

Software development for EMC/HEC combined TestBeam

HEC TestBeam software can run in **athena** framework.

Current Status

- † Step 1 : Read EPIO data in TDS (Transient Data Store).
- † Step 2 : Produce a Ntuple for offline analysis.

Plans

- † Step 3 : Produce a Histogram for online monitoring.
- † Step 4 : Extend the software to include **EMC** data.
- † Step 5 : Incorporate new software(DataBase) as it becomes available (e.g. store pedestal in “*conditions database*”).

Athena LArg HEC TestBeam software

There are three packages for LArg HEC TestBeam.

- **LArHECTBCnv**

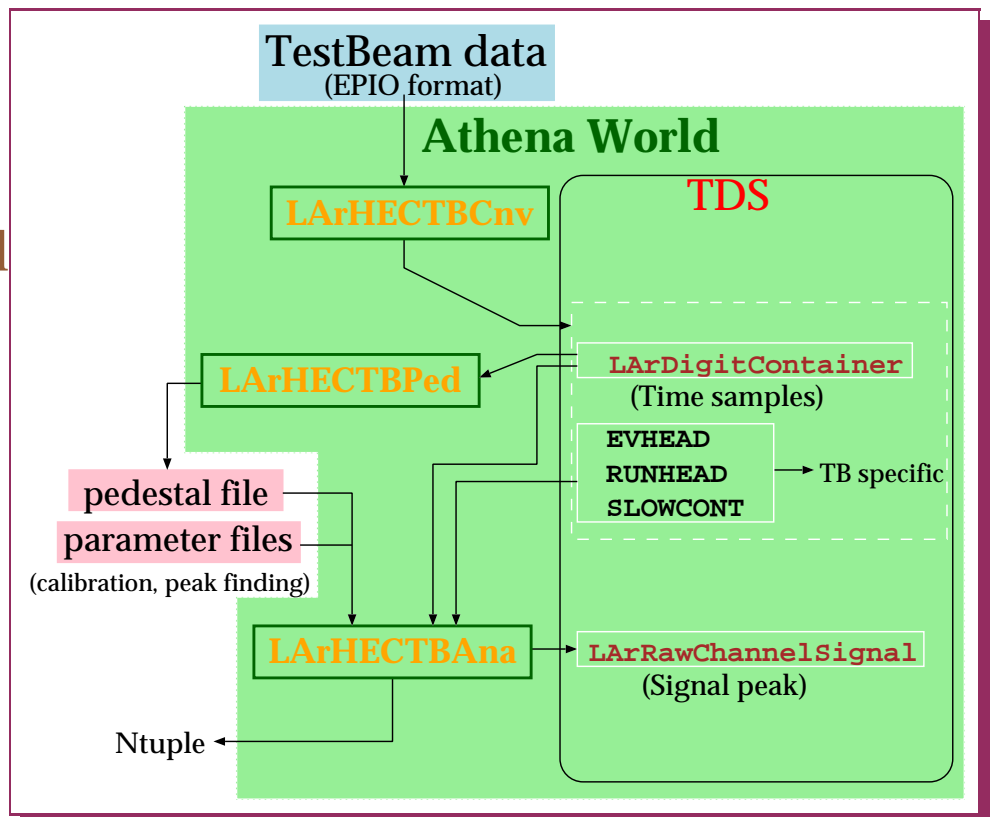
Convert from EPIO to TDS.

- **LArHECTBPed**

Read TDS data and produce a pedestal
ascii file. (→ will move to DataBase)

- **LArHECTBAna**

Read TDS data, process them (pedestal
subtraction, peak finding, calibration)
and produce a Ntuple.



LArHEC TestBeam software Milestone

- LArHEC tutorial Oct 12, 2001
- Analysis package for HEC Nov, 2001
- Extended package including EMC data ???, 2002
- **EMC/HEC Combined TestBeam** Jul, 2002