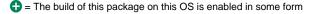
# **Current Build Infrastructure**

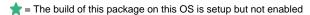
The current build infrastructure is a mixture of dedicated machines and use of the LSF batch queue. This page attempts to describe the computers, operating systems, and infrastructure systems being used.

## **OSes and Packages**

The currently supported operating systems for which the various RM packages are built are summarized in the following table. The various packages currently supported by the Release Manager are listed across the top. Currently supported operating systems are listed down the left. A new package, ScienceTools\_User, is in the works. Its os/variant profile will be the same as ScienceTools.

OS \ Package	ScienceTools	GlastRelease	CHS	TMineExt	GRBAnalysis	Jenkins/LSF
redhat5-i686-32bit-gcc41	*	*	0	•	•	Jenkins
redhat5-x86_64-64bit-gcc41	*			•	•	LSF
Windows-i386-32bit-vc90	*	*		*		Jenkins
snowleopard-i386-32bit-gcc42	*			*		Jenkins
redhat6-x86_64-64bit-gcc44	0	0		•		LSF
redhat7-x86_64-64bit-gcc48	0					LSF
mountainlion-x86_64-64bit-gcc44	*					Jenkins







= OS no longer available as build platform

#### **RM Control Node**

The Release Manager is run off of fermilnx-v03. This is where the lsfDaemon and the releaseManagerDaemon programs run which control the workflows for the RM system.

### **Build Machines**

Many of the builds, including all of the builds using Jenkins, are being run on essentially dedicated build machines. The various machines used by the different OSes are given in the following table, along with whether or not that OS's builds are running via Jenkins or LSF.

os	Jenkins/LSF	Build Machines in use
redhat5-i686-32bit-gcc41	Jenkins	bldlnx06, bldlnx11, bldlnx12
redhat5-x86_64-64bit-gcc41	LSF	<del>bldlnx08</del>
Windows-i386-32bit-vc90	Jenkins	<del>glast win04</del>
snowleopard-i386-32bit-gcc42	Jenkins	<del>bldmac01, bldmac02</del>
redhat6-x86_64-64bit-gcc44	LSF	bldlnx04
mountainlion-x86_64-64bit-gcc44	Jenkins	PPA-PC90719

# Packages, OSes, VersionTypes, and Variants (oh, my!)

While the table at the top of the page tells which OSes are enabled for which packages it doesn't tell the completely story. Within each package/OS combination there are still a variety of version types (i.e. LATEST(Integration), HEAD(Release Candidate), and Release) and variants (Debug and Optimized) that may or may not be enabled and active for the specific package. The following subsections give a breakdown by package and OS of the variants and version types that are available. They all use the following key:

• This build configuration is enabled and automatically build when a new tag occurs

🛊 = This build configuration is enabled but does not automatically build when a new tag occurs

= This build configuration is not currently enabled in the database settings.

#### ScienceTools

os	Integration (LATEST)		Release Candidate (HEAD)		Release	
	Debug	Optimized	Debug	Optimized	Debug	Optimized
redhat5-i686-32bit-gcc41	0	*	0	*	•	0
redhat5-x86_64-64bit-gcc41	0	*	0	*	•	0
Windows-i386-32bit-vc90	*	*	*	*	*	*
snowleopard-i386-32bit-gcc42	*	*	*	•	*	*
redhat6-x86_64-64bit-gcc44	•	*	•	*	0	<b>•</b>
mountainlion-x86_64-64bit-gcc44	*	*	*	•	*	*
redhat7-x86_64-64bit-gcc48	<b>•</b>	<b>•</b>	•	*	0	•

#### GlastRelease

os	Integration (LATEST)		Release Candidate (HEAD)		Release	
	Debug	Optimized	Debug	Optimized	Debug	Optimized
redhat5-i686-32bit-gcc41	•	*	•	*	0	<b>•</b>
redhat5-x86_64-64bit-gcc41	•	•	•	•	•	•
Windows-i386-32bit-vc90	*	•	*	•	*	*
snowleopard-i386-32bit-gcc42	•	•	•	•	•	•
redhat6-x86_64-64bit-gcc44	<b>•</b>	*	<b>•</b>	*	•	<b>•</b>
mountainlion-x86_64-64bit-gcc44	•	•	•	•		•

#### CHS

os	Integration (LATEST)		Release Candidate (HEAD)		Release	
	Debug	Optimized	Debug	Optimized	Debug	Optimized

redhat5-i686-32bit-gcc41	•	•	0	•	•	•
redhat5-x86_64-64bit-gcc41	•	•	•	•	•	•
Windows-i386-32bit-vc90	•	•	•	•	•	•
snowleopard-i386-32bit-gcc42	•	•	•	•	•	•
redhat6-x86_64-64bit-gcc44	•	•	•	•	•	•
mountainlion-x86_64-64bit-gcc44	•	•	•	•	•	•

#### **TMineExt**

os	Integration (LATEST)		Release Candidate (HEAD)		Release	
US .	Debug	Optimized	Debug	Optimized	Debug	Optimized
redhat5-i686-32bit-gcc41	0	•	0	•	•	0
redhat5-x86_64-64bit-gcc41	•	•	0	•	•	<b>•</b>
Windows-i386-32bit-vc90	*	•	*	•	*	*
snowleopard-i386-32bit-gcc42	•	•	*	•	*	*
redhat6-x86_64-64bit-gcc44		•	•	•	•	0
mountainlion-x86_64-64bit-gcc44		•	•	•	•	•

### **GRBAnalysis**

Developers using this package have stated they no longer need RM build.

os	Integration (LATEST)		Release Candidate (HEAD)		Release	
03	Debug	Optimized	Debug	Optimized	Debug	Optimized
redhat5-i686-32bit-gcc41	0	*	0	•	•	•
redhat5-x86_64-64bit-gcc41	0	*	•	•	•	•
Windows-i386-32bit-vc90	•	•	•	•	•	•
snowleopard-i386-32bit-gcc42	•	•	•	•	•	•
redhat6-x86_64-64bit-gcc44	•	•	•	•	•	•
mountainlion-x86_64-64bit-gcc44		•	•	•	•	•

Note: There are old configurations for Redhat 3, RedHat 4 (32 and 64 bit), and Mac OS X Tiger build in the database tables but as those OSes have been deprecated, they are not included in the above tables. As of June, 2015, Snow leopard and Windows VC90 are also deprecated and should perhaps be removed as well. As of July, 2017, mountainlion and redhat5 are no longer available to RM.