Subject: Re: Time-based EMC simulation
Posted by StefanoSpataro 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 cosntructor call, before the fEmcCollection = new TConesArray("PndEmcPoint"); I removed this line, and I can see still the error.

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```
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 gradiant (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 447 times