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
-I- FairGeoMedia  Read media
 -I container name PndEmcGeoPar
 -I container name PndEmcDigiPar
 -I container name PndEmcDigiNonuniformityPar

************************************************************
    initialisation for run id 1389687983
************************************************************
-I- FairRunTimeDB::InitContainer() PndSensorNamePar
[ERROR  ] init() PndSensorNamePar  not initialized
-I- FairRunTimeDB::InitContainer() PndEmcGeoPar
[ERROR  ] init() PndEmcGeoPar  not initialized
-I- FairRunTimeDB::InitContainer() PndEmcDigiPar
PndEmcDigiPar initialized from Ascii file
-I- 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 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

************************************************************
 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
<I> PndPipe - Using geometry
/u/mpatsyuk/PANDA/new_trunk/geometry/beampipe_201309.root
 -I container name PndGeoSttPar
-I- 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 468 times