

DevConfiguration Ubuntu8-04

Configuring Ubuntu 8.04 LTS (Hardy Heron) For Harmony Development

These instructions presume a fresh install of Ubuntu 8.04 LTS (although should work with other versions) and that you have the ability to **sudo** or become the root (Super User). These instructions should work on both x86 and x86_64.

1) Install subversion, gcc, g++ and make:

```
$ sudo apt-get install subversion
$ sudo apt-get install gcc
$ sudo apt-get install g++
$ sudo apt-get install make
```

2) Check whether Java is installed on your system.

```
$ java -version
```

Should print something similar to :

```
java version "1.6.0_06"
Java(TM) SE Runtime Environment (build 1.6.0_06-b02)
Java HotSpot(TM) Client VM (build 10.0-b22, mixed mode, sharing)
```

If Java is installed, please proceed to step 4.

3) Install java : (1.6.0_06 or later from sun) : get from <http://java.sun.com/> and install as you see fit.

- Optionally you may install it as,

```
$ sudo apt-get install sun-java6-jdk
```

When done, the following should do the right thing in a shell :

```
$ java -version
```

Should print something similar to :

```
java version "1.6.0_06"
Java(TM) SE Runtime Environment (build 1.6.0_06-b02)
Java HotSpot(TM) Client VM (build 10.0-b22, mixed mode, sharing)
```

4) Install ant (1.7.0) :

```
$ sudo apt-get install ant
```

When done, the following should do the right thing in a shell :

```
$ ant -version
```

Should print something similar to :

```
Apache Ant version 1.7.0 compiled on August 29 2007
```

5) Install the **ant-optional** package

```
$ sudo apt-get install ant-optional
```

6) Get junit and drop the junit-X.jar into ant/lib (where X is the version of JUnit) **[OPTIONAL]**

7) Install AWT/Swing deps

```
$ sudo apt-get install liblcms1-dev
$ sudo apt-get install libpng12-dev
$ sudo apt-get install libjpeg62-dev
$ sudo apt-get install libx11-dev
$ sudo apt-get install libxft-dev
$ sudo apt-get install binutils-dev
$ sudo apt-get install libxml2-dev
$ sudo apt-get install libxtst-dev
```

Now you can continue with the build instructions as found at http://harmony.apache.org/quickhelp_contributors.html

NOTE :

- You might require setting the ANT_OPTS environment variable

```
export ANT_OPTS='-Xms256m -Xmx512m'
```

- You might have to copy the **ecj_3.3.jar** into the ant/lib
1) First change directory to, common_resources/depends/jars/ecj_3.3

```
$ cd common_resources/depends/jars/ecj_3.3
```

2) Copy **ecj_3.3.jar** into the ant/lib

```
$ sudo cp ecj_3.3.jar /usr/share/ant/lib/
```

- Optionally, you may copy the **ecj_3.3.jar** to **~/.ant/lib**, which will not require **sudo** privileges. You will have to create **.ant/lib** inside your **home** folder, if you don't already have it.

```
$ cp ecj_3.3.jar ~/.ant/lib/
```

This will help users who want to use **ecj_3.3.jar** for a single login.