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Using the Project Submission System

Mike Hammill, PDC

Introduction to High-Performance Computing



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- * Decide what project to work on
 - Check "Project Tips" page for ideas
 - Keep in mind time limits
 - Talk with Jesper och Michael Hanke

- * Decide which students you want to work with
 - Pick a "contact person" for the group
 - Optionally, choose a tutor

- * Submit a text abstract before leaving
 - Use Web-based project submission system, "CyberChair"
 - You may update your abstract



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PDC Center for
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- [Overview](#)
- [Accommodations](#)
- [Agenda \(Detailed\)](#)
- [Agenda \(Schematic\)](#)
- [Call for Participation](#)
- [Contact](#)
- [Course Topics](#)
- [Evaluation](#)
- [Lab Exercises](#)
- [Payment form](#)
- [Prerequisites](#)
- [Projects](#)
- [Registration](#)
- [Speakers](#)
- [Speaker Index](#)
- [Students](#)
- [For Teachers Only](#)
- [For Reviewers Only](#)

✉ [support](#)

Introduction to High-Performance computing

16-27 August 2010

KTH main campus

[Home](#)

The Center for High-Performance Computing (**PDC**) and the KTH School of Computer Science and Communication (**CSC**) are organizing an introductory course in high-performance computing. This is a course within the National Graduate School in Scientific Computing (**NGSSC**) and is endorsed by the KTH Computational Science and Engineering Centre (**KCSE**) Graduate School. Both NGSSC and KCSE help sponsor the Summer School. The course is open to KTH masters students as course number **DN2258**. Other students, both national and international, as well as academic and industrial, are also welcome to apply.

This course will give an introduction to the skills needed to utilize high performance computing resources, including an introduction to HPC programming languages, libraries and tools, modern computer architectures, parallel algorithms, and optimization of serial and parallel programs. Case studies in various scientific disciplines will help illustrate these topics. The course consists of both lectures and guided hands-on lab experience. It carries 7.5 ECTS (European Credit Transfer and Accumulation System), where 1.5 ECTS credits are equivalent to one week's workload of 40 hours. The student receives these credits on successful completion of the post-course project. The number of seats are limited.

The course is suitable for scientist and graduate students with interest in high-performance computing. It requires good experience in programming. The course language is English.

Course registration opened March 15, 2010; registration closed on June 4, 2010.

The Summer School will be held at the KTH main campus, Stockholm.

Participants will become part of the long tradition of the Summer School. This will be the 14th year it has been given. The [course pages for all the previous years](#) are online and may help give you an idea of what the course has been like.

Dates: from 16 August 2010 08:00 to 27 August 2010 18:00

Location: *KTH main campus*

KTH main campus
Valhallavägen 79

Room: E3

Chairs: **HANKE, Michael**
LAURE, Erwin
OPPELSTRUP, Jesper



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Student Course Project

- [How To Submit Your Project](#)
- [Project Deadlines](#)
- [Project Submission](#)
- [Project Tips](#)
- [Tip on Estimating Memory Usage](#)
- [Project Roster](#) (updated hourly)
- [Project Tutors](#)
- [Whom to Contact with Questions](#)
- If all else fails, here are [some possible ideas for a projects](#)



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Introduction to High-Performance Computing

KTH, Stockholm, Sweden, August 17-28, 2010

[PDC Summer School 2010](#)

This site is to be used for electronic submission of abstracts (step 1) and full papers (step 2) for PDC Summer School 2010 projects. During the summer school, you will form into groups in which one person will be designated as the contact person. That person will be responsible for submitting your project through this page. As a contact person, please make sure you have a browser that supports uploading via a web form. That is necessary in phase 2. You can use [this page to test](#). If there is no button named 'Browse' visible, you should upgrade your browser in order to use this site.

→ Go to [the submission pages](#)

Footnote: Software named "CyberChair" is being used to handle paper submissions and review. You can learn more about CyberChair by following links like the one at the bottom of this page.

[CyberChair](#)

Author: Richard van de Stadt ([Borbala Online Conference Services](#))

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[PDC Summer School 2010](#)



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Projects are typically completed by small groups of students. One person from your group, a so called "contact person", will be responsible for electronic submission of the abstract and the completed project. To complete the steps, follow the links under the "Step" heading.

Step	Description	Deadline
Step 1: New abstract submission and abstract update . Note: submission of a *new* abstract is now closed, but you can always update your abstract. If you want to submit an entirely new abstract, please send e-mail to summer-2010-info at pdc.kth.se so we can temporarily turn on new abstract submission.	The abstract of the paper is submitted electronically. You will get a confirmation by email. The confirmation will include a login name and password that you will need in the second step. Please contact us if you don't receive this message within a reasonable time. If you have a tutor in mind for your project, please include this tutors name in a sentence at the bottom of your abstract. Further Explanation is available online.	Original abstract submission by August 27, 2010, that is, before the end of the two-week course . Updating your abstract is always possible. If you have a tutor, and are making a big change in your abstract, you should consult your tutor first.
Step 2: Paper submission	In the second step, the full paper should be electronically submitted. Use the login name and password you received during Step 1 to submit your paper in Step 2. Papers submitted in the second step will be reviewed and comments will be returned. If so indicated by the comments, you may need to make corrections and resubmit your paper. Use Step 2 to resubmit your paper until it is passing. Further Explanation is available online.	Best practice: Submit first iteration by [TBD = to be determined]. Submit second--and hopefully final--iteration by [TBD]. Note: Response time on papers submitted after [TBD] is not guaranteed to be prompt. The absolute deadline is [TBD]. On [TBD], the project dies.
Step 3: Camera-ready paper submission	The third and final step is only for those whose submitted papers are accepted in Step 2. In that case, you will receive e-mail stating that you may proceed to this step. Since your paper has already been accepted at this point, this final submission is meant to be a last chance for you to polish your work to reflect any changes you deem important from the final reviewer remarks in Step 2. Further Explanation is available online.	Anytime after the paper has been accepted in Step 2.

PDC Summer School 2010 - Submission - Phase 1

Introduction to High-Performance Computing

KTH, Stockholm, Sweden, August 16 - 27, 2010

Submission Form for Abstracts

[Read the submission information](#)



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Contact Person (CP):

First name:	<input type="text"/>	Last name:	<input type="text"/>
Phone:	<input type="text"/>	Fax:	<input type="text"/>
Email:	<input type="text"/>	Email again:	<input type="text"/>
Complete surface mail address (without CP's name):		<input type="text"/>	

Title of paper:

Author #1:

First name:	<input type="text"/>	Last name:	<input type="text"/>
Name of company or institute:			

Author #2:

First name:	<input type="text"/>	Last name:	<input type="text"/>
Name of company or institute:			

Author #3:

First name:	<input type="text"/>	Last name:	<input type="text"/>
Name of company or institute:			

Author #4:

First name:	<input type="text"/>	Last name:	<input type="text"/>
Name of company or institute:			

PDC Summer School ... x

www.pdc.kth.se/cgi-bin/training/SummerSchool/genphase1.py?conf=/afs/pdc.kth.se/public/www/trainin

Lexikon PDC KTH SNAC Google Plone PloneSites Distro Lokalt News Other Bookmarks

Abstract +
Keywords
(plain ascii):

Main topic(s):

- 1. Astronomy
- 2. Bioinformatics
- 3. Biology
- 4. Chemistry
- 5. Computational Electromagnetics
- 6. Computational Fluid Dynamics
- 7. Computational Science
- 8. Computer Graphics and Visualization
- 9. Cryptography
- 10. Engineering
- 11. Geophysics
- 12. Genetic Analysis
- 13. Mathematics
- 14. Molecular Modeling
- 15. Physics
- 16. Other (Specify below, 1 per line)

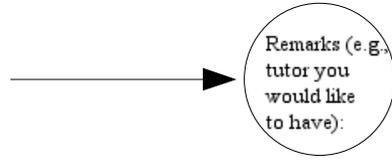
Remarks (e.g.,
tutor you
would like
to have):

Submit data for step 1 Clear all fields

In case of problems, please contact summer-2010-main@pdc.kth.se.



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the "last updated" date shown above on this Web page; also consider reloading this Web page in your browser. Note: the color and star notation does not indicate if a paper received a passing grade.



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Nr.	Project Title	Authors	Tutors
1*	Calculation of the spectral distribution for large sparse matrices using the Kernel Polynomial Method	Oskar Talcoth	Thomas Ericsson
		Hugo Strand	
2*	Parallel algorithm for solving the two-dimensional shallow water equations	Niklas Mellgren	Jesper Ooppelstrup
		Peter Lenaers	
3*	Parallel Implementation of Rejection Rules for Convolutional Codes	Florian Hug	Jesper Ooppelstrup
4	Parallelization of a sequence comparison algorithm using BLAST	Linn Fagerberg	Jonathan Vincent
		Pär Lundin	
5*	Microphase Separation of Biopolymer based on Paralleled Computation	Yonglei Wang	Jesper Ooppelstrup
		Xia Shen	
6	Parallelizing the Haplotyper simulation in Mach	Emil Rehnberg	Elisabet Molin
7	Parallel short DNA sequence mapping	Per Unneberg	Mike Hammill
8	Parallel accelerated convergence of path integrals	Dusan Vudragovic	Mike Hammill
9	Parallelization of Gaussian elimination	Andrey Vlasenko	Michael Hanke
10	Parallel implementation of Perfectly Matched Layers	Rodrigo Vilela de Abreu	Jesper Ooppelstrup
11	Parallelization of nonlinear conjugate gradient routine for energy minimization of granular materials	Daniel Vågberg	Mike Hammill
12*	Using Regression to Estimate Execution Time of High-Performance Computing Jobs, With a Parallelization of PLINK as Test Object	Daniel Markus	Elisabet Molin
		Mikael Lindahl	
13	Parallelizing a Jacobi iteration based program	Lorand Delczeg	



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reply forward archive junk delete

PDC Summer School 2010 - CyberChair <summer-2010-maint@pdc.kth.se> 02:36 PM

PDC Summer School 2010 Abstract Submission Form Feedback

to You

cc summer-2010-maint@pdc.kth.se other actions

Abstract:
This is just a toy project, just for testing.

Remarks:
[None Given]

----- End of abstract submission data -----

IMPORTANT: To submit your paper you should revisit the submission site at <http://www.pdc.kth.se/training/2010/SummerSchool/Projects/CyberChair/html/>, go to step 2 and at the appropriate places fill in the following:

Login: mike@kth.se
Password: E00-128248061657151

You will then be able to upload your paper.

If you have questions about this message, please contact summer-2010-maint (summer-2010-maint@pdc.kth.se).

--- End of this message ---





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Step 2: Paper submission	In the second step, the full paper should be electronically submitted. Use the login name and password you received during Step 1 to submit your paper in Step 2. Papers submitted in the second step will be reviewed and comments will be returned. If so indicated by the comments, you may need to make corrections and resubmit your paper. Use Step 2 to resubmit your paper until it is passing. Further Explanation is available online.	Best practice: Submit first iteration by [TBD = to be determined]. Submit second--and hopefully final--iteration by [TBD]. Note: Response time on papers submitted after [TBD] is not guaranteed to be prompt. The absolute deadline is [TBD]. On [TBD], the project dies.
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Submission of papers - Phase 2

Enter the login name and password that you received by email after phase 1. Then select 'Continue'.

Contact's e-mail

E00-nnn...nnn

Login:	<input type="text"/>
Password:	<input type="password"/>
<input type="button" value="Continue"/>	

In case of problems, please contact [summer-2010-maint](#).



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- * Work on your project
- * Write up results in whatever tool you like
- * Export the report in PDF format
- * Submit the report in CyberChair step 2

PDC Summer School 2010 - Submission - Step 2

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Submission Form for Papers

Important -> [Read the submission information](#)

Notes:

- If you don't see the "Browse..." button next to the line stating "Location of your paper", you may have to upgrade your browser in order to use this form
- If you see different fonts, this may be because your browser doesn't fully support cascaded style sheets.
- The data shown below is in 2 parts. The first part deals with the submission of your paper; The second part shows the data you submitted during step 1. Please check if all data is still valid; Make corrections if necessary.

First part - Submission of your paper

Format of your paper:

- PDF (.pdf/preferred)
- Zipped Postscript (.zip/Windows)
- Zipped Postscript (.gz/Unix)
- Compressed Postscript (.Z/Unix)
- Postscript (.ps/uncompressed)
- Rich Text Format (.rtf)
- DVI (.dvi/uncompressed)

Location of your paper:
(Use the 'Browse' button to avoid typing mistakes.)

Choose File No file chosen

Number of pages:

Second part - Check and correct the data you submitted during step 1



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- * The system automatically, periodically reminds your tutor to review your report
- * The system will relay the tutors review to you
- * If you need to make corrections, you resubmit using step 2
- * Finally, when the system says both your tutor and the course examiner approve your report, you make a final submission using step 3.



Now you are finished!