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DevsSoa

DevsSoa Java(Axis2) Installation Guide



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Server Side Software Requirements

- Java Development Kit (JDK): Version 1.4 or later.
- Servlet Container, ideally Tomcat 5.5 ([download](#)).
- Axis2: Versión 1.4.1.
 - Web application of Axis2 (WAR) that can be deployed in most of the servlet containers. ([download](#)).
- Disk: Approximately 11 MB separately for standard binary distribution.

Server Side Contents

- Services:
 - *Simulator.aar*: Axis2 Archived web service of DevsSoa Simulator service.
 - *Coordinator.aar*: Axis2 Archived web service of DevsSoa Coordinator service.
- lib (library jar files):
 - *xdevs.jar*: Devs simulation API written on Java.
 - *devsjava.jar*: Devs simulation API written on Java.
 - *examples.jar*: xdevs and devsjava model implementation examples.

Server Side Installation

- Add to the shared lib directory of the servlet container the library files (*xdevs.jar*, *devsjava.jar* and *examples.jar*). In Tomcat 5.5 “%TOMCAT_HOME%\shared\lib”.
- Deploy the Axis2 WAR web application in the servlet container.
- Upload the provided services via administration web application of Axis2. Or in Tomcat 5.5 the services can be copied directly to the directory “%TOMCAT_HOME%\webapps\axis2\WEB-INF\services”.

Client Side Software Requirements

- Java Development Kit (JDK): Version 1.4 or later.
- Axis2: Versión 1.4.1.
 - Standard Binary Distribution. ([download](#)).
- Disk: Approximately 11 MB separately for standard binary distribution.
- Apache Ant 1.7.1.

Client Side Contents

- *DevsSoaSimulatorJava.jar*: Simulator Client executable file.
 - Arguments:
 - The path of the xml file that contains the coupled model in DEVSMML format.
 - The number of iterations for the simulation performance.
- *DevsSoaCoordinatorJava.jar*: Coordinator Client executable file.
 - Arguments:
 - The path of the xml file that contains the coupled model in DEVSMML format.
 - The number of iterations for the simulation performance.
- *lib* : (example DEVSMML coupled models).
- *build.xml*: Ant file.

Client Side Installation

- Necessary environment variables:
 - JAVA_HOME : jdk installation directory.
 - AXIS2_HOME : axis2 installation directory.
 - ANT_HOME: Ant installation directory.
 - Add “%ANT_HOME%\bin” to the Path variable.

Running Client

In the client directory:

- *ant -Dfile='arg' -DnumIter='arg' simulator.run*: run the simulator client test.
 - Example: *ant -Dfile=lib/GptJavaJava.xml -DnumIter=110 simulator.run*
- *ant -Dfile='arg' -DnumIter='arg' coordinator.run*: run the coordinator client test.
 - Example: *ant -Dfile=lib/GptJavaJava.xml -DnumIter=110 coordinator.run*