
Subject: Re: Time-based EMC simulation

Posted by [Stefano Spataro](#) on Sat, 14 Sep 2013 10:10:11 GMT

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Hi Dima,

I did a minimal macro (attached) to see which one produce the error. You can see that it is only the PndEmc constructor... very strange.

And putting some cout inside the PndEmc.cxx, it seems it is the cosnstructor call, before the fEmcCollection = new TConesArray("PndEmcPoint"); I removed this line, and I can see still the error.

Toggle Spoiler

root [0]

Processing sim_complete.C...

FairRootManager::OpenOutFile("sim_complete.root")

[INFO] Media file used : /home/spataro/apr13/trunk/geometry/media_pnd.geo

1

Error in <TClonesArray::SetClass>: called with a null pointer

pippo

2

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

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

-I- FairGeoMedia Read media

initialisation for run id 1379152900

[INFO] PndFieldMap: Reading field map from ROOT file
/home/spataro/apr13/trunk/input/TransMap.1500.root

[INFO] PndFieldMap: Reading field map from ROOT file
/home/spataro/apr13/trunk/input/DipoleMap1.1500.root

[INFO] PndFieldMap: Reading field map from ROOT file
/home/spataro/apr13/trunk/input/DipoleMap2.1500.root

[INFO] PndFieldMap: Reading field map from ROOT file
/home/spataro/apr13/trunk/input/SolenoidMap1.root

[INFO] PndFieldMap: Reading field map from ROOT file
/home/spataro/apr13/trunk/input/SolenoidMap2.root

[INFO] PndFieldMap: Reading field map from ROOT file
/home/spataro/apr13/trunk/input/SolenoidMap3.root

[INFO] PndFieldMap: Reading field map from ROOT file
/home/spataro/apr13/trunk/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 9486391 90C037 HEX

MZSTOR. Initialize Store 0 in /GCBANK/

with Store/Table at absolute adrs 9595637 9486391

HEX 926AF5 90C037

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.

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

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::CountLevels>: max level = 1, max placements = 0

Info in <TGeoManager::CloseGeometry>: 1 nodes/ 1 volume UID's in FAIR geometry

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

[INFO] Simulation RunID: 1379152900

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

Cross section calculation concluded successfully

[INFO] Monte carlo Engine Initialisation with : TGeant3TGeo

**** GTRIGI: IEVENT= 1 IDEVT= 1 Random Seeds = ***** 0

[INFO] FairPrimaryGenerator: (Event 1) 5 primary tracks from vertex (0.000000, 0.000000, 0.000000) with beam gradient (0.000000, 0.000000) Event Time = 11.700584 (ns)

[INFO] *** FairBaseParSet written to ROOT file version: 1

[INFO] *** PndMultiFieldPar written to ROOT file version: 1

[INFO] *** PndGeoPassivePar written to ROOT file version: 1

RealTime=4.609885 seconds, CpuTime=1.120000 seconds

Test passed

All ok

(int)243514496

I did something simpler, calling the cosnteructor from the root prompt:

```
spataro@briareos:~/apr13/trunk/macro$ root -l
```

```
root [0] PndEmc *pippo1
```

```
Error in <TClonesArray::SetClass>: called with a null pointer
```

```
root [1] PndEmc *pippo2
root [2] PndEmc *pippo3
root [3]
```

The first constructor gives the error, the second not. But I cannot see anything in PndEmc which access to global stuff.

File Attachments

1) [sim_complete.C](#), downloaded 306 times
