Subject: Event Display in fairroot
Posted by Raghav Kunnawalkam on Mon, 27 Feb 2012 21:32:53 GMT

View Forum Message <> Reply to Message

Hi All

I am trying to create a simple EIC detector based on fairroot and i am starting with the examples in fairroot. The example rutherford was pretty simple to understand and i got the run_rutherford.C to run pretty well.

But there are 2 things that i do not understand.
1. I am not able to see the root histograms in the output file test.mc.root, I would like to know where i can go and create my own root output file with say a histogram showing the range in angle phi (which would be the most obvious plot for look at for this experiment).

2. Event display seems to be a big problem.
    a. first of all inside eventdisplay.C i see that it loads a library libCbmRutherford.so which i do not have in my system. I am pretty sure that i do not create it also.
    b. Secondly, there are lots of problems with it loading libraries. when i commented out gsystem->Load("libCbmRutherford"); root gives me an error saying

Processing eventDisplay.C...
dyld: lazy symbol binding failed: Symbol not found: __ZN10FairLogger9GetLoggerEv
  Referenced from: /Users/raghav/fairroot/build/lib/libParBase.so
  Expected in: flat namespace

dyld: Symbol not found: __ZN10FairLogger9GetLoggerEv
  Referenced from: /Users/raghav/fairroot/build/lib/libParBase.so
  Expected in: flat namespace

    I can assure you that i have all these files linked properly and available at their location.

My system is Mac OS X 10.7.3 (64bit) and XCode 4.2.1.

Any help will be appreciated.
Many thanks

Subject: Re: Event Display in fairroot
Posted by Mohammad Al-Turany on Mon, 27 Feb 2012 22:24:42 GMT

View Forum Message <> Reply to Message

Hallo Raghav,

Quote:1. I am not able to see the root histograms in the output file test.mc.root, I would like to know where i can go and create my own root output file with say a histogram showing the range in angle phi (which would be the most obvious plot for look at for this experiment).

Did you create any histograms? the default output is in the tree called "cbmsim" in the root file

Quote:2. Event display seems to be a big problem.
a. first of all inside eventdisplay.C i see that it loads a library libCbmRutherford.so which i do not have in my system. I am pretty sure that i do not create it also.
b. Secondly, there are lots of problems with it loading libraries. when i commented out gsystem->Load("libCbmRutherford"); root gives me an error saying ...

This was a typo (cut and paste!!) I correct it now in svn.

Quote:dyld: Symbol not found: __ZN10FairLogger9GetLoggerEv
Referenced from: /Users/raghav/fairroot/build/lib/libParBase.so
Expected in: flat namespace

I can assure you that i have all these files linked properly and available at their location.

We miss the loading of the libFairTools in the event display.C macro, now it is added

Sorry for that, but this example is new and we did not test it as you could see!

best regards

Mohammad

Subject: Re: Event Display in fairroot
Posted by Raghav Kunnawalkam on Mon, 27 Feb 2012 23:16:49 GMT
View Forum Message <> Reply to Message

Hi Mohammad

Thanks a lot. Now i see that it works but i am still not able to see the individual events in the display. I only see the experimental set up.

I also understand (i think) now how to create those histograms. all the "leaves" in the root files are data entries and i call them inside a macro to create my histograms. That should not be a problem.