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Subject: bug in Eta\_c digitization

Posted by [Gianluigi Boca](#) on Sun, 02 Oct 2011 21:14:35 GMT

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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  
\*\*\*\*\*

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Subject: Re: bug in Eta\_c digitization  
Posted by [Mohammad Al-Turany](#) on Sun, 02 Oct 2011 21:33:18 GMT  
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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

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Subject: Re: bug in Eta\_c digitization  
Posted by [Gianluigi Boca](#) on Sun, 02 Oct 2011 22:20:35 GMT  
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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

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- 1) [run\\_sim\\_stt\\_evt.log](#), downloaded 246 times
  - 2) [run\\_digi\\_stt\\_evt.log](#), downloaded 266 times
- 

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Subject: Re: bug in Eta\_c digitization  
Posted by [Gianluigi Boca](#) on Sun, 02 Oct 2011 22:35:34 GMT  
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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

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Subject: Re: bug in Eta\_c digitization  
Posted by [Mohammad Al-Turany](#) on Sun, 02 Oct 2011 22:45:06 GMT  
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HI,

Can you delete your par file and run again?

Mohammad

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Subject: Re: bug in Eta\_c digitization  
Posted by [Gianluigi Boca](#) on Mon, 03 Oct 2011 17:17:15 GMT  
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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

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Subject: Re: bug in Eta\_c digitization

Posted by [Dima Melnychuk](#) on Tue, 04 Oct 2011 09:55:01 GMT

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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 the 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

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Subject: Re: bug in Eta\_c digitization

Posted by [Dima Melnychuk](#) on Tue, 04 Oct 2011 13:01:54 GMT

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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

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Subject: Re: bug in Eta\_c digitization

Posted by [Mohammad Al-Turany](#) on Tue, 04 Oct 2011 13:03:38 GMT

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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

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