Status data processing

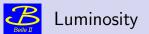
Teaching duties today, sorry for not being present

Stefano Lacaprara, Marco Milesi

stefano.lacaprara@pd.infn.it

INFN Padova, Melbourne University

Data Production meeting, Speakapp, 30 May 2019





- ullet Online luminosity is available in \sim real-time
 - See B2 question
 - Original script script by Mikhail Remnev
 - ✓ PR for a Better version of the script
 - ★ b2info-luminosity-online --exp 7 --runs 3128-3847
 - * TOTAL : L=332336.73 /nb = 332.34 /pb = 0.332 /fb = 0.0003 /ab
 - X Lumi returned is delivered only!
 - in principle, also the recorded lumi should be available (there was an option in the original script) but it is not working.
 - * Asked to Mikhail, no reply yet
 - This is based on a sqlite DB on /gpfs/group/belle2/group/detector/ECL/ecl_lom.db updated every 30 seconds



Off-line luminosity



3 / 6

Provided by Xing-Yu Zhou as soon as calibrated processing is available.

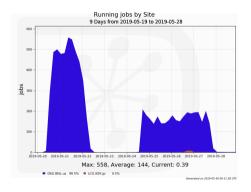
- Done for bucket4 and bucket6 (today!)
- Also available run by run
- relevant info in the Phase+3+data confluence page
 - ▶ Bucket4 on/offline $L = 117/70 \,\mathrm{pb}^{-1}$ (GDL problems for the runs 916-1005 and 1216-1371)
 - ▶ Bucket6 on/offline $L = 332/343 \,\mathrm{pb}^{-1}$
- Q from Adachi-san: can we have ~live offline lumi, eg every day
 - Reply from Xing-Yu Zhou. Not simple
 - Goal is to provide give precise results of luminosities for physics analyses
 - Use processed cdst/dst/mdst data
 - * (SL we could use the unofficial processing, dealy \sim day)
 - without good calibration, offline luminosity measurements can not achieve good precision
 - ★ (SL No easy workaround for this)
- If we could have also the recorded offline lumi, that would be probably enough. The information is available, need to sort out the technicalities



Grid processing: bucket 4



- data processing script are ready PR#39
- Bucket4 submitted on May 20 BIIDP-1494
 - Initial progress good (not as fast as I would like, only 500 jobs running in parallel)
 - ▶ then issue at BNL
 - after 2.5 days issue partially solved, restart (even slower < 200 jobs running)
 - several issue with pilot failure BIIDCO-1811 not yet solved
 - ▶ 4 remaining jobs still not done (out of 11063)





Grid processing: bucket 6



- For bucket6 we are ready but BIIDP-1574:
 - ✓ Need to enable release-03-01-02 on the grid **done today**
 - some of the input files are only on tape at BNL
 - * Asked to stage them to disk, no reply yet
 - we need better comunication!
 - once is done, we can start right away.
 - ▶ Number of jobs: 22918. We need more that 500/200 slots

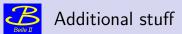
General comment about grid processing

- Good, but not good enough
- an issue at BNL is not like an issue at any other random site
- We need more slots: naive extrapolation
 - **bucket4**: 10k jobs, $\sim 100/pb$: ~ 5 days
 - **proc9**: 100kjobs, $\sim 2 \text{ fb}^{-1} \sim 100 \text{ days}$
- communication with DC can be improved (timezone is not helping, as usual)





- Prompt skim of exp8 is progressing as soon as new run is available on-line. No issue BIIDP-1544
- Unofficial processing is progressing as well, producing only hlt_hadron and hlt_mumu_2trk
 BIIDP-1533
 - ▶ latter hlt skim on request. Processed also all exp7 and past exp8 runs
- need to recove some run which failed to to jobs too long (too many events)
 - updated script are available, need just to find the time to do that properly.
- got a request for fast processing of some cosmic runs w/ QCS magnet off. Done. BIIDP-1576





Additional or backup slides