

Guidelines for Creating SORCER Sandbox Using Eclipse

1. Create the SORCER sandbox on *yucca* (later you can access your sandbox from any Win or Mac computer using the remoter desktop on *yucca*):

- a. Decide on your workspace (sandbox) directory <username>:
 - i. <username> is local on *yucca* in the volume D: (Users) that has the **same name as your Eraider login**
 - ii. Mounted via Samba as `\\yielddb\sandbox` that is NFS `/projects/users` and the workspace is the `/projects/users/<username>`
 - iii. Mounted via Samba as `\\redwood\sorcer` or `\\yielddb\sorcer` that is the `~sorcer` or `/home/staff1/sorcer` and the workspace is the shared (integrating) iGrid project sandbox with individual developer sanboxes.
- b. Use the Eclipse shortcut provided on the *yucca* desktop, it should offer you to create your workspace in `D:\<username>\workspace` or point to a mounted directory from *yielddb*. Do not create a workspace on the C drive! Check “Use this as the default and do not ask again”
- c. Then go to 9 below

2. Create an Eclipse SORCER sandbox for the existing location

- A. Select *File => New => Projects*
- B. Select *Java => Java Project*
Check in *Create project at external location* and specify the directory for the existing SORCER sandbox, for example mounted via Samba from *yielddb* `/projects/users` directory. Please note: If you use this method you will not be able to use any CVS functionality from within eclipse. You will have to SSH into *yielddb* and use the CVS commands there.

3. Install Eclipse and create sandbox on your local host:

1. Download and Install J2SE from <http://java.sun.com/j2se/1.5.0/download.jsp>
2. Download Apache Ant from <http://ant.apache.org/bindownload.cgi>
3. Download Eclipse 3.3 from <http://www.eclipse.org/downloads/index.php>
 - a. Choose appropriate platform and *IDE for Java Developers*
4. Extract Eclipse SDK to appropriate directory
5. Run Eclipse.exe from the installation Eclipse Directory
6. Set Eclipse **workspace** directory
 - a. E.g. on *yucca* or *yield* as: `D:\users\<username>\workspace`
 - b. Check “Use this as the default and do not ask again”
7. Set JAVA_HOME to appropriate JDK directory
8. Set ANT_HOME to appropriate Ant directory
9. Set IGRID_HOME to `<workspace dir>/iGrid`
10. You may have to restart eclipse to pick up the new environment variables.
11. Select “Go to the workbench” at the top-right corner of the Eclipse window
12. Click on menu item *Project* and unselect *Build Automatically*

13. Select File => New => Project...
14. Select CVS=> Checkout Projects from CVS
15. Click *Next*,
 - a. Set *Host*: for example *yielddb.cs.ttu.edu* or *neem.cs.ttu.edu* (any SORCER Lab Unix/Linux host you have access to)
 - b. Set *Repository path*: */home/staff1/sorcer/cvs/iGrid.cvsrep*
 - c. Set *User* and *Password* for your UNIX account
 - d. Set *Connection type*: *extssh*
 - e. Check in *Save Password*
16. Click *Next*
 - a. Select *Use an existing module*
 - b. Select *Yes* when prompted for *Continue Connecting*
 - c. Select *Yes* for creation of known hosts
 - d. Select *Yes* for creation of ssh keys
 - e. Select *OK*
 - f. Select *iGrid* and click *Next*
 - g. Make sure “check out as a project into workspace is selected”
 - h. Click *Finish*
17. Open (click on +) *iGrid* in *Eclipse Navigator* (select this *Perspective* in the top-right corner as *Resource*)
 - a. Familiarize yourself with *iGrid/README* and *iGrid/modules/sorcer/README*
 - b. Right click on *iGrid/iGrid-build.xml*
 - c. Select *Run/1 Ant Build*

If you have followed all the directions correctly, you should have a successfully compiled SORCER sources.