Flight I&T Support
As the CCB Turns

June 9, 2005
From Our Friends in I&T

- Instrument Analysis meeting tomorrow 8AM
- Data taking plans:
  CAL calibration runs start next Wednesday
  SVAC data runs start the following Monday
- JIRA LTE-265 New 32-bit event number initialization has been fixed, in release of OES (V6-4-1).
EM v4r060302p23 – in the pipeline
  - Based on GR v6r3p2..sort of..
  - http://confluence.slac.stanford.edu/display/FLTINTSWCCB/2005/05/03/CCB+action+20050503

Upcoming tag v4r0608p0 which includes:
  - latest calibGenTKR including new xml2root
  - latest calibGenCAL
  - branched TkrRecon for MS angle
  - new LdfConverter for JIRA SVAC-57
  - updated LdfReader which handles err summary
  - ACLIC-able RootAnalysis and LeaningTower
  - shared library
## To Do List

<table>
<thead>
<tr>
<th>What</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Error bits: OR for TEM, trgParityError, and packet error</td>
<td>DONE</td>
</tr>
<tr>
<td>Handle full Error Contribution Summary</td>
<td>Coming in v4r0608p0</td>
</tr>
<tr>
<td>New CAL code</td>
<td>DONE</td>
</tr>
<tr>
<td>Update ldfReader with more error checking</td>
<td>Somewhat done</td>
</tr>
<tr>
<td>New 32 bit Event Id</td>
<td>DONE</td>
</tr>
<tr>
<td>Update ldfReader to avoid consuming full LDF for processing</td>
<td>DONE</td>
</tr>
<tr>
<td>UDF handling</td>
<td>Thinking about processing</td>
</tr>
</tbody>
</table>
## Schedule

<table>
<thead>
<tr>
<th>TAG</th>
<th>Description</th>
<th>When?</th>
</tr>
</thead>
<tbody>
<tr>
<td>v4r060302p18</td>
<td>Fix up stuff</td>
<td>Released</td>
</tr>
<tr>
<td>v4r060302p23</td>
<td>Fix up stuff</td>
<td>Released &amp; In Pipeline</td>
</tr>
<tr>
<td>v4r0608p0</td>
<td>Move to GR v6r8 new calibGenTKR&amp;calibGenCAL</td>
<td>Will be released 6/10/2005 tomorrow!</td>
</tr>
</tbody>
</table>
CAL Update

- See CAL Report

- `calibGenCAL v3r6p11` (latest tag) fixes JIRA issues CAL-10,11,12.
  
  JIRA CAL-13 is still in progress – not sure if this is a `calibGenCAL` issue or not.

- Due to the CalRecon development, branches have been created for some packages: TkrRecon, Rootlo
See TKR Report
New Branch on TkrRecon

The MS angle stored in TkrTrack has an artificial lower cutoff intended to keep the kalman energy from going infinite. The kal theta ms distribution had a cutoff at something like 0.02 mm which was "artificial" in the sense that the code in computeMSEnergy would not allow a zero value for the ms angle. The change was to accumulate both the "raw" value as well as that modified for this minimum, use the modified value in the calculation of the kalman energy and store the "raw" value in the the kal theta ms output.
A Plot or Two from Anders!

Look Ma, no cutoff
Usage:
xmltoroot <XML input file>  [<ROOT output file>]

This program reads in an xml calibration file of certain supported types and writes out a corresponding ROOT file. ROOT output filename is optional. If omitted, defaults to input filename with extension = .root

If the output file already exists, xmltoroot will first make a backup copy, then will append or replace tower information in the output file.