

Data Processing Report

Stefano Lacaprara, Marco Milesi

stefano.lacaprara@pd.infn.it

INFN Padova, Uni. Melbourne

Data Production meeting,
SpeakApp, 4 April 2019

Unofficial prompt processing **BIIDP-1370**

- release: **release-03-01-00**
- GT: **568 data_reprocessing_prompt_bucket2c**
 - ▶ Magnetic field: v8 (QCS ON)
- **path** /ghi/fs01/belle2/bdata/Data/release-03-01-00/DB00000568/prompt/e0007/4S/r<RUN>/all/dst/sub00/
 - ▶ only **DST** available
 - ▶ processed up to run 1585 included: all lumi run collected so far (1586,1587 running)
- **NOTE: these are unofficial samples with non optimal calibration constants and should only be used for studies that do not rely on good reconstruction.**
- The primary purpose is for background, trigger, and similar studies.
- Official samples will be produced only after calibration is finished (2 weeks from data taking).
- <https://confluence.desy.de/display/BI/Phase+3+data>

- **promptProc0 BIIDP-1352**

- ▶ release: **release-03-00-03**
- ▶ GT: **data_reprocessing_prompt_bucket0** (wrong geometry, but 310 was not available yet)
- ▶ up to run 1020. **Discontinued**

- **promptProc1 BIIDP-1356**

- ▶ release: **release-03-01-00 GT**
- ▶ GT **data_reprocessing_prompt_bucket2** (correct geometry and 310, but we realized that the magnetic field used in the GT was v9, corresponding to QCS-OFF)
- ▶ up to run 1235. **Discontinued**

- **promptProc2 BIIDP-1370**

- ▶ release **release-03-01-00**
- ▶ GT: **data_reprocessing_prompt_bucket2c** correct geom and correct Magnetic field. Reprocessing full exp7 dataset
- ▶ up to 1585 completed, 86/87 running
- ▶ **still active**

- **Will move to newer GT as soon as available** Also newer release? (03-01-01 is available)

- **I am processing only Physics Run (not Cosmic or Beam). Should I?**

- Exp5/6 bucket 0,1,2 completed (calibration, processing) **BIIDP-1225 BIIDP-1266, BIIDP-1282**
 - ▶ Bucket 2 processing fully done by Marco as deputy
- 🔧 Exp7 bucket 3 (Cosmic) **BIIDP-1357** in progress
 - ✓ tracking constant are ready
 - 🔧 local calibration is underway
- 🔧 Exp7 bucket 4 (physics+cosmic) **BIIDP-1366** not started (yet)
 - still learning the procedure
 - ▶ some confusion with payload on GT later than deadline, mistake in payload, etc
 - Full workflow not yet in place
 - ▶ no cdst early production with N-1 GT
 - ▶ align people start from raw data
 - ▶ still no progress on cdst redefinition (ECLCalDigits still dominating)

- With Marco, we are working on better scripting for local submission
 - ✓ fully python based
 - ✓ automation
 - ★ already tested for automatic submission as soon as new runs are copied to offline
 - 🔧 all parameters from single json **BIIDP-1373**
 - ★ and not scattered and duplicated in different script
 - ▶ poor-man DB (csv) for bookkeeping
 - 🔧 we are discussing how to use a real DB with more information **BIIDP-1374**
 - ★ need to discuss how to feed relevant information into run database (David)
- Grid processing not yet
 - ▶ Register and replicate experiment 7 data to the grid by comp. group **BIIDP-1378**
 - ▶ script are ready and tested for GCR5 some time ago, need to check them.
 - ★ Automation not in place yet, manual submission.
 - ▶ can process exp7 bucket4 locally (dst?) **and** on grid (mdst only)

Additional or backup slides