CCB Action 20050810

EngineeringModel v5r0608p6

RootIo v15r8p1em6: Remove memory leak/overwrite - 'Reset TProcessID ObjectNumber in RootIoSvc rather than in mcRootWriter. Put in fix to clear commonData maps in RootIoSvc'

ldfConverter v1r15: Add two JO to be able to be able to jump directly to a specific event in a Fits file.

xmlGeoDbs v1r22p7
Leon Rochester and Anders Borgland
Address JIRA http://jira.slac.stanford.edu/browse/GEO-6
Add support for 10, 12, 14 towers and 8 tower plus ACD configurations.

GlastSvc v9r13p1
Leon Rochester
Addresses JIRA http://jira.slac.stanford.edu/browse/GEO-5, where non-zero alignment constants sometimes caused non-physical strip numbers to be generated.

RootIo v15r8p1em4
Heather Kelly
Minor fix (one line) for windows, add explicit return of Gaudi StatusCode. Also modifies the default file split size from 25 GB to 500 GB.

CalXtalResponse v0r6p6
Zach Fewtrell
Fixed bug in mixed diode XtalDigi that had bad position estimates for diode deposit hits (CsI hits were fine).
Fixed a minor bug in recent CalTuple code (bad var init). The bad code was so young that it never made it into a tagged EM or GR release, so net bugfixes for EM & GR tags is just 1.
RECALIBRATION: ideal mode flight noise & LAC thresholds have been updated to better approximate expected flight noise levels.

TkrUtil v3r4p1
Leon Rochester
Fix for JIRA http://jira.slac.stanford.edu/browse/TKR-17
The default nominal constants have been adjusted to match the average for Tkr A and B. The constant fCPerMip has been changed to 5.0, to match the value used by Hiro in generating the ToT constants. The constant MeVPerMip has been changed from 0.155 to 0.113. Was using the mean energy, but should have been using the most probable value.

calibGenTKR v2r6p2
Hiro Tajima

Fix row and col definition of tower. Add several plots to monitor
tot fit parameters.

ldfReader v2r4p2
Heather Kelly
Fix for JIRA http://jira.slac.stanford.edu/browse/ROOT-15, where the log messages contained only the 17 bit event sequence rather than the new 32 bit event number.

LdfConverter v1r14
Heather Kelly
In response to JIRA http://jira.slac.stanford.edu/browse/LDF-25, adds a check to LdfCalDigiCnv for all four readouts in ALLRANGE mode.

HepRepCorba v1r6
Riccardo Giannitrapani
Addresses JIRA http://jira.slac.stanford.edu/browse/FRED-40

calibUtil v1r5p1
Joanne Bogart

Addresses JIRA http://jira.slac.stanford.edu/browse/CALIB-15. Lay groundwork for insert-latest and
supersede functions in rdbGUI.

rdbModel v2r2p2
Joanne Bogart

Addresses JIRA http://jira.slac.stanford.edu/browse/CALIB-15. Lay groundwork for insert-latest and
supersede functions in rdbGUI.

RootIo v15r8p1em4
Heather Kelly
Minor patch (change one constant) to modify the default file split size from 25 GB to 500 GB as requested by I&T.

calibGenCAL v3r7p2
Zach Fewtrell

ciFit & runMuTrigEff will now accept CI files w/ any multiple of nXtalsPerTower hits per event. i.e. they accept parallel calibrations. Also runMuTrigEff will intelligently skip the 'scan events' which are sometimes interspersed w/ data events, & can slightly mess up the event numbering & binning runSuiteParallel script added which runs ciFit, muonCalib, muTrig, ***Merge.py, ***Validate.py on a full set of parallel calibration data. Also the C++ applications now expand more environment variables in the config options file in order to support the runSuiteParallel script.

LatIntegration v2r33
Anders Borgland
Contains new system tests (4,6 tower data + all_gamma MC)
Include writing CAL ntuple as the default in the jobOptions files.
Reduce TKR noise in jobOptions file for Monte Carlo runs, addresses JIRA http://jira.slac.stanford.edu/browse/TKR-18.

svac updates

svacPipeline v3r3p0:

Add CAL tuple as ouput from recon (SVAC-69) run digitization on xlong (http://jira.slac.stanford.edu/browse/SVAC-70)

pipelineDatasets v0r3:

increase max tree size to 500 GB (http://jira.slac.stanford.edu/browse/SVAC-71)

Code Versions

Engineering Model (sim/recon)v5r0608p6 **changed**

System Tests for this version

System Tests Result

System tests:

I have checked all system tests histograms for EM p3 wrt EM p1. Two changes were seen for MC. One is under investigation by Leon (increased active area in the geometry increases unexpectedly the number of MC hits), the other was due to a change in the ideal flight mode and affected only one one MC system test that do not use calibrations.

There were no differences in system tests histograms between p4 and p3.

There were some differences in two MC system tests between p5 and p4 because of new CAL calibration constants I put in yesterday in preparation of datataking.

There were no differences in system tests histograms between p6 and p5. Note that I have added 4 and 6 tower data and 6 tower allgamma system tests as of p6. They are currently not available for viewing - there is a JIRA out on it from Julie.

anders

FRED version

0.98

Pipeline tag

v1r0p2

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: v2r3p0

svac pipeline code and tasks:

code/tasks v3r3p0 ****changed****
pipelineDatasets v0r3 ****new****

ISOC code and tasks:

v0r5p0

Apps that run in pipeline:

eLog: v2r2p7
ConfigTables: v3r1p4
TestReport: v3r2p7 (digi & recon reports)
EngineeringModelRoot: v1r3p19(SVAC tuple)

Approval: unanimous 13 Aug 2005