Dear pandausers,

I got a strange error I never met before. When I run a digitization macro I have normal output and then problems with a
TStreamerInfo::BuildCheck and later on error related to TBufferFile::CheckByteCount. My only idea is the problem related to the different version of pandaroot I used when my data was produced.

Could someone comment what is wrong and how to fix it?

```
...................
-I- FairRunAna: Opening Input file: run0_mom0.25_phi45_theta155.root
Warning in <TStreamerInfo::BuildCheck>:
   The StreamerInfo of class PndMdt read from file
run0_mom0.25_phi45_theta155params.root
   has the same version (=1) as the active class but a different checksum.
   You should update the version to ClassDef(PndMdt,2).
   Do not try to write objects with the current class definition,
   the files will not be readable.
```

fRun->Init()

```
-I- FairRunAna::Init :
run0_mom0.25_phi45_theta155.root  is connected with:
```

-I- Geometry was not found in the input file we will look in the friends if any!

```
**********************************************************
    initialisation for run id 1672183337
**********************************************************
-I- PndMvdDetector: fListOfSensitives contains:
      Disk-Sensor
      Barrel-Sensor
      PixelActive
      StripSensor
      SensorActiveArea
      StripActive
      PixelActive
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>: 477784 nodes/ 3217 volume UID's in FAIR geometry
Info in <TGeoManager::CloseGeometry>: ---------------modeler ready----------------
Error in <TBufferFile::CheckByteCount>: object of class FairBaseParSet read too many bytes: 19265734 instead of 19265730
Warning in <TBufferFile::CheckByteCount>: FairBaseParSet::Streamer() not in sync with data on file run0_mom0.25_phi45_theta155params.root, fix Streamer()
Container FairBaseParSet initialized from ROOT file.
 -I container name PndEmcDigiPar
 -I container name PndEmcRecoPar

****
    initialisation for run id 1672183337
****
PndEmcDigiPar initialized from Ascii file
PndEmcRecoPar initialized from Ascii file
PndFieldCreator::SetParm() 0

 *** Break *** segmentation violation
(no debugging symbols found)
Attaching to program: /proc/19921/exe, process 19921
(no debugging symbols found)...done.

Best regards,
Dmitry

Subject: Re: Error in <TStreamerInfo::BuildCheck>
<TBufferFile::CheckByteCount>
Posted by Anonymous Poster on Mon, 18 Jan 2010 15:12:18 GMT
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Hi,

what is happening there, is that something in the data members of that class changed in between the time you produced that input file and the time that you compiled that code. It means that the class does not contain the same amount of data.

Cheers, Christian

Subject: Re: Error in <TStreamerInfo::BuildCheck>
<TBufferFile::CheckByteCount>
Posted by Dmitry Khaneft on Mon, 18 Jan 2010 15:36:27 GMT
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It looks like something happend with MDT but I have no idea how to fix it. I think I can re-simulate everything but it is crazy.

Quote:Warning in <TStreamerInfo::BuildCheck>:
The StreamerInfo of class PndMdt read from file
run0_mom0.25_phi45_theta155params.root has the same version (=1) as the active class but
a different checksum.
You should update the version to ClassDef(PndMdt,2).

Subject: Re: Error in <TStreamerInfo::BuildCheck> <TBufferFile::CheckByteCount>
Posted by StefanoSpataro on Mon, 18 Jan 2010 16:08:22 GMT
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Hi,
the MDT data members have changed, then you could have problems if you use MDTs. But in
theory you should be able to process normally all the other events.

It seems to me the crash is comsing from something different:

Error in <TBufferFile::CheckByteCount>: object of class FairBaseParSet
read too many bytes: 19265734 instead of 19265730
Warning in <TBufferFile::CheckByteCount>: FairBaseParSet::Streamer() not
in sync with data on file run0_mom0.25_phi45_theta155params.root, fix
Streamer()

It is like you have overwritten the param file, or better the param file was created with an older
version of the code and FaseBarPasSet is not syncronized anymore.

In that case I think you have to redo the file again.

But, maybe there is a sort of patch you can try.
Go to another folder, and produce with the current pandaroot a small file with the same macro
you have used before. Once you have done this, in the folder you will have the mc file and also
the param one.

Now, try to use the new param file with the old file. I am not sure if this will work, but maybe if it
does you can avoid to rerun everything. Of course, if your original files are "very" old, you are
forced to rerun everything anyway.

Subject: Re: Error in <TStreamerInfo::BuildCheck> <TBufferFile::CheckByteCount>
Posted by Mohammad Al-Turany on Mon, 18 Jan 2010 16:22:32 GMT
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Hi Stefano,

Quote:Go to another folder, and produce with the current pandaroot a small file with the same
macro you have used before. Once you have done this, in the folder you will have the mc file
and also the param one.

Now, try to use the new param file with the old file. I am not sure if this will work, but maybe if it does you can avoid to rerun everything. Of course, if your original files are "very" old, you are forced to rerun everything anyway.

This will not work, each run has a unique id, and the parameters are initialized for the run id that is in the event header.

regards

Mohammad

Subject: Re: Error in <TStreamerInfo::BuildCheck> <TBufferFile::CheckByteCount>
Posted by Dmitry Khaneft on Tue, 19 Jan 2010 08:49:21 GMT
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Can I "solve" the problem by using old pandaroot? I mean the same version which was used for simulation?

P.S.: The data was produced in december last year.

Subject: Re: Error in <TStreamerInfo::BuildCheck> <TBufferFile::CheckByteCount>
Posted by StefanoSpataro on Tue, 19 Jan 2010 08:56:01 GMT
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In theory it should work.