Subject: New Update causing problems and Output Data analysis
Posted by Raghav Kunnawalkam on Tue, 29 May 2012 18:18:18 GMT
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Hi All

Firstly i wanted to report the new update of fairroot that i did (this morning) is giving me some errors while loading libBase.so

dlopen error: dlopen(/Users/raghav/fairroot/build/lib/libBase.so, 9): Symbol not found: __ZTI6TProof
  Referenced from: /Users/raghav/fairroot/build/lib/libBase.so
  Expected in: flat namespace
 in /Users/raghav/fairroot/build/lib/libBase.so
Load Error: Failed to load Dynamic link library /Users/raghav/fairroot/build/lib/libBase.so
(int)(-1)
root [1]

Now I have some questions regarding the meaning of some of the leaves in the standard output format.

1. For example say that i have all the hits in the ECAL of my detector presented as

Is there a way that i can identify what particle exactly went where, like what is the particle that caused the peak about 2radians.

2. I think that there should be a way to get that information like we did during the radiation length analysis like

track->GetMomentum(), GetTheta etc..., is there a way like this to get the energy of the particle that it deposited or should i calculate it from the other ways.

3. I dont know what these leaves mean, in the root file that is produced generally.
for example, MCTrack.fNPoints, .fMotherId, .fPdgCode (i can guess what thas, but still it doesnt make sense)

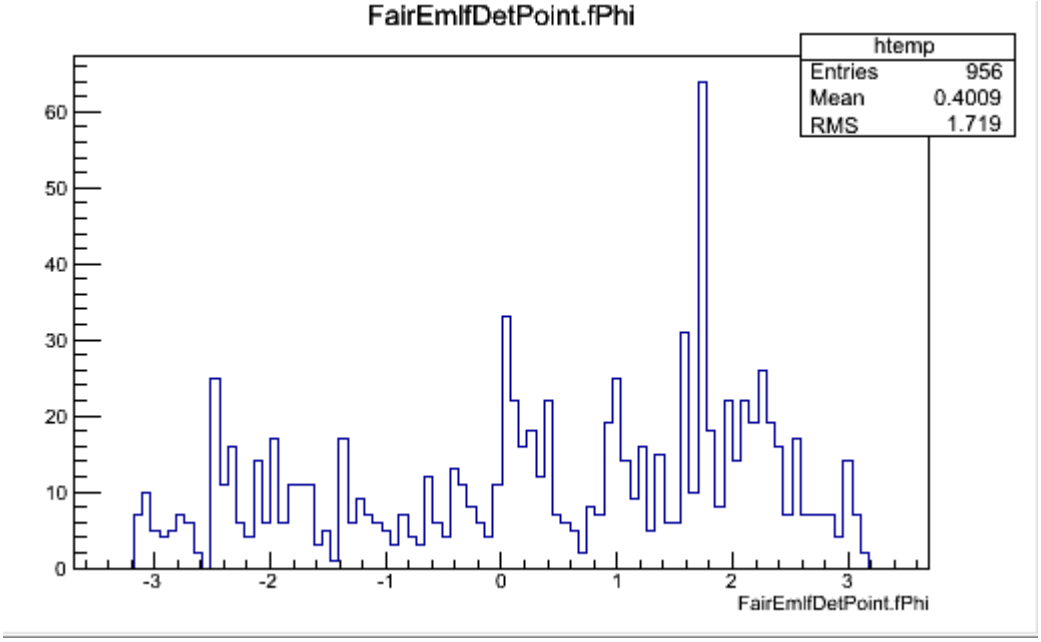
And i would really appreciate it if someone can tell me what do these following plots mean, and why root crashes i try to open the GeoTracks branch

Thanks a lot for all your help
Cheers
Raghav

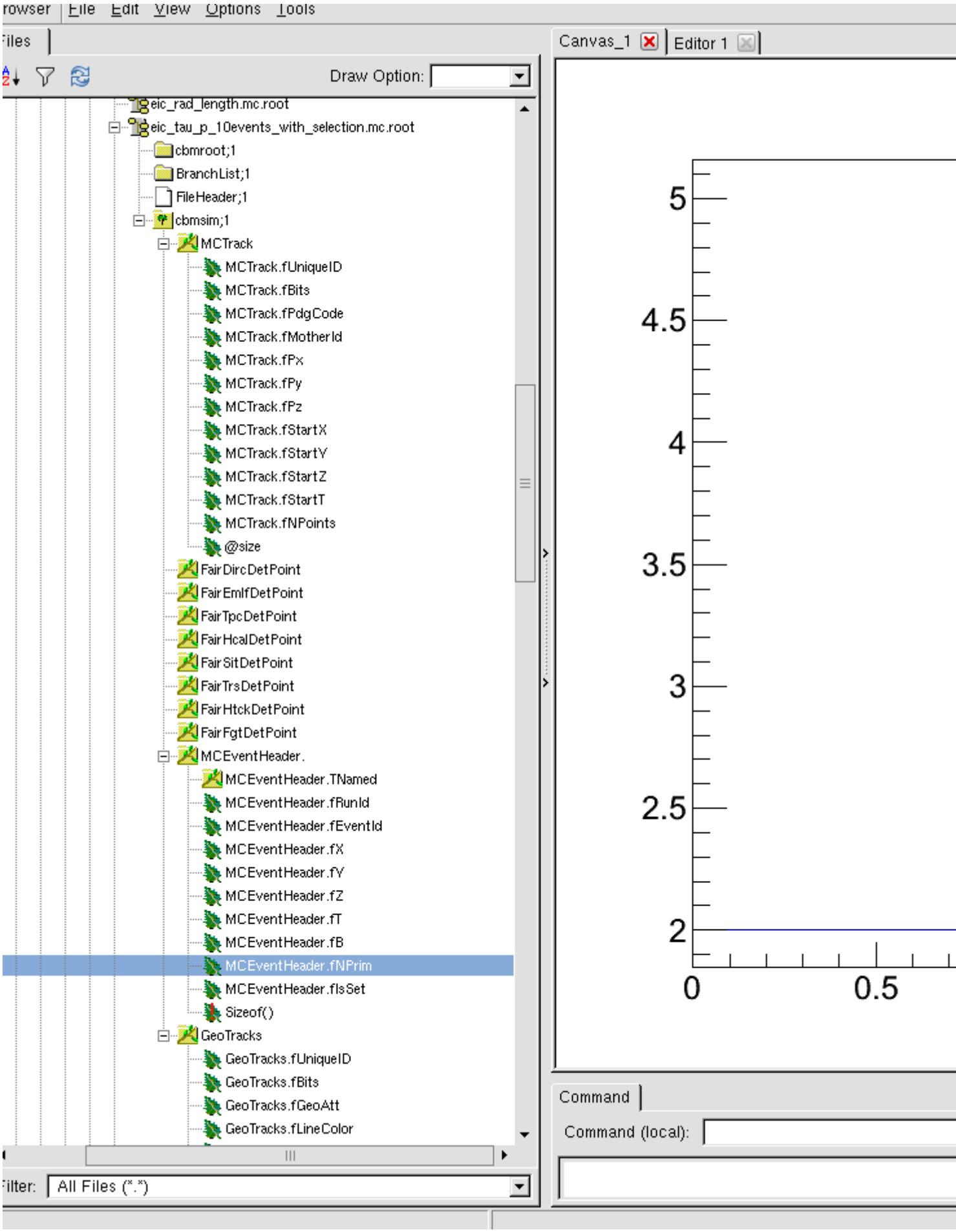
File Attachments

1) Screen Shot 2012-05-23 at 6.15.03 PM.png, downloaded 1677

times

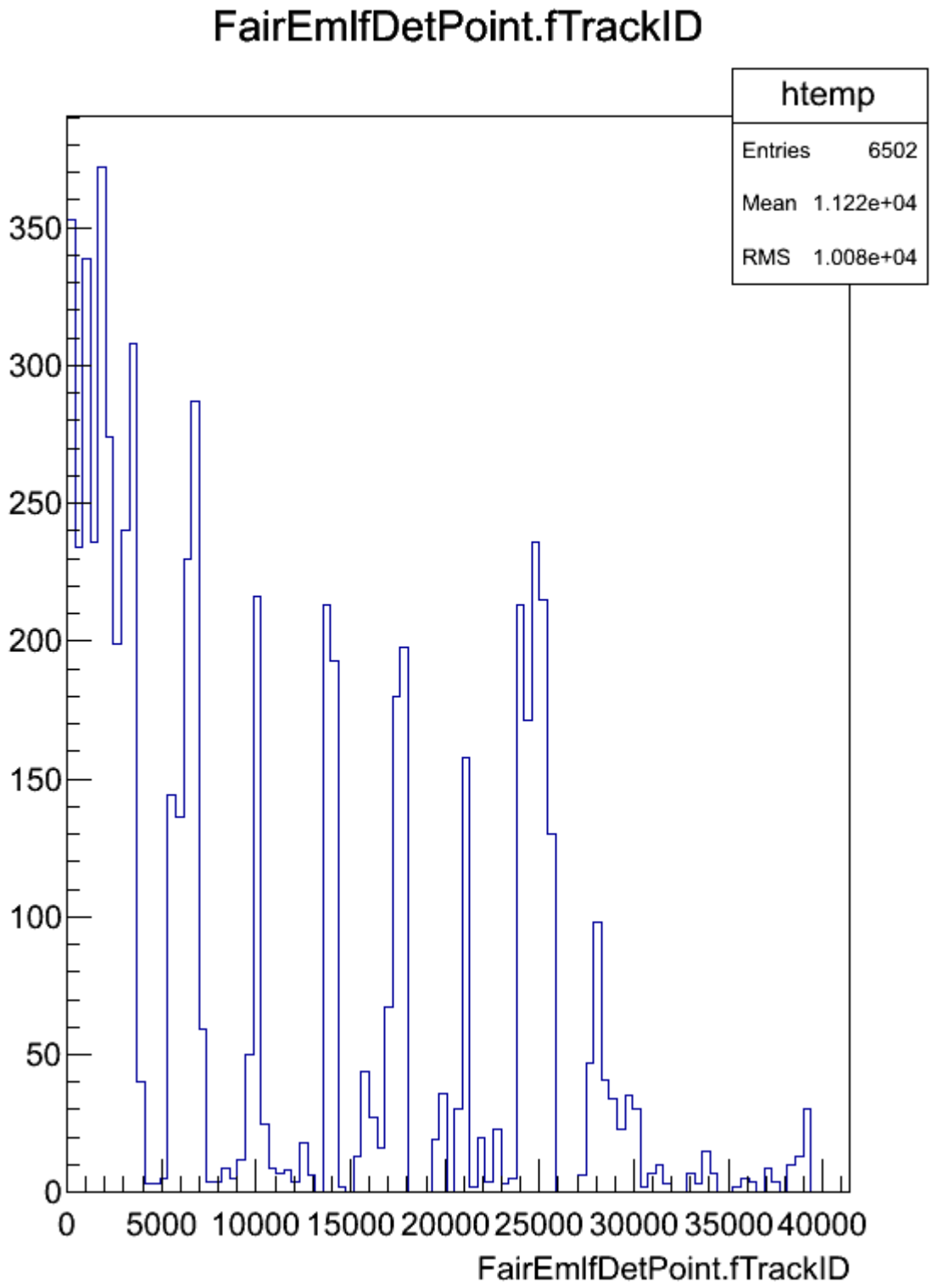


2) Screen Shot 2012-05-29 at 1.57.40 PM.png, downloaded 1600 times



3) Screen Shot 2012-05-29 at 1.33.00 PM.png, downloaded 1565

times


FairEmlfDetPoint.fTrackID
htemp
Entries 6502
Mean 1.122e+04
RMS 1.008e+04
350
300
250
200
150
100
50
0
0 5000 10000 15000 20000 25000 30000 35000 40000
FairEmlfDetPoint.fTrackID