

Fermi Notes

Jenkins: <https://srs.slac.stanford.edu/hudson/view/Fermi/job/Fermi/job/GlastRelease-CI/>

2020 June Release GlastRelease-20-10-04-gr07

```
repoman checkout --bom GlastRelease GlastRelease-20-10-04-gr07|& tee hmkcheckout.log
```

Installed 0.2.8 fermi-repoman in GLASTEXT/repoman on RHEL6 as well as scones which is now used in Jenkins
scones -C GlastRelease --with-GLAST-EXT=\$GLAST_EXT --compile-opt --site-dir=../SConsShared/site_scones |& tee hmkBuild.log

The variant isn't included in the Jenkinsbuilds and the L1 scripts still rely on that set up. They should migrate, but in the meantime, I did a build by hand.

repoman checkout GlastRelease (will checkout latest tags as specified in GR master packageList.txt)

```
repoman checkout --bom GlastRelease L1
```

```
repoman checkout --bom GlastRelease --force GlastRelease-20-10-04-gr03
```

Building in Jenkins, one can offer more than one build parameter without commas: L1 FDM-10

<https://github.com/fermi-lat/repoman>

<https://github.com/fermi-lat/repoman>

25 Sept 2019

Jenkins isn't building L1 right now, need to push out a new GR

Testing a build of L1 at the command line on rhel6-64

```
repoman checkout --bom GlastRelease L1 |& tee checkouthmk.log
```

```
/afs/slac/g/glast/applications/SCons/2.1.0/bin/scones -C GlastRelease --with-GLAST-EXT=$GLAST_EXT --site-dir=../SConsShared/site_scones |& tee hmkBuild.log
```

Optimized Build

```
/afs/slac/g/glast/applications/SCons/2.1.0/bin/scones -C GlastRelease --with-GLAST-EXT=$GLAST_EXT --site-dir=../SConsShared/site_scones --compile-opt |& tee hmkBuild.log
```

That worked, now merging Giacomo's changes from astro into new branch then adding it to L1

28 June 2018

Testing checkout out L1 tags

```
repoman checkout --bom GlastRelease --force GlastRelease-20-10-04-gr03
```

That works.

1 Mar 2018

Realized that the xxxRootData packages were updated on master for rootcint during the git transition. Tagged master, and then updated the packageList.txt for L1 and GR master. Jenkins L1 built, and now doing a command line build on rhel6-64

28 Feb 2018

Brian will send instructions to clear out Jenkins workspace.. but basically, I would log onto fermilnx-v03 and remove a directory on SCRATCH

Trying a fresh L1 build on rhel6-64

21 Feb 2018

Updated repoman to the latest release to get --bom option which creates repoman.jsom file and stores commits used for the checkout.

with that son file I now can see the commits associated with the checkout repoman checkout --bom GlastRelease L1

and then do things like `git describe --tags <commit>`

need to finish setting up L1 branches for all required repos

```
git clone whatever repo
git checkout -b L1 <tag>
git push origin L1
```

13 Feb 2018

repoman checkout GlastRelease L1

repoman checkout SConsShared SConsShared-02-03-00

`/afs/slac/g/glast/applications/SCons/2.1.0/bin/scons`

`-C GlastRelease --with-GLAST-EXT=$GLAST_EXT --site-dir=./SConsShared/site_scons` (site-dir is relative to the GlastRelease directory)

2 Feb 2018

Installing updated version of anaconda 2 and 3 at GLAST_EXT starting with basic Anaconda2-5.0.1 and Anaconda3-5.0.1 then adding any special modules we require. Need to sort out distribution to users - where some paths are hard-coded in the anaconda distribution. Probably also want to provide basic miniconda install using a conda list.

see: [Building Python#Anaconda2-4.2.0](#)

17 Jan 2018

Created L1 branch on GlastRelease and containerSettings to pick up the right set of subpackage tags.

Updated rhel6-64 repoman to latest 0.2.2

This appears to checkout the right versions

```
repoman checkout GlastRelease --force L1
```

Building after checking out latest SConsShared package in directory above

`<pathstoscons>/scons -C GlastRelease --with-GLAST-EXT=$GLAST_EXT --site-dir=./SConsShared/site-scons`

13 Dec 2017

Trying out [repoman](#) at SLAC rhel6-64

`scl enable git19 bash`

Install latest repoman version=0.2 using a conda env on GLAST_EXT

`pip install -U fermi-repoman` (installs latest release 0.2) <https://pypi.python.org/pypi?%3Aaction=search&term=fermi-repoman&submit=search>

Working through new workflow documentation: <https://fermi-lat.github.io/doc/workflow.html>

make sure you enable your git SSH id and then

repoman checkout GlastRelease GlastRelease-20-10-04-gr02

ended in error:

```
INFO:root:Checkout out spec: CHS eventFile-09-01-01 for path eventFile
Unable to checkout name: CHS, You may need to force checkout.
Command Output:
  stderr: 'error: pathspec 'eventFile-09-01-01' did not match any file(s) known to git.
error: pathspec 'eventFile' did not match any file(s) known to git.'
```

Jenkins builds : <https://srs.slac.stanford.edu/hudson/blue/organizations/jenkins/pipelines/?search=fermi>

<https://srs.slac.stanford.edu/hudson/view/Fermi/job/Fermi/job/GlastRelease-CI/>

18 Jul 2017

moving CAL calibration from RH5 to RH6-64

rebuilding their copy of CalUtil and calibGenCAL against GR 20-10-04-gr02

```
/afs/slac/g/glast/applications/SCons/2.1.0/bin/scons --rm -k -C /nfs/farm/g/glast/u52/ReleaseManagerBuild/redhat6-x86_64-64bit-gcc44/Optimized/GlastRelease/20-10-04-gr02 --with-GLAST-EXT=/afs/slac/g/glast/ground/GLAST_EXT/redhat6-x86_64-64bit-gcc44 --compile-opt --variant=redhat6-x86_64-64bit-gcc44-Optimized --supersede=$PWD CalUtil
```

and calibGenCAL too

Looking over Sasha's set up. `~chehtman/.cshrc` looks fine, it just sets up an alias to his directory and sources the group `cshrc` file for `scons`

Next trying to run `genMuonPed` using his build of `calibGenCAL` and mine. Actually, I can run his build of `genMuonPed` by doing:

Copied over the `setup_env_scons_asym_rhel6-64.csh` file from Sasha's directory (defined in his `.cshrc` file). Then I created a `cal_mon` subdirectory and copied over the `digi_1file.txt` as handled in the `runtrend_cgc.sh` file. Once that's done, we can pass it to `genMuonPed` as handled in `runtrend_cgc.sh`.

1) I login to my account – I use `.cshrc_rhel6-64` as `.cshrc` (I copied `.cshrc_rhel6-64` to `.cshrc` previously) in my home folder [/afs/slac.stanford.edu/u/g/chehtman](https://srs.slac.stanford.edu/u/g/chehtman)

2) `cd $CGCANA`

3) `source setup_env_scons_asym_rhel6-64.csh`

4) `cd cal_mon`

`genMuonPed -e 100000 digi_1file.txt calPed_20170718`

The problem ended up being that there was another `setup_env.sh` in the `runtrend_cgc.sh` file that pointed to RH5.

6 May 2015

Trying out the event displays using the most recent GR

Fred

Still needs ruby 1.8.6 (or at least doesn't seem to work with

Add `/afs/slac/g/glast/ground/GLAST_EXT/redhat5-i686-32bit-gcc41/ruby/1.8.6/bin` to `PATH`

and

Add `/afs/slac/g/glast/ground/GLAST_EXT/redhat5-i686-32bit-gcc41/fox/1.4.34-gl3/lib` to `LD_LIBRARY_PATH`

tried: `ruby $GLAST_EXT/Fred/v100r2/bin/fred.rb` failed with:

`FXRbGLVisual::create: requested OpenGL extension not available.`

Aborted