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Contents

We will try some technologies meant to build MAS. A list follows, but be aware that the program may change!

- JADE
- JASON
- CArtAgO
- TuCSoN

We may also try to integrate and use them together. There is some more software you'll need:

- Oracle JDK SE (OpenJDK works perfectly too and, since is the reference now, is probably better.)
- Eclipse SDK 3.7 Classic
- Jason for jEdit

Slides

Slides will be available as soon as possible. The worst case is that I'll upload the slides as soon as the lesson finishes

- 0. Introduction to the curse
- 1. Java Agent DEVELOPMENT Framework
- 2. Jason: a Java-based interpreter for an extended version of AgentSpeak - Part 1
- 3. Jason: a Java-based interpreter for an extended version of AgentSpeak - Part 2
- 4. Jason/JADE integration: distributing BDI Agents
- 5. Common ARTifact infrastructure for AGents Open environments
- 6. Jason + CArtAgO + Java + tuProlog: BDI agents spread over the network using artifacts and living in a Prolog world
- 7. Tuple Centres Spread on Network

Code

- 3. Base code, Base code with broker and DF already implemented (lazy people only), Communication protocol
- 4. Base code
- 6. Base code
- 7. TuCSoN distribution and some base code

Solutions

Solutions will be uploaded only after (or during) the lessons.

- 1. Code as developed before the lesson, Code modified during the lesson, with the broker provided with referee service
- 2. Hello world, concurrent factorial with context check and sequential factorial with test goals
- 3. Jason WordGame full solution
- 4. WordGame with Jason agents on JADE platform, with interoperability among Jason and Java/JADE agents
- 5. All CArtAgO tutorials
- 6. Boomers game full solution
- 7. in_all, rd_all, dining philosophers

Solutions from students
Because some students are skilled enough to share their code with everybody.

- 1. Michele Bombardi, Andrea Mordenti
- 2. Michele Bombardi, Chiara Casalboni, Ettore Esposito, Marco Prati
- 3. Matteo Bianchi, Michele Bombardi, Andrea Mordenti, Luca Ricci
- 4. Michele Bombardi
- 6. Andrea Mordenti

Videos

If you are experiencing very technical issues with some software component and you are too lazy to check the Web for a solution, you can see a few guide videos.

- Import a compressed project in Eclipse
- How to include a JAR library within an Eclipse project (example with jade.jar)