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 no 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?



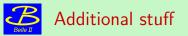


- Exp5/6 bucket 0,1,2 completed (calibration, processing) BIIDP-1225 BIIDP-1266, BIIDP-1282
 - Bucket 2 processing fully done by Marco as deputy
- Exp7 bucket 3 (Cosmic) BIIDP-1357 in progress
 - $\checkmark\,$ tracking constant are ready
 - 差 local calibration is underway
- Exp7 bucket 4 (physics+cosmic) 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
 - $\checkmark\,$ 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
 - $\star\,$ 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