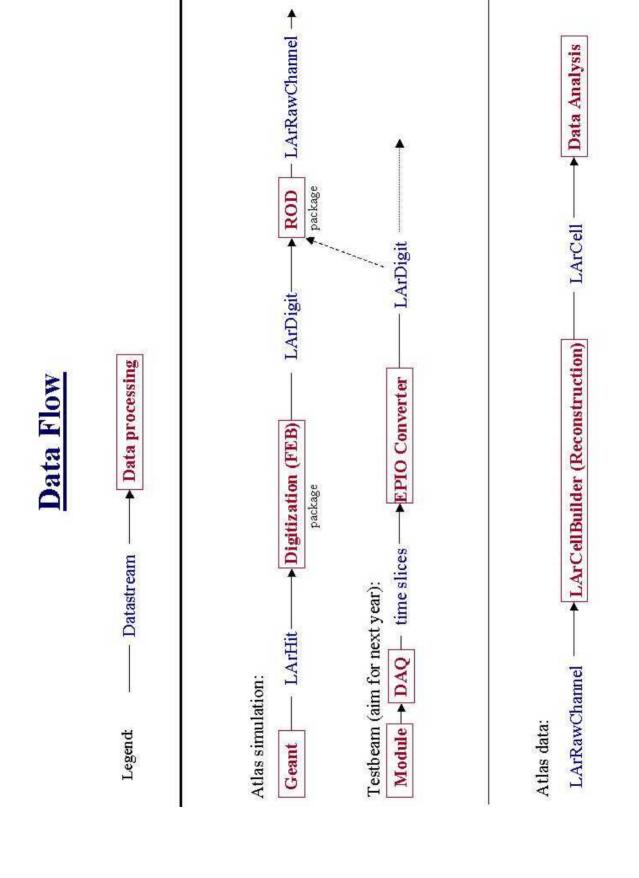
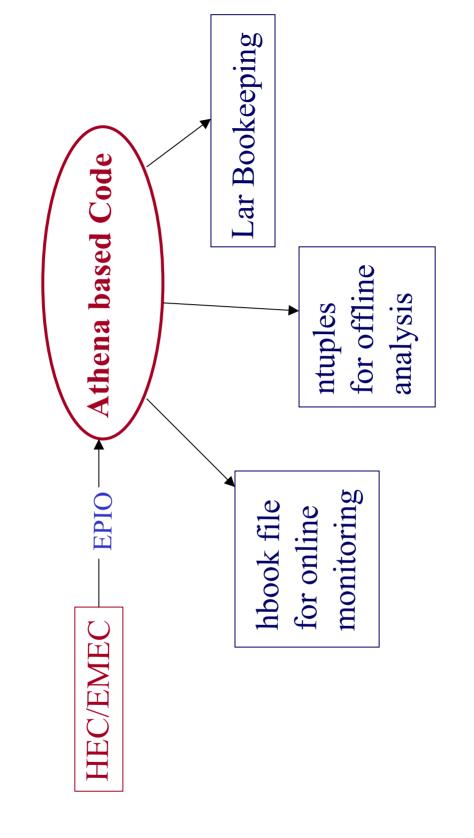
Moving towards an OO Data Format

- Atlas data will be stored in an OO format
- Simple overview of data flow
- Testbeam data will be a good opportunity to gain experience with OO data
- hec_adc laid out in an OO philosophy
 "road map" is intended to be a guide for C++ code development
- First step 'EPIO converter' by Naoko Kanaya (next talk) already accomplished





Milestones:

1. EPIO converter *

2. Hec_adc ntuple (Dec.?)

Click here ---> [] to start hec_adc road map

Some useful taod map overview figures!
hec_adc top level ps file
hec_online tree ps file
hec_online_pass1 ps file
packages 1st page, 2nd page, 3rd page, 4th page, 5th page

hec_adc.f [#]

is the overall steering routine. It calls:

hec_ini.f
hec_offline.f or: hec_online.f
hec_ter.f

hec_offline.f [#]

(is called by: **hec_adc.f**)

Includes the following commons:

hec_par.inc hec_datacard.inc

This is the steering routine for running things offline. The following routines are called:

hec_offline_ini.f

This calls routines which read the run header, slow control info and set the tdc wrap-around constants.

hec_packages

This calls a number of subroutines that deal among others with: pedestals, pulseheights, correlations, beam chamber reconstruction, calibration

user ini

This does nothing unless the user changes it

hec_pass1 hec_pass2 hec_pass3

These routines do seperate passes over the data.

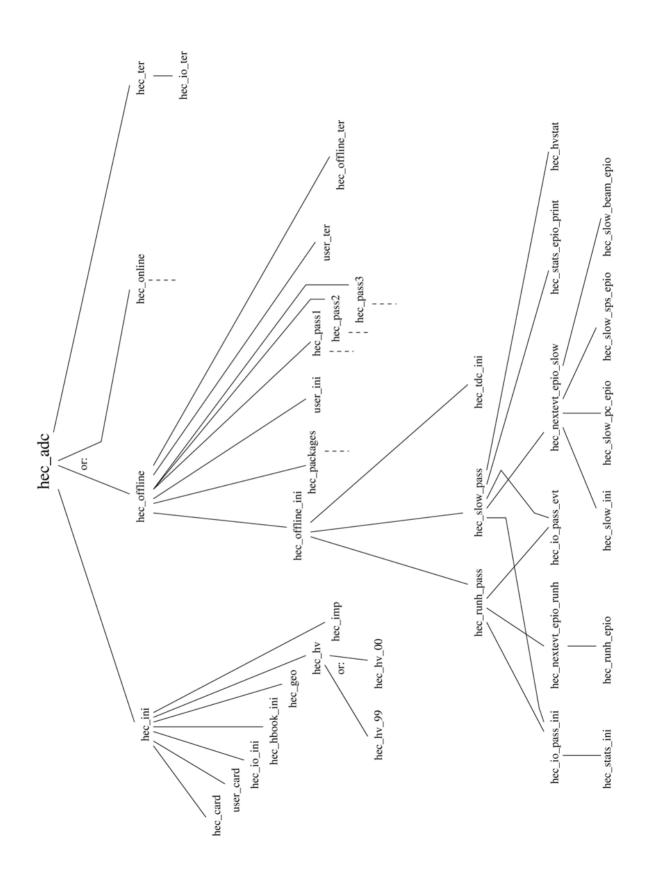
The user can include his or her stuff into the user routines here.

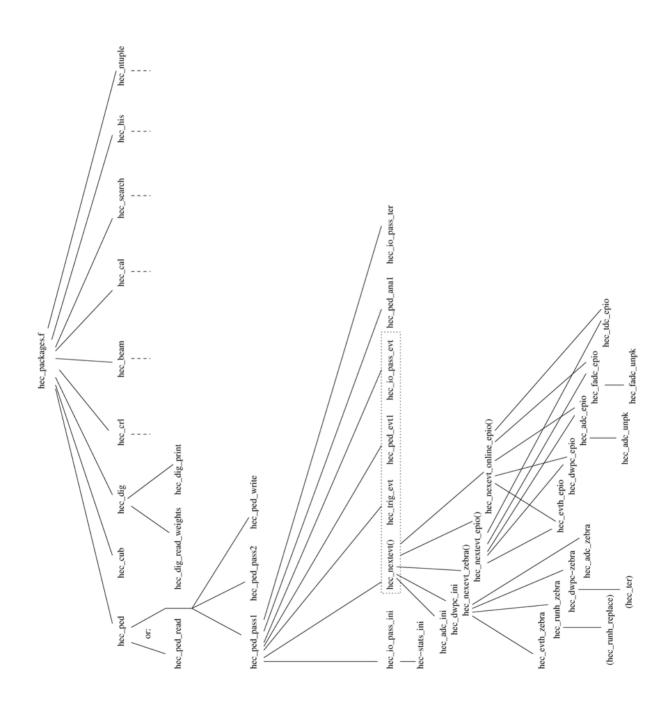
user_ter

This does nothing unless the user changes it.

hec_offline_ter

```
subroutine hec_offline
С
c offline mode of hec_adc
      implicit none
c user datacard values common
      include'hec_par.inc'
                             !shared parameters
      include'hec_datacard.inc' !datacard values
С
c offline initialization
     call hec_offline_ini
c call system packages main routine
С
     call hec_packages
c user global initialization
C
     call user_ini
c pass 1 over data set for user
      if (n_pass .ge. 1) call hec_pass1
c pass 2 over data set for user
      if (n_pass .ge. 2) call hec_pass2
С
c pass 3 over data set for user
С
      if (n_pass .ge. 3) call hec_pass3
С
c user termination
     call user_ter
C
c offline termination
      call hec_offline_ter
C
      end
```





Summary

- hec_adc "road map" has been created to be a guide for C++ code development
- Next talk by Naoko Kanaya: EPIO converter