

VELO performance monitoring

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Note:

- *I took over the responsibility of the VELO performance monitoring (not to be confused with online monitoring - Kurt)*
- *No results presented here*
- *More of a report on where we are and a wish list*

Status and wish list

- ❑ We need to set up monitoring procedures to check quality of data offline
 - complementary to online monitoring
- ❑ Really gives the “green line” for full reconstruction
- ❑ Some ideas already on the market and being discussed
- ❑ Concrete plans to be presented in the near future
- ❑ E.g.: - set up a central DQM place to store ROOT files, log files, etc.?
 - introduce data quality flags?
- ❑ Need to differentiate data quality on a run/fill from long-term monitoring
 - long-term monitoring deals with degradation of VELO performance over time ...

Monitoring in reconstruction

Brunel

- ❖ Requested that every sub-detector runs monitoring algorithms in Brunel to assess data quality
- ❖ VELO has nothing present at the moment ☹
⇒ working now on integrating “basic” monitoring ...

VeloClusterDataMonitor & VeloTrackDataMonitor

- ❖ The 2 algorithms to run in Brunel (at least)
- ❖ New Python options exist to run VELO monitoring sequence
- ❖ And Python options for the algorithms
- ❖ All in CVS

- ❖ Running in Brunel with last tagged version crashes badly
- ❖ Some improvements added
- ❖ Some more or less serious bugs found and fixed
- ❖ Hope for a fully working sequence by the end of the day ...