Flight I&T Support
As the CCB Turns
July 21, 2005
Very successful Instrument Analysis Workshop was last week.

- **Data taking plans:**
  - We will retake the 6 tower data - hopefully this week.
  - There was a meeting yesterday to discuss which values of Stretch and Shape to use. It was decided to use TKR STRETCH_OR set to 31 ticks rather than 14 ticks.

- TKR has solved the row/column swap for the TKR TOT and Johann has updated the calibration database entries. There is still a scale problem. Hiro and Leon are working on it.

- Work has begun to add ACD entries to the SVAC ntuple.

- Recon size – a trial reconRootData using Double32_t rather than Double_t for all data members in TkrRecon was tested by Anders using a 6 tower B-2 run (baseline). The size of the recon.root file is:
  - Doubly good recon: 4.6G
  - Floating recon : 2.8G

I&T is hoping Tracy/Leon/Bill can verify the TkrRecon innards to be sure no damage was done.
EM v5r0608p2 still in the pipeline
  - Based on GR v6r8
EM HEAD includes:
  TkrUtil v3r4p1 – fixes JIRA TKR-17
  xmlGeoDbs v1r22p5 – includes 10, 12, 14 towers arrangements
  RootIo v15r8p1em3 – minor fix for windows
GRINF-26 Shift in the Event Time
See:  http://jira.slac.stanford.edu/browse/GRINF-26?page=history
Toby has implemented a fix – EM is holding off due to large number of packages involved.

FRED-40  FRED v98 and v99 fail with EM v5r0608p1
Fixed with latest HepRepCorba

LDF-24 non-reproducible crash running ldf2digi on 6 tower data
<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>DONE</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>v5r0608p0</td>
<td>New CalDigi, CaXtalResponse, CalUtil</td>
<td>Tagged</td>
</tr>
<tr>
<td></td>
<td>Updated calibGenCAL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fixed Rootlo for error summary</td>
<td></td>
</tr>
<tr>
<td>v5r0608p1</td>
<td>New CaXtalResponse,</td>
<td>Tagged, Blessed by CCB</td>
</tr>
<tr>
<td>v5r0608p2</td>
<td>Latest calibGenCAL</td>
<td>Tagged, blessed by CCB and in pipeline</td>
</tr>
</tbody>
</table>
CAL Update

- See CAL Report
- CalXtalResponse was updated to output a new CAL ntuple – this is not yet included in EM.
- Current 'official' 4 & 6 tower calibration files in the database are unequivocally wrong, at least as far as CAL HE is concerned. LE is fine. Zach is working on regenerating the calibration files.
TKR Update

- See TKR Report.

- New TkrRecon tag v10r5p8em2 includes alignment tool: TkrAlignHitsTool
  - Holding off including in EM HEAD until I&T blesses it.
Calibration - Joanne

Joanne has been beamed up to other things..
I haven’t got the power, Captain

March 3, 1920 – July 20, 2005