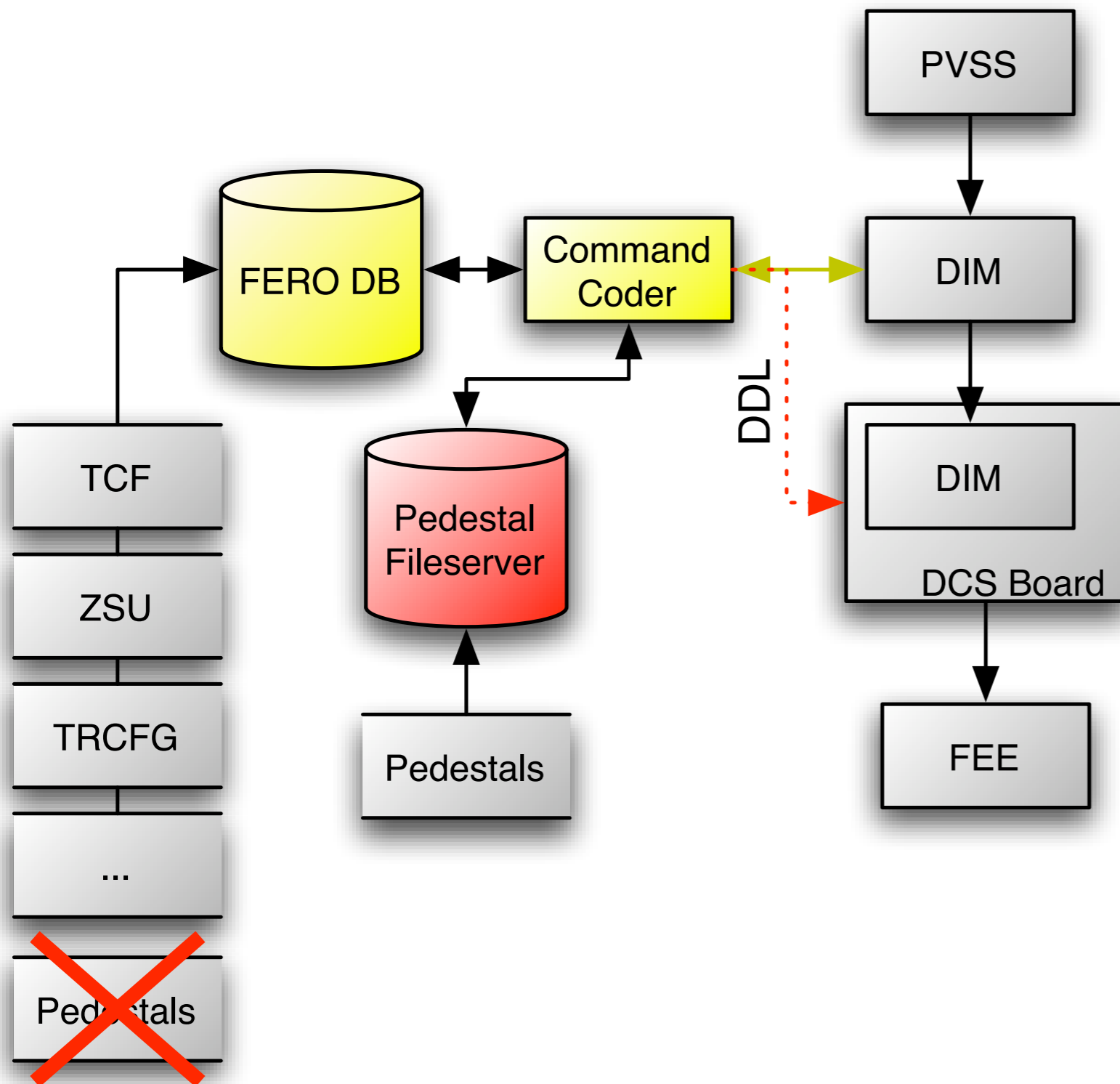


FEE Configuration

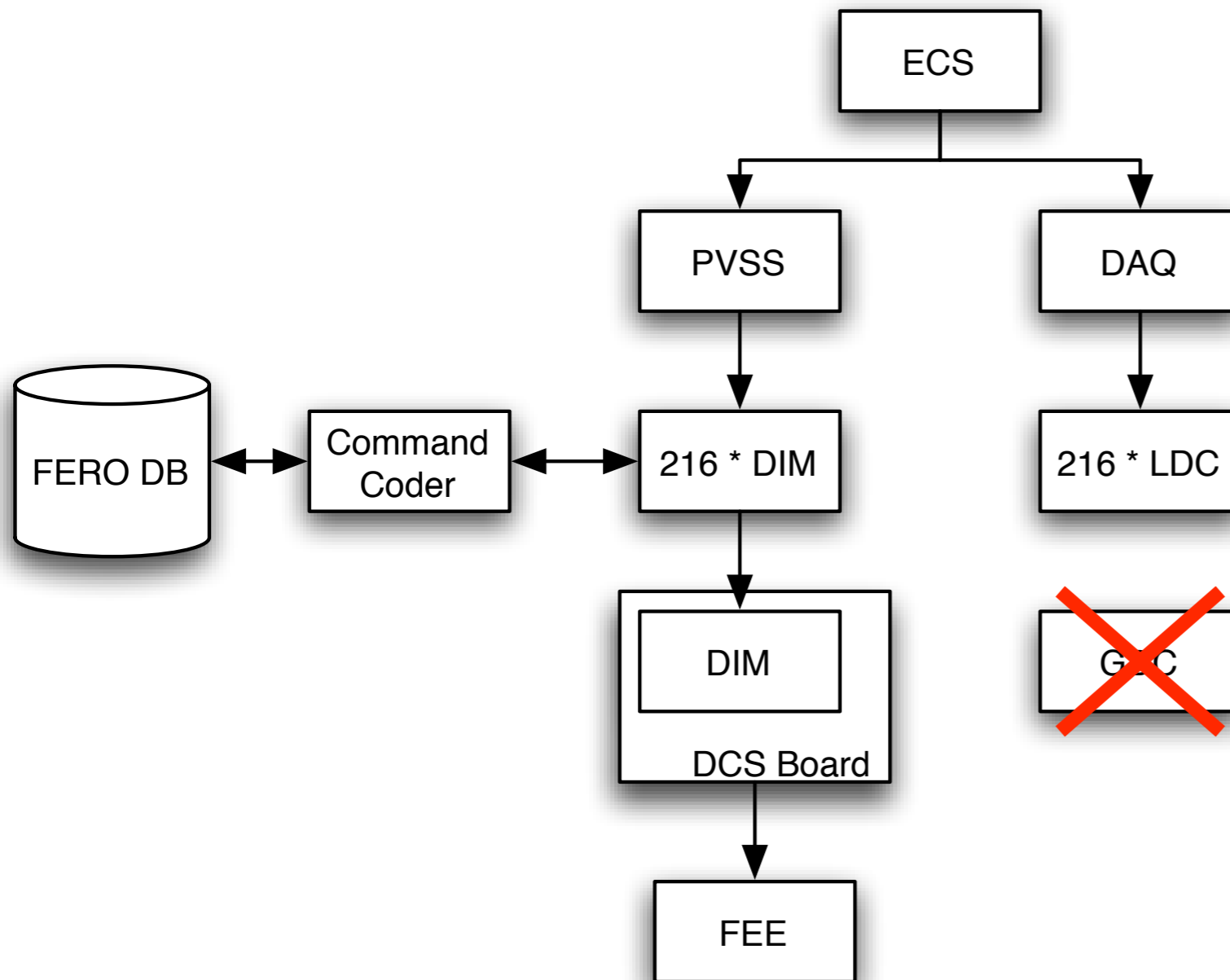


- Command Coder
- implemented
- tested
- FERO DB
- speed test
- final Layout
- Pedestal Fileserver
- DDL
- embed in DCS,
include in DIM, DDL
Access Library

ALTRO Parameter

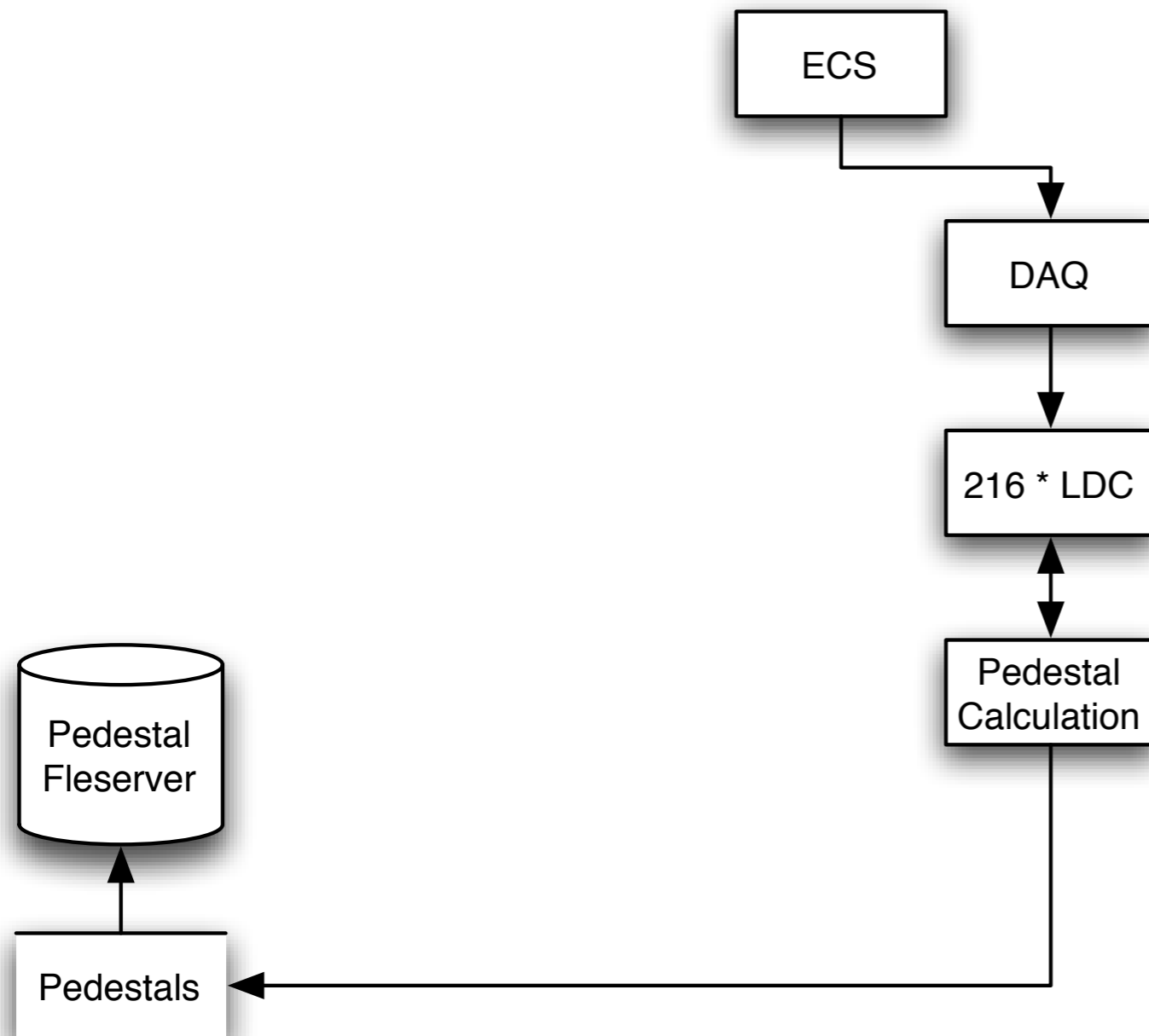
- BCSI (needed for Cosmics)
 - implemented, tested
 - quality check, embedding in DCS/DAQ/HLT
- TCF (needed for Pb-Pb)
 - implemented, tested, processing time
 - quality check, test data, needed granularity
- MAF/ZSU (needed for Pb-Pb)
 - scheme, partially implemented, educated guess is enough for low occupancy data
 - implementing, testing, quality check

BCSI



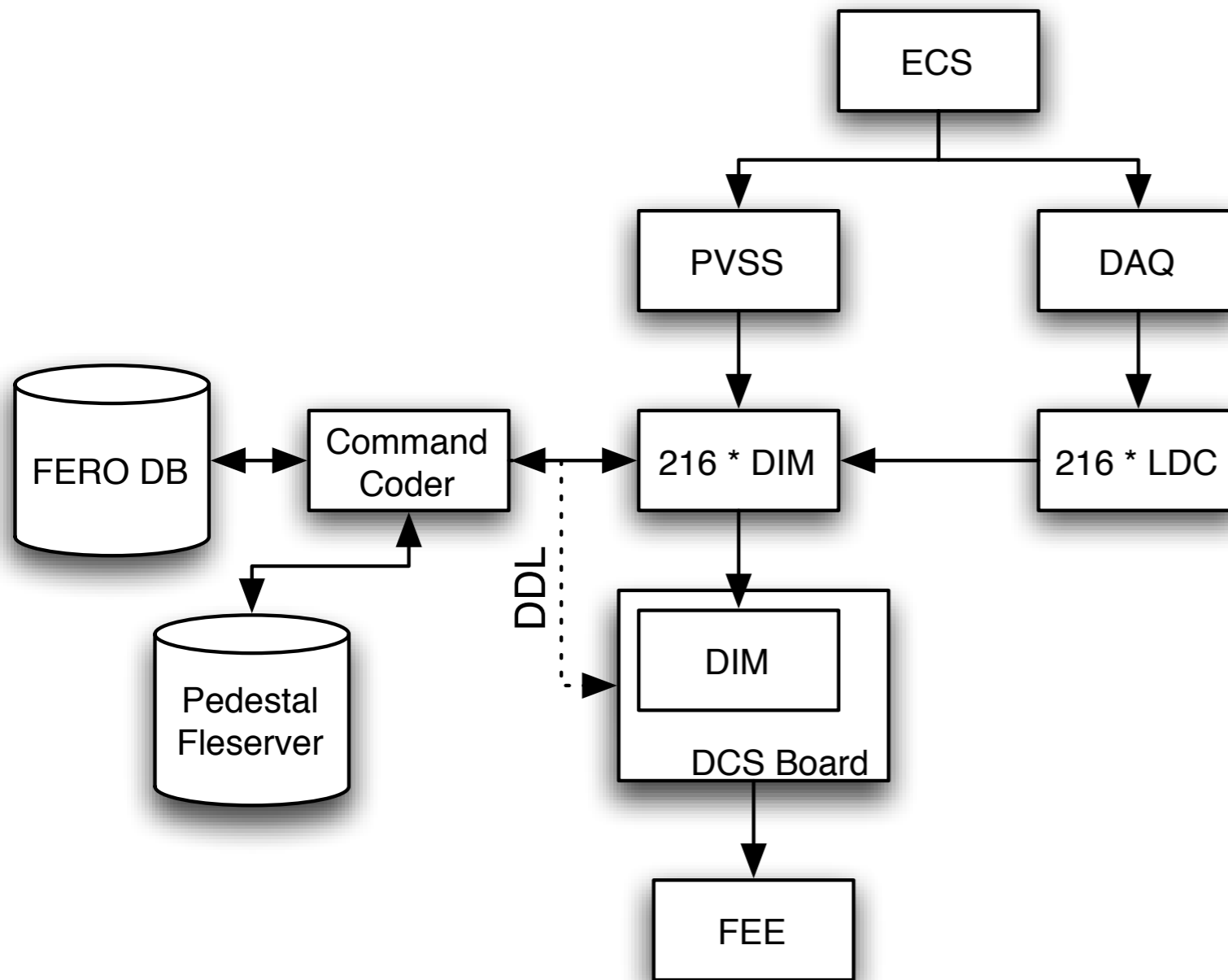
- Set Pedestal run
- FEE minimally configured
- n Events are stored temporarily at the LDC's

BCSI



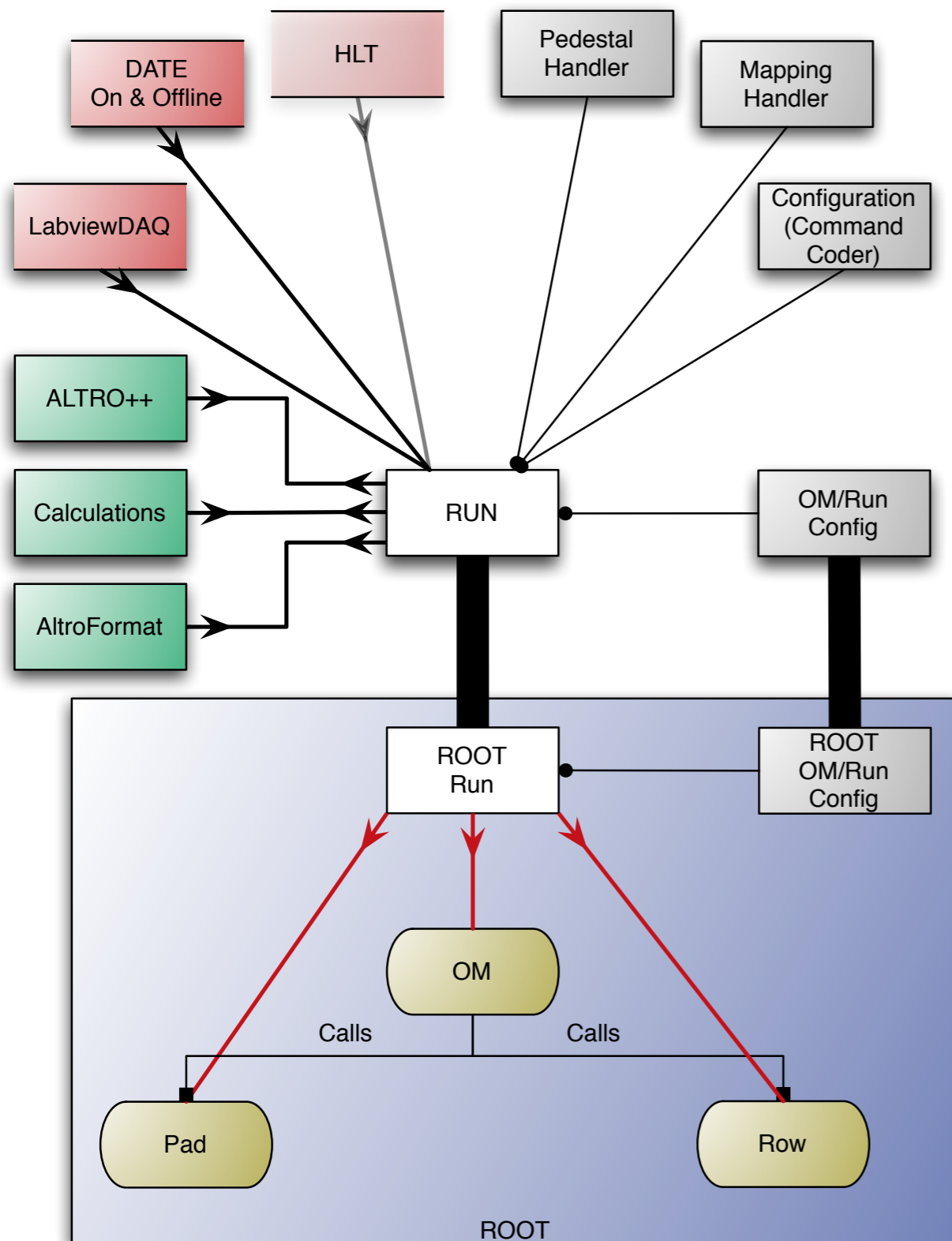
- Data is processed on the LDC's in parallel
- Data is copied to the Pedestal File Server

BCSI



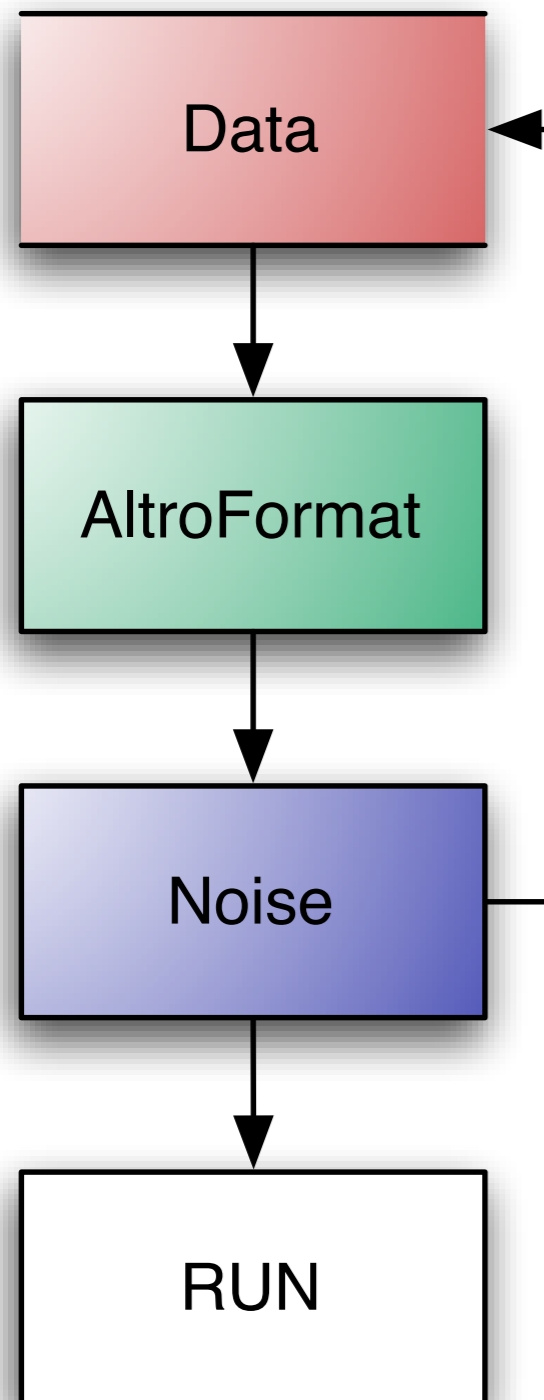
- Configure Pedestals from File Server
- Configure Pedestals from LDC's

Specialised Pad Monitor



- Displays Raw Data of Detector (Black, compressed, ...)
- Displays detector specific Information (Configuration, Pedestals, ...)
- Connect to HLT, DCS, DAQ
- is Core for the ALTRO Parameter extraction Software
- Will be adjusted to the actual needs of the TPC

Data Quality Monitor

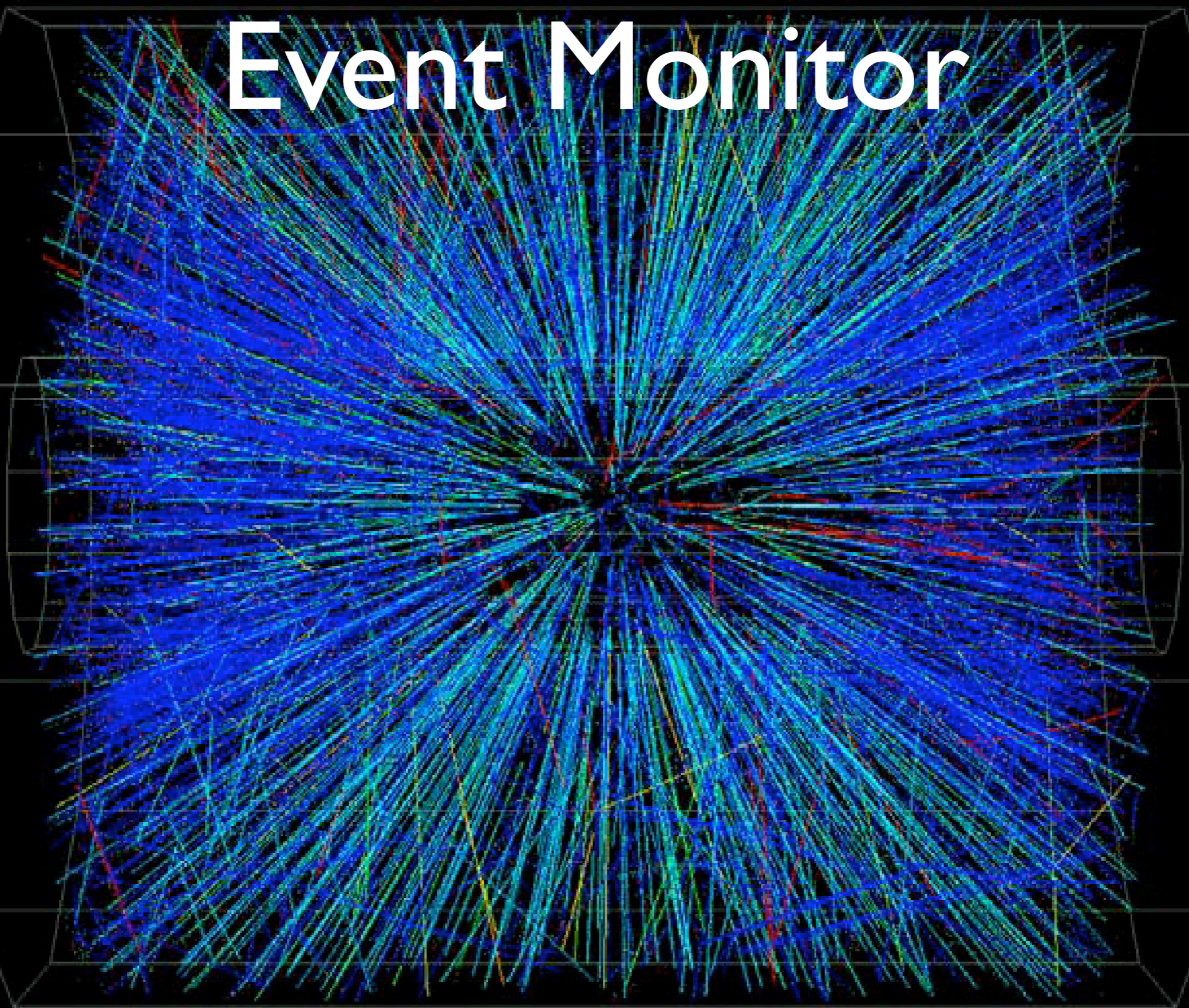


- temporary solution for cosmics
 - Add automatic Loop for n Events
 - Display noise level on Topview, Noise Spectrum on Pad view
 - Baseline Distribution
 - Check of TTCRX stability
- Gating Grid gets Trigger from LTU
RCU from TTCRX
- ⇒ observe time offset

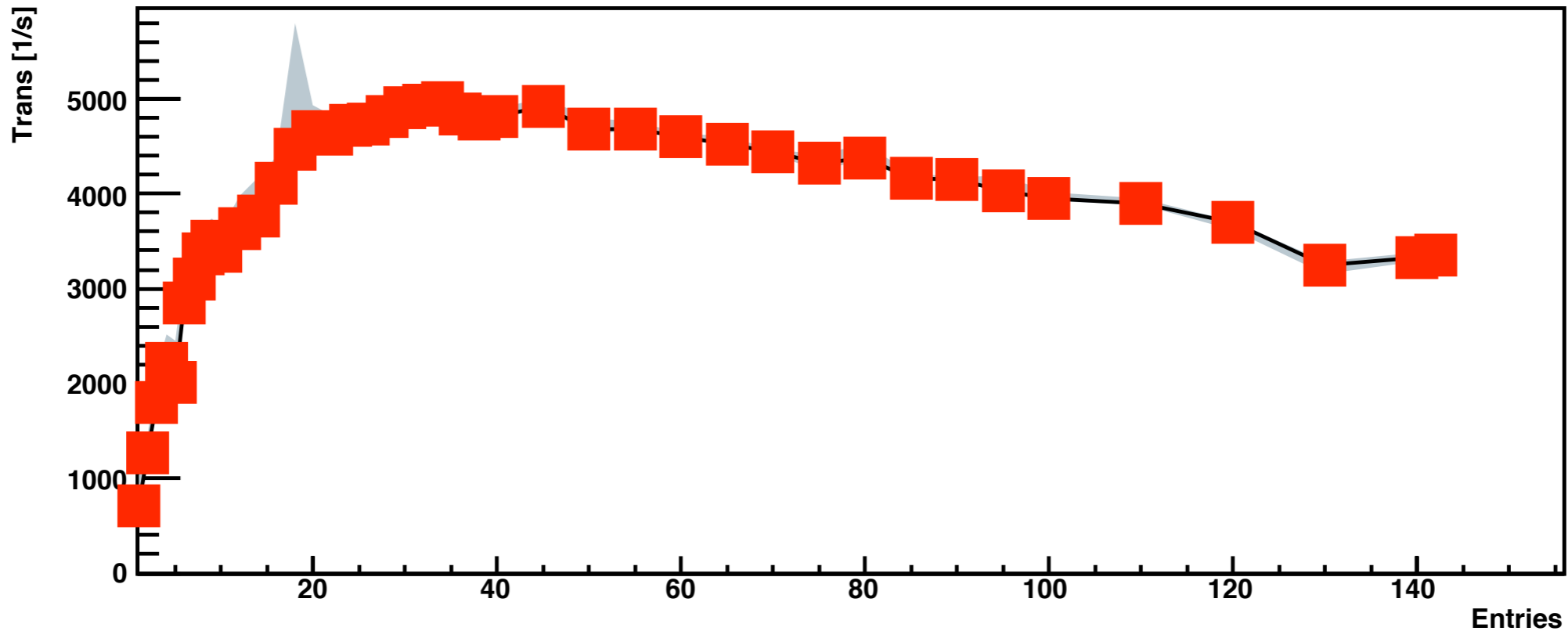
(Raw) Data Quality Monitoring

- which quantities should be monitored
(noise, ...)
- resource need
(CPU time, Memory, update rate, ...)
- where to run
(part of HLT, part of DAQ, independent)

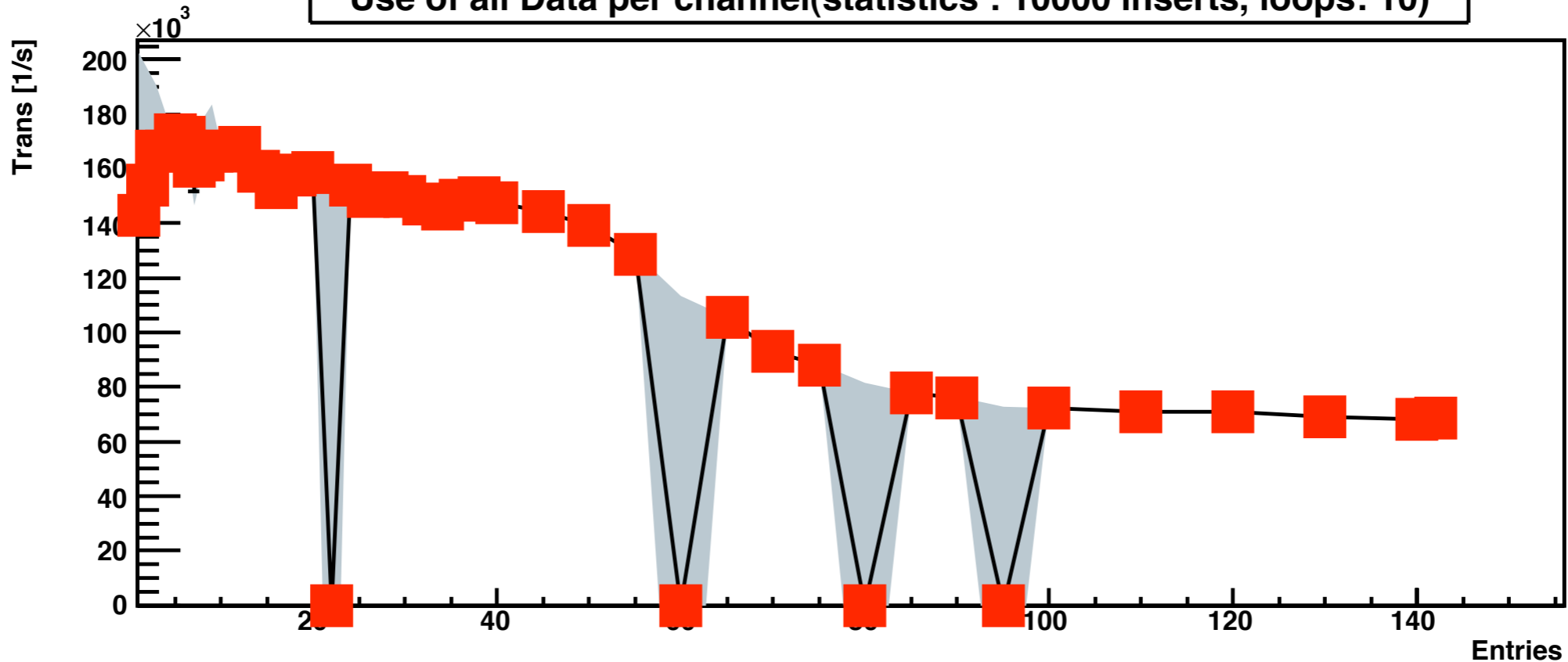
Event Monitor



Inserts of one Channel per second (statistics : 10000 inserts, loops: 10)



Use of all Data per channel (statistics : 10000 inserts, loops: 10)



Available Librarys

- Mapping **IROC**, **OROC**
 - includes ALTRO “Mapping”, ALTRO Adress
 - several Formats (Global, Sector, RCU)
 - Mapping Handler Class exists
- DATE IO & Format
 - for File IO and online monitoring IO
 - encapsulated the DATE Format
 - supports several DATE Formats automaticially

- On TPC FEC Tester
- Prioritised ToDo List