



# ACORDE OFFLINE STATUS



## OUTLINE

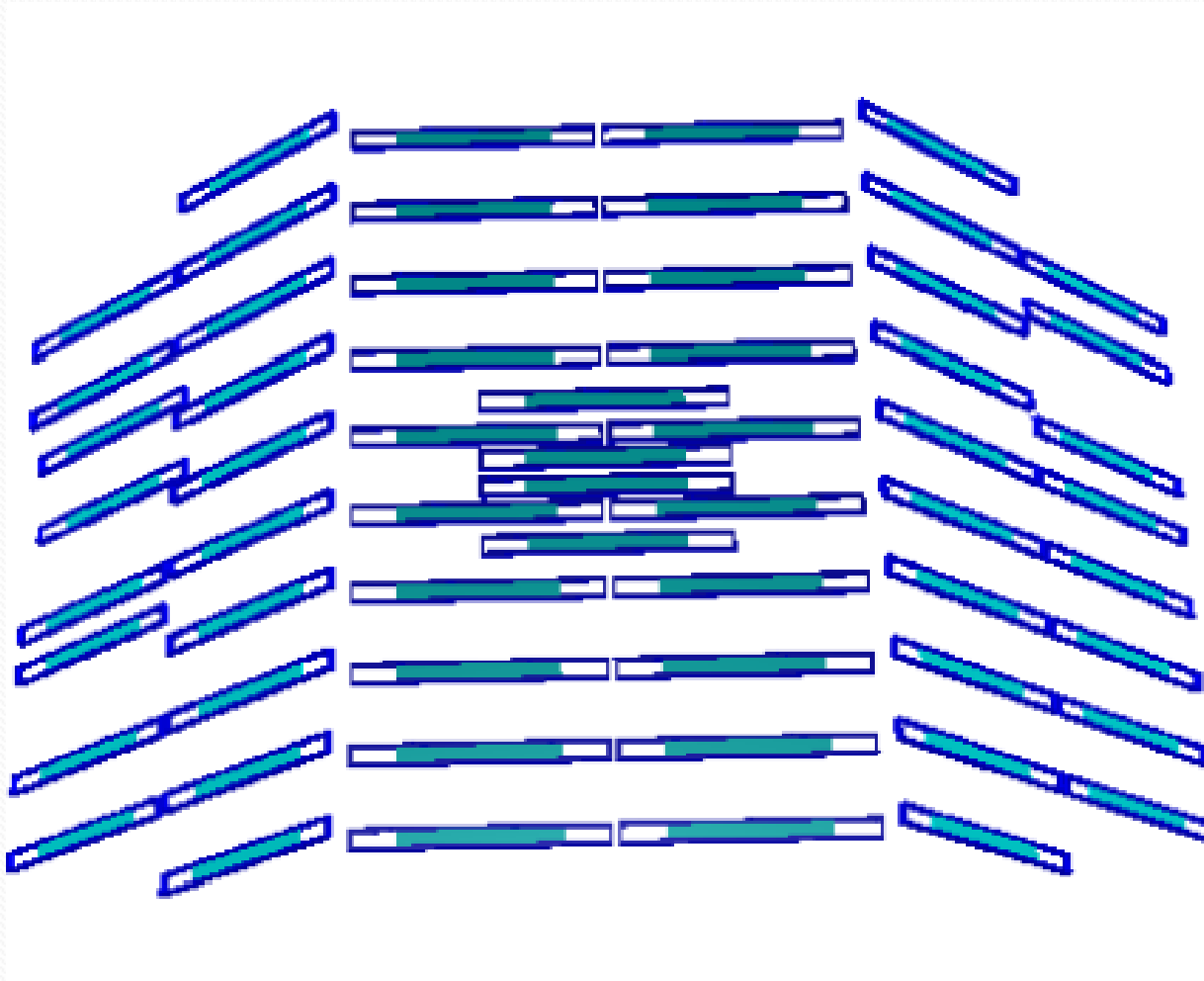
- ACORDE Visualization
- Raw Data
- Shuttle

# ACORDE WITHIN ALIEVE

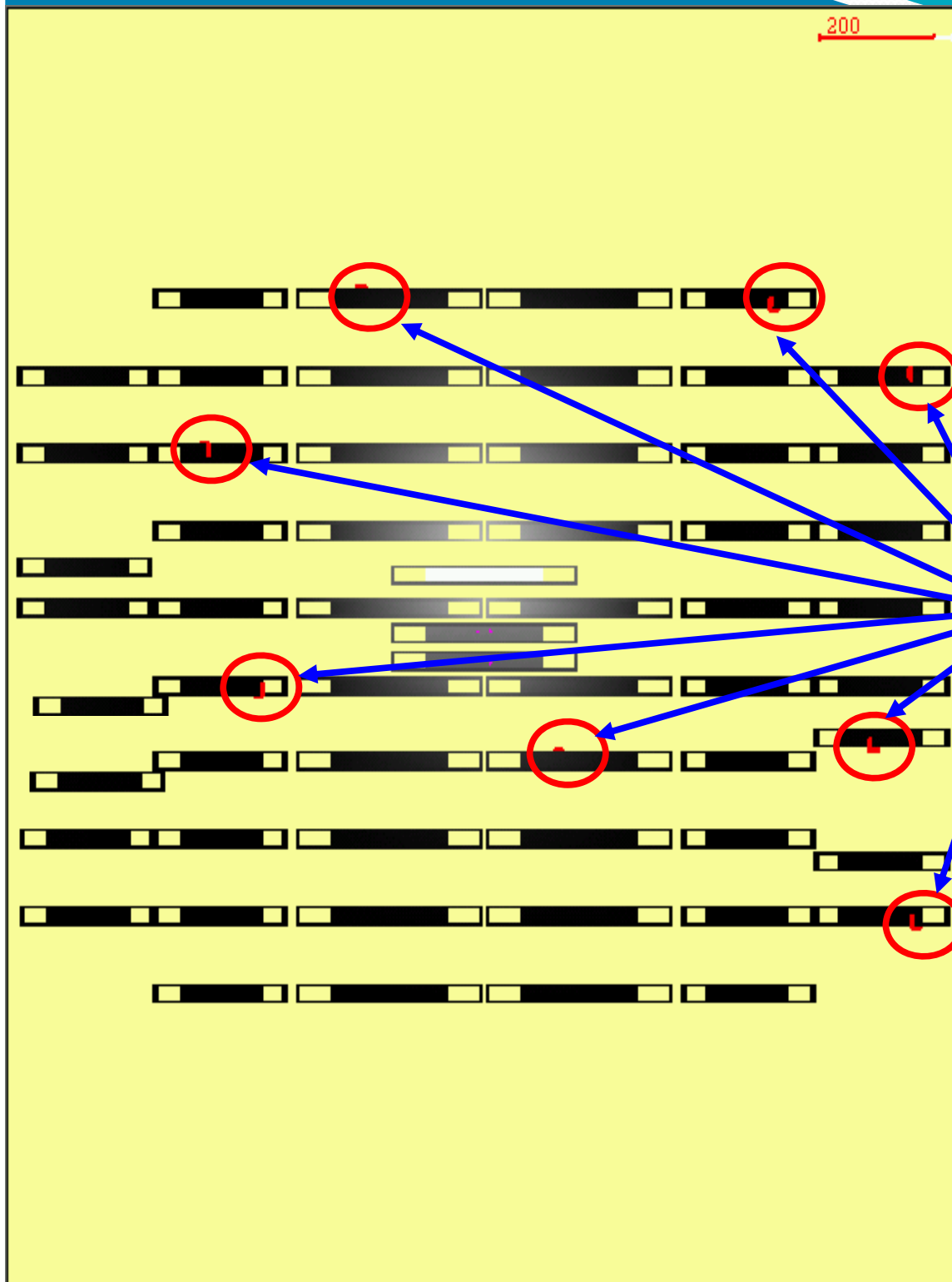
Two new macros within Alieve,

- a) geom\_acorde.C
- b) hits\_acorde.C

Macros in CVS



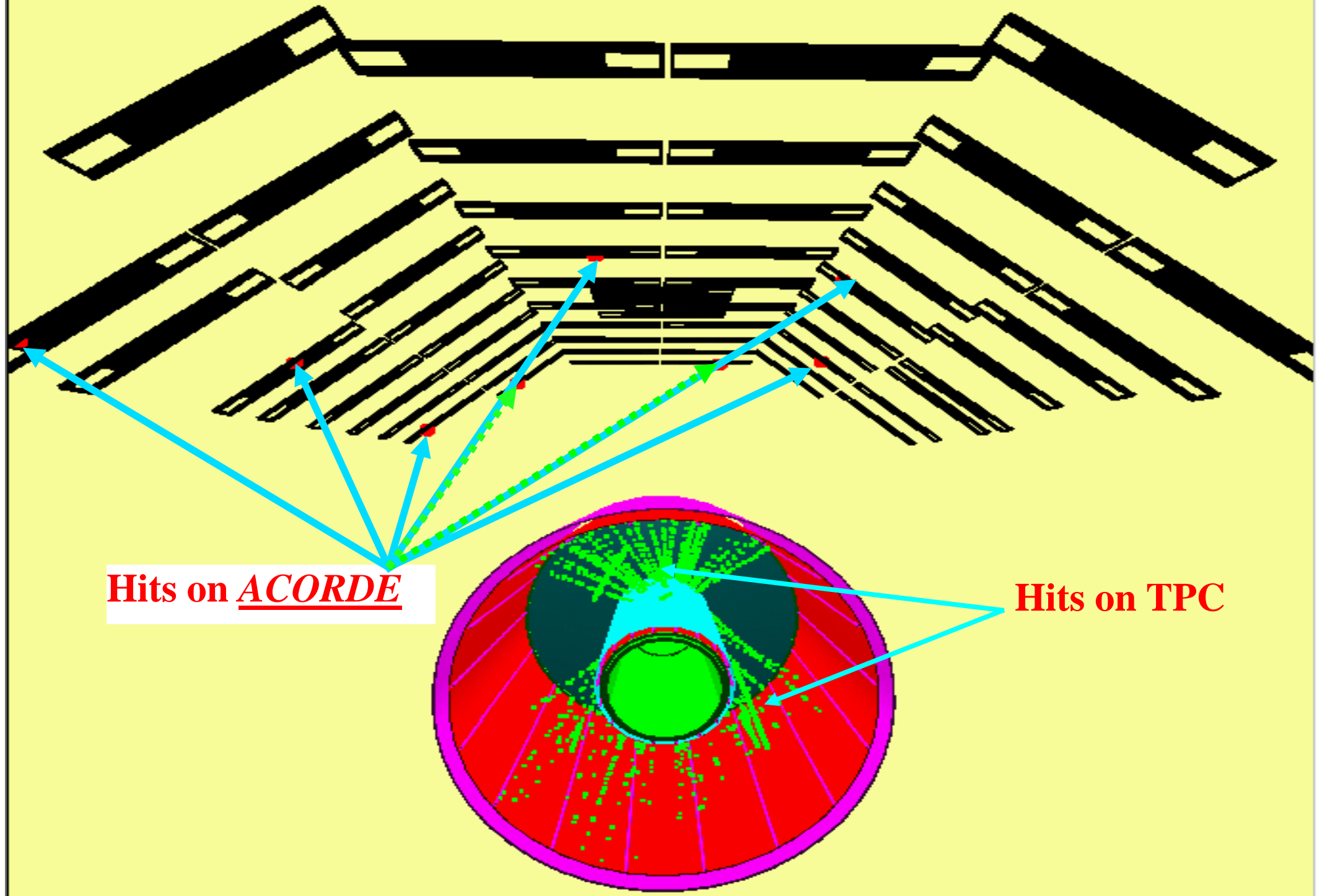
Display of ACORDE,  
using geom\_acorde.C



**Hits of muons on ACORDE  
modules  
(using hits\_acorde.C in Alieve)**

**The hits are from cosmics  
generated**

# COSMICS ON ACORDE AND TPC



Hits on ACORDE

Hits on TPC

## Raw Data

Word 9: bits 1 to 30 --> Modules 1 to 30  
bits 31-32 = '00'

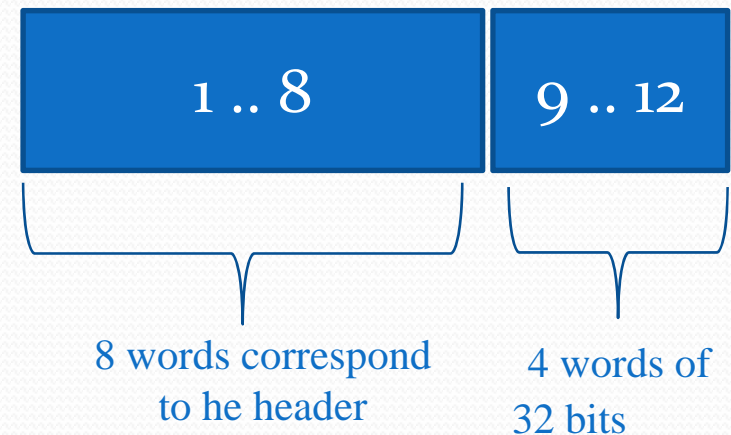
Word 10: bits 1 to 30 --> Modules 31 to 60  
bits 31-32 = '01'

Word 11: bits 1 to 30 --> Modules 1 to 30  
bits 31-32 = '10'

Word 12: bits 1 to 30 --> Modules 1 to 30  
bits 31-32 = '11'

Words 9 and 10 are the single muon  
trigger

Words 11 and 12 are the multi muon  
trigger





## Raw data

### Data

- Two triggers: single and multi muon
- Four words

### Idea

- Set on/off a bit if the corresponding module has a digit
- Two 32 bit word for single muon trigger
- Same for the multimMuon trigger

# Digits

## Idea

- Digit per module, not per plastic
- hit + efficiency (from DB like file) + coincidence=digit
- local: energy threshold, time window

## Classes

### AliACORDEdigit

- digit
- Digitizer
- CalibData



## Raw Data Status

### Classes in to the CVS AliACORDE

#### □ RawData

- First implementation for ACORDE Raw Data

#### □ digit

- Definition of Digits data type

#### □ Digitizer

- This class constructs Digits out of Hits

#### □ CalibData

- Data type for calibration



## To Do

- Now we are working on AliACORDERawStream We can not extract information from DAQ ROOTfiles.

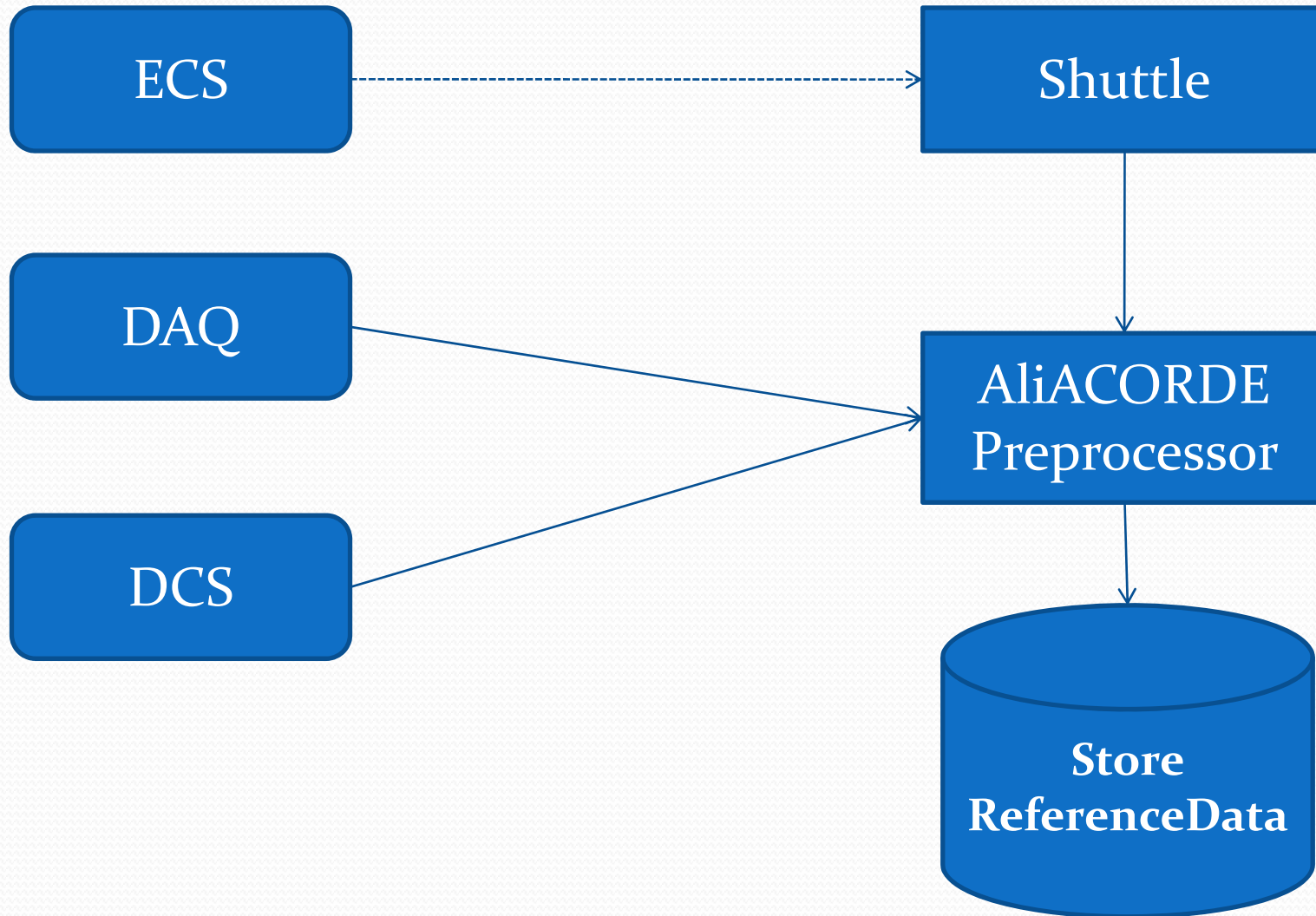


## Shuttle

### ACORDE DA

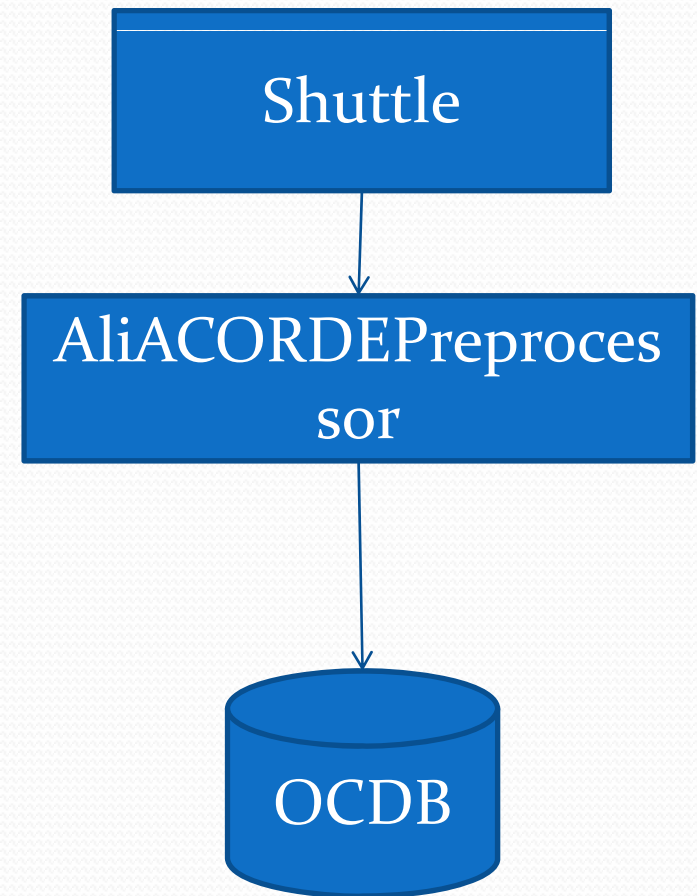
- Raw data from DAQ
- Compute rate of each ACORDE module
- Create calibration histograms
- Save files into the FXS to be processed by the SHUTTLE

# Shuttle



## ACORDE Preprocessor Class

- Gets the rate of each ACORDE module from DAQ FXS
- Gets HV of each ACORDE module from DCS
- Store Reference Data



## Shuttle Status

- AliACORDEPreprocessor in AliRoot v4-06-Release
- DCS Data Points Defined

To do

- Implementation of the AliACORDEDACS class
- Test algorithm