Athena Status

Release 3.0.x

Official release

Release 3.1.0

This will be removed from the official release (many packages are not available).

Release 3.2.0

deadline : May 21th

- **Access method to TDS data is changed.**
  - **LArDigitContainer is left out of LArHECTBEvent.**
  - **EMEC data is also included.**
    - $\Rightarrow$ **See LArExample/TestLArHECTBCnv**

- **LArTestBeam repository will be moved under LArCnv**

- **HEC/EMEC ROD data are available.**
  - **For HEC, the code was included and tested.**
  - **For EMEC, the code is still dummy.**
  (Data was not taken successfully in the last technical run.)

Athena Status - Plan 4.0.0

Deadline June 11th (probably delay?)

We'll complete LArHECTB software here for TestBeam (at least functions to access TDS data)

- **LArHECTBMon (for monitering) will be commited and tagged (by R.Mcpherson).**

- **Include the unpacking function for EMEC-ROD data.**
  → Documentation already exists, but we cannot test our package until taking data.

- **Use Conditions DataBase.**

- **Use Common DataObject class with LArTBCnv (ROOT I/O (ROOT binary ↔ TDS) will be prepared for this class)**
  → TDS data access method will be changed

Condition DataBase

ConditionsDB API

- **MySQL based.**
- **Use BLOB (Binary Large OBject) column type.**

Constant data to reconstruct signal

- Pedestal data set
- Digital filtering weights
- Calibration constant
- HV cabling data

$\rightarrow$ CondiionsDB
or
Ascii input

† **Use ConditionsDB if ascii file is not given in JobOptions file.**

‡ **Geometory information is moved to LArHECTBCnv to complete LArDigit class.**

Status

- **Some data are available in BNL server**

- **Tested with LArHECTBAna package**

- **This package is still under development and not implemented in athena framework officially.**
  $\rightarrow$ **we might have to have our own version of ConditionsDB package**

Toward to TestBeam

TODO

- **Fix TDS data access method.**

- **Make documentations to use and modify package**

- **Prepare some scripts for**
  - **visualizing database for debug**
  - **storing and updating database**

- **Modify codes to reconstruct EMEC signal**

- **Show some performance**
  (long-run stability, MySQL connection etc.)

  The above should be done before the next larg week... ?

- **Complete unpacking method for EMEC data.**

- **Others ?**

Questions

- **By whom (and how) constant data will be provided during TestBeam?**

- **something else?**