
Subject: Re: PndAnalysis::McTruthMatch always returns false, again

Posted by [Simone Esch](#) on Wed, 24 Jul 2013 07:28:10 GMT

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Hello Klaus,

yes, I can confirm this. Would it help to insert the PDG code before in the files?

```
##### Begin of Event Analysis Exec
-W- CreateMcCandidate: strange PDG code:88888
Info in <PndAnalysis::BuildMcCands(>: Now setting truth (0x7f9c2a2487c0) to candidate
(uid=1)
Info in <PndAnalysis::BuildMcCands(>: Now setting truth (0x7f9c2a2494d0) to candidate
(uid=2)
Info in <PndAnalysis::BuildMcCands(>: Now setting truth (0x7f9c2a24b3a0) to candidate
(uid=3)
Info in <PndAnalysis::BuildMcCands(>: Now setting truth (0x7f9c2a24bd90) to candidate
(uid=4)
Info in <PndAnalysis::BuildMcCands(>: Now setting truth (0x7f9c2a24c650) to candidate
(uid=5)
Info in <PndAnalysis::BuildMcCands(>: Now setting truth (0x7f9c2a2ba0a0) to candidate
(uid=6)
Info in <PndAnalysis::BuildMcCands(>: Now setting truth (0x7f9c2a2ba7c0) to candidate
(uid=7)
Info in <PndAnalysis::BuildMcCands(>: Now setting truth (0x7f9c2a2baa20) to candidate
(uid=8)
Info in <PndAnalysis::BuildMcCands(>: Now setting truth (0x7f9c2a2bbf80) to candidate
(uid=9)
Info in <PndAnalysis::BuildMcCands(>: Now setting truth (0x7f9c2a2bc440) to candidate
(uid=10)
Info in <PndAnalysis::BuildMcCands(>: Now setting truth (0x7f9c2a248c50) to candidate
(uid=11)
Info in <PndAnalysis::BuildMcCands(>: Now setting truth (0x7f9c2a2b6300) to candidate
(uid=12)
Info in <PndAnalysis::BuildMcCands(>: Now setting truth (0x7f9c2a2b6530) to candidate
(uid=13)
Info in <PndAnalysis::BuildMcCands(>: Now setting truth (0x7f9c2a2b7710) to candidate
(uid=14)
Info in <PndAnalysis::GetEvent(>: Finished loading event fEvtCount=4.
smallest chi2 263.672
filling histos
Info in <PndMcTruthMatch::MctMatch>: Investigating in particle with pdg: 88888 and 2
daughters
Info in <PndMcTruthMatch::MctMatch>: Investigating in particle with pdg: 3122 and 2
daughters
Info in <PndMcTruthMatch::MctMatch>: Investigating in particle with pdg: 2212 and 0
daughters
Info in <PndMcTruthMatch::MctMatch>: accepted final state by PDG code (pdg=2212)
Info in <PndMcTruthMatch::MctMatch>: Investigating in particle with pdg: -211 and 0 daughters
Info in <PndMcTruthMatch::MctMatch>: accepted final state by PDG code (pdg=-211)
Info in <PndMcTruthMatch::MctMatch>: Particle 3122 reached level of matching, leaves, tree
topology and intermediate particle types are matched
```

Info in <PndMcTruthMatch::MctMatch>: Investigating in particle with pdg: -3122 and 2 daughters
Info in <PndMcTruthMatch::MctMatch>: Investigating in particle with pdg: -2212 and 0 daughters
Info in <PndMcTruthMatch::MctMatch>: accepted final state by PDG code (pdg=-2212)
Info in <PndMcTruthMatch::MctMatch>: Investigating in particle with pdg: 211 and 0 daughters
Info in <PndMcTruthMatch::MctMatch>: accepted final state by PDG code (pdg=211)
Info in <PndMcTruthMatch::MctMatch>: Particle -3122 reached level of matching, leaves, tree topology and intermediate particle types are matched
Info in <PndMcTruthMatch::MctMatch>: rejected by not existing MC truth of daughter zero

In addition I have a new problem.

In the next line my analysis task crashes with the following output :

```
*** Break *** segmentation violation  
sed: RE error: illegal byte sequence
```

```
=====  
There was a crash.  
This is the entire stack trace of all threads:  
=====
```

```
Thread 1 (process 72203):  
#0 0x00007fff8bb906ac in wait4 ()  
#1 0x00007fff8c34a03a in system ()  
#2 0x000000010dad5f0f in TUnixSystem::StackTrace ()  
#3 0x000000010dad3d67 in TUnixSystem::DispatchSignals ()  
#4 <signal handler called>  
#5 RhoCandidate::NDaughters (this=0x0) at  
/Users/simone/fairroot/pandaroot_newest/rho/RhoBase/RhoCandidate.cxx:969  
#6 0x000000011377929d in PndAnalysis::MctMatch (this=0x7f9c2a1178b0, c=0x0, mct=  
0x7f9c2a117a48, level=2, verbose=true) at  
/Users/simone/fairroot/pandaroot_newest/PndTools/AnalysisTools/PndAnalysis.cxx:783  
#7 0x0000000113779680 in PndAnalysis::McTruthMatch (this=0x7f9c2a1178b0, list=  
0x7fff521d7f40, level=2, verbose=<value temporarily unavailable, due to optimizations>) at  
/Users/simone/fairroot/pandaroot_newest/PndTools/AnalysisTools/PndAnalysis.cxx:774  
=====
```

The lines below might hint at the cause of the crash.
If they do not help you then please submit a bug report at
<http://root.cern.ch/bugs>. Please post the ENTIRE stack trace
from above as an attachment in addition to anything else
that might help us fixing this issue.

```
=====  
#5 RhoCandidate::NDaughters (this=0x0) at  
/Users/simone/fairroot/pandaroot_newest/rho/RhoBase/RhoCandidate.cxx:969  
#6 0x000000011377929d in PndAnalysis::MctMatch (this=0x7f9c2a1178b0, c=0x0, mct=  
0x7f9c2a117a48, level=2, verbose=true) at
```

/Users/simone/fairroot/pandaroot_newest/PndTools/AnalysisTools/PndAnalysis.cxx:783
#7 0x0000000113779680 in PndAnalysis::McTruthMatch (this=0x7f9c2a1178b0, list=
0x7fff521d7f40, level=2, verbose=<value temporarily unavailable, due to optimizations>) at
/Users/simone/fairroot/pandaroot_newest/PndTools/AnalysisTools/PndAnalysis.cxx:774
=====

This is not correlated with the verbose level, I had this before. I cant see a correlation with my code. Sometimes the codes runs without a crash, sometimes not

Best Regards

Simone
