

Installing CSIM for Java

Introduction

CSIM for Java is distributed as a Java Archive (jar) file. There are several different ways of installing and using CSIM for Java:

- Command line
- With the Eclipse interactive development environment.
- With the NetBeans interactive development environment

You may need to install a Java SDK (jdk) or Java Runtime Environment (JRE) on your system. One such jdk is available from Sun Microsystems, Inc., at www.sun.com → **downloads** → **Java 2 Standard Edition** → **J2SE 5.0**.

Command Line

- 1) Create a directory called `CsimForJava`.
- 2) Copy the `csimForJava.jar` file to this folder.
- 3) Copy the Java program file, `App.java`, to this folder.
- 4) Using the Command Prompt window, execute the following statements:
 - a) `javac -classpath CsimForJava.jar;. App.java`
 - b) `java -classpath CsimForJava.jar;. App`
- 5) The output for `App.java` is in the file `App.out`

Important note: the “;.” in lines 4a and 4b are necessary.

Special Instructions for Windows

On Windows, you may have to alter the path environment variable, and append the directory that holds the `javac` and `java` executables; the command for doing this is:

- a) `set path=%path%;c:\<insert full path here>`
(for example) `set path=%path%;c:\jdk1.4.2_01\bin`

Note: This instruction changes the path variable in the current window.

- b) You can modify the path variable for every Command Prompt window by using the Windows **Control Panel** → **System** section → **Advanced** tab → **Environment Variables** button. *Note:* Using the Cygwin has not been verified as a good technique for running Java applications and the `CsimForJava.jar`.
- c) Also, the command file `csimForJava.cmd` can be used on Windows.

Eclipse

- 1) In Eclipse, create a new project called `CsimForJava`.
- 2) Import a java file (e.g., `App.java`).
- 3) Add the `CsimForJava.jar` file:
 - a) Right click on the project (in the Package Explorer)

- b) Click **Properties**
 - c) In the left pane, click **Java Build Path**
 - d) Select the **Libraries** tab
 - e) Select **Add External JARs**, find the `CsimForJava.jar` file, and add it.
- 4) To run the program, right click the source file. Using the **Run** option, select **Java Application**.
 - 5) The output for the `App.java` program is in the file `App.out` or `App.txt`.

NetBeans

- 1) In NetBeans, create a new project. For these instructions, assume that the name of this project will be `CsimForJava`.
 - a) Select **General** project and then **Java Application**
 - b) Disable the **Create Main Class** option
- 2) In the new directory named `CsimForJava`
 - a) Copy the file `App.java` to the `src` directory in `CsimForJava`
 - b) Copy the `CsimForJava.jar` file to `CsimForJava`
- 3) In the NetBeans project called `CsimForJava`:
 - a) In the folder name `Source Packages`, you should find the file `App.java` under the `<default>` package
 - b) Right click the `Libraries` folder; select the **Add Jar/folder...** option and add the `CsimForJava.jar` file to the project
- 4) Right click the `<default>` folder and select **Compile Package**
- 5) Right click the `CsimForJava` folder and select **Run Project**; click **OK** when asked to choose the `Main` class.
- 6) When execution ends, use the **File -> Open** menu to open the `App.out` file in order to view the results.

Trial Version of Csim For Java

The trial version of CSIM for Java requires a valid `csim.key` file. This key must be in the working directory of the file(s) being executed. To check the working executable directory, follow these instructions.

Command Line

- 1) Change directories (`cd`) to the directory containing the CSIM for Java executable `.class` file
- 2) Make sure that a valid `csim.key` file exists in the current directory
- 3) Launch the Java application, eg:

```
java -classpath ./csimForJavaTrial.jar;. App
```

Eclipse

In Eclipse, you must set the working directory to the location of the `csim.key` file:

- 1) Inside your `CsimForJava` project, in the **Package Explorer**, right click the application file (`App.java`) and select **Run As -> Run**
- 2) Select the **Arguments** tab
- 3) Un-check **Use Default Working Directory**
- 4) Click the **File System** button
- 5) Browse to and select the directory containing the valid `csim.key` file
- 6) Click the **Run** button

Note: Changing the working directory of your application will cause the `App.out` output file from the CSIM for Java model to be placed in the new working directory.

NetBeans

In NetBeans, you must set the working directory to the location of the `csim.key` file:

- 1) Right click on your `CsimForJava` project and select **Properties**
- 2) In the left pane, select **Run**
- 3) In the **Working Directory** field, enter the complete path to the directory containing the valid `csim.key` file
- 4) Click the **OK** button

Note: Changing the working directory of your application will cause the `App.out` output file from the CSIM for Java model to be placed in the new working directory.