

CCB Action 20070201

Code Versions

Engineering Model (sim/recon): [v7r0913p9](#)

This is a GlastRelease v9 based EngineeringModel i.e. we have finally caught up with the rest of the world. This means new versions of a lot of infrastructure code like Root, Geant4, CLHEP and Gaudi. Because of the major release number change a lot of tags are different. Non-infrastructure code has not changed much with respect to the current EM release in the pipeline, however, as we already had many EM specific patches in the old release. Upgrading to this new release makes maintenance much easier as we now are much more in synch with GlastRelease.

Interesting bug fixes include a change to the size of the TKR cluster arrays so they can accommodate large events ([JIRA ROOT-25](#)), more protection from the Geant4 propagator getting stuck ([JIRA GEANT-8](#)) and a divide by 0 problem in the time stamp calculation in case of funny time tones ([JIRA COM-65](#)). A complete list of all the differences with respect to the current EngineeringModel release in the pipeline can be found in:

[Differences wrt the previous pipeline EM release \(EM v6r070329p29em1\)](#)

Also note that the current EM release v6r070329p29em1 seems to have an intermittent problem with the time tones in the digi.root file ([JIRA ROOT-26](#)). This is not seen in any other release. I looked at the previous release, EM v6r070329p28, and also EM v7r0913p8 and the new one, EM v7r0913p9. None of them has this problem. Heather was supposed to look at it to better understand what is happening - in case the problem is still there, but just shows up in different place - but this is obviously on hold now

System Tests for this [version](#)

System Tests results:

There are changes in MC tests, none of the major. Since Geant4 has changed this is probably not unexpected. In the data system tests there were changes (KS value different from 1), but none were significant.

I processed part of a data run with the new release and made digi and recon reports. They look normal.

Fred version:

[v0r99](#)

Pipeline version:

v1.4.6

GRITS tag (web browsing and task configuration)

glast-ground v0r3p7
grits-gino-web version 0.55 (v0r5p5)
grits-gino version 0.95 (v0r9p5)
grits-gino-xml version 1.42 (v1r4p2)
grits-common version 0.32 (v0r3p2)

online/svac (task defs, scripts):

[pipeline tasks:](#)

online: v2r4p1

[svac pipeline code and tasks:](#)

code/tasks v3r6p0:

pipelineDatasets v0r3

[ISOC code and tasks:](#)

v0r5p0

[Apps that run in pipeline:](#)

eLog: v2r3p1

ConfigTables: v3r2p1

TestReport: v3r6p36 (digi & recon reports): awb

- v3r6p36 Additional protection in time stamp code.

- v3r6p35 Fixed bug in <6 hits in the TKR and still a TKR trigger table.

- v3r6p34 Added MergeHistFiles.cxx and related lines to cmt/requirements

EngineeringModelRoot: v3r0p3 (SVAC tuple): Same as before