This means that the prerequisites are available in very different extent.

**Grading** There wasn't any problem.

**Planned changes** Besides the usual update of the course related to advances in high-performance computing, the following actions will be taken:

- Revise the lab system.
- Many detailed changes, e.g., OpenMP lab's revised.
- Many changes behind the scenes!