
Subject: Re: Detector materials with radiation length not equal to zero
Posted by [Raghav Kunnawalkam](#) on Wed, 21 Mar 2012 02:57:26 GMT
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Hi Mohammad and Florian

Thanks a lot for your info. I was away and sick for the past few days so i could not get to work on this till now.

I did the update as you suggested and it looks like the example is working but my eic is not quite running properly.

root does not give me any errors actually but it is also not producing anything in the root files. I am puzzled by this information given to me by root.

```
...
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
Error in <TString::AssertElement>: out of bounds: i = 10, Length = 8
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>: 6 nodes/ 6 volume UID's in FAIR geometry
Info in <TGeoManager::CloseGeometry>: -----modeler ready-----
[INFO ] [20.03.2012 21:19:13] [FairMCApplication.cxx::InitGeometry:716] Simulation RunID:
832549119
```

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

```
Cross section calculation concluded successfully
[INFO ] [20.03.2012 21:19:13] [FairMCApplication.cxx::InitMC:226] Monte carlo Engine
Initialisation with : TGeant3TGeo
**** GTRIGI: IEVENT= 1 IDEVT= 1 Random Seeds = 4357 0
[INFO ] [20.03.2012 21:19:13] [FairPrimaryGenerator.cxx::GenerateEvent:170]
FairPrimaryGenerator: (Event 1) 1 primary tracks from vertex (0.000000, 0.000000, 0.000000)
) Event Time = 0.000000 (ns)
```

```
*** GTRACK *** More than 10000 steps, tracking abandoned!
=====> TRACK 1 STACK NR 0 NTMULT= 1 GEANTINO TOFG
=***** NS
      X      Y      Z      R  NAME NUMBER  SLENG  STEP  DESTEP  GEKIN
MECHANISMS
      0.0000  0.0000   NaN  0.0000 cave  1 ***** 0.0 eV Infinity TeV
SMAX STOP
IEVENT 1 IDEVT 1 Random Seeds 4357 0 Time of flight ***** ns
```

```
-I- FairStack: Filling MCTrack array...
-I- FairStack: Number of primaries      = 1
      Total number of particles = 1
      Number of tracks in output = 1
Track 0, mother : -1, Type 0, momentum (7.23999, -0.0117479, inf) GeV
      Ref 0, TutDet 0, Rutherford 0
-I- FairStack: Updating track indices.....stack and 1 collections updated.
```

Macro finished succesfully.

Output file is /Users/raghav/fairroot/example/eicroot/simpletracker/macros/data/eic.mc. root
Parameter file is /Users/raghav/fairroot/example/eicroot/simpletracker/macros/data/params_
eic.root
Real time 1.4036 s, CPU time 0.95s

(int)1997311856

I do not understand what does it mean when it says that the geantino has more than 1000 steps.

Also, just another point on the example rutherford, i am still not able to see any tracks on the event display. Is it something to do with initializing tracks in the eventDisplay.C macro?

Regarding the tracks, it does like when i try to set any cuts. (this i am very doubtful on because sometimes it takes it and other times it does not take it)

Another question i have is, does the matter of initializing the box generator, set tracks etc.. in the macro count? (it may be a very stupid question in that it obviously counts, but i would like a general solution like first i define this, then that etc...)

Thanks a lot for all your help

Raghav