

JADE (Java Agent Development Environment)

What is it about?

- JADE is a middleware implemented in Java that facilitates the development of Multi Agent Peer-to-Peer applications.
- In compliance with the FIPA specifications
 - FIPA = Foundation for Intelligent Physical Agents
 - Some of the standards included are:
 - Agent communication language (ACL)
 - Agent message transport
 - Agent management
- Developed by Telecom Italia @Tilab

Main features of JADE

- JADE provides:
 - A **runtime environment** where JADE agents can “live” and that must be active on a given host before one or more agents can be executed on that host.
 - A **library of classes** that programmers can use in order to develop the agents.
 - A **suite of graphical tools** that allows administrating and monitoring activity of running agents.

Installing JADE

1. Download and install JAVA JDK
2. Go to <http://jade.tilab.com/download/jade/>
3. Register (create a user account)
4. Login and download jadeAll.zip
5. Extract jadeAll.zip to a folder (e.g., C:\Jade, /home/user/Jade)
 - Let's name that folder JADE_HOME from now on
6. Add the following files to CLASSPATH:
 1. JADE_HOME/lib/jade.jar
 2. JADE_HOME/lib/commons-codec/commons-codec-1.x.jar

Run Jade in Netbeans

- After you have done the previous steps :
 1. Add the .jar files to your project library.
 2. Set project configuration as follows:
 - i. Right click on project ->set configuration ->Customize
 - ii. Click Run tab on the left
 - iii. Set Main class as jade.Boot
 - iv. Set Arguments as -gui
 3. Now run your program