

Herbal Dtank Version 4_7 Installation Guide

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To use the class software on your own machine, you will need to have a (a) dTank, (b) a current version of Java, (c) Soar, the base language, and (d) Herbal, the high-level behavior representation language. This handout attempts to walk you through these steps. Like any production set of software, there may be some difficulties, and working within a class will provide additional sources of help.

Installing dTank for Windows and MacOS

(1) To install dTank, download the dTank4.7.zip file from the following link and unzip it somewhere that suits you http://acs.ist.psu.edu/dtank/dtank_v4_7.zip

(2) You can run dTank by double-clicking “dtank_windows_64bit.bash” in the dTank folder.

On the PC and Mac, you can double click the bash file to run dTank.

On the Mac, dTank should be in your ‘Application’ folder.

(3) Open your “Terminal ” and access the folder of your dTank.

(This will require learning some Unix commands, including ‘ls’ and ‘cd’)

(4) Run the shell file “dTank_mac.sh” by entering “sh dtank_mac.sh” command.

Installing Java for dTank under Windows (64bit)

To run dTank, you will need JAVA 1.6 Runtime Environment and set up the right classpath for Java. If you have this already, you can skip this step.

(1) First, go to

https://cds.sun.com/is-bin/INTERSHOP.enfinity/WFS/CDS-CDS_Developer-Site/en_US/-/USD/ViewProductDetail-Start?ProductRef=jre-6u24-oth-JPR@CDS-CDS_Developer

(2) Choose “windows x64” to download the latest JRE.

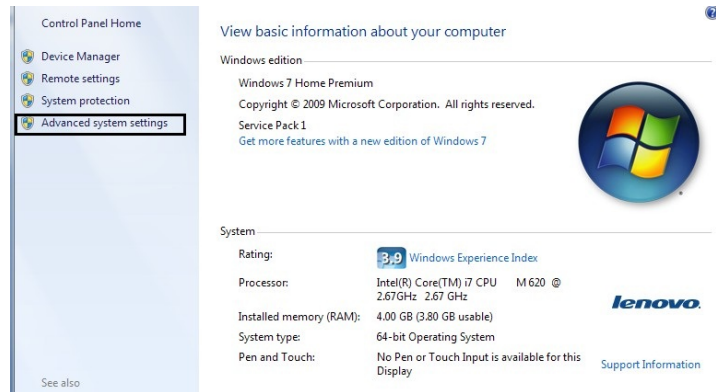
(3) Install the JRE with default path and settings.

(4) Right now, you may find your JRE in c:/Program Files/Java/jre6 (or other jre6 versions)

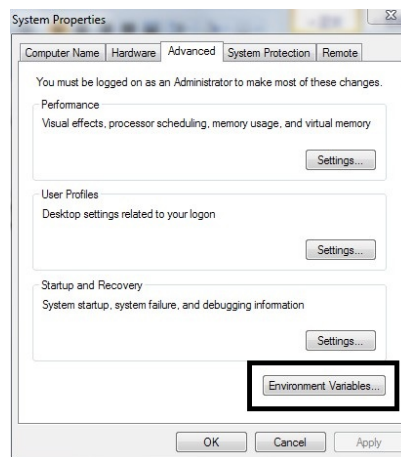
To set the right classpath:

(5) Go to: Control Panel → Security and Systems → System

(6) Choose the Advanced system settings as following:

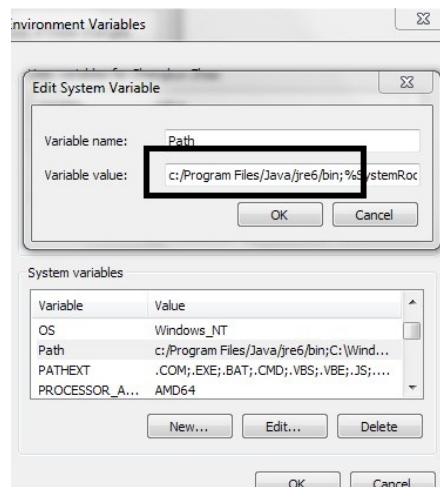


7) Select the Environment Variables



8) Find "Path" in System Variables panel

9) Add "c:/Program Files/Java/jre6 (or the other JRE versions you installed)/bin;" in the Variable value slot.



10) Click "OK".

Installing Java for dTank under MacOS

Most people with MacOS get updates of Java automatically.

(1) Make sure your Mac has 64bit Operating system (if you are not sure, read here: <http://support.apple.com/kb/HT3696>).

(2) Make sure your Mac has the latest 64bit Java version (dTank has been tested in JAVA 1.6).

Installing Soar for dTank under Windows and the Mac

1. Installing Soar 9.3.0

Download Soar 9.3 for Windows 64bit here and unzip it to where it suits you.

<http://code.google.com/p/soar/wiki/Downloads?tm=2>

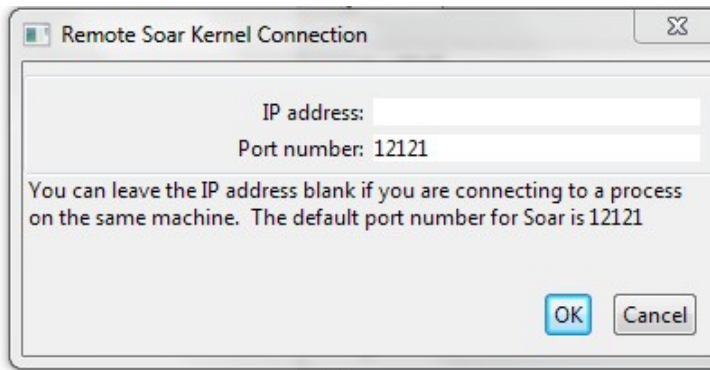
It doesn't require you install it.

You can click " Soar Java Debugger " to run the Soar debugger.

2. Connecting the Soar Debugger with dTank

To observe the traces of a Soar agent in dTank, you can use the Soar kernel to connect to dTank.

- 1) Run dTank with at least one Soar agent.
- 2) When dTank is running, click "Pause" to stop dTank.
- 3) Open the "Soar Java Debugger" application in the Soar distribution.
- 4) Click the "Kernel" button on the top of debugger panel, and select "Connect to remote Soar"
- 5) Leave the "IP address" blank and click "OK".



6) Then you can see the Soar trace.

Installing Herbal under Windows and MacOS

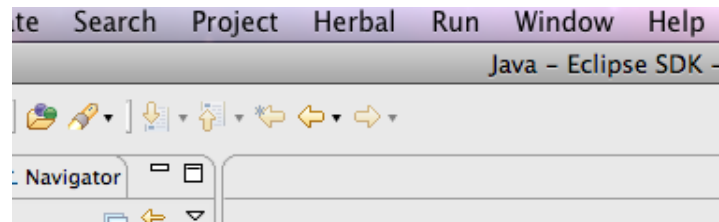
(1) Download the Eclipse Classic application and extract it (choose the right version to match your OS). <http://www.eclipse.org/downloads/packages/eclipse-classic-37/indigor> Again, install where it suits you, but Mac users may be happier with it in the 'Applications' folder.

(2) Download Herbal 3.0.3 from the following link:

http://acs.ist.psu.edu/herbal/edu.psu.ist.acs.Herbal_3.0.3.jar

(3) Copy the Herbal jar file to the plug-in folder under your Eclipse repository. (Details are available in the Herbal tutorial.)

When you run Eclipse, you should find the “Herbal menu” on your menu bar, as shown here:



For more information about Herbal, please start with the Herbal tutorial at:

<http://acs.ist.psu.edu/herbal/tutorials.html>