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Subject: [FIXED] crash in run/sim\_complete.C with Geant4  
Posted by [Maria Patsyuk](#) on Tue, 14 Jan 2014 08:37:11 GMT  
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Dear all,

with the updated svn (23427) I'm getting the following crash in run/sim\_complete.C, when using it with Geant4. I've looked on my previous topics about errors in these macros - now my errors look differently from the previous ones that's why I'm posting them (again). The simulation macro is attached. The error looks like the following:

```
root -l sim_completeG.C
root [0]
Processing sim_completeG.C...
FairRootManager::OpenOutFile("sim_complete_small.root")
[INFO ] Media file used : /u/mpatsyuk/PANDA/new_trunk/geometry/media_pnd.geo
Info in (PndGeoHandling::Instance): Making a new instance using the framework.
[INFO ] ===== FairRunSim: Initialising simulation run =====
Info in <TGeoManager::TGeoManager>: Geometry FAIRGeom, FAIR geometry created
-l- FairGeoMedia Read media
-l- container name PndEmcGeoPar
-l- container name PndEmcDigiPar
-l- container name PndEmcDigiNonuniformityPar
```

```
*****
```

```
initialisation for run id 1389687983
```

```
*****
```

```
-l- FairRunTimeDB::InitContainer() PndSensorNamePar
[ERROR ] init() PndSensorNamePar not initialized
-l- FairRunTimeDB::InitContainer() PndEmcGeoPar
[ERROR ] init() PndEmcGeoPar not initialized
-l- FairRunTimeDB::InitContainer() PndEmcDigiPar
PndEmcDigiPar initialized from Ascii file
-l- FairRunTimeDB::InitContainer() PndEmcDigiNonuniformityPar
[ERROR ] init() PndEmcDigiNonuniformityPar not initialized
Error in <FairRuntimeDb::initContainers(>: Error occured during initialization
[INFO ] PndFieldMap: Reading field map from ROOT file
/u/mpatsyuk/PANDA/new_trunk/input/TransMap.1500.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/u/mpatsyuk/PANDA/new_trunk/input/DipoleMap1.1500.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/u/mpatsyuk/PANDA/new_trunk/input/DipoleMap2.1500.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/u/mpatsyuk/PANDA/new_trunk/input/SolenoidMap1.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/u/mpatsyuk/PANDA/new_trunk/input/SolenoidMap2.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/u/mpatsyuk/PANDA/new_trunk/input/SolenoidMap3.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/u/mpatsyuk/PANDA/new_trunk/input/SolenoidMap4.root
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 libG3toG4  
Loading Library libG4interfaces  
Loading Library libG4persistence  
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

```
*****  
Geant4 version Name: geant4-09-06-patch-01 (1-February-2013)  
Copyright : Geant4 Collaboration  
Reference : NIM A 506 (2003), 250-303  
WWW : http://cern.ch/geant4  
*****
```

Adding HadronPhysicsList QGSP\_BERT\_EMV  
G4PhysListFactory::GetReferencePhysList <QGSP\_BERT\_EMV> EMOption= 1  
<<< Geant4 Physics List simulation engine: QGSP\_BERT 4.0

<<< Reference Physics List QGSP\_BERT\_EMV is built

Adding ExtraPhysicsList optical  
Adding SpecialPhysicsList stepLimiter+specialCuts+  
Available UI session types: [ GAG, tcsh, csh ]  
Visualization Manager instantiating with verbosity "warnings (3)"...  
Geant4 has been created.  
-I g4Config() using g4conf macro: /u/mpatsyuk/PANDA/new\_trunk/gconfig/g4config.in  
Seed for HepJamesRandom must be non-negative

Seed value supplied was -482490914  
Using its absolute value instead  
SetCuts Macro: Setting Processes..  
SetCuts Macro: Setting cuts..  
++++ TG4Warning: ++++  
TG4G3CutVector::CheckCutValue:  
PPCUTM cut value 1 MeV is lower than 2\*e\_mass.  
The cut will be ignored.  
+++++

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  
/u/mpatsyuk/PANDA/new\_trunk/geometry/beampipe\_201309.root  
-l container name PndGeoSttPar  
-l- STT total number of tubes: 4542

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

Focusing = 0  
=====

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 = 12, max placements = 4550  
Info in <TGeoManager::CloseGeometry>: 125103 nodes/ 4112 volume UID's in FAIR geometry  
Info in <TGeoManager::CloseGeometry>: -----modeler ready-----  
Converting Root geometry to Geant4 via VGM ...

----- EEEE ----- G4Exception-START ----- EEEE -----  
\*\*\* G4Exception : GeomSolids0002  
issued by : G4Polycone::G4Polycone()  
Cannot create a Polycone with no contiguous segments.  
Segments are not contiguous !  
rMin[3] = 45 -- rMax[4] = 31  
rMin[4] = 30 -- rMax[3] = 46  
\*\*\* Fatal Error In Argument \*\*\* core dump \*\*\*  
----- EEEE ----- G4Exception-END ----- EEEE -----

\*\*\* G4Exception: Aborting execution \*\*\*

Could you please help me with it?

Best regards,  
Maria

File Attachments

1) [sim\\_completeG.C](#), downloaded 285 times

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