

Full data stream today

- Split binary stream into
 - Event data to .slcio file
 - All others (VFE, FE, Caen, SC, ...) to database
- Additional collections written during conversion
 - RunInfo, RunSummary
- Hand-written data known at run-time
 - Cable maps, position setup
- Hand-written data available only after analysis
 - Calibration constants, dead/noisy cells, data quality

Processing of Raw LCIO files

- Usually this is the standard reconstruction
- Requires database access, since not all information needed is available at conversion = creation time of raw .slcio files (remember that converter is run directly after data taking)
- Less interesting for the average user, since raw files are centrally processed and users are encouraged to start from reco files
- Standardized running of conversion step (automatic job generation) underway. Should put users in the position to process individual runs when necessary w/o the need to wait for central processing

Processing of reco files

- Various different applications with different scope
 - Technical studies (evtl. require config information)
 - Low-level analysis (calib constants)
 - High-level analysis (physics)
- In principle possible to include conditions data from DB into reco files
- Hard to judge which information is needed - all?

To be done

- In case we agree to write reco files in a way that processing does not require DB access
 - Need to set up clever way to store data into file (not sure whether something suitable exists already)
 - Need to revisit beamline handling (RunInfoProcessor auto-accesses database because it needs run end)
 - Positive: reading of conditions data is transparent, data stored in file (evtl. Outdated) can always be superseded by other data source (like database)