

[simula . research laboratory]

Work group meeting no. 1 - Information and tools

INF5040 (Distributed systems)

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Agenda

- Schedule for the work group meetings.
- Forming groups
- Software and tools for exercises (voluntary) and assignment (mandatory).



Time Schedule (1)

Week 36

- Information and tools
- CORBA Architecture
- HelloWorld example

Exercise;
Setup environment.
Develop and test the *helloWorld* example

Week 37

- Parameters and value objects
- Callback interface and ORBacus name service

Exercise;
Develop and test two examples:

- *hellodemo*
- *callback*

Week 38

- POA policies
- Concurrency/threads and data objects

Exercise;
Specify POA arch. and policy for example.

Time Schedule (2)

Week 39:

- Presentation of assignment and deliverables.

Week 40-41:

- Meetings to handle Java and CORBA specific questions.

Week 42:

- Hand-in assignment

Week 43 - 48:

- Student presentations

Forming groups

- Students shall work in groups of 3.
- Group work together on exercises, assignment and student presentations.
- Any preferences on who to work with and subject to present, send to group teacher by the **6th of September**.
- Students then allocated to groups and subjects. See homepage.

Tools

- Main objective with assignment, to give students hands-on experience with distributed object computing.
- Choose CORBA due to:
 - Programming language independence
 - Concept easy to map to other object and component technologies.
- Implementation language is Java.

Install and configure CORBA

- Ifi has installed IONA Orbacus on **Linux** machines.
- ORBacus is implemented in Java.
 - Use 1.3.x or earlier versions to avoid recompilation of the ORBacus implementation.
 - In `.bashrc`:

```
PATH=/local/java/jdk1.3.1/bin:$PATH
export PATH
export JAVA_HOME=/local/java/jdk1.3.1
```



Environment

- Expand the local `.envir` file with:

```
setenv PATH $PATH:/local/orbacus/current/bin
setenv CLASSPATH $CLASSPATH:/local/orbacus/current/classes
setenv LD_LIBRARY_PATH $LD_LIBRARY_PATH:/local/orbacus/current/lib
export PATH CLASSPATH LD_LIBRARY_PATH
```
- Remember to logout, login and check the settings (i.e. "echo \$PATH")