
Subject: [FIXED] I want to do simulation for pid It is showing warning and error at the time of running

Posted by [Shyam Kumar](#) on Thu, 11 Jul 2013 17:21:06 GMT

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```
shyam@shyam-vaio:~/fairsoft/pandaroot/macro/pid$ root -l run_sim_sttcombi_dpm.C
```

```
root [0]
```

```
Processing run_sim_sttcombi_dpm.C...
```

```
FairRootManager::OpenOutFile("points_sttcombi.root")
```

```
Warning in <TStreamerInfo::BuildCheck>:
```

```
  The StreamerInfo of class PndSciT read from file params_sttcombi.root
  has the same version (=3) as the active class but a different checksum.
```

```
  You should update the version to ClassDef(PndSciT,4).
```

```
  Do not try to write objects with the current class definition,
  the files will not be readable.
```

```
Warning in <TStreamerInfo::CompareContent>: The following data member of
the in-memory layout version 3 of class 'PndSciT' is missing from
the on-file layout version 3:
```

```
  PndGeoSciTPar* par; //
```

```
Warning in <TStreamerInfo::CompareContent>: The following data member of
the in-memory layout version 3 of class 'PndSciT' is missing from
the on-file layout version 3:
```

```
  Int_t fTrackID; //
```

```
Warning in <TStreamerInfo::CompareContent>: The following data member of
the in-memory layout version 3 of class 'PndSciT' is missing from
the on-file layout version 3:
```

```
  Int_t fVolumelD; //
```

```
Warning in <TStreamerInfo::CompareContent>: The following data member of
the in-memory layout version 3 of class 'PndSciT' is missing from
the on-file layout version 3:
```

```
  Int_t fEventID; //
```

```
Warning in <TStreamerInfo::CompareContent>: The following data member of
the in-memory layout version 3 of class 'PndSciT' is missing from
the on-file layout version 3:
```

```
  TLorentzVector fPosIn; //
```

```
Warning in <TStreamerInfo::CompareContent>: The following data member of
the in-memory layout version 3 of class 'PndSciT' is missing from
the on-file layout version 3:
```

```
  TLorentzVector fMomIn; //
```

```
Warning in <TStreamerInfo::CompareContent>: The following data member of
the in-memory layout version 3 of class 'PndSciT' is missing from
the on-file layout version 3:
```

```
  TLorentzVector fPosOut; //
```

```
Warning in <TStreamerInfo::CompareContent>: The following data member of
the in-memory layout version 3 of class 'PndSciT' is missing from
the on-file layout version 3:
```

```
  TLorentzVector fMomOut; //
```

```
Warning in <TStreamerInfo::CompareContent>: The following data member of
the in-memory layout version 3 of class 'PndSciT' is missing from
```

the on-file layout version 3:

```
Double32_t fTime; //
```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 3 of class 'PndSciT' is missing from

the on-file layout version 3:

```
Double32_t fLength; //
```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 3 of class 'PndSciT' is missing from

the on-file layout version 3:

```
Double_t fELoss; //
```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 3 of class 'PndSciT' is missing from

the on-file layout version 3:

```
Int_t fPosIndex; //
```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 3 of class 'PndSciT' is missing from

the on-file layout version 3:

```
Int_t pvId; //
```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 3 of class 'PndSciT' is missing from

the on-file layout version 3:

```
TClonesArray* fSciTCollection; //
```

Warning in <TStreamerInfo::BuildCheck>:

The StreamerInfo of class PndMdt read from file params_sttcombi.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.

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 1 of class 'PndMdt' is missing from

the on-file layout version 1:

```
Int_t fPosIndex; //
```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 1 of class 'PndMdt' is missing from

the on-file layout version 1:

```
Float_t fELoss; //
```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 1 of class 'PndMdt' is missing from

the on-file layout version 1:

```
TLorentzVector fPos; //
```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 1 of class 'PndMdt' is missing from

the on-file layout version 1:

```
TLorentzVector fMom; //
```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 1 of class 'PndMdt' is missing from

the on-file layout version 1:

```
Bool_t fVerboseLevel; //
```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 1 of class 'PndMdt' is missing from

the on-file layout version 1:

```

TString ffn; //
Warning in <TStreamerInfo::CompareContent>: The following data member of
the in-memory layout version 1 of class 'PndMdt' is missing from
the on-file layout version 1:
  TString fBarrel; //
Warning in <TStreamerInfo::CompareContent>: The following data member of
the in-memory layout version 1 of class 'PndMdt' is missing from
the on-file layout version 1:
  TString fEndcap; //
Warning in <TStreamerInfo::CompareContent>: The following data member of
the in-memory layout version 1 of class 'PndMdt' is missing from
the on-file layout version 1:
  TString fMuonFilter; //
Warning in <TStreamerInfo::CompareContent>: The following data member of
the in-memory layout version 1 of class 'PndMdt' is missing from
the on-file layout version 1:
  TString fForward; //
Warning in <TStreamerInfo::BuildCheck>:
  The StreamerInfo of class PndFtof read from file params_sttcombi.root
  has the same version (=2) as the active class but a different checksum.
  You should update the version to ClassDef(PndFtof,3).
  Do not try to write objects with the current class definition,
  the files will not be readable.

Warning in <TStreamerInfo::CompareContent>: The following data member of
the in-memory layout version 2 of class 'PndFtof' is missing from
the on-file layout version 2:
  PndGeoFtofPar* par; //
Warning in <TStreamerInfo::CompareContent>: The following data member of
the in-memory layout version 2 of class 'PndFtof' is missing from
the on-file layout version 2:
  Int_t fTrackID; //
Warning in <TStreamerInfo::CompareContent>: The following data member of
the in-memory layout version 2 of class 'PndFtof' is missing from
the on-file layout version 2:
  Int_t fVolumelD; //
Warning in <TStreamerInfo::CompareContent>: The following data member of
the in-memory layout version 2 of class 'PndFtof' is missing from
the on-file layout version 2:
  Int_t fEventID; //
Warning in <TStreamerInfo::CompareContent>: The following data member of
the in-memory layout version 2 of class 'PndFtof' is missing from
the on-file layout version 2:
  TLorentzVector fPosIn; //
Warning in <TStreamerInfo::CompareContent>: The following data member of
the in-memory layout version 2 of class 'PndFtof' is missing from
the on-file layout version 2:
  TLorentzVector fMomIn; //
Warning in <TStreamerInfo::CompareContent>: The following data member of
the in-memory layout version 2 of class 'PndFtof' is missing from
the on-file layout version 2:
  TLorentzVector fPosOut; //

```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 2 of class 'PndFtof' is missing from the on-file layout version 2:

```
TLorentzVector fMomOut; //
```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 2 of class 'PndFtof' is missing from the on-file layout version 2:

```
Double_t fPLout; //
```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 2 of class 'PndFtof' is missing from the on-file layout version 2:

```
Double_t fPLin; //
```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 2 of class 'PndFtof' is missing from the on-file layout version 2:

```
Double32_t fTime; //
```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 2 of class 'PndFtof' is missing from the on-file layout version 2:

```
Double32_t fLength; //
```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 2 of class 'PndFtof' is missing from the on-file layout version 2:

```
Double32_t fELoss; //
```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 2 of class 'PndFtof' is missing from the on-file layout version 2:

```
Int_t fPosIndex; //
```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 2 of class 'PndFtof' is missing from the on-file layout version 2:

```
Int_t fpdgCode; //
```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 2 of class 'PndFtof' is missing from the on-file layout version 2:

```
Int_t fSild; //
```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 2 of class 'PndFtof' is missing from the on-file layout version 2:

```
Int_t fCld; //
```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 2 of class 'PndFtof' is missing from the on-file layout version 2:

```
Int_t fAlld; //
```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 2 of class 'PndFtof' is missing from the on-file layout version 2:

```
Int_t fBeld; //
```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 2 of class 'PndFtof' is missing from the on-file layout version 2:

```
Int_t fCpipeld; //
```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 2 of class 'PndFtof' is missing from the on-file layout version 2:

```
Double_t fcharge; //
```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 2 of class 'PndFtof' is missing from the on-file layout version 2:

```
Double_t fmass; //
```

Warning in <TStreamerInfo::CompareContent>: The following data member of the in-memory layout version 2 of class 'PndFtof' is missing from the on-file layout version 2:

```
Double_t fdist; //
```

[INFO] Media file used : /home/shyam/fairsoft/pandaroot/geometry/media_pnd.geo
Info in (PndGeoHandling::Instance): Making a new instance using the framework.

-l container name PndEmcGeoPar

<l> PndDpmDirect initialization

<l> Momentum = 5

<l> Seed = 4138

<l> Mode = 1

<l> Theta min = 2

Tmin= -3.04495133E-02 Tmax= -7.7836609

sig_col 3.95907741E-03

sig_inter 0.41664422 sig_iexact -2.43103430E-02

sig_had_el 20.359825

sig_had_p 13.508554

[INFO] ===== FairRunSim: Initialising simulation run =====

Info in <TGeoManager::TGeoManager>: Geometry FAIRGeom, FAIR geometry created

-l- FairGeoMedia Read media

-l container name PndEmcDigiPar

-l container name PndEmcDigiNonuniformityPar

initialisation for run id 1605561810

[ERROR] init() PndEmcGeoPar not initialized

[ERROR] init() PndSensorNamePar not initialized

PndEmcDigiPar initialized from Ascii file

[ERROR] init() PndEmcDigiNonuniformityPar not initialized

Error in <FairRuntimeDb::initContainers(>: Error occurred during initialization

[INFO] PndFieldMap: Reading field map from ROOT file

/home/shyam/fairsoft/pandaroot/input/TransMap.0406.root

[INFO] PndFieldMap: Reading field map from ROOT file

/home/shyam/fairsoft/pandaroot/input/DipoleMap1.0406.root

[INFO] PndFieldMap: Reading field map from ROOT file

/home/shyam/fairsoft/pandaroot/input/DipoleMap2.0406.root

[INFO] PndFieldMap: Reading field map from ROOT file

/home/shyam/fairsoft/pandaroot/input/SolenoidMap1.root

[INFO] PndFieldMap: Reading field map from ROOT file

/home/shyam/fairsoft/pandaroot/input/SolenoidMap2.root

[INFO] PndFieldMap: Reading field map from ROOT file

/home/shyam/fairsoft/pandaroot/input/SolenoidMap3.root

[INFO] PndFieldMap: Reading field map from ROOT file

/home/shyam/fairsoft/pandaroot/input/SolenoidMap4.root
[INFO] ----- Standard Config is called -----
Loading Geant3 libraries ...
Loading Geant3 libraries ... finished

MZSTOR. ZEBRA table base TAB(0) in /MZCC/ at adr 1035807095 3DBD2977 HEX

MZSTOR. Initialize Store 0 in /GCBANK/
with Store/Table at absolute adrs 1035830021 1035807095
HEX 3DBD8305 3DBD2977
HEX 59F2 0
relative adrs 23026 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

-l- G3Config: Geant3 with TGeo has been created.

SetCuts Macro: Setting Processes..

SetCuts Macro: Setting cuts..

Info in <TGeoManager::SetTopVolume>: Top volume is cave. Master volume is cave

Info in <TGeoNavigator::BuildCache>: --- Maximum geometry depth set to 100

<l> PndPipe - Using geometry

/home/shyam/fairsoft/pandaroot/geometry/beampipe_201112.root

-l container name PndGeoSttPar

fwendcap & bwendcap flags == 1 / 1

=====
EMC 2):: ConstructASCIIGeometry() ===
=====

PndEmcReader: EMC geometry file ==

/home/shyam/fairsoft/pandaroot/geometry/emc_module12.dat

Emc module = 1

Emc module = 2

=====
EMC:: ConstructRootGeometry() m3a ===
=====

File name = /home/shyam/fairsoft/pandaroot/geometry/emc_module3_2012_new.root

=====
EMC:: ConstructRootGeometry() m4a ===
=====

fgeoName3:: /home/shyam/fairsoft/pandaroot/geometry/emc_module4_StraightGeo24.4.root

File name Bw1=

/home/shyam/fairsoft/pandaroot/geometry/emc_module4_StraightGeo24.4.root

=====
EMC:: ConstructRootGeometry() m5a ===

fgeoName4:: /home/shyam/fairsoft/pandaroot/geometry/emc_module5_fsc.root

File name Fsc= /home/shyam/fairsoft/pandaroot/geometry/emc_module5_fsc.root

=====
DRC:: ConstructGeometry() =====

Focusing = 0

=====
-l container name PndGeoFtsPar

BBBB->36

cccc->13793

Info in <TGeoManager::CheckGeometry>: Fixing runtime shapes...

Info in <TGeoManager::CheckGeometry>: ...Nothing to fix

Info in <TGeoManager::CloseGeometry>: Counting nodes...

Info in <TGeoManager::Voxelize>: Voxelizing...

Info in <TGeoManager::CloseGeometry>: Building cache...

Info in <TGeoManager::CloseGeometry>: 2014991 nodes/ 5763 volume UID's in FAIR geometry

Info in <TGeoManager::CloseGeometry>: -----modeler ready-----

=====
DRC:: ConstructOpticalGeometry() =====

Warning in <TGeant3TGeo::DefineOpSurface>: Called for surface MirrSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetBorderSurface>: Called for border surface BarMirrSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetBorderSurface>: Called for border surface BarMirrSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetBorderSurface>: Called for border surface BarMirrSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetBorderSurface>: Called for border surface BarMirrSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetBorderSurface>: Called for border surface BarMirrSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetMaterialProperty>: Called for material surface MirrSurface. Not applicable in Geant3 - setting is ignored.

fbarnum = -999

Warning in <TGeant3TGeo::DefineOpSurface>: Called for surface EVSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetBorderSurface>: Called for border surface EVAirSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetMaterialProperty>: Called for material surface EVSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::DefineOpSurface>: Called for surface PDSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetBorderSurface>: Called for border surface EVPDSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetMaterialProperty>: Called for material surface PDSurface. Not applicable in Geant3 - setting is ignored.

===== DRC::ConstructOpGeometry -> Finished! =====

-I- Initializing PndSdsDetector()
[INFO] Branch: MVDPPoint not registered!
-W- PndSdsDetector: New branch MVDPPoint created!

PndEmc::SetSpecialPhysicsCuts():
using special physics cuts ...

-I- Initializing PndSciT()
-I- Initializing PndGemDetector()
-I- PndDrc: Intialization started...
-I- PndDrc: Switching OFF Cherenkov Propagation
DRC parameters: fpi = 3.14159, fzup = -120, fbarnum = 5, flside = 16.6323
bar 1 id = 5576
lens1ID = 5576, flens2ID = 5576, lens3ID = 5576
pd id = 5581
bbox id = 5579
EV id = 5580
-I- PndDrc: Intialization successfull
-I- Initializing PndFts()
-I- Initializing PndFtof()
[INFO] Initialize Tasks-----
INITIALIZATION *****
-I- PndEmcHitProducer: Intialization successfull
[INFO] Simulation RunID: 1605561810

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

Cross section calculation concluded successfully

[INFO] Monte carlo Engine Initialisation with : TGeant3TGeo
[INFO] *** PndEmcGeoPar written to ROOT file version: 9
[INFO] *** PndSensorNamePar written to ROOT file version: 9
[INFO] *** PndEmcDigiPar written to ROOT file version: 9
[INFO] *** PndEmcDigiNonuniformityPar written to ROOT file version: 9
Error in <TStreamerInfo::WriteBuffer>: The element PndSciT::par type 164 (PndGeoSciTPar*)
is not supported yet

Error in <TStreamerInfo::WriteBuffer>: The element PndMdt::fPosIndex type 103 (Int_t) is not
supported yet

Error in <TStreamerInfo::WriteBuffer>: The element PndMdt::ffn type 165 (TString) is not
supported yet

Error in <TStreamerInfo::WriteBuffer>: The element PndFtof::par type 164 (PndGeoFtofPar*) is
not supported yet

[INFO] *** FairBaseParSet written to ROOT file version: 9
[INFO] *** PndMultiFieldPar written to ROOT file version: 9
[INFO] *** PndGeoPassivePar written to ROOT file version: 9
[INFO] *** PndGeoSttPar written to ROOT file version: 9
[INFO] *** PndGeoFtsPar written to ROOT file version: 9

[INFO] *** PndGeoSciTPar written to ROOT file version: 9

[INFO] *** PndGeoFtofPar written to ROOT file version: 9

----- actual containers in runtime database -----

PndEmcGeoPar	Emc Geometry Parameters
PndSensorNamePar	Match between GeoManager path and SensorId
PndEmcDigiPar	Emc Digitalization Parameters
PndEmcDigiNonuniformityPar	Emc Nonuniformity Parameters
FairBaseParSet	class for parameter io
PndMultiFieldPar	Multiple Field parameter container
PndTransPar	Trans. Field parameter container
PndDipole1Par	Dipole Field parameter container
PndDipole2Par	Dipole Field parameter container
PndSolenoid1Par	Solenoid 1st region parameter container
PndSolenoid2Par	Solenoid 2nd region parameter container
PndSolenoid3Par	Solenoid 3rd region parameter container
PndSolenoid4Par	Solenoid 4th region parameter container
PndGeoPassivePar	Passive Geometry Parameters
PndGeoSttPar	Stt Geometry Parameters
PndGeoFtsPar	Fts Geometry Parameters
PndGeoSciTPar	tof Geometry Parameters
PndGeoFtofPar	tof Geometry Parameters

----- runs, versions -----

run id	container	1st-inp	2nd-inp	output
run: 1605561810				
	PndEmcGeoPar	1605561810	-1	9
	PndSensorNamePar	1605561810	-1	9
	PndEmcDigiPar	1	-1	9
	PndEmcDigiNonuniformityPar	1605561810	-1	9
	FairBaseParSet	1605561810	-1	9
	PndMultiFieldPar	1605561810	-1	9
	PndTransPar	1605561810	-1	0
	PndDipole1Par	1605561810	-1	0
	PndDipole2Par	1605561810	-1	0
	PndSolenoid1Par	1605561810	-1	0
	PndSolenoid2Par	1605561810	-1	0
	PndSolenoid3Par	1605561810	-1	0
	PndSolenoid4Par	1605561810	-1	0
	PndGeoPassivePar	1605561810	-1	9
	PndGeoSttPar	1605561810	-1	9
	PndGeoFtsPar	1605561810	-1	9
	PndGeoSciTPar	1605561810	-1	9
	PndGeoFtofPar	1605561810	-1	9

----- input/output -----

first Input:

Ascii I/O /home/shyam/fairsoft/pandaroot/macro/params/all.par is open
detector I/Os: FairGenericParlo

second input: none

output:

OBJ: FairParRootFile params_sttcombi.root : 0 at: 0x2034d10

Root file I/O params_sttcombi.root is open

```

detector I/Os: FairGenericParlo
**** GTRIGI: IEVENT= 1 IDEVT= 1 Random Seeds = 1373562497 0
[INFO ] FairPrimaryGenerator: (Event 1) 2 primary tracks from vertex (0.000000, 0.000000,
0.000000 ) Event Time = 0.000000 (ns)
DIGI EXECUTION *****
**** GTRIGI: IEVENT= 2 IDEVT= 2 Random Seeds = 1373562497 0
[INFO ] FairPrimaryGenerator: (Event 2) 2 primary tracks from vertex (0.000000, 0.000000,
0.000000 ) Event Time = 0.000000 (ns)
DIGI EXECUTION *****
**** GTRIGI: IEVENT= 3 IDEVT= 3 Random Seeds = 1373562497 0
[INFO ] FairPrimaryGenerator: (Event 3) 3 primary tracks from vertex (0.000000, 0.000000,
0.000000 ) Event Time = 0.000000 (ns)
DIGI EXECUTION *****
**** GTRIGI: IEVENT= 4 IDEVT= 4 Random Seeds = 1373562497 0
[INFO ] FairPrimaryGenerator: (Event 4) 3 primary tracks from vertex (0.000000, 0.000000,
0.000000 ) Event Time = 0.000000 (ns)
DIGI EXECUTION *****
**** GTRIGI: IEVENT= 5 IDEVT= 5 Random Seeds = 1373562497 0
[INFO ] FairPrimaryGenerator: (Event 5) 3 primary tracks from vertex (0.000000, 0.000000,
0.000000 ) Event Time = 0.000000 (ns)
DIGI EXECUTION *****
**** GTRIGI: IEVENT= 6 IDEVT= 6 Random Seeds = 1373562497 0
[INFO ] FairPrimaryGenerator: (Event 6) 3 primary tracks from vertex (0.000000, 0.000000,
0.000000 ) Event Time = 0.000000 (ns)
DIGI EXECUTION *****
**** GTRIGI: IEVENT= 7 IDEVT= 7 Random Seeds = 1373562497 0
[INFO ] FairPrimaryGenerator: (Event 7) 2 primary tracks from vertex (0.000000, 0.000000,
0.000000 ) Event Time = 0.000000 (ns)
DIGI EXECUTION *****
**** GTRIGI: IEVENT= 8 IDEVT= 8 Random Seeds = 1373562497 0
[INFO ] FairPrimaryGenerator: (Event 6) 6 primary tracks from vertex (0.000000, 0.000000,
0.000000 ) Event Time = 0.000000 (ns)
DIGI EXECUTION *****
**** GTRIGI: IEVENT= 9 IDEVT= 9 Random Seeds = 1373562497 0
[INFO ] FairPrimaryGenerator: (Event 9) 9 primary tracks from vertex (0.000000, 0.000000,
0.000000 ) Event Time = 0.000000 (ns)
DIGI EXECUTION *****
**** GTRIGI: IEVENT= 10 IDEVT= 10 Random Seeds = 1373562497 0
[INFO ] FairPrimaryGenerator: (Event 10) 4 primary tracks from vertex (0.000000, 0.000000,
0.000000 ) Event Time = 0.000000 (ns)
DIGI EXECUTION *****
RealTime=131.926146 seconds, CpuTime=125.300000 seconds
(int)56
root [1]

```

Thank You in advance

Subject: Re: I want to do simulation for pid It is showing warning and error at the time of running

Posted by [StefanoSpataro](#) on Thu, 11 Jul 2013 17:37:14 GMT

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You should use macro/run macros.

Subject: Re: I want to do simulation for pid It is showing warning and error at the time of running

Posted by [Florian Uhlig](#) on Fri, 12 Jul 2013 05:31:10 GMT

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Hi,

you use an old parameter file which is not compliant with the new format of the data class

Quote:The StreamerInfo of class PndSciT read from file params_sttcombi.root

Ciao

Florian

Subject: Re: I want to do simulation for pid It is showing warning and error at the time of running

Posted by [Shyam Kumar](#) on Mon, 15 Jul 2013 12:19:13 GMT

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Hi, I have run all the simulation inside macro/run directory I want to plot Energy loss vs Momentum for different particles. Please tell me how can I get?

Thanks for Reply

Subject: Re: I want to do simulation for pid It is showing warning and error at the time of running

Posted by [StefanoSpataro](#) on Mon, 15 Jul 2013 12:33:35 GMT

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Energy Loss of what? You can have Stt dE/dx, or MVD dE/dx. There are the corresponding functions in the PndPidCandidate.

Subject: Re: I want to do simulation for pid It is showing warning and error at the time of running

Posted by [Shyam Kumar](#) on Tue, 16 Jul 2013 14:12:04 GMT

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Sir,

For MVD dE/dx I have seen the function in PndPidCandidate but in which macro I have to use it and how? In Pid_complete.C or any other macro. I am trying to understanding the

framework.

Thanks

Subject: Re: I want to do simulation for pid It is showing warning and error at the time of running

Posted by [Stefano Spataro](#) on Tue, 16 Jul 2013 14:22:18 GMT

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If you open the pid_complete.root file, with the TBrowser you can plot whatever you like. In this case it will be inside PidChargedCand folder.

Subject: Re: I want to do simulation for pid It is showing warning and error at the time of running

Posted by [Shyam Kumar](#) on Thu, 01 Aug 2013 07:10:18 GMT

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Hi,

I am running reconstruction for 10000 events in simulation but it is showing some errors at the time of running and repetition of errors of such type convergence error and index out of bounds type

```
Processing reco_complete.C...
```

```
(int)1
```

```
FairRootManager::OpenOutFile("reco_complete.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 ]   - sim_complete.root
```

```
[INFO ] - FriendTree_1
```

```
[INFO ]   - digi_complete.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 1375274735
```

```
*****
```

```
-I- FairRunTimeDB::InitContainer() FairBaseParSet
```

```
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 = 4896
```

```
Info in <TGeoManager::CloseGeometry>: 2008273 nodes/ 5804 volume UID's in FAIR geometry
```

```
Info in <TGeoManager::CloseGeometry>: -----modeler ready-----
```

Container FairBaseParSet initialized from ROOT file.

-l container name PndGeoSttPar

-l container name PndGeoFtsPar

initialisation for run id 1375274735

-l- FairRunTimeDB::InitContainer() FairBaseParSet

-l- FairRunTimeDB::InitContainer() PndGeoSttPar

Container PndGeoSttPar initialized from ROOT file.

-l- FairRunTimeDB::InitContainer() PndGemDetectors

Gem_Disk1_Gem1_Sensor_GEMmixture type 0 has 786 front and 4250 back channels

Gem_Disk1_Gem6_Sensor_GEMmixture type 2 has 4750 front and 9000 back channels

Gem_Disk2_Gem1_Sensor_GEMmixture type 0 has 786 front and 5350 back channels

Gem_Disk2_Gem6_Sensor_GEMmixture type 2 has 5850 front and 11200 back channels

Gem_Disk3_Gem1_Sensor_GEMmixture type 0 has 786 front and 7150 back channels

Gem_Disk3_Gem6_Sensor_GEMmixture type 2 has 7650 front and 14800 back channels

PndGemDetectors initialized from Ascii file

-l- FairRunTimeDB::InitContainer() PndSensorNamePar

Container PndSensorNamePar initialized from ROOT file.

-l- FairRunTimeDB::InitContainer() PndGeoFtsPar

Container PndGeoFtsPar initialized from ROOT file.

PndFieldCreator::SetParm() 0xb86dad0

initialisation for run id 1375274735

-l- FairRunTimeDB::InitContainer() FairBaseParSet

-l- FairRunTimeDB::InitContainer() PndGeoSttPar

-l- FairRunTimeDB::InitContainer() PndGemDetectors

PndGemDetectors initialized from Ascii file

-l- FairRunTimeDB::InitContainer() PndSensorNamePar

-l- FairRunTimeDB::InitContainer() PndGeoFtsPar

-l- FairRunTimeDB::InitContainer() PndMultiFieldPar

Container PndMultiFieldPar initialized from ROOT file.

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/shyam/fairsoft/pandaroot/input/TransMap.0890.root

[INFO] PndFieldMap: Reading field map from ROOT file

/home/shyam/fairsoft/pandaroot/input/DipoleMap1.0890.root

[INFO] PndFieldMap: Reading field map from ROOT file

/home/shyam/fairsoft/pandaroot/input/DipoleMap2.0890.root

[INFO] PndFieldMap: Reading field map from ROOT file

/home/shyam/fairsoft/pandaroot/input/SolenoidMap1.root

[INFO] PndFieldMap: Reading field map from ROOT file

/home/shyam/fairsoft/pandaroot/input/SolenoidMap2.root

```
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/shyam/fairsoft/pandaroot/input/SolenoidMap3.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/shyam/fairsoft/pandaroot/input/SolenoidMap4.root
-----FairGeane::Init ()-----
Loading Geant3 libraries ...
Loading Geant3 libraries ... finished
```

```
MZSTOR. ZEBRA table base TAB(0) in /MZCC/ at adr 323521055 13488A1F HEX
```

```
MZSTOR. Initialize Store 0 in /GCBANK/
with Store/Table at absolute adrs 323630397 323521055
HEX 134A353D 13488A1F
HEX 1A72A 0
relative adrs 108330 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
-I- PndTrkTracking: Initialization successfull
-I- PndTrkTracking: Initialization successfull
-I- -----
-I- PndSttMvdGemTracking: using branches MVDHitsPixel MVDHitsStrip STTHit GEMHit
-I- to change one or more of these use PndSttMvdGemTracking:SetBranchName( TStrings );
the order of TStrings is mvd pixel name, mvd strip name, stt name, gem name
starting track for extrapolation SttMvdTrack SttMvdTrackCand
-I- -----
-I- PndSttMvdGemTracking: using default PDG -13
-I- PndSttMvdGemTracking: Intialisation successfull
-I- PndMCTrackAssociator::Init
[INFO ] Branch: STTHitMix not found in Tree
[INFO ] Branch: STTHitMix not found in Tree
```

```

-W- PndMCTrackAssociator::Init: Using STTHit array
[INFO ] Branch: MVDHitsStripMix not found in Tree
[INFO ] Branch: MVDHitsStripMix not found in Tree
-W- PndMCTrackAssociator::Init: Using MVDHitsStrip array
[INFO ] Branch: MVDHitsPixelMix not found in Tree
[INFO ] Branch: MVDHitsPixelMix not found in Tree
-W- PndMCTrackAssociator::Init: Using MVDHitsPixel
-I- PndRecoKalmanTask:Init :: Using GeaneTrackRep
#####Mapper:filltubearray#####
fGeoType=1
*** PndRecoKalmanFit::Init MVDHitsStrip array found
*** PndRecoKalmanFit::Init MVDHitsPixel array found
[INFO ] Branch: SttHelixHit not found in Tree
[INFO ] Branch: SttHelixHit not found in Tree
*** PndRecoKalmanFit::Init SttHit array found
*** PndRecoKalmanFit::Init GEMHit array found
*** PndRecoKalmanFit::Init MdtHit array found
*** PndRecoKalmanFit::Init FtsHit array found
===PndRecoKalmanFit::Init() finished
=====
-I- PndMCTrackAssociator::Init
[INFO ] Branch: STTHitMix not found in Tree
[INFO ] Branch: STTHitMix not found in Tree
-W- PndMCTrackAssociator::Init: Using STTHit array
[INFO ] Branch: MVDHitsStripMix not found in Tree
[INFO ] Branch: MVDHitsStripMix not found in Tree
-W- PndMCTrackAssociator::Init: Using MVDHitsStrip array
[INFO ] Branch: MVDHitsPixelMix not found in Tree
[INFO ] Branch: MVDHitsPixelMix not found in Tree
-W- PndMCTrackAssociator::Init: Using MVDHitsPixel
Warning in <TDatabasePDG::TDatabasePDG>: object already instantiated
-I- PndRecoKalmanTask:Init :: Using GeaneTrackRep
#####Mapper:filltubearray#####
fGeoType=1
*** PndRecoKalmanFit::Init MVDHitsStrip array found
*** PndRecoKalmanFit::Init MVDHitsPixel array found
[INFO ] Branch: SttHelixHit not found in Tree
[INFO ] Branch: SttHelixHit not found in Tree
*** PndRecoKalmanFit::Init SttHit array found
*** PndRecoKalmanFit::Init GEMHit array found
*** PndRecoKalmanFit::Init MdtHit array found
*** PndRecoKalmanFit::Init FtsHit array found
===PndRecoKalmanFit::Init() finished
=====
-I- PndMCTrackAssociator::Init
[INFO ] Branch: STTHitMix not found in Tree
[INFO ] Branch: STTHitMix not found in Tree
-W- PndMCTrackAssociator::Init: Using STTHit array
[INFO ] Branch: MVDHitsStripMix not found in Tree
[INFO ] Branch: MVDHitsStripMix not found in Tree
-W- PndMCTrackAssociator::Init: Using MVDHitsStrip array
[INFO ] Branch: MVDHitsPixelMix not found in Tree

```


*** ERTRGO *** Boundary loop: track 1 stack 0 NTMULT 0 MUON +
Precision now set to 0.250E-04

*** ERTRGO *** Boundary loop: track 1 stack 0 NTMULT 0 MUON +
Precision now set to 0.250E-04

could not convert GenfitTrack to PndTrack

Error in <TDecompSVD::Diagonalize>: no convergence after 21 steps

Error in <TDecompSVD::Diagonalize>: no convergence after 21 steps

Error in <TDecompSVD::Diagonalize>: no convergence after 21 steps

Error in <TArrayF::At>: index 545027 out of bounds (size: 544960, this: 0xb145c80)

Error in <TArrayF::At>: index 545026 out of bounds (size: 544960, this: 0xb13efb0)

Error in <TArrayF::At>: index 545027 out of bounds (size: 544960, this: 0xb13efb0)

Error in <TArrayF::At>: index 545026 out of bounds (size: 544960, this: 0xb147220)

Error in <TArrayF::At>: index 545027 out of bounds (size: 544960, this: 0xb147220)

Error in <TArrayF::At>: index 545026 out of bounds (size: 544960, this: 0xb145c80)

Error in <TArrayF::At>: index 545027 out of bounds (size: 544960, this: 0xb145c80)

Error in <TArrayF::At>: index 545026 out of bounds (size: 544960, this: 0xb13efb0)

Error in <TArrayF::At>: index 545027 out of bounds (size: 544960, this: 0xb13efb0)

Error in <TArrayF::At>: index 545026 out of bounds (size: 544960, this: 0xb147220)

Subject: Re: I want to do simulation for pid It is showing warning and error at the time of running

Posted by [Stefano Spataro](#) on Thu, 01 Aug 2013 07:16:06 GMT

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They are coming from the field maps and they are only warnings, don't worry.
