

PRACE Petascale Summer School at PDC August 26–29, 2008 Schedule

Last updated: August 30, 2008

Lecturers

SvA Sebastian von Alfthan, CSC/Helsinki

UA Ulf Andersson, PDC/KTH/Stockholm

MB Mark Bull, EPCC/Edinburgh

WF Wolfgang Frings, FZJ/Jülich

MH Mike Hammill, PDC/KTH/Stockholm

MH2 Michael Hanke, KTH/Stockholm

LJ Lennart Johnsson, PDC/KTH/Stockholm and Univ. of Houston.

PM Pekka Manninen, CSC/Helsinki

JPN Jean-Phillipe Nominé, GENCI/France (Unable to attend, **AvdS** gave **JPNs** talk)

TO Tomas Opielstrup, KTH/Stockholm

NS Nils Smeds, IBM

GS Gert Svensson, PDC/KTH/Stockholm

AvdS Aad van der Steen, Utrecht University/Netherlands.

AT Ari Turunen, CSC/Helsinki.



General Remarks

- This scedule is subject to change. The dates and the main content are fixed and will NOT change, but single lectures may be moved and/or replaced.
- Generally, classes are from 9.15 to 18.00, with lectures in the morning and labs in the afternoon. However, there may be exceptions, so review the schedule carefully.
- Lectures are in lecture halls D2 (Lindstedtsv. 5, 3rd floor) and B2 (Brinellv. 23, ground floor) on KTH main campus.
- All the labs are in computer rooms Gul and Grön on KTH main campus. The computers in these rooms are Suns. Students may if they prefer bring a portable computer of their own and use the wireless network.
- A PDC machine room tour will take place on Friday, August 29 starting at 13.00. You will leave from computer room Gul in pre-arranged groups. Someone from PDC will come by to announce that the tour will begin. You will follow that person to the machine room. The tour is concurrent with the lab taking place at that time.
- Coffee breaks during lectures are just outside the lecture room; coffee breaks during labs are taken outside E3.
- The course Web site is:
http://www.pdc.kth.se/systems_support/training/2008/PRACE-P2S2/
- Many of the lectures are concurrent with the “Introduction to High-Performance Computing Summer School”.



Tuesday, 080826

8.30–9.15 Registration outside of D2

9.15–10.00, D2, AT,LJ,UA,MH Welcome and Introduction

10.00–10.15 Coffee outside of D2

10.15–11.00, D2, WF Lecture in Petascale Programming: The Blue Gene/P at Jülich, Introduction

11.15–12.00, D2, WF Lecture in Petascale Programming: The Blue Gene/P at Jülich, A Case Study

12.00–13.15 Lunch at Syster o Bror

13.15–15.00, Gul/Grön, WF, NS Lab in Petascale Programming: Porting a code to the Blue Gene/P.

15.00–15.15 Coffee outside of E3

15.15–18.00, Gul/Grön, WF, NS Lab continued

18.30 “Get-together” picnic Meeting point is in front of D3



Wednesday, 080827

9.15–9.20, D2, UA Message of the Day

9.20–10.00, D2, MB Lecture in Petascale Programming: Petascaling of application and the PRACE benchmark suite.

10.00–10.15 *Coffee outside of D2*

10.15–11.00, D2, SvA Lecture in Programming Languages: Advanced MPI 2, user defined datatypes, MPI I/O etc.

11.15–12.00, D2, TO Case study: GPU Programming

12.00–13.15 *Lunch at Syster o Bror*

13.15–15.00, Gul/Grön, WF, NS Lab in Petascale Programming: Porting a code to the Blue Gene/P.

15.00–15.15 *Coffee outside of E3*

15.15–18.00, Gul/Grön, WF, NS Lab continued



Thursday, 080828

9.15–9.20, D2, UA Message of the Day

9.20–10.00, D2, SvA Lecture in Advanced Parallel Programming: Hybrid (MPI+OpenMP) programming

10.00–10.15 *Coffee outside of D2*

10.15–11.00, D2, SvA Lecture in Advanced Parallel Programming: Hybrid (MPI+OpenMP) programming cont.

11.15–12.00, D2, MB Lecture in Advanced Parallel Programming: Hybrid (MPI+OpenMP) programming cont.

12.00–13.15 *Lunch at Syster o Bror*

13.15–15.00, Gul/Grön, SvA, PM Lab in Advanced Parallel Programming

15.00–15.15 *Coffee outside of E3*

15.15–17.00, Gul/Grön, SvA, PM Lab continued

18.00 “Summing up” dinner at a restaurant Jakthornet, (Fiskartorpsvägen 16)



Friday, 080829

9.15–9.20, B2, MH2, UA Message of the Day

9.20–10.00, B2, PM Lecture in Advanced Parallel Programming: Performance Measurement Tools and Techniques

10.00–10.15 Coffee outside of B2

10.15–11.00, B2, PM Lecture continued

11.15–12.15, B2, AvdS Lecture in Computer Architectures: Petascale architectures and the PRACE prototypes

12.15–13.15 Lunch at Quatum

13.15–15.00, Gul/Grön, SvA, PM Lab in Performance Measurement Tools and Techniques

13.15–17.00, PDC, GS PDC machine room tours in parallel with Lab

15.00–15.15 Coffee outside of E3

15.15–17.00, Gul/Grön, SvA, PM Lab continued

