

Status and plans

full dress rehearsal and phase III

Stefano Lacaprara

`stefano.lacaprara@pd.infn.it`

INFN Padova

Data Production meeting,
Vidyo, 24 January 2019

- **pre-proc8**

- ▶ preparing script to run **pre-proc8**
- ▶ [release-03-00-00](#)
- ▶ include some modifications to tracking (steering file) from Sasha
- ▶ EKLM track matching BIIDP-1120 and BKLM additional branches BII-4458
- ▶ waiting for new GT from Umberto for updated calibration (mostly tracking?)
- ▶ **input:** HLT skims ["hlt_bhabha", "hlt_gamma_gamma", "hlt_mumu_2trk"]
- ▶ **Status:** script are ready, need to do PR and get green light from experts, and waiting for GT
- ▶ Once approved, production will take 2/3 days.

- **proc8**

- ▶ Most likely will use [release-03-00-01](#)
- ▶ aggressive schedule:

Jan 21 Pre-processing with modifications to tracking settings with [release-03-00-00](#) and `data_reprocessing_proc7` to provide samples for study of the effects of the changes in tracking. We can also include modifications to calibration payloads if it would be useful. **Already passed**

Feb 1 Deadline for software modifications to be used for `proc8`

Feb 15 Updated calibration constants provided for `proc8`

Feb 18 Reprocessing begins

- Fast processing already running **GCR5a**
 - 1 Hara-san copy (by hand?) file for offline usage (sroot→root conversion)
 - 1.1 notify that new runs are available BIIDP-1097
 - 2.1 I submit (by hand) batch of jobs for new runs
 - 2.2 once done (about 1 hour) they new runs are moved to final location
 - ▶ /ghi/fs01/belle2/bdata/Data/Cosmic/e0005/4S/GCR5a/release-03-00-00/DB00000493/
 - 2.3 update confluence page <https://confluence.desy.de/display/BI/Experiment+5+-+full+dress+rehearsal>
 - ▶ still too much manual work, but script are in place and we can automatize most of 2.x
- Second processing in preparation **GCR5b**
 - ▶ Include better steering file to use PXD and SVD data
 - ▶ Pull request PR11
 - ▶ in contact with experts to validate the steering scripts
 - ▶ Umberto to provide GT data_reprocessing_prompt BIIDP-1101

- Last week started a reprocessing of exp3, phase2 on the grid **proc7b**
 - identical to proc7, only difference is grid based wrt KEKCC/LSF based
 - two test pre-processing (3 runs each) submitted on 16/1
 - two batch of jobs because some input file are labelled “Beam” and some “Physics”
- 6798 Done: all looked fine, so I started the full processing
- 6799 Running DMB= 6/6 but
- ▶ (24/1): TransId:21689 Registered Done:2 Total:2 100.0% 1/1 ??
- Full production:
- 6857 Running: submitted on 2019-01-17 15:28:18, DMB=182/402 (was 160/402 yesterday)
- 6858 Running: submitted on 2019-01-17 15:42:48 DMB=187/874 (was 61/874 yesterday)
- NB: proc7 took about 2.5 days at KEKCC

1. Data collectet by DAQ **sroot**
 - **sroot** → **root** by computing group (CG aka Hara-san)
 - **root** copied and registered to grid (CG)
2. DataProduction notified
 - DP submit prod to grid to process **root**
 - ▶ If the latency of grid processing is like that for proc7b we do have a problem
 - ▶ What is plan B? KEKCC processing?
3. ...
4. Profit (Announce to collaboration)

what do we need for step 2.

- Setup of steering script
 - ▶ DP responsibilities with help and feedback by Software+DetectorContacts
 - ▶ GT provided by Calibration manager (Umberto) (prompt_data_processing)
- Express stream for calibration
 - ▶ limited amount of data processed quickly (KEKCC?) to be used by calibration group to extract calibration constants
 - ▶ produce **cdst**
 - ★ dedicated skim based on HLT ?
 - ★ on fast reconstruction with $n - 1$ GT ?
 - ★ How much data?
 - ★ How fast?
 - ★ How often?
- **step 2.1 HLT Skim**
 - ▶ after prompt production or in parallel?
 - ▶ current steering is mostly I/O and fast. Steering script mostly ready from phase II (Karim), likely to need update (eg monopole skim?)
 - ▶ on grid (see before)

Additional or backup slides

