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Subject: Crash in DIRC with G4

Posted by [Stefano Spataro](#) on Wed, 18 Jan 2012 17:24:21 GMT

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Hi,

I have tried to run DIRC simulation with G4 and I have the following crash:

```
Toggle Spoilerspataro@briareos:~/jan12/pandaroot/macro/drc$ rt sim_dirc.C
root [0]
Processing sim_dirc.C...
Warning in <TClassTable::Add>: class PndSdsMCPoint already in TClassTable
Warning in <TClassTable::Add>: class PndSdsStrip already in TClassTable
Warning in <TClassTable::Add>: class PndSdsDigi already in TClassTable
Warning in <TClassTable::Add>: class PndSdsDetector already in TClassTable
[INFO ] Media file used : /home/spataro/jan12/pandaroot/geometry/media_pnd.geo
[INFO ] ===== FairRunSim: Initialising simulation run =====
Info in <TGeoManager::TGeoManager>: Geometry FAIRGeom, FAIR geometry created
-l- FairGeoMedia Read media
[INFO ] Create visualisation manager
Loading Geant4 global libraries ...Our Macro
Loading Library libG4Tree
Loading Library libG4FR
Loading Library libG4GMocren
Loading Library libG4visHepRep
Loading Library libG4RayTracer
Loading Library libG4VRML
Loading Library libG4vis_management
Loading Library libG4modeling
Loading Library libG4interfaces
Loading Library libG4persistency
Loading Library libG4analysis
Loading Library libG4error_propagation
Loading Library libG4readout
Loading Library libG4physicslists
Loading Library libG4run
Loading Library libG4event
Loading Library libG4tracking
Loading Library libG4parmodels
Loading Library libG4processes
Loading Library libG4digits_hits
Loading Library libG4track
Loading Library libG4particles
Loading Library libG4geometry
Loading Library libG4materials
Loading Library libG4graphics_reps
Loading Library libG4intercoms
Loading Library libG4global
Loading Library libG4clhep
Loading VGM libraries ...
Loading g4root library ...
Loading libraries ... finished
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 default geometry

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

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>: 207 nodes/ 19 volume UID's in FAIR geometry  
Info in <TGeoManager::CloseGeometry>: -----modeler ready-----  
Info in <TG4RootNavMgr::SetNavigator>: TG4RootNavigator created and registered to  
G4TransportationManager  
Running TVirtualMCApplication::ConstructGeometry

\*\*\*\*\*

Geant4 version Name: geant4-09-05-ref-00 (2-December-2011)  
Copyright : Geant4 Collaboration  
Reference : NIM A 506 (2003), 250-303  
WWW : <http://cern.ch/geant4>

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Info in <TG4RootNavMgr::Initialize>: Creating G4 hierarchy ...  
Info in <TGeoManager::ConvertReflections>: Converting reflections in: FAIRGeom - FAIR  
geometry ...  
Info in <TGeoManager::ConvertReflections>: Done  
==> GEANT4 materials created and mapped to TGeo ones...

----- EEEE ----- G4Exception-START ----- EEEE -----

\*\*\* G4Exception : G4Root\_F003  
issued by : TG4RootDetectorConstruction::CreateG4LogicalVolume  
Cannot make material for volume: BarrelDIRC

\*\*\* Fatal Exception \*\*\* core dump \*\*\*

----- EEEE ----- G4Exception-END ----- EEEE -----

\*\*\* G4Exception: Aborting execution \*\*\*  
spataro@briareos:~/jan12/pandaroot/macro/drc\$

In order to see this I have run macro/drc/sim\_dir.C. If I use G3 I have no crash. This affects all  
the macros using G4. Could somebody please check what is going wrong?  
I am using jan12 and latest trunk.