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Subject: About PID macro

Posted by [Ajay Kumar](#) on Tue, 27 Nov 2012 05:48:38 GMT

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Hi All,

I am running the macro in serial inside the folder /macro/mvd/TimeOrderedSim/

```
run_sim_sttcombi_evtgen.C
run_digi_sttcombi.C
run_reco_sttcombi.C
run_tracking_sttcombi.C
run_pid_complete.C
```

While I run run\_pid\_complete.C which I have taken from /macro/run.  
macro is going to complete successfully, but when I opened root file, there is not any registered  
branch in the TBrowser while I do expect PidChargedCand.

Display Message on the terminal looks like as:-

```
Processing run_pid_complete.C...
Warning in <TClassTable::Add>: class PndSdsTask already in TClassTable
Warning in <TClassTable::Add>: class PndSdsMCPoint already in TClassTable
Warning in <TClassTable::Add>: class PndSdsDigi already in TClassTable
Warning in <TClassTable::Add>: class PndSdsStrip already in TClassTable
Warning in <TClassTable::Add>: class PndSdsDetector already in TClassTable
FairRootManager::OpenOutFile("llbar_Sim_pid.root")
Info in (PndGeoHandling::Instance): Making a new instance using the framework.
fRun->Init()
[INFO ] The input consists out of the following trees and files:
[INFO ] - cbmsim
[INFO ] - llbar_Sim.root
[INFO ] - FriendTree_1
[INFO ] - llbar_Sim_digi.root
[INFO ] - FriendTree_2
[INFO ] - llbar_Sim_reco.root
[INFO ] - FriendTree_3
[INFO ] - llbar_Sim_trackF.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 10000
```

```
*****
```

```
initialisation for run id 727341419
```

```
*****
```

```
Info in <TGeoManager::CloseGeometry>: Geometry loaded from file...
Info in <TGeoManager::SetTopVolume>: Top volume is cave. Master volume is cave
Info in <TGeoNavigator::BuildCache>: --- Maximum geometry depth set to 100
Info in <TGeoManager::Voxelize>: Voxelizing...
Info in <TGeoManager::CountLevels>: max level = 12, max placements = 4880
Info in <TGeoManager::CloseGeometry>: 2015830 nodes/ 5764 volume UID's in FAIR
geometry
Info in <TGeoManager::CloseGeometry>: -----modeler ready-----
Container FairBaseParSet initialized from ROOT file.
```

-l container name PndPidCorrPar  
-l container name PndEmcGeoPar  
-l container name PndEmcErrorMatrixPar  
-l container name PndGeoSttPar

\*\*\*\*\*

initialisation for run id 727341419

\*\*\*\*\*

Container PndSensorNamePar initialized from ROOT file.  
PndPidCorrPar initialized from Ascii file  
Container PndEmcGeoPar initialized from ROOT file.  
[ERROR ] init() PndEmcErrorMatrixPar not initialized  
Container PndGeoSttPar initialized from ROOT file.  
Error in <FairRuntimeDb::initContainers(>: Error occured during initialization  
PndFieldCreator::SetParm() 0x1ee81cf0

\*\*\*\*\*

initialisation for run id 727341419

\*\*\*\*\*

PndPidCorrPar initialized from Ascii file  
[ERROR ] init() PndEmcErrorMatrixPar not initialized  
Container PndMultiFieldPar initialized from ROOT file.  
Error in <FairRuntimeDb::initContainers(>: Error occured during initialization  
OBJ: PndTransPar PndTransPar Trans. Field parameter container  
OBJ: PndDipole1Par PndDipole1Par Dipole Field parameter container  
OBJ: PndDipole2Par PndDipole2Par Dipole Field parameter container  
OBJ: PndSolenoid1Par PndSolenoid1Par Solenoid 1st region parameter container  
OBJ: PndSolenoid2Par PndSolenoid2Par Solenoid 2nd region parameter container  
OBJ: PndSolenoid3Par PndSolenoid3Par Solenoid 3rd region parameter container  
OBJ: PndSolenoid4Par PndSolenoid4Par Solenoid 4th region parameter container  
[INFO ] PndFieldMap: Reading field map from ROOT file  
/home/ajay2/pandaroot/input/TransMap.0406.root  
[INFO ] PndFieldMap: Reading field map from ROOT file  
/home/ajay2/pandaroot/input/DipoleMap1.0406.root  
[INFO ] PndFieldMap: Reading field map from ROOT file  
/home/ajay2/pandaroot/input/DipoleMap2.0406.root  
[INFO ] PndFieldMap: Reading field map from ROOT file  
/home/ajay2/pandaroot/input/SolenoidMap1.root  
[INFO ] PndFieldMap: Reading field map from ROOT file  
/home/ajay2/pandaroot/input/SolenoidMap2.root  
[INFO ] PndFieldMap: Reading field map from ROOT file  
/home/ajay2/pandaroot/input/SolenoidMap3.root  
[INFO ] PndFieldMap: Reading field map from ROOT file  
/home/ajay2/pandaroot/input/SolenoidMap4.root  
-----FairGeane::Init ()-----  
Loading Geant3 libraries ...  
Loading Geant3 libraries ... finished

MZSTOR. ZEBRA table base TAB(0) in /MZCC/ at adr 781295647 2E91A01F HEX

MZSTOR. Initialize Store 0 in /GCBANK/  
with Store/Table at absolute adrs 781404893 781295647

```
          HEX 2E934ADD 2E91A01F
          HEX 1AB22 0
relative adrs 109346 0
with 1 Str. in 2 Links in 5300 Low words in 4999970 words.
This store has a fence of 16 words.
```

```
MZLOGL. Set Log Level 0 for store 0
1***** GEANT Version 3.21/11 Released on 100298
0***** Correction Cradle Version 0.1100
```

```
MZDIV. Initialize Division Constant in Store 0
NW/NWMAX= 20004000000, MODE/KIND= 1 2
Division 20 initialized.
```

```
MZLINK. Initialize Link Area /GCLINK/ for Store 0 NL/NS= 20 20
```

```
MZLINK. Initialize Link Area /GCSLNK/ for Store 0 NL/NS= 100 100
-I- G3Config: Geant3 with TGeo has been created for Geane.
-I- Geane.C: NOPRNT flag set to 1
-I- Geane.C: IERR flags are not printed. If you want to switch them on, please set
fErtrio1->noprnt = 0 in Geane.C
Energy straggling area parameter from user set to: 0.999
```

Calculating cross section tables, see gphysi.dat for more information

```
Cross section calculation concluded successfully
I- FairGeane::FairGeane: Geane is Initialized
[INFO ] Branch: SttMvdGemGenTrack not found in Tree
[INFO ] Branch: SttMvdGemGenTrack not found in Tree
-I- PndPidCorrelator::Init: No PndTrack array!
[INFO ] Branch: PidChargedCand not found in Tree
[INFO ] Branch: PidChargedCand not found in Tree
-I- PndPidIdealAssociatorTask::Init: No PndPidCandidate array PidChargedCand there!
InitStatus PndPidMvdAssociatorTask::Init()
[INFO ] Branch: PidChargedCand not found in Tree
[INFO ] Branch: PidChargedCand not found in Tree
-I- PndPidMvdAssociatorTask::Init: No PndPidCandidate array PidChargedCand there!
InitStatus PndPidMdtHCAssociatorTask::Init()
[INFO ] Branch: PidChargedCand not found in Tree
[INFO ] Branch: PidChargedCand not found in Tree
-I- PndPidMdtHCAssociatorTask::Init: No PndPidCandidate array PidChargedCand there!
InitStatus PndPidDrcAssociatorTask::Init()
[INFO ] Branch: PidChargedCand not found in Tree
[INFO ] Branch: PidChargedCand not found in Tree
-I- PndPidDrcAssociatorTask::Init: No PndPidCandidate array PidChargedCand there!
InitStatus PndPidDiscAssociatorTask::Init()
[INFO ] Branch: PidChargedCand not found in Tree
[INFO ] Branch: PidChargedCand not found in Tree
-I- PndPidDiscAssociatorTask::Init: No PndPidCandidate array PidChargedCand there!
[INFO ] Branch: PidChargedCand not found in Tree
[INFO ] Branch: PidChargedCand not found in Tree
-E- PndPidSttAssociatorTask::Init: No PidChargedCand array!
```

```
InitStatus PndPidEmcBayesAssociatorTask::Init()
[INFO ] Branch: PidChargedCand not found in Tree
[INFO ] Branch: PidChargedCand not found in Tree
-l- PndPidEmcBayesAssociatorTask::Init: No PndPidCandidate array PidChargedCand there!
[INFO ] The number of entries in chain is 10000
[INFO ] The number of entries in chain is 10000
```

Macro finished successfully.  
Output file is llbar\_Sim\_pid.root  
Parameter file is llbar\_Sim\_par.root  
Real time 74.3742 s, CPU time 50.5 s

Test passed  
All ok

Can anybody explain me what is happening here?

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Subject: Re: About PID macro  
Posted by [StefanoSpataro](#) on Tue, 27 Nov 2012 05:58:43 GMT  
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Hi,  
the standard macros are in macro/run, the ones you are using are written for other studies (time ordered simulation). Indeed, you don't find there the pid macro.  
Please use the standard macro.

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