

# EM changes

## Engineering Model changes

TkrUtil

Leon Rochester

Fix use of row and column in bad strips and FailureMode services, Addresses JIRA <http://jira.slac.stanford.edu/browse/TKR-13>

xmlGeoDbs v1r22p3

Anders Borgland and Joanne Bogart

Update the geometry files for the VDG geometries to use the correct grid positions.

Addresses JIRA <http://jira.slac.stanford.edu/browse/SVAC-31>

commonRootData v2r1

mcRootData v2r16

Heather Kelly

In effect no change - the intervening tags had included a new commonRootData namespace which had to be backed out due to ROOT's inability to currently handle introduction of a namespace in a std::vector. No version of EM, ever included a tag to these packages that included this namespace.

digiRootData vr8r3

Heather Kelly

Back out commonRootData namespace and provide storage for Event Size and fix up the Gem::getMissed method for the dead zone word in the GEM.

reconRootData v5r6p0

Heather Kelly

Back out commonRootData namespace.

Update the TkrRecon::Clear method to implement the same "fix" that Ursula introduced in DigiEvent::Clear, where TObjArray are cleared using the same type of algorithm implemented for TClonesArray. This avoids wasting time during deletions for every event, greatly reducing slowdowns during reading.

Private Communication with Johann.

Rootlo v15r6

Heather Kelly

Bug fix on windows - misuse of const

Private communication with Toby Burnett.

Handle GEM missed (dead zone) word and event size in both reading and writing the digis.

Private communication with Anders Borgland

calibUtil v1r3p6

Joanne Bogart

make some attributes less restrictive in calCalib DTD

CalibSvc v0r21

Joanne Bogart

Backed out the commonRootData namespace.

calibGenCAL v3r5p4

Zach Fewrell and Heather Kelly

back out commonRootData namespace

IdfReader v2r3

Heather Kelly

Store event size and fix handling of missed (dead zone) word in GEM

LdfConverter v1r9

Heather Kelly

Remove warning message when there are no skipped events when searching for the first sweep event.

Updated GEM and EventSummary converters to properly handle the missed (dead zone) word in GEM and event size respectively.

Private communication with Anders Borgland.

LdfEvent v2r11

Heather Kelly

Store Event size and fix storage of missed (dead zone) word in GEM Private communication with Anders Borgland.

LatIntegration v2r20

Anders Borgland

Update jobOptions files for VDG tests to use the new updated geometry files using the correct grid positions. This is especially necessary now that calibrations are included.

Addresses JIRA <http://jira.slac.stanford.edu/browse/SVAC-31>

RootAnalysis v8r1

Heather Kelly

In essence, no change, introduced and backed out commonRootData namespace.

rootTestData v3r2

Heather Kelly and David Chamont

Back out commonRootData namespace and include ROOT test files for CalRecon

calibRootData v1r7  
Joanne Bogart  
In essence no change, introduced and then backed out

## svac code changes

svacTuple switch to EngineeringModelRoot v1r3p15:

Added TrgReqTriRowBits made from trigger primitives. Renamed current TriRowBits to DigiTriRowBits. Updated documentation.

Add CalXtalPos to describe fit position in each crystal Add TkrTotalHits to describe total number of hits in each tower JIRA issue (<http://jira.slac.stanford.edu/browse/SVAC-17>)

Add TkrTotalClusters to describe total number of clusters in each tower JIRA issue (<http://jira.slac.stanford.edu/browse/SVAC-30>)

Added Eventsize (in bytes) and GEM dead zone counter.

updateELogDB switch to eLogFeeder v2r2p1:

> modify code to use #!/usr/bin/env python2.4 (<http://jira.slac.stanford.edu/browse/SVAC-29>) modify code to  
> use http instead of ftp to store online report URL  
(<http://jira.slac.stanford.edu/browse/SVAC-28>)

update eLogFeeder to v2r2p2

modify code to cope situation when a run is a test run and there are no serial numbers in the rcReport.out. JIRA issue: <http://jira.slac.stanford.edu/browse/SVAC-33>

I think this will bring pipeline scripts to v3r1p5.

## online changes

online task will switch to v2r1p1. This is a change to task configuration only, no code changes. Fixes an error in the last version's launching of SVAC tasks.

## Code Versions

Engineering Model (sim/recon) **v4r060302p18** \*\*\* 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: v2r1p1 **\*\*changed\*\***

svac pipeline code and tasks:

code/tasks v3r1p5 **\*\*changed\*\***

ISOC code and tasks:

v0r5p0

Apps that run in pipeline:

eLog: v2r2p2 **\*\*changed\*\***

ConfigTables: v3r1p3

TestReport: v3r2p6 (digi & recon reports)

EngineeringModelRoot: v1r3p15 (SVAC tuple) **\*\*changed\*\***

Approved: unanimous 22 Apr 2005