Parallel Programming
Exercise Session 1
19.02.2015 – 25.02.2015
Lecture Location and Time Changes

Lectures starting from next week:

• Monday: 10 – 12 in HG E7
• Tuesday: 10 – 12 in HG E7
Outline

General Introduction
Setting up your Work environment
General Introduction
About me

• Who am I?
  • Simon Gerber

• What am I doing and how did I end up teaching this course?
  • PhD student, my friend made me

• How can you reach me if you have any questions?
  • simon.gerber@inf.ethz.ch
  • Walk into CAB  F69

• Modified slides:
  • people.inf.ethz.ch/gerbesim/teaching/pprog15
About Exercise Sessions

Course content (Exercises/Slides/Solutions) available at:

http://ait.inf.ethz.ch/teaching/courses/2015-SS-Parallel-Programming/

All Downloads on the website are password protected!
User: pp-ss2015
Password: ClassOf2015
Write this down now!
About Exercise Sessions

• This session is for you!
• Ask if something is unclear, does not work
  • If you have a problem with your code spend some time to solve it
  • If it still does not work after you tried for more than 1-2 hours, ask!
• Ask if you would like me to talk about something in more detail in the next class
Exercise Submission (1)

You will have to hand in several deliverables for each exercise using SVN (no printouts, e-mails, etc.)

Follow the instructions on the exercise sheet carefully
- What you need to submit
- How you have to name your submissions
- Where to submit it

Exercise hand-out: Wednesday (typically every week)
Exercise Submission (2)

Hand-in your solution and not that of your colleague!

Don’t copy & paste code from other sources!

If you have questions or something does not work as expected, contact me.

Hand-in: Wednesday (midnight) typically one week later
For some exercises you will have more time to solve.
Setting up your machine
We need several tools

Java: We need the Java Development Kit with the Java compiler

Eclipse: An open source development environment

SVN: A version control system
Java

For the first part, we use Java as our language

- Download and install the Java SE Development Kit 7

On Linux you can:

- `$ sudo apt-get install openjdk-7-jdk`
Eclipse: An Integrated Development Environment

Eclipse aims to help programmers develop software.
Eclipse supports many languages and comes with a variety of plugins.

- Download and install/extract the Eclipse IDE for Java Developers from the website: http://www.eclipse.org/downloads/packages/release/Luna/SR1A
Install the Subversion Plugin

Subversive – SVN Team Provider
• Help → Market Place → Find “Subversive” → Go
• Install “Subversive – SVN Team Provider”

SVNKit Connector
• Help → Install new Software → Add http://community.polarion.com/projects/subversive/download/eclipse/4.0/luna-site/
• Select and Install SVNKit connector
A quick Eclipse Tutorial (DEMO)
Don’t see a particular view?

Click on Window → Show View
Eclipse Demo

Creating a new project

Writing a Hello-World program

Submitting it to the server
Checking in your solutions to SVN

Right click on *project (assignment1) → Team → Share Project → Select “SVN” → Next*

In the new dialog fill the URL field:

- https://svn.inf.ethz.ch/svn/hilliges/pprog15/trunk/{NETHZ USERNAME}
- Username + Password, then click Finish
- certificate issue → Trust certificate
- Secure storage (ignore for lab purposes)

Make the first commit (add the comment) and then click OK
Updating your Submission (Commit new Changes)

Project is already connected to the SVN server

Right click on the project called assignment1 → Team → Commit
- add a comment to summarize your changes
- Important: Try to commit only code that compiles without errors

Click Ok
Outline

Next week: Starting with Java programming

Make sure

- You have your environment setup and working
- You are familiar with committing your solutions
Useful Links

Official Java Tutorial:
http://docs.oracle.com/javase/tutorial/

Eclipse and Java for Total Beginners:
http://eclipsetutorial.sourceforge.net/totalbeginner.html

Eclipse IDE “lesser known” Features:
http://stackoverflow.com/questions/54886/hidden-features-of-eclipse

Practice Programming:
https://projecteuler.net/