Creating a Driver using Netbeans

This tutorial describes how you can use Netbeans to edit and compile drivers, and then load them into JAS3 to run them. The advantage of using Netbeans to do this, as opposed to the editor built-in to JAS3, is that you can get code completion, syntax highlighting etc.

Prerequisites

Before proceeding with this tutorial you must have already installed Netbeans and mevenide, and must have already checked out and built GeomConverter and org.lcsim. Next you must build org.lcsim with two special targets:

jas: install	This copies the latest version of org.lcsim into the JAS3 plugins directory
jar: install	This copied the latest version of org.lcsim into the maven repository so it can be found by the example project described below

To execute a custom goal select the org.lcsim project, from the popup menu select "Execute Custom Goal", "More Goals...", then from the dialog choose "jar:install" and then "jas:install".

😵 Select Goal(s)	<
Enter goal(s) : jar:install	
Available Goals:	
 idea increment-snapshot-version j2ee jalopy jar (default) deploy deploy-snapshot install install install-snapshot jar snapshot jar snapshot java java java javacc 	
Description: Install the jar in the local repository	
Browser Options	
Execute Cancel	

Selecting the toggle "Add to Favorite Goals" will make repeating this in future easier (or see this tip about setting goals in the org.lcsim project).

Checking out the example project

You can check out the ExampleProject from CVS in the same way you checked out GeomConverter and org.lcsim. The module name is ExampleProject.

Opening the example project in Netbeans

You can open the project in the same way that you opened GeomConverter and org.lcsim, i.e. choose Open Project, select the folder where you checked out ExampleProject and select "Open Project Folder".

😵 Open Project 🔀							
Look in:	👷 Projects 🕑 😰 🖽 🖽					🤌 📁 💷 📟	
	aida		GlastSystemTests	🕞 org-glast	t	Project Name:	
My Recent Documents	BatchSub		jas	ing org-glast	t-dataserver-po	✓ Open as <u>Main</u> Pro	ject
	DatabaseMor	nitoring	ias:3 JAS3AutoRun	ing org-glasi	t-profile t-telemetry-tref	♥ Open <u>R</u> equired Pr	ojects:
Desktop	dcs	ect	jira jira-soapclient-1.2	Contraction Contra	gin		
	freehep freehep-dec2	2003	iminuit	Constraints Constr	nostics		
My Documents	GeomConver	e ter	LCDetectors	Canal TextImp	port g Plots		
	GeomConvert	terRefactored	Cio LCIOPlugin	🗀 users 🕞 WBS			
My Computer	glast-batch		💼 Icsim 급 Monitor	🕞 WBS-wo 🛅 web	rkinprogress		
	K ilo pamor	CultonulDroin	the Superside Display Burgings		>		Open Dreiest Felder
My Network Places	Files of type:	Project Folder	us (ExampleProject			✓	

Changing dependency

Check that the ExampleProject depends on the most recent version of GeomConverter and org.lcsim by clicking on ExampleProject in the Projects tab and selecting "Properties". (This should normally be the case since updating the ExampleProject is now part of the process of making a new org.lcsim release.)

📕 LCSim Example		
General Description Organization and Site Repository Lists Team Reports Dependencies Build Java/Jar Unit Tests Project Files Goal to IDE Action Mappings Plugins	aida-dev-3.2.1 Freehep-hep-13032005 Freehep-base-27012005 Freehep-physics-13032005 Freehep-heprep-02032005 Freehep-jheprep-02032005 Sio-1.0 GeomConverter-1.1 openide-lookup-1.9-patched-1.0 jas3-0.8rc3 commons-math-1.0 Icsim-1.1 Version Jar URL View	Add Edit Remove Doc&Src check
Resolve Values		
	Apply	OK Cancel

Building the project in Netbeans

Select "Build" from the popup menu on the LCSim Example project. This should build a jar file called ExampleProject-0.0.jar in the target directory created in the ExampleProject folder.

Running the driver in JAS3

From JAS you need to add the newly created ExampleProject-0.0.jar file to your "JAS ClassPath". From the JAS View menu choose Preferences, then from the tree select Java ClassPath. Press the little button with the + on it, and add the jar file to the classpath.

Preferences					
	Preferences: Java Classpath				
Dataset Catalog	Look for class files in these directories:				
Dataset Control Service	🛅 C:\Documents and Settings\tonyj\.JAS3\classes				
	🗟 C:\Tony\Projects\ExampleProject\target\ExampleProject-0.0.				
Неркер					
Compiler					
. LCIO					
Navigation Tree					
Plugin Manager					
Save/Restore					
SimpleEditor					
Spreadsheet					
TupleExplorer					
·····Web Browser					
	Ok Apply Cancel				
Select Directory or Core and a constraint of the	Test Test Test Installer Installer InstallerWeb Test nporter Test SetchSub DatabaseMonitoring ExampleProject CVS Src CVS Src Ctasses Completed Cancel				

Now from the JAS3 file menu, select Load, type in ExampleDriver and hit OK.

Load		X
Class: ExampleDriver	×	Set Class Path
	OK Cancel	

Now you can open a data file and analyse it in the normal way.

Updating your code and reloading it in JAS3

If you modify your code in Netbeans you must first run build again, and the right click on the "Programs" node in the JAS3 tree and select "Reload All"