# Setting Up Netbeans 6.5 with Maven 2

#### These instructions are deprecated!

This page is old and deprecated. Please use the current version of Netbeans. The built-in Maven plugin should function fine.

### Short Instructions

- 1. Download Maven 2. The 2.0.10 release will probably work the best.
- 2. Add the Maven 2 bin directory to the PATH variable.
- 3. Download Netbeans.
- 4. Install Netbeans
- 5. Install the Maven Plugin in Netbeans at Tools > Plugins > Available Plugins.
- 6. Checkout a project with Versioning > CVS > Checkout.

# Long Instructions

#### **Maven 2 Installation**

Now, the environment needs to be setup so that Netbeans can find this copy of Maven installation. Also, the Maven *bin* directory must be added to the system path.

#### Setting Up the Linux Environment

In your command shell, go to the directory where maven was downloaded and execute this command.

```
unzip apache-maven-2.0.10-bin.zip
```

Then add the bin directory to the path. (This assumes a bash shell.)

```
export M2_HOME=/path/to/apache-maven-2.0.10
export PATH=$M2_HOME/bin:$PATH
```

These commands can be placed in the RC file for your shell so that these variables are setup automatically when you login.

#### Setting Up the Windows Environment

Navigate to the maven zip file, right click on it, and select Extract All from the menu.

Open the System menu under Control Panel > System (the icon looks like a computer).



System

#### Go to the Advanced tab under System and click on Environment Variables.

System Propertie	es		? 🗙
System Res	store Automa	tic Updates	Remote
General	Computer Name	Hardware	Advanced
You must be lo	ogged on as an Administra	tor to make most of t	these changes.
~ Performance			
Visual effects	, processor scheduling, m	emory usage, and vi	irtual memory
		-	
		L	Settings
- User Profiles			
Desktop setti	ngs related to your logon		
		ſ	Settings
		L	Setungs
- Startup and F	Recovery		
System startu	p, system failure, and deb	ugging information	
		ſ	Settings
			Jettings
	Environment Vari	ables Error	Reporting
		5	
	ОК	Cancel	Apply

Under the System Variables area, select the Path record and click Edit.

Env	vironment Variable	s ? 🔀
ſ	User variables for ng	raf
	Variable	Value
	M2	C:\Program Files\Apache Software Fou
	M2_HOME	C:\Program Files\Apache Software Fou
	MAVEN_HOME	C:\Program Files\Apache Software Fou -Xms256m -Xmx512m
	MAVEN_OPTS	-xms256m -xmx512m C:\Program Files\Dassault Systemes\3D
	MO2_1 2001N_1	
		New Edit Delete
6	System variables	
	Variable	Value
	OIVHOME	C:\Program Files\Mercury\OIV6.0
	OS	Windows_NT
	P_SCHEMA Path	C:\Program Files\Solid Edge V20\Schema C:\Program Files\MiKTeX 2.6\miktex\bin
	PATHEXT	.COM; EXE; BAT; CMD; VBS; VBE; JS;
		New Edit Delete
		OK Cancel

Hit the **End** key to go to the end of the text box.

Now add the Maven 2 bin directory to the Path. The easiest way to do this is by navigating to the bin directory in Explorer and then copying the full path from the address bar into the Path (using Ctrl+c, Ctrl+v).

The path items are separated by semi-colons so make sure to put a semi-colon in front of the new entry.

The default location is:

;C:\Program Files\Apache Software Foundation\apache-maven-2.0.9\bin

#### Now select OK, OK, OK to apply.

You can check whether maven is in your path by opening a command prompt window (Ctrl+r, type "cmd" into box) and typing

mvn -v

You should see something similar to:

```
Maven version: 2.0.9
Java version: 1.6.0
OS name: "windows xp" version: "5.1" arch: "x86" Family: "windows"
```

If the mvn command is not found, check that the Path variable was set correctly.

## Maven 2 Plugin

Install the Maven Plugin in Netbeans at Tools > Plugins > Available Plugins.

<u>R</u> eloa	ad Catalog			<u>S</u> earch:
Install	Name ₹	Category	Source	ģ l
	JBuilder Project Importer	Infrastructure	🗊 🔺	Maven
	JConsole	Management		
	jfugue	Uncategorized	ଲିଲି	🕡 NetBeans Certified Plugin
	jMaki Core Ajax support	Ajax	ß	
	jMaki for JavaEE Web Applicati.	Ajax	ß	Version: 4.0.5
	JMeter Kit	Testing Tools		Date: 11/10/08
	JMX	Management		Source: NetBeans Homepage: http://www.netbeans.org/
	JRuby and Rails Distribution	Ruby		Homepage: <u>http://www.netbeans.org/</u>
	JSF	Web & Java EE		
	JSF Portlet Bridge Library	PortalPack		Plugin Description
	Load Generator	Tools		Nut Prese IDE summer for Annaly Marca
	Log Management	Developing Ne		NetBeans IDE support for <u>Apache Maven</u> .
<b>~</b>	Maven	Java		Maven is a software project management and comprehension tool. Based
	Mobility	Mobility		on the concept of a project object model (POM), Maven can manage a
	Mobility End to End	Mobility		project's build, reporting and documentation from a central piece of
	NetBeans API Documentation	Developing Ne		information. To learn more about Apache Maven, visit What is Maven?
	Note Viewer	Music	ଲିଲି	page.
	OpenOffice.org API Plugin	Developing O	ß	
	OpenPortal Portlet Container	PortalPack		The IDE support includes own project type entirely based on Maven's
	PHP	Scripting	Ũ	medatata, code completion for Maven's project files, integration with other tools in the IDE etc.
	Project Dynamic Faces Ajax C.	Web & Java EE	ß	
	Durale and	Denale and	í Aliman a sea a s	S

Click Next to continue.

♥ NetBeans IDE Installer		
Welcome to the NetBeans IDE Plugin In The installer will download, verify and th		
The following plugins will be installed:		
Maven [4.0.5]		
	< <u>B</u> ack <u>N</u> ext > Cancel <u>H</u> e	lp

Click Install to continue.

VetBeans IDE Installer
License Agreement Please read all of the following license agreements carefully.
In order to continue with the installation, you need to agree with all of the license agreements associated with the particular plugins.
Maven Embedder library License Agreement         License for NetBeans module:         This module is part of NetBeans and is open-source.         LICENSE: The Common Development and Distribution License         (CDDL), Version 1.0 or the GNU General Public License         (GPL) with "CLASSPATH" EXCEPTION govern your use of:         NetBeans software. NetBeans software also makes use of         additional libraries made available for use and distribution         by other parties, including open-source projects.
COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0
< <u>B</u> ack <u>Install</u> Cancel <u>H</u> elp

Click Finish to complete the installation.

▼ NetBeans IDE Installer		
Installation completed succes Click Finish to quit the NetBean		
I		]
The NetBeans IDE Installer has	s successfully installed the following plugins:	
Maven		
	Einish	<u>H</u> elp

The Maven plugin should show in the Installed tab.

Dalas	1 Catalan				County -
Reloa	d Catalog				<u>S</u> earch:
Uninstall	Name ₹	Category	Active		Description
	Editing Files	Base IDE	õ 📤	Database	Deactivate
	GUI Builder	Java	0	10	
	Hibernate Support	Java	0	Version: 1.3 Source: Net	3.1 Beans IDE 6.5 (Build 200811100001)
	IDE Platform	Base IDE	Image:	Jource. Nett	Jeans IDE 0.5 (Build 200011100001)
	Java	Java	Ø		
	Java Debugger	Java	0	Plugin D	escription
	Javadoc Analyzer	Java	0	) Drouides a u	isual and text SQL editor and a browser of database
	Java Persistence	Java	0		s, tables and their data.
	Java Profiler	Java	0		,
	Local History	Base IDE	<b>Ø</b>		
	Maven	Java	<ul> <li>Image: Image: Ima</li></ul>		
	Mercurial	Base IDE			
	Ne Maven 6.5	Base IDE	0		
	NetBeans Plugin Development	Java	0		
	Platform	Platform	0		
	SaaS Services Code Generatio	. Java	<b>Ø</b>		
	SaaS Services Support	Java, Web, Java	Ø		
	Spring Beans	Java	0		
	Subversion	Base IDE	Ø		
	Task List	Base IDE	0		
	XML Tools Java Ext	Java	<ul> <li>Image: Image: Ima</li></ul>		
L lus ius es				,	
U <u>n</u> ins	tall				

Now that Netbeans is correctly configured, we can checkout and build a Java project.

Checkout the Icsim-contrib project from the SLAC CVS by going to Versioning > CVS > Checkout in Netbeans.

The user name "jeremy" should be replaced with your cvs account name, and the password should be replaced with your cvs password.

Checkout	
Steps	CVS Root
1. CVS Root 2. Module to Checkout	Specify location of CVS repository defined by CVS root.         CVS Root:       :pserver:jeremy@cvs.freehep.org:2401/cvs/lcd         Edit
	(:pserver:username@hostname:/repository_path) Password: ●●●●● Proxy <u>C</u> onfiguration
	< <u>B</u> ack Next > Einish Cancel <u>H</u> elp

Type Icsim-contrib into the Module text box and click Finish.

Checkout			
Steps	Module to Ch	ieckout	
1. CVS Root	Specify the C\	/S module and branch to checkout from CVS repository.	
2. Module to Checkout	<u>M</u> odule:	lcsim-contrib	B <u>r</u> owse
		(empty means all modules)	
	Bra <u>n</u> ch:		Br <u>o</u> wse
	Constitute and		
		on of local folder to checkout module into. /u/ey/jeremym/lcsimTut/nbProjects	Bro <u>w</u> se
		(local CVS working directory)	bi 0 <u>00</u> 5e
		(	
		< <u>B</u> ack Next > Einish Cancel	<u>H</u> elp

Now have Netbeans import this checkout as a project by clicking on **Open Project**.

Checko	ut Completed				
i	org.lcsim Contrib Packages (jar) project was checked out. Do you want to open the project?				
	Open Project	Close	<u>H</u> elp		

The project can be built in the standard way by right clicking on it and selecting Build.

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	Mangale Source R	lef <u>a</u> ctor	<u>R</u> un	<u>D</u> ebug	<u>P</u> rofile
Projects	◀ × Files		Ser	vices	
<b>የ− ‱<sub>0</sub>org.lcs im</b>	Contrib Packages (ia New	e)	►		
🔶 📑 Librarie	Build				
🔶 💽 Project	Clean and Build Clean Generate Javadoc				
	Run Debug Profile Test	Alt	F6		
	Custom Profiles		<b>)</b>		
	Reload Project Set as Main Project Open Required Proj Close	jects			
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settings.xml - Nav - Settings xm - Settings xm - Settings xm - Settings xm	Rename Move Copy Delete	De	lete		Ę
	CVS Local History		*		
	Properties				

If you managed to setup everything correctly, the build message in the log should be something like the following.

```
NetBeans: Executing 'mvn install'
NetBeans: JAVA_HOME =/nfs/slac/g/lcd/mc/prj/sw/extern/jdk/pro
Scanning for projects...
            _____
Building org.lcsim Contrib Packages
 task-seqment: [install]
_____
                     _____
[resources:resources]
Using default encoding to copy filtered resources.
snapshot org.lcsim:lcsim:1.6-SNAPSHOT: checking for updates from lcsim-maven
snapshot org.lcsim:GeomConverter:1.5-SNAPSHOT: checking for updates from lcsim-maven
snapshot org.lcsim:GeomConverter:1.5-SNAPSHOT: checking for updates from freehep-maven
[compiler:compile]
Compiling 20 source files to /a/surrey01/vol2/g.lcd.mc/prj/users/jeremym/lcsimTut/nbProjects/lcsim-contrib
/target/classes
[resources:testResources]
Using default encoding to copy filtered resources.
[compiler:testCompile]
No sources to compile
[surefire:test]
No tests to run.
[jar:jar]
Building jar: /a/surrey01/vol/vol2/g.lcd.mc/prj/users/jeremym/lcsimTut/nbProjects/lcsim-contrib/target/lcsim-
contrib-1.0-SNAPSHOT.jar
[install:install]
Installing /a/surrey01/vol2/g.lcd.mc/prj/users/jeremym/lcsimTut/nbProjects/lcsim-contrib/target/lcsim-
contrib-1.0-SNAPSHOT.jar to /u/ey/jeremym/.m2/repository/org/lcsim/lcsim-contrib/1.0-SNAPSHOT/lcsim-contrib-1.0-
SNAPSHOT.jar
[freehep-jas:install {execution: default}]
Copied 1 jar file to /u/ey/jeremym/.JAS3/extensions
_____
BUILD SUCCESSFUL
_____
Total time: 12 seconds
Finished at: Thu Dec 11 15:26:13 PST 2008
Final Memory: 17M/193M
_____
```