

Java 1.5 and beyond

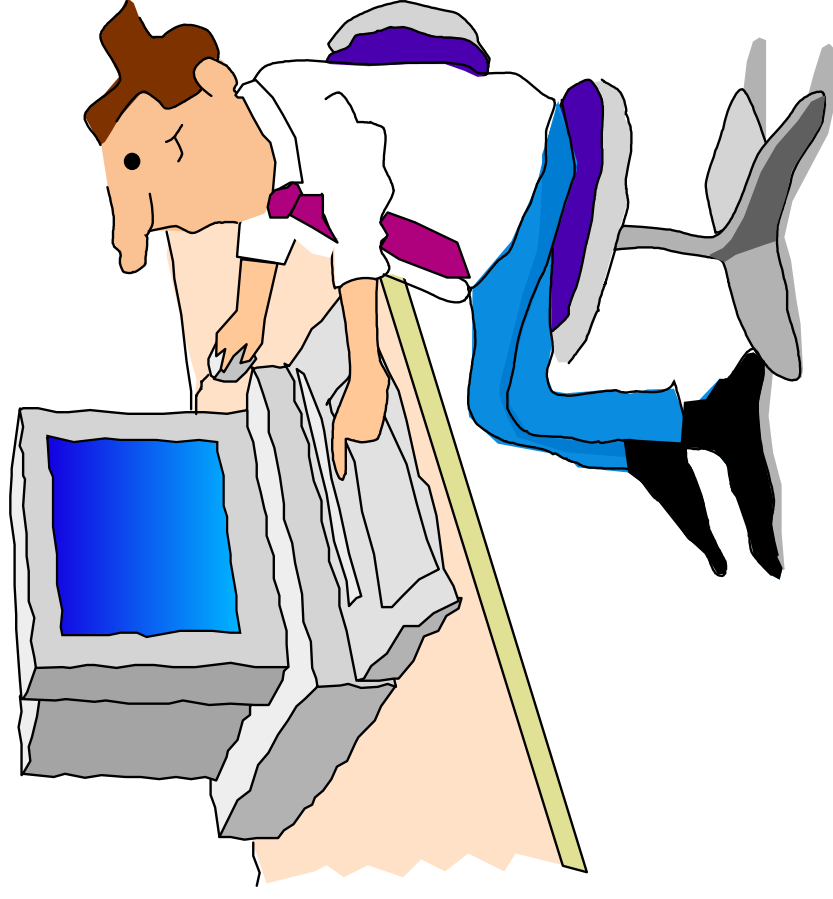


eComStation friendly

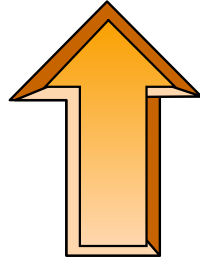


No Java 1.5+ release on eCS

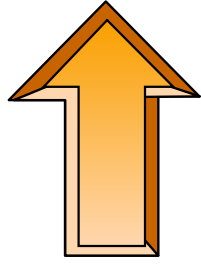
- Originally just IBM Java for OS/2 through 1.3 then two companies ported 1.4 but not enough large customer demand for 1.5+.



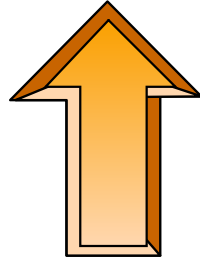
Presentation Objectives



Use Java 1.5 on eCS



Discuss Java Ports



Discussion on SWT



Background

- ▶ The story for Java is the same story as for most any application that OS/2\eCS users have faced. Not enough resources. We have few programmers compared to Linux for instance for the Open Source world and not enough money compared to the Windows world.



Criteria for Solutions

- ▶ Must run on eCS.
- ▶ Must be affordable.
- ▶ Must make use of our resources wisely.



Possible Solutions

- ▶ Use Innotek technologies to run newer Java versions.
- ▶ Full Sun Java Port.
- ▶ Apache Java Port.
- ▶ Kaffe Port, GNU Classpath, etc.



Java 1.5 on eCS

This is the posting that gave rise to this presentation.

<http://www.os2world.com/index.php?searchword=java>;

<http://home.arcor.de/michael.holzapfel/eCS/java/Usin>



Installation.

Requirements:

Access to Windows partition.

Sun Java 1.5.0.07

Innotek Java 1.4.2.09

Install Innotek Java on eCS system.

Install Sun Java on Windows System.

Copy Java Files to eCS partition.

Copy executables from Innotek Java over Sun Java.

Copy j2win.dll from Innotek Java to Sun Java.



Further tips

The installation of Java 1.4.2.09 (05 may also work) is necessary in order to setup the registry as well as getting the executables.

Currently I have 2 methods of using Java 1.5, either via renaming the Java 1.4.2 directory and replacing it with the Java 1.5 directory or just using a script. I do the replace when I want to know for sure that 1.5 is in use and not 1.4



Restrictions

Primary restriction is there is no plugin support at this time
Good news, Mozilla was going to remove support for Java
in the way our plugin works but found that Mac would not
work so we have a reprieve (not sure if that is indefinite or
if we will face it again in the near future).
This does not restrict the use of Javaws as it doesn't use
the plugin.
No further restrictions that I have seen at this time.



Discussion of Solutions

<i>Proposed Solution</i>	<i>Compatibility</i>	<i>Short term</i>	<i>Long term</i>
Port Sun Java	~100%	Slow	Best
Port APR Java	<100%	Medium	Good
Port Kaffe/GNU classpath	~100% up to 1.4... less 1.5	Medium	Good
Use Innotek library	~100%	Fastest	Poor as things stan



SWT

- There are a couple of attempts underway to be able to use SWT under eCS.
- There is a netlabs.org project for a full port.
- There is SWT Swing.
- SWT built to use Odin (not Innotek library).



SWT Links

<http://www.javalobby.org/java/forums/t100401.html>

http://www.os2world.com/component/option,com_smf/Item



Post presentation updates

Does not require any changes to registry to use as presented if you leave both the Innotek and Sun Java files in place, otherwise, some updates will be needed so that Java can find its j2win.dll file.

If you keep the Innotek Try to keep the file paths equivalent (i.e. once the Sun Java is moved to the eCS machine, have it at the same level that the Innotek Java is at (e.g. java14\jre java15\jre) Sun Java may be in Program files\Sun\Java" and from there the directory structure would be equivalent. We want to grab the contents of Java for java15 in our above example.) This makes it possible to rename directories and replace the java14 for testing purposes if so desired (such as attempting to get the login to work).

