Subject: bug in Eta_c digitization
Posted by Gianluigi Boca on Sun, 02 Oct 2011 21:14:35 GMT
View Forum Message <> Reply to Message

hi,
I am running the Eta_c simulation, with the present (29 sep 11) trunk version of the code.

I use :

pandaroot/macro/run/tdrct/eta_c/run_sim_stt_evt.C

at everything is good.

Then I run

pandaroot/macro/run/tdrct/eta_c/run_digi_stt_evt.C

and I get the messages below. After that the reconstruction
never finds any event.
Please experts (Mohammad ? Tobias ?) comment.
Thanks in advance Gianluigi

Processing run_digi_stt_evt.C...
Info in (PndGeoHandling::Instance): Making a new instance using the framework.
Info in <PndSdsHybridHitProducer::PndSdsHybridHitProducer>: MVD Hybrid Hit Producer created, Parameters will be taken from RTDB
[INFO] The input consists out of the following trees and files:
[INFO] - cbmsim
[INFO]   - evt_points_stt.root
[INFO] Parameter and input file are available, Assure that basic info is there for the run!
[INFO] The number of entries in chain is 10
[INFO] Branch: EventHeader. not found in Tree
[INFO] Branch: EventHeader. not found in Tree
[INFO] No event Header was found!!!
[INFO] Branch: EventHeader. not found in Tree
[INFO] Branch: EventHeader. not found in Tree
Error in <TExMap::Remove>: key 16777472 not found at 411
Warning in <TBufferFile::CheckObject>: reference to object of unavailable class TObject, offset=16777472 pointer will be 0
Error in <TExMap::Remove>: key 65536 not found at 147
Warning in <TBufferFile::CheckObject>: reference to object of unavailable class TObject, offset=65536 pointer will be 0
Error in <TExMap::Remove>: key 65537 not found at 148
Warning in <TBufferFile::CheckObject>: reference to object of unavailable class TObject, offset=65537 pointer will be 0
Error in <TExMap::Remove>: key 4552816 not found at 164
Warning in <TBufferFile::CheckObject>: reference to object of unavailable class TObject, offset=4552816 pointer will be 0
Error in <TExMap::Remove>: key 541286774 not found at 427
Warning in <TBufferFile::CheckObject>: reference to object of unavailable class TObject, offset=541286774 pointer will be 0

Error in <TBufferFile::CheckByteCount>: object of class PndCave read too few bytes: 113 instead of 115
Error in <TExMap::Remove>: key 1163133008 not found at 336
Warning in <TBufferFile::CheckObject>: reference to object of unavailable class TObject, offset=1163133008 pointer will be 0
Error in <TExMap::Remove>: key 1634168421 not found at 392
Warning in <TBufferFile::CheckObject>: reference to object of unavailable class TObject, offset=1634168421 pointer will be 0
Error in <TBufferFile::CheckByteCount>: object of class PndMagnet read too few bytes: 119 instead of 121
Error in <TBufferFile::CheckByteCount>: object of class PndMagnet read too few bytes: 92 instead of 94
Error in <TExMap::Remove>: key 5262916 not found at 28
Warning in <TBufferFile::CheckObject>: reference to object of unavailable class TObject, offset=5262916 pointer will be 0
Error in <TExMap::Remove>: key 542140784 not found at 343
Warning in <TBufferFile::CheckObject>: reference to object of unavailable class TObject, offset=542140784 pointer will be 0
Error in <TBufferFile::CheckByteCount>: object of class PndPipe read too few bytes: 43 instead of 45
Error in <TExMap::Remove>: key 1178683730 not found at 310
Warning in <TBufferFile::CheckObject>: reference to object of unavailable class TObject, offset=1178683730 pointer will be 0
Error in <TExMap::Remove>: key 541353332 not found at 86
Warning in <TBufferFile::CheckObject>: reference to object of unavailable class TObject, offset=541353332 pointer will be 0
Error in <TBufferFile::CheckByteCount>: object of class FairDetector read too few bytes: 116 instead of 122
Error in <TBufferFile::CheckByteCount>: object of class FairDetector read too few bytes: 106 instead of 112
Error in <TBufferFile::CheckByteCount>: object of class FairDetector read too few bytes: 98 instead of 104
Error in <TBufferFile::CheckByteCount>: object of class FairDetector read too few bytes: 114 instead of 120
Error in <TBufferFile::CheckByteCount>: object of class FairDetector read too few bytes: 100 instead of 106
Error in <TBufferFile::CheckByteCount>: object of class FairDetector read too few bytes: 90 instead of 96
Error in <TExMap::Remove>: key 875954240 not found at 364
Warning in <TBufferFile::CheckObject>: reference to object of unavailable class TObject, offset=875954240 pointer will be 0
Error in <TExMap::Remove>: key 4604233 not found at 274
Warning in <TBufferFile::CheckObject>: reference to object of unavailable class TObject, offset=4604233 pointer will be 0
Error in <TExMap::Remove>: key 1952801652 not found at 226
Warning in <TBufferFile::CheckObject>: reference to object of unavailable class TObject, offset=1952801652 pointer will be 0
Error in <TBufferFile::CheckByteCount>: object of class FairDetector read too few bytes: 101 instead of 104
Error in <TBufferFile::CheckByteCount>: object of class FairDetector read too few bytes: 89 instead of 95
Info in <TGeoManager::TGeoManager>: Geometry Geometry, default geometry created

Warning in <TGeoManager::Init>: Deleting previous geometry: Geometry/default geometry
Info in <TGeoManager::CloseGeometry>: Geometry loaded from file...
Info in <TGeoManager::SetTopVolume>: Top volume is cave. Master volume is cave
Info in <TGeoManager::Voxelize>: Voxelizing...
Info in <TGeoNavigator::BuildCache>: --- Maximum geometry depth set to 100
Info in <TGeoManager::CloseGeometry>: 223282 nodes/ 6115 volume UID's in FAIR geometry
Info in <TGeoManager::CloseGeometry>: ----------modeler ready----------

****
initialisation for run id 1075796231
****

Subject: Re: bug in Eta_c digitization
Posted by Mohammad Al-Turany on Sun, 02 Oct 2011 21:33:18 GMT
View Forum Message <> Reply to Message

HI,

I just run the macros you mentioned and it works for me! looking at your output it seems that the output file of the simulation was not closed properly. Did the run_sim_stt_evt.C exit without errors?

Mohammad

Subject: Re: bug in Eta_c digitization
Posted by Gianluigi Boca on Sun, 02 Oct 2011 22:20:35 GMT
View Forum Message <> Reply to Message

Mohammad Al-Turany wrote on Sun, 02 October 2011 23:33HI,

I just run the macros you mentioned and it works for me! looking at your output it seems that the output file of the simulation was not closed properly. Did the run_sim_stt_evt.C exit without errors?

Mohammad

Hallo,
please find in the attachment the log file of the
run_sim_stt_evt.C

Also included there is the complete log file of the

run_digi_stt_evt.C

Cheers Gianluigi

File Attachments
1) run_sim_stt_evt.log, downloaded 437 times
2) run_digi_stt_evt.log, downloaded 478 times

Subject: Re: bug in Eta_c digitization
Posted by Gianluigi Boca on Sun, 02 Oct 2011 22:35:34 GMT
View Forum Message <> Reply to Message

Mohammad Al-Turany wrote on Sun, 02 October 2011 23:33HI,

I just run the macros you mentioned and it works for me! looking at your output it seems that the output file of the simulation was not closed properly. Did the run_sim_stt_evt.C exit without errors?

Mohammad

.... also I should mention that I am running on
lxi013.gsi.de

with externals

/misc/cbmsoft/Etch32/may11/fairsoft

Gianluigi

Subject: Re: bug in Eta_c digitization
Posted by Mohammad Al-Turany on Sun, 02 Oct 2011 22:45:06 GMT
View Forum Message <> Reply to Message

HI,

Can you delete your par file and run again?

Mohammad

Subject: Re: bug in Eta_c digitization
Posted by Gianluigi Boca on Mon, 03 Oct 2011 17:17:15 GMT
View Forum Message <> Reply to Message

Mohammad Al-Turany wrote on Mon, 03 October 2011 00:45HI,

Can you delete your par file and run again?

Mohammad

unfortunately it doesn't help.
Since this week I will be away (at the PSI near Zuerich) I can
send you privately my password so that you can run the code yourself from my area.
Thanks in advance
Gianluigi

Subject: Re: bug in Eta_c digitization
Posted by Dima Melnychuk on Tue, 04 Oct 2011 09:55:01 GMT
View Forum Message <> Reply to Message

Hi,

I can just add that I observe the same error message as Gianluigi,
however the following steps in eta_c reconstruction (reco, pid) work and eta_c are reconstructed with efficiency 14.5% (on GRID with july11 release efficiency - 22.8% and august11 - 10.9%).

However I have no idea what the default geometry is:

Info in <TGeoManager::TGeoManager>: Geometry Geometry, default geometry created
Warning in <TGeoManager::Init>: Deleting previous geometry: Geometry/default geometry

And if it is not he same geometry as used in simulation it can for sure affect the results.

I run simulation on GSI batch farm (lenny64), 5 runs by 1000 events and in each of 5 I see this error message.

And I see the same message on my local computer with Scientific Linux 6.

Dima

Subject: Re: bug in Eta_c digitization
Posted by Dima Melnychuk on Tue, 04 Oct 2011 13:01:54 GMT
View Forum Message <> Reply to Message

Hi,

This error message is related to one of the recent changes (r.13490) in /base/FairModule.cxx.
After moving back to rev. 13489 for FairModule.cxx, FairModule.h the error message disappear.

Dima

Subject: Re: bug in Eta_c digitization
Posted by Mohammad Al-Turany on Tue, 04 Oct 2011 13:03:38 GMT
View Forum Message <> Reply to Message

Hi,

I reproduce this error and it was caused by a change in the FairModule streamer two weeks ago (r13490). Now I revert it and it should work.

Quote:Info in <TGeoManager::TGeoManager>: Geometry Geometry, default geometry created
Warning in <TGeoManager::Init>: Deleting previous geometry: Geometry/default geometry

In a reco session we have first to create a dummy geometry and then import the proper geometry to it and thus this warning.

regards

Mohammad