Flight I&T Support
February 24, 2005
From Our Friends in I&T

- I&T Analysis meeting tomorrow 8 AM PST
- I&T Analysis Workshop
  
  [Link](http://www-glast.slac.stanford.edu/IntegrationTest/SVAC/Instrument_Analysis/Workshop-3/participants.htm)

- SVAC Code Review
  - Planning in the works…perhaps in a month
  - SVAC pipeline scripts developed by Warren and Xin
- SVAC has discussed the situation with new TkrRecon and wants to go forward by the end of this week.
Latest EM tag: v3r0407p13
- Based on GR v4r7
- System Tests underway
- Includes new GEM and upgrade to LDF v05-04-01
- Assumes new GEM..as JIRA CCB-29 has had no response yet.

Work on next tag is in progress v3r060201p0
- New TkrRecon
<table>
<thead>
<tr>
<th>What</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Error bits</td>
<td>Think we’re all set.</td>
</tr>
<tr>
<td>Search for first sweep event</td>
<td>DONE</td>
</tr>
<tr>
<td>Pick up reorganized trigger bits</td>
<td>Now waiting for new TkrRecon</td>
</tr>
<tr>
<td>New CAL code</td>
<td>Waiting for word from CAL people and new GR tested tag</td>
</tr>
<tr>
<td>Update IdfReader with more error checking</td>
<td>Somewhat done</td>
</tr>
<tr>
<td>New TKR Recon</td>
<td>Waiting for systests</td>
</tr>
<tr>
<td>LDF upgrade to v05-04-01 – updates to GEM</td>
<td>DONE</td>
</tr>
<tr>
<td>UDF handling</td>
<td>Thinking about processing</td>
</tr>
<tr>
<td>TAG</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------</td>
<td>-----------------------------------------------------------------------------</td>
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</tbody>
</table>
| V3r0407p10      | Search EXTNAME
Rolls back to old Trigger Word                                           | Released               |
| v3r0407p13      | New Gem and LDF v05-04-01                                                    | System Tests in progress |
| v4r060201p0     | First version based on GR v6r2p1 – new TkrRecon                             | Feb 24<sup>th</sup>    |
| v4r060301p0     | New TKR calibration code?                                                    |                        |
| v4r0604p0       | Upgrade CAL
I’m assuming there will be a new GR tag as well v6r3?                   | Feb 28<sup>th</sup>    |
CAL Update

- See CAL Report
- New CAL Code will be made available in EM after new TKR
TKR Update

- See TKR Report
- Calibration code ready to go
  - Reads the ToT charge injection root file, the dead/hot strips xml files, and the splits file into Gleam
  - In next GR tag..EM will pick up when available and system tested.
  - Just a little reminder.. Missing strips can result in broken tracks…
Callable interface to metadata dbs:
- callable "register calibration in metadata database" routine written by the end of the day and, if all goes well, new tags as needed by the end of the week.

Had calibration discussion Wed. afternoon (Eduardo, Xin, Leon, David Smith,...).
Results of Calibration Discussion

- We had a meeting this afternoon about how to identify calibrations in the metadata database
  - in a way consistent with the way CalibSvc now works (or nearly; a scheme requiring minor enhancements would be ok) and meaning of fields in metadata dbs
  - so that it is possible to track calibrations by serial number
  - so that it is possible without too much pain to concoct job options files which will pick out the right calibrations for all situations now anticipated

- I think we agreed that we can use the instrument field (in the metadata) to do most of the work. There are approximately 3 cases to be dealt with:
  - Tracker or Cal off by itself. Value of instrument field will then be serial number of the component
  - Tracker + Cal together. Value of instrument field will be the two serial numbers, concatenated somehow
  - Components installed in the grid. Value of instrument field is "LAT"

- Xin has confirmed that he can write job options files for this scheme.

  This scheme is somewhat dependent on validity interval entries (vstart, vend) in the metadata being meaningful, which implies I need to automate updating of vend as needed (for pre-existing entries) when a new entry is made in the database.
Pipeline

- Working at the inter-task Dataset linking in the pipeline scheduling software. Time estimate may be available in the morning. Still encountering the odd incompatibility between the software versions and DB schemas across the three servers and this is taking quite a bit of my time (in the interest of getting prod up to date without breaking it.)

- It's becoming obvious now that judicious tagging of an entire server installation (software, db-schema, associated cron tabs, etc., etc.) and a system for promoting them from test->dev->prod will greatly ease this process in the future.