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Subject: Bug in tpcresco (svn 2497)

Posted by [Stefano Spataro](#) on Mon, 14 Apr 2008 10:18:52 GMT

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Hello,

today I have updated my svn release and I have found the following error in tpcresco, probably connected to changes in genfit classes:

```
[ 40%] Building CXX object tpc/tpcresco/CMakeFiles/tpcresco.dir/PndTpcConfMapFit.o
/home/spataro/dev/pandaroot/tpc/tpcresco/PndTpcConfMapFit.cxx: In member function 'virtual
AbsTrackRep* PndTpcConfMapFit::clone()':
/home/spataro/dev/pandaroot/tpc/tpcresco/PndTpcConfMapFit.cxx:43: error: cannot allocate an
object of abstract type 'PndTpcConfMapFit'
/home/spataro/dev/pandaroot/tpc/tpcresco/PndTpcConfMapFit.h:34: note: because the
following virtual functions are pure within 'PndTpcConfMapFit':
/home/spataro/dev/pandaroot/genfit/AbsTrackRep.h:107: note: virtual void
AbsTrackRep::getPosMom(const DetPlane&, TVector3&, TVector3&)
/home/spataro/dev/pandaroot/tpc/tpcresco/PndTpcConfMapFit.cxx: In member function 'virtual
AbsTrackRep* PndTpcConfMapFit::prototype()':
/home/spataro/dev/pandaroot/tpc/tpcresco/PndTpcConfMapFit.cxx:49: error: cannot allocate an
object of abstract type 'PndTpcConfMapFit'
/home/spataro/dev/pandaroot/tpc/tpcresco/PndTpcConfMapFit.h:34: note: since type
'PndTpcConfMapFit' has pure virtual functions
make[2]: *** [tpc/tpcresco/CMakeFiles/tpcresco.dir/PndTpcConfMapFit.o] Error 1
make[1]: *** [tpc/tpcresco/CMakeFiles/tpcresco.dir/all] Error 2
```

Could you please fix it?

thanks

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Subject: Re: Bug in tpcresco (svn 2497)

Posted by [Sebastian Neubert](#) on Mon, 14 Apr 2008 10:55:53 GMT

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working on it

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Subject: Re: Bug in tpcresco (svn 2497)

Posted by [Sebastian Neubert](#) on Mon, 14 Apr 2008 10:58:38 GMT

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please try again now!

Cheers! Sebastian.

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Subject: Re: Bug in tpcresco (svn 2497)

Posted by [Stefano Spataro](#) on Mon, 14 Apr 2008 14:32:45 GMT

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Hi,  
now I get the following message at the "cmake" stage:

CMake Error: Cannot find source file `"/home/spataro/dev/pandaroot/tpc/TpcCluster.cxx"` for target `"tpc"`

Tried extensions `.c .C .c++ .cc .cpp .cxx .m .M .mm .h .h++ .hm .hpp .hxx .in .txx`

CMake Error: Cannot find source file

`"/home/spataro/dev/pandaroot/tpc/PndTpcDXCalculator.cxx"` for target `"tpc"`

Tried extensions `.c .C .c++ .cc .cpp .cxx .m .M .mm .h .h++ .hm .hpp .hxx .in .txx`

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Subject: Re: Bug in tpcresco (svn 2497)

Posted by [Sebastian Neubert](#) on Mon, 14 Apr 2008 14:47:32 GMT

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Hi!

Should be fixed now. Please try again!

Sebastian.

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Subject: Re: Bug in tpcresco (svn 2497)

Posted by [Stefano Spataro](#) on Mon, 14 Apr 2008 15:21:21 GMT

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Now it compiles.

Thanks a lot for the fixes.

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Subject: Re: Bug in tpcresco (svn 2497)

Posted by [Stefano Spataro](#) on Mon, 14 Apr 2008 16:05:10 GMT

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Hi,

now I am trying to run tpc macros.

In macro/tpc/tutorial runMC.C runs well, while runDigi.C seems to initialize well, but after some events I get the following segmentation violation:

Toggle Spoiler.

552 Digis created

PndTpcClusterizer:: 746 clusters created

1378 electrons arriving at readout

Aggregating drifted electrons into avalanches finished.

1378 Avalanches created

0 aggregations done.  
3291 Signals created  
PndTpcElectronicsTask::Exec  
Building up padmap ...finished. 435 pads hit  
.  
485 Digis created

Program received signal SIGSEGV, Segmentation fault.

[Switching to Thread -1222920000 (LWP 6770)]

Error while running hook\_stop:

Invalid type combination in ordering comparison.

0xb479dccc in PndTpcDriftTask::WriteHistograms (this=0x8723fa8) at

/home/spataro/dev/pandaroot/tpc/PndTpcDriftTask.cxx:235

235     \_\_xVariation->Write();

Current language: auto; currently c++

gdb> bt

#0 0xb479dccc in PndTpcDriftTask::WriteHistograms (this=0x8723fa8) at

/home/spataro/dev/pandaroot/tpc/PndTpcDriftTask.cxx:235

#1 0xb48626f5 in G\_\_tpcDict\_288\_0\_12 (result7=0xbf989adc, funcname=0x8723438 "\001", libp=0xbf986014, hash=0x0) at /home/spataro/dev/cmar08/tpc/tpcDict.cxx:7409

#2 0xb74cab1a in Cint::G\_\_ExceptionWrapper () from

/d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18

#3 0xb75a2101 in G\_\_call\_cppfunc () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18

#4 0xb757cc7c in G\_\_interpret\_func () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18

#5 0xb756c5e0 in G\_\_getfunction () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18

#6 0xb7637d88 in G\_\_getstructmem () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18

#7 0xb762dc4f in G\_\_getvariable () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18

#8 0xb754b47d in G\_\_getitem () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18

#9 0xb7551190 in G\_\_getexpr () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18

#10 0xb75c9a59 in G\_\_exec\_statement () from

/d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18

#11 0xb7537fb6 in G\_\_exec\_tempfile\_core () from

/d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18

#12 0xb7538216 in G\_\_exec\_tempfile () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18

#13 0xb75d94ff in G\_\_process\_cmd () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18

#14 0xb7a31636 in TCint::ProcessLine () from

/d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18

#15 0xb7a2c606 in TCint::ProcessLineSynch () from

/d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18

#16 0xb7993757 in TApplication::ExecuteFile () from

/d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18

#17 0xb7993c14 in TApplication::ProcessFile () from

/d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18

#18 0xb7991156 in TApplication::ProcessLine () from

/d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18

#19 0xb746f285 in TRint::HandleTermInput () from

/d/c0/cbmsoft/mar08/tools/root/lib/libRint.so.5.18

#20 0xb746d7c5 in TTermInputHandler::Notify () from

/d/c0/cbmsoft/mar08/tools/root/lib/libRint.so.5.18

#21 0xb746fcb4 in TTermInputHandler::ReadNotify () from

/d/c0/cbmsoft/mar08/tools/root/lib/libRint.so.5.18

#22 0xb7a5e5eb in TUnixSystem::CheckDescriptors () from

```
/d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#23 0xb7a5f197 in TUnixSystem::DispatchOneEvent () from
/d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#24 0xb79e911e in TSystem::InnerLoop () from
/d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#25 0xb79ece2c in TSystem::Run () from /d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#26 0xb798fa28 in TApplication::Run () from /d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#27 0xb746f7d5 in TRint::Run () from /d/c0/cbmsoft/mar08/tools/root/lib/libRint.so.5.18
#28 0x08048e2b in main ()
```

Ok, this is the old WriteHistogram problem, nothing new. By commenting out the two lines everything runs smooth..

After I have run runReco.C, and I have these messages that I don't remember they were there before:

Toggle Spoilerstarting track0

62 hits in track 0

starting fit

Fitting done

Starting Analysis

TrackFitStatTask::Exec

Valid MCTrack found with p=1.55572 GeV/c PDGId=211 q=1 nPndTpcHits=83  
theta=0.698132

TrackFitStatTask: Can' t get Particle for PDG 1000020040

TrackFitStatTask: Can' t get Particle for PDG 1000010030

TrackFitStatTask: Can' t get Particle for PDG 1000290630

TrackFitStatTask: Can' t get Particle for PDG 1000290630

TrackFitStatTask: Can' t get Particle for PDG 1000260560

TrackFitStatTask: Can' t get Particle for PDG 1000130270

TrackFitStatTask: Can' t get Particle for PDG 1000120270

TrackFitStatTask: Can' t get Particle for PDG 1000130270

TrackFitStatTask: Can' t get Particle for PDG 1000280620

TrackFitStatTask: Can' t get Particle for PDG 1000130270

TrackFitStatTask: Can' t get Particle for PDG 1000260560

TrackFitStatTask: Can' t get Particle for PDG 1000260560

TrackFitStatTask: Can' t get Particle for PDG 1000260560

TrackFitStatTask: Can' t get Particle for PDG 1000260560

TrackFitStatTask: Can' t get Particle for PDG 1000240520

TrackFitStatTask: Can' t get Particle for PDG 1000260560

TrackFitStatTask: Can' t get Particle for PDG 1000260560

TrackFitStatTask: Can' t get Particle for PDG 1000260560

TrackFitStatTask: Can' t get Particle for PDG 1000260560

TrackFitStatTask: Can' t get Particle for PDG 1000260560

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TrackFitStatTask: Can' t get Particle for PDG 1000260560

TrackFitStatTask: Can' t get Particle for PDG 1000260560

TrackFitStatTask: Can' t get Particle for PDG 1000260560

TrackFitStatTask: Can' t get Particle for PDG 1000260560

TrackFitStatTask: Can't get Particle for PDG 1000280610  
TrackFitStatTask: Can't get Particle for PDG 1000260560  
TrackFitStatTask: Can't get Particle for PDG 1000290630  
TrackFitStatTask: Can't get Particle for PDG 1000290630  
TrackFitStatTask: Can't get Particle for PDG 1000250540  
TrackFitStatTask: Can't get Particle for PDG 1000260560  
TrackFitStatTask: Can't get Particle for PDG 1000260560  
TrackFitStatTask: Can't get Particle for PDG 1000240510  
TrackFitStatTask: Can't get Particle for PDG 1000260560  
TrackFitStatTask: Can't get Particle for PDG 1000260560  
TrackFitStatTask: Can't get Particle for PDG 1000260560  
TrackFitStatTask: Can't get Particle for PDG 1000260550  
TrackFitStatTask: Can't get Particle for PDG 1000260560  
TrackFitStatTask: Can't get Particle for PDG 1000130270  
TrackFitStatTask: Can't get Particle for PDG 1000130270  
TrackFitStatTask: Can't get Particle for PDG 1000280580  
TrackFitStatTask: Can't get Particle for PDG 1000290630  
TrackFitStatTask: Can't get Particle for PDG 1000260560  
TrackFitStatTask: Can't get Particle for PDG 1000260560  
TrackFitStatTask: Can't get Particle for PDG 1000260560  
TrackFitStatTask: Can't get Particle for PDG 1000260560  
TrackFitStatTask: Can't get Particle for PDG 1000260540  
TrackFitStatTask: Can't get Particle for PDG 1000220470  
TrackFitStatTask: Can't get Particle for PDG 1000260560  
TrackFitStatTask: Can't get Particle for PDG 1000260560  
TrackFitStatTask: Can't get Particle for PDG 1000260560  
TrackFitStatTask: Can't get Particle for PDG 1000290630  
TrackFitStatTask: Can't get Particle for PDG 1000290630  
TrackFitStatTask: Can't get Particle for PDG 1000260560  
TrackFitStatTask: Can't get Particle for PDG 1000260560  
TrackFitStatTask: Can't get Particle for PDG 1000260560

I think they come from genfit. Are they fine?

Only one thing: I have seen tpc.par was changed, so if we want to have recent version of tpc code for the data challenge, we should update all the all.par files.