

COMP-202 Fall 2007

Getting Started

September 8, 2007

Setting up your home development environment

For Windows, Linux or Solaris

If you plan to work from home and you are using Microsoft Windows, Linux or Solaris, do the following:

1. **Installing the JDK**

Go to <http://java.sun.com>, from **popular downloads**, select **Java SE**. You can choose to download **JDK 6**, or click on Previous Releases to look for **J2SE 5.0**.

If you choose to install **J2SE 5.0**, get **JDK5.0** with the latest update.

Under Windows, the setup procedure by default uses a path like

`C:\Program Files\Java\jdk1.5.0_10`.

It is recommended NOT to accept this default and instead use something like

`C:\Java\jdk1.5.0_1`.

2. **Setting the execution path**

In Windows NT/2000/XP, start **control panel**, select **System, Advanced**, then **Environment Variables**. Go through the **User Variables** or **System Variables** window until you find a variable named **PATH**. Add your Java installation path name to the beginning of the path, so it looks something like this:

`C:\Java\jdk1.5.0_10\bin;...`

where ... denotes the information that was already there.

In UNIX, assuming your installation path is `/usr/local/jdk1.5.0_10/bin`, if you use C shell or tcsh, add the following line to your `~/.cshrc` file:

```
set path=(/usr/local/jdk1.5.0_10/bin $path)
```

If you use bash, then add the following line to `~/.bashrc` or `~/.bash_profile` file:

```
export PATH=/usr/local/jdk1.5.0_10/bin:$PATH
```

3. **Testing your installation** Start a shell window (Command Prompt in Windows) and type the following command:

```
java -version
```

You should get something like
`java version "1.5.0_10"`

If you get error messages, go back to the previous steps and make sure you followed the instructions. If this does not solve your problem, you should look at the installation instructions on the Java website.

4. Installing DrJava

If you want to use the development environment DrJava (recommended), go to <http://www.drjava.org/> and follow the downloading instructions.

For Mac OS X

If you plan to work from home and you are using Mac OS X, then you must have Mac OS X 10.4 (Tiger) or better. Furthermore, the version of Java that comes with Mac OS X 10.4 is not sufficient for this course.

Please download and install J2SE 5.0 Release 5 from Apple's site:

<http://www.apple.com/support/downloads/javaformacosx104release5.html>

If you want to use the development environment DrJava (recommended), go to <http://www.drjava.org/> and follow the downloading instructions.

Working from the SOCS Lab computers

If you plan to work from the SOCS labs at school (3rd floor Trottier), you must make sure that Java 1.5 is the default compiler. This is done in two different ways, depending on whether you are using a FreeBSD machine or a Linux machine.

1. If you are using a Linux machine:

Open a terminal and run `java-config -L`. This will show the list of available Java Development Kits on that machine, with their IDs within square brackets.

Get the ID of the Sun Java 1.5 development kit.

Change the default JDK to the Sun Java 1.5 version by running

```
java-config --set-user-vm=ID
```

where ID is replaced by the ID you got in the previous step.

2. If you are using a FreeBSD machine:

Modify your PATH environment variable to include the directory with the Java 1.5 executables. This is done differently depending on which shell you're using.

- If you're using bash, type
`export PATH="/usr/local/jdk1.5.0/bin:$PATH"`
- If you're using csh or tcsh, type
`setenv PATH /usr/local/jdk1.5.0/bin:${PATH}`

Logout and login again.

Open a terminal and verify that the correct version (1.5.0 or better) by typing
`java -version`

If you have problems, feel free to ask a lab assistant for help.

Getting familiar with WebCT

Open a Web Browser and go to the WebCT (<http://webct.mcgill.ca>) web site. WebCT is the tool you will be using to submit assignments. You login to it by using the same login information that you use on Minerva. Click on COMP202 and browse through the various pages. It has several features like looking at the class calendar, chat, discussion, grade listings, etc. In particular, find out how to submit an assignment (but don't actually do it until you are ready!). The assignment boxes are only open until 2 days after the due date and they will be closed. Late penalties will be deducted automatically depending on the day you submit.