

Data Processing Status Update

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Bucket 7 Status



- Production of mdst/cdst for hlt_skim
- Production of mdst (only) for All events
 - https://agira.desy.de/browse/BIIDP-1643
 - Release-03-02-04
 - GT: online + data_reprocessing_prompt_bucket7

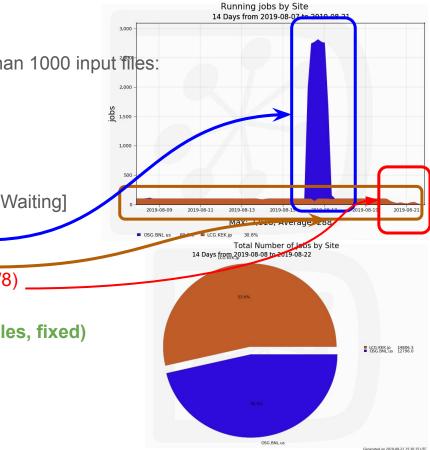
• Status: DONE

- **359** runs
- 10434 jobs total for <u>hlt_skim</u>
- o **56092** for <u>all</u> events
 - Few runs failed for problem with input files:
 - Error in <TFile::Init>: /group/belle2/dataprod/Data/Raw/e0008/r01925/sub00/physics.0008.01925.HLT3.f00010.root not a ROOT file
 - 1920, 1925, 1932, 1935, 1936, 1940, 1941, 1942, 1943, 1946, 1951
 - Not moved yet to final path
- Output path:
 - /group/belle2/dataprod/Data/release-03-02-04/DB00000677/bucket7/e0008

Proc 9 on Grid: Status

- Some activity!
 - <u>https://agira.desy.de/browse/BIIDP-1587</u>
 - Hideki-san fixed processing of long run with more than 1000 input files:
 - Thanks!
 - https://agira.desy.de/browse/BIIDCD-888
- ProdID 8521 still running (exp 8)
 - RawProcessing still NOT done:
 - Since two weeks ago (8/8/2019) [46076 jobs Waiting]
 - ~12800 Done at BNL (in one day)
 - ~15000 Done at KEKCC (in 14 days)
 - Now job draining at KEKCC (downtime 20-26/8)
 - 29946 waiting (22 Merge waiting)
 - Exp3 DONE, Exp7 1 trans waiting (>1000 input files, fixed)
- I'd like to process Bucket7 on the grid
 - ALL at BNL, if possible! How?
 - All files are already staged





Good, Bad (, and Ugly) Runs

- Proc9 <u>https://agira.desy.de/browse/BIIDP-1712</u>
- Bucket7 https://agira.desy.de/browse/BIIDP-1746
- How to provide good/bad runs to users:
 - a. Restrict access to bad runs (setfacl)
 - Error safe for users
 - What if you want to look at bad runs specifically?
 - b. Different path for bad runs: eg
 - .../bucket7/e0008
 - I.../bucket7/e0008/BadRuns/
 - Should be safe also for users
 - c. Or in run directory name:
 - ...bucket7/e0008/r01917_bad
 - Was done for early processing for exp3.
 - Not very safe is user glob.glob("bucket7/e0008/r0*")
 - d. Or for both bad and good:
 - .../bucket7/e0008 for all runs
 - sym link to .../bucket7/e0008/(GoodRuns|BadRuns|UglyRuns)/

• I prefer solution b) or d).

All solution requires today some manual work by DataProcessing





Good/Bad Runs: longer term



- No solution based on path on filesystem is a long term one.
 - Eventually mdst will be on grid (only).
 - It is not easy (or possible) to change path.
 - We could change the metadata for each file (eg "bad" for bad runs), but it would require non negligible work.
- A better solution should involve basf2 framework
 - Feed basf2 (and/or gbasf2) with a centrally-blessed list of good runs
 - There could be more than one
 - Eg: If you are not using muons and/or KL, KLM problems do not affect your analysis
 - Framework skip bad runs according to list.
- It could be a payload in DB, that would allow easy distribution of updates
 - Default is run on good runs only, unless user explicitly ask otherwise.

Online vs Offline # events in run



