

Datagrid Software Repository Presentation

CVS, packages, automatic building and release list definitions

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- Current status of Autobuild (RH6.2)
- Current questions

Module Name	CVS tag	Customized	README	Build Method	Autotools	Configure	Make	Make install	Make RPM
edg-java-tools	v1_0_0	NO	SUCCESS	Unknown	FAILED	FAILED	FAILED	FAILED	FAILED
edg-java-security	v1 2 1	NO	SUCCESS	Ant	NA	NA	SUCCESS	SUCCESS	SUCCESS
edg-java-soap-example	<u>v1 0 0</u>	NO	SUCCESS	Ant	NA	NA	SUCCESS	SUCCESS	SUCCESS
gdmp	v3 2 2	NO	SUCCESS	AutoTools-	SUCCESS	SUCCESS	SUCCESS	SUCCESS	SUCCESS
edg-replica-manager	v2_0_2	NO	SUCCESS	AutoTools-	SUCCESS	SUCCESS	SUCCESS	SUCCESS	SUCCESS
edg-spitfire-server	v2_0_1	NO	SUCCESS	Ant	NA	NA	SUCCESS	SUCCESS	SUCCESS
edg-spitfire-browser	v2_0_1	NO	SUCCESS	Ant	NA	NA	SUCCESS	SUCCESS	FAILED
edg-rls-server	v1 0 1	NO	SUCCESS	Ant	NA	NA	SUCCESS	SUCCESS	SUCCESS
edg-rls-client	v1 0 1	NO	SUCCESS	Ant	NA	NA	SUCCESS	SUCCESS	FAILED
Workload	v1 2 15	YES	SUCCESS	AutoTools+	SUCCESS	SUCCESS	FAILED	FAILED	FAILED
edg-info-main	v2_0_1-0	NO	SUCCESS	Makefile	NA	NA	SUCCESS	SUCCESS	SUCCESS
gma	v2_2_7	NO	SUCCESS	Ant	NA	NA	SUCCESS	SUCCESS	WARNING
grm	v1_1_0	NO	SUCCESS	Makefile	NA	NA	SUCCESS	SUCCESS	SUCCESS
fault-tolerance	HEAD	NO	SUCCESS	Makefile	NA	NA	SUCCESS	SUCCESS	SUCCESS
monitoring	v2 2 2	YES	SUCCESS	Makefile	NA	NA	SUCCESS	SUCCESS	SUCCESS
<u>lcas</u>	<u>v1 1 6</u>	NO	SUCCESS	AutoTools	SUCCESS	SUCCESS	WARNING	SUCCESS	SUCCESS
rms	v2_0_2	NO	SUCCESS	Makefile	NA	NA	WARNING	SUCCESS	SUCCESS
information_providers	v2_0_8	NO	SUCCESS	Makefile	NA	NA	SUCCESS	SUCCESS	SUCCESS
edg-lcfg	v1_4_10	NO	SUCCESS	Makefile	NA	NA	SUCCESS	SUCCESS	SUCCESS
edg-se-query	v1_0_2	NO	SUCCESS	AutoTools	SUCCESS	FAILED	FAILED	FAILED	FAILED
edg-se-libstringextra	v1 2 1	NO	SUCCESS	AutoTools	SUCCESS	SUCCESS	SUCCESS	SUCCESS	SUCCESS
edg-se-libhandler	v1 4 0	NO	SUCCESS	AutoTools	SUCCESS	SUCCESS	FAILED	FAILED	FAILED
edg-se-getSECosts	HEAD	NO	SUCCESS	AutoTools	SUCCESS	SUCCESS	SUCCESS	SUCCESS	SUCCESS
edg-se-housekeeper	v0_1_0	NO	SUCCESS	Configure	NA	SUCCESS	FAILED	FAILED	FAILED
edg-mkgridmap	v1_0_10	NO	SUCCESS	Configure	NA	SUCCESS	SUCCESS	SUCCESS	SUCCESS
edg-utils.	v1_2_5	NO	SUCCESS	AutoTools-	SUCCESS	SUCCESS	SUCCESS	FAILED	SUCCESS
edg-docs	v1 2 2	NO	SUCCESS	AutoTools-	SUCCESS	SUCCESS	SUCCESS	SUCCESS	SUCCESS
edg-example	v1 4 2	NO	SUCCESS	AutoTools	SUCCESS	SUCCESS	SUCCESS	SUCCESS	SUCCESS
edg-build	v0 9 2	NO	SUCCESS	AutoTools	SUCCESS	SUCCESS	FAILED	FAILED	FAILED
iperf	v1_0_4	NO	SUCCESS	AutoTools	SUCCESS	SUCCESS	SUCCESS	SUCCESS	SUCCESS
pinger	v1_0_3	NO	SUCCESS	AutoTools	SUCCESS	SUCCESS	SUCCESS	SUCCESS	SUCCESS
udpmon	v1_0_3	NO	SUCCESS	AutoTools	SUCCESS	SUCCESS	SUCCESS	SUCCESS	SUCCESS
netmon	v1 0 8	NO	SUCCESS	AutoTools	SUCCESS	SUCCESS	SUCCESS	SUCCESS	SUCCESS
rtpl	v1 0 <u>5</u>	NO	SUCCESS	Makefile	NA	NA	SUCCESS	SUCCESS	SUCCESS
netconf	<u>v1 0 0</u>	NO	SUCCESS	AutoTools	SUCCESS	SUCCESS	SUCCESS	FAILED	SUCCESS
netagent	v1_0_1	NO	SUCCESS	AutoTools	SUCCESS	SUCCESS	SUCCESS	SUCCESS	SUCCESS
netmon2rgma	v1_0_0	NO	SUCCESS	AutoTools	SUCCESS	SUCCESS	SUCCESS	FAILED	SUCCESS
netmon-rgma-info	HEAD	NO	SUCCESS	AutoTools	SUCCESS	FAILED	FAILED	FAILED	FAILED
netmon-archiver	<u>v1 0 1</u>	NO	SUCCESS	Ant	NA	NA	FAILED	FAILED	FAILED
ftlog2rgma	<u>v1 0 0</u>	МО	SUCCESS	AutoTools	SUCCESS	FAILED	FAILED	FAILED	FAILED



Questions and progress: Autobuild

- ◆1.1 Build machine(s)
 - Define an 'application' and a 'development' machine?
- ◆1.2 Packages dependencies
 - Packages are build in order, don't mix any more HEAD and TAGGED.
- 1.3 Informing about build errors
 - Emails?
 - Error parsing?
- ◆1.4 Dealings with build hanging
 - Done with a timeout of 1000 seconds
 - Report the actual time?

- ◆1.5 Build On Demand
 - Can be triggered by a tag
 - Problem with remote modules (cvsup)
- ◆1.6 Build machine clones
 - Everything has to be RPM (what with custom tricks? What with different build environment?).



Questions and progress: package management

- 2.1 edg-release pages
 - Can they be improved?
- 2.2 Dependency control
 - At which stage? For what?
- 2.3 Package list generation from dependency
 - Should I do that?
 - I want to, because I expect to maintain the build machine rpm list with it.



Edg-release rpm lists

Release Versions	Beta Versions	Alpha Versions
		edg-HEAD.html
		edg-alpha11 edg1 2.html
	edg-beta10 edg 1 2.html	edg-alpha10 edg1 2.html
	edg-beta9 edg 1 2.html	edg-alpha9 edg1 2.html
edg-v1 2 0.html	edg-beta8 edg 1 2.html	edg-alpha8 edg1 2.html
edg-v1 1 4 html	edg-beta7 edg 1 2.html	edg-alpha7 edg1 2.html

edg. EDG Software Release v1_2_0 - Fri Aug 30 05:59:24 2002

<u>edg-</u> eda-

element name	All	ca	edg	globus	external	rh6.2	lcfg	appcommon	appwp8	appwp9	appwp10 i
	1		edg (27)		(43)	<u>rh6.2</u> (345)	lcfg (28)	appcommon (4)	(00)		appwp10 (0)
SE	Dependancies for CE versionv1_2_0 - Thu Aug 29 19:26:03 2002										

WN Street --dbpath /scratch/BuildSpace/tmp/rpmDB/var/lib/rpm -Va --nofiles

Unsatisfied dependencies for usermode-1.37-1.6: util-linux

All (51) Unsatisfied dependencies for XFree86-3.3.6-29: util-linux

All (51) Unsatisfied dependencies for obj-afs-0.9-10.edg: openafs-client

NM All (43 \$ rpm --dbpath /scratch/BuildSpace/rpmDB/up2date/cache -q --whatprovides util-linux

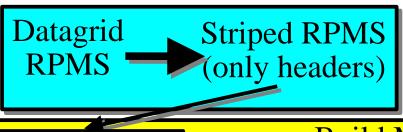
util-linux-2.10f-7

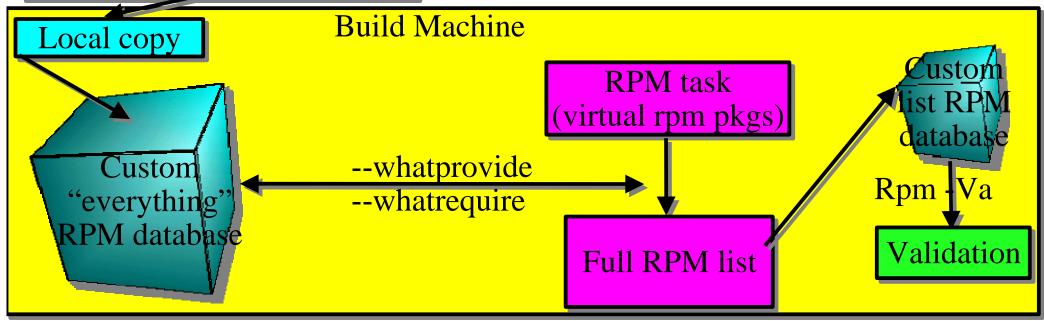
RB All (50 no package provides openafs-client



- Problem: Managing huge lists of RPM (edg-release) can be difficult.
- ◆ Idea: Creating them from the RPM inter-dependencies

 Practical implementation





Creating RPM List from Dependencies II (example)

Redhat-base-edg-0.0.1-1.i386.rpm redhat-kernel-edg-0.0.1-1.i386.rpm task-build-wp6-0.0.1-1.i386.rpm

 task-build-wp6-0.0.1-1 O libtool-1.3.5-8 \Box info-4.0-5 □ autoconf-2.13-5 \Box info-4.0-5 □ gawk-3.0.4-2 \square m4-1.4.1-4 \Box info-4.0-5 □ bash=1.14.7=23.6x □ glibc-2.1.3-22 □ glibc-2.1.3-22 □ glibc-2.1.3-22 □ glibc-2.1.3-22 perl-5.00503-12 □ tcsh-6.10-0.6.x □ no-package-provides Full RPM List □ fileutils-4.0-21 □ grep-2.4-3 □ glibc-2.1.3-22

Name: task-build-wp6 # This is for edg-example Requires: libtool Requires: automake Requires: autoconf Requires: make Requires: c++ Requires: doxygen Requires: sgml-tools Requires: tetex-dvips Requires: ghostscript $[\dots]$