

# CCB action 20050503

## EM changes

EngineeringModel v4r060302p23

calibGenCAL v3r6p4

Zach Fewtrell

Most significant is the ENABLE\_GRP ciFit jobOption which allows the user to disable smoothing and grouping in intNonlin splines, this is necessary for charge injection data which is taken with the incorrect calib\_gain setting. Sasha's previous patch had the same result, but this solution is more elegant. Tested that both tags produce the same output. There was a minor xml formatting issue in ciFit which needed to be fixed for multi-tower use. Basically the instrument dimensions (nCol & nRow) in the xml header info were incorrect. Minor updates include improved progress print outs & better comments in the ciFit smoothing code.

RootAnalysis v8r3

Heather Kelly

Added examples for GEM and Diagnostic processing.

TkrRecon v10r5p8

Tracy Usher and Leon Rochester

The new default values for maxGaps and maxConsecutiveGaps are set to (2,1) which should be appropriate for I&T and not adversely affect simulation studies and includes fix for first-hit energy which was being incorrectly set in one-track events. Addresses JIRA <http://jira.slac.stanford.edu/browse/TKR-14> and <http://jira.slac.stanford.edu/browse/TKR-15>

LatIntegration v2r26

Anders Borgland

Minor fix to VDG JobOptions files.

RootAnalysis v8r2

Heather Kelly

Fixes crash when reading new recon ROOT files, there was an error in how the TkrRecon data was being processed.

Addresses JIRA <http://jira.slac.stanford.edu/browse/ROOT-9>

## svac changes

SVAC scripts & tasks are at v3r1p11. This includes some changes to scripts:

- modify queryElogReportTable.pl to exit with code nonzero if the queried info is not in the database (JIRA issue: <http://jira.slac.stanford.edu/browse/SVAC-46>)
- modify recon.pl to use VDG.txt in LatIntegration job option directory to reconstruct VDG photons (JIRA issue: <http://jira.slac.stanford.edu/browse/SVAC-44>)
- use eLogFeeder v2r2p4 to exit with exited code 1 if sql statement is not successfully executed

TestReport v3r2p7

The title of the Gem delta event time histogram says: "Time interval between adjacent event in millisecond with a cut of 1 ms." It should be: "Time interval between adjacent events in milliseconds." There is no cut of 1 ms.

<http://jira.slac.stanford.edu/browse/Jira-SVAC-14>

EngineeringModelRoot v1r3p18

- awb Removed 'EventSequence' as it now will be identical to EventID.
- awb Removed 'GoodEvent'. Users should require 'EventFlags==0' to have events without any errors.
- awb Renamed mergeRoot\_debug to mergeRoot\_mc. The 'bug' it fixed is no longer in Root V4. However, merging mc.root files does not work with mergeRoot for some reason. The memory usage goes through the roof and it essentially comes to a stand still.
- awb Changed default file size to 25 GB in mergeRoot, mergeRoot\_mc and mergeNtuple.
- awb Updated the documentation.
- wbf Added EvtTicks.

EngineeringModelRoot is v1r3p18. The only change from p17 is fixing a bug in the evtTicks variable that was introduced in that release.

## online

Anders and Warren found a minor bug in the online pipeline. The LDF file choosing mechanism was flawed and sometimes grabbed the errXXXXXXXXX.ldf file. This was run through ldf2digi which discarded all the error events. As this file is an error skim, all events in the file were discarded.

I've fixed the code, and I'd like to run it through your CCB. The CVS tag is onlinePipeline V02-01-02. There is no change to the pipeline xml.

<http://jira.slac.stanford.edu/browse/PIT-4>

## Code Versions

Engineering Model (sim/recon) [v4r060302p23](#) **\*\*changed\*\***

System Tests for this [version](#)

System Tests [Result](#)

FRED version

[0.98](#)

Pipeline tag

v1r0p2

GRITS tag (web browsing and task configuration)

glast-ground v0r3p4  
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: v2r1p2 **\*\*changed\*\***

svac pipeline code and tasks:

code/tasks v3r1p12 **\*\*changed\*\***

ISOC code and tasks:

v0r5p0

Apps that run in pipeline:

eLog: v2r2p4  
ConfigTables: v3r1p3  
TestReport: v3r2p7 (digi & recon reports) **\*\*changed\*\***  
EngineeringModelRoot: v1r3p17 (SVAC tuple)

Approved: Eduardo, Richard, Bill 4 May 2005