Subject: Re: Segmentation Violation when simulating events with run_sim1.C
Posted by Marius Mertens on Wed, 04 Feb 2009 14:13:00 GMT
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Hi Ralf,

changing back to standard geo gives me this:

Toggle Spoiler
Processing Mrun_sim1_PndFlatGen.C(3600, "
/home/mertens/pandaroot/myoutput/20090204_flatgen_g4_crashtest_standardg eo.root ")...
- RTDB container factory CbmBaseContFact
- RTDB container factory PndFieldContFact
- RTDB container factory PndPassiveContFact

PSaid instance created... access via gSaid->f()

- RTDB container factory PndEmcContFact
- RTDB container factory PndTpcContFact
- RTDB container factory PndSttContFact
- RTDB container factory PndMvdContFact
- RTDB container factory PndTofContFact
- RTDB container factory PndDrcContFact
- RTDB container factory PndMdtContFact
- RTDB container factory PndDchContFact
- RTDB container factory PndLheContFact
-I- CbmRun::SetMaterials() Media file used:
/home/mertens/pandaroot/pandaroot/trunk/geometry/media_pnd.geo

============== CbmRunSim: Initialising simulation run ==============
Info in <TGeoManager::TGeoManager>: Geometry CBMGeom, CBM geometry created
-I- CbmGeoMedia Read media
-I- PndFieldMap: Reading field map from ROOT file
/home/mertens/pandaroot/pandaroot/trunk/input/TransMap.root
-I- PndFieldMap: Reading field map from ROOT file
/home/mertens/pandaroot/pandaroot/trunk/input/DipoleMap.root
-I- PndFieldMap: Reading field map from ROOT file
/home/mertens/pandaroot/pandaroot/trunk/input/SolenoidMap.root
Loading Geant4 granular libraries ...
Error in <TUnixSystem::DynamicPathName>: libG4OpenGL[.so | .sl | .dl | .a | .dll] does not
exist in .:/usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib::/usr/local
/panda/fairroot/fairsoft/tools/root_v5.20.00/lib:/usr/lib:/usr/X11R6/lib
:/home/mertens/pandaroot/cbuild/lib:/home/mertens/pandaroot/cbuild/lib:/
home/mertens/pandaroot/tools/root/lib:/home/mertens/pandaroot/generators
/lib:/home/mertens/pandaroot/generators/lib:/home/mertens/pandaroot/tran
sport/geant3/lib/tgt_linux:/home/mertens/pandaroot/transport/geant4/lib/
Linux-g++:/home/mertens/pandaroot/transport/geant4_vmc/lib/tgt_linux:/ho
me/mertens/pandaroot/transport/vgm/lib:/home/mertens/pandaroot/cern/clhe
p/lib:/usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/cint/cint/s tl
Loading VGM libraries ...
Loading libraries ... finished
Info in <TGeoManager::SetTopVolume>: Top volume is cave. Master volume is cave

```
Material aluminium is not defined
Create Medium aluminium
Material iron is not defined
Create Medium iron
 --- Building TPC Geometry ---
Material silicon is not defined
Create Medium silicon
Material carbon is not defined
Create Medium carbon

 ====== EMC::  ConstructASCIIGeometry() ======
 ============================================
PndEmcReader: EMC geometry file ==
/home/mertens/pandaroot/pandaroot/trunk/geometry/emc_module1245.dat
Emc module = 1
********
Emc module = 2
********
Emc module = 3
********
Emc module = 4
********
Emc module = 5
********

 ====== EMC::  ConstructRootGeometry() ======
 ============================================
File name = /home/mertens/pandaroot/pandaroot/trunk/geometry/emc_module3new.root

 =======  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 <TGeoNavigator::BuildCache>: --- Maximum geometry depth set to 100
Info in <TGeoManager::CloseGeometry>: 464316 nodes/ 1251 volume UID's in CBM geometry
Info in <TGeoManager::CloseGeometry>: ----------------modeler ready----------------
Material DCHmixture is not defined
Create Medium DCHmixture
Material DCHmixturePassive is not defined
Create Medium DCHmixturePassive
CbmMCApplication::ConstructGeometry() : Now closing the geometry
Warning in <TGeoManager::CloseGeometry>: geometry already closed
Info in <TG4RootNavMgr::SetNavigator>: TG4RootNavigator created and registered to
G4TransportationManager
Running TVirtualMCApplication::ConstructGeometry
*************************************************************
 Geant4 version Name: geant4-09-01-patch-02    (9-May-2008)
                      Copyright : Geant4 Collaboration
                      Reference : NIM A 506 (2003), 250-303
```

```
                      WWW : http://cern.ch/geant4
************************************************************

Info in <TG4RootNavMgr::Initialize>: Creating G4 hierarchy ...
Info in <TGeoManager::ConvertReflections>: Converting reflections in: CBMGeom - CBM
geometry ...
Info in <TGeoManager::ConvertReflections>: Done
===> GEANT4 materials created and mapped to TGeo ones...
===> GEANT4 physical volumes created and mapped to TGeo hierarchy...
### INFO: TG4RootDetectorConstruction::Construct() finished
TG4PostDetConstruction::Initialize
G4 Stat: instantiated 2178 logical volumes
                     75663 physical volumes
The tables for UV photon tracking set for FusedSil
The tables for UV photon tracking set for NLAK33A
The tables for UV photon tracking set for Mirror
The tables for UV photon tracking set for Marcol82
The tables for UV photon tracking set for DIRCair
The tables for UV photon tracking set for DIRCairNoSens
Info in <TG4RootNavMgr::ConnectToG4>: ROOT detector construction class connected to
G4RunManager
Adding HadronPhysicsList QGSP_BERT_EMV

<<< Geant4 Physics List engine packaging library: PACK 5.4
<<< Geant4 Physics List simulation engine: QGSP_BERT_EMV 1.0

Adding SpecialPhysicsList stepLimiter+specialCuts+specialControls
Debug mode is switched on.
Visualization Manager instantiating...
Visualization Manager initialising...
Registering graphics systems...

You have successfully registered the following graphics systems.
Current available graphics systems are:
  ASCIITree (ATree)
  DAWNFILE (DAWNFILE)
  G4HepRepFile (HepRepFile)
  G4HepRep (HepRepXML)
  RayTracer (RayTracer)
  VRML1FILE (VRML1FILE)
  VRML2FILE (VRML2FILE)

Registering model factories...

You have successfully registered the following model factories.
Registered model factories:
  drawByCharge
  drawByParticleID

Registered filter factories:
  None
```

```
Geant4 has been created.
 -I g4Config() using g4conf  macro:
/home/mertens/pandaroot/pandaroot/trunk/gconfig/g4config.in
Physics cuts with script
 /home/mertens/pandaroot/pandaroot/trunk/gconfig/SetCuts.C
SetCuts Macro: Setting Processes..
SetCuts Macro: Setting cuts..
SetCuts Macro: Setting Processes..
SetCuts Macro: Setting cuts..
### Adding Neutron tracking cut for neutron
###  cut value is 10 microseconds
### Hadron physics constructed.
### Processes mapped to VMC controls ok.
### Step limiter physics constructed.
### Special Cuts constructed.
### Special Controls constructed.
### User particles physics constructed.
### Processes mapped to VMC codes ok.
 -I- Initializing PndMvdDetector()
 -I- PndDrc: Intialization successfull

************************************************************
     initialisation for run id 1838389595
************************************************************
Error in <CbmBaseParSet::init()>: CbmBaseParSet not initialized
Error in <PndGeoPassivePar::init()>: PndGeoPassivePar not initialized
Error in <PndTpcGeoPar::init()>: PndTpcGeoPar not initialized
Error in <PndGeoTofPar::init()>: PndGeoTofPar not initialized
Error in <PndGeoDrcPar::init()>: PndGeoDrcPar not initialized
Error in <CbmRuntimeDb::initContainers()>: Error occured during initialization
 -I- CbmMCApplication ->  simulation RunID:  1838389595

*********************************************
    GEANT4 Geometry statistics:
          2178 logical volumes
         75663 physical volumes
            22 materials
            21 user limits
          1262 sensitive detectors
*********************************************

 -I- CbmMCApplication:: Monte carlo Engine Initialisation  with TGeant4
create PndFieldPar container PndMultiFieldPar
create PndFieldPar container PndTransPar
create PndFieldPar container PndDipolePar
create PndFieldPar container PndSolenoidPar

 *** Break *** segmentation violation
Using host libthread_db library "/lib/libthread_db.so.1".
Attaching to program: /proc/6622/exe, process 6622
[Thread debugging using libthread_db enabled]
[New Thread -1227893040 (LWP 6622)]
```

0xb7f7b410 in __kernel_vsyscall ()
#1 0xb6dbd5c3 in __waitpid_nocancel () from /lib/libc.so.6
#2 0xb6d67d3b in do_system () from /lib/libc.so.6
#3 0xb6e6d51d in system () from /lib/libpthread.so.0
#4 0xb7a3c24d in TUnixSystem::Exec ()
   from /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCore.so.5. 20
#5 0xb7a41717 in TUnixSystem::StackTrace ()
   from /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCore.so.5. 20
#6 0xb7a4071e in TUnixSystem::DispatchSignals ()
   from /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCore.so.5. 20
#7 0xb7a407ed in SigHandler ()
   from /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCore.so.5. 20
#8 0xb7a39734 in sighandler ()
   from /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCore.so.5. 20
#9 <signal handler called>
#10 0xb6d9cd8b in strlen () from /lib/libc.so.6
#11 0xb79769ac in TDirectory::cd1 ()
   from /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCore.so.5. 20
#12 0xb7976a44 in TDirectory::cd ()
   from /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCore.so.5. 20
#13 0xb6b12bd9 in TDirectoryFile::cd ()
   from /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libRIO.so
#14 0xb6b20afc in TFile::GetStreamerInfoList ()
   from /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libRIO.so
#15 0xb6b1ef62 in TFile::ReadStreamerInfo ()
   from /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libRIO.so
#16 0xb6b227bd in TFile::Init ()
   from /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libRIO.so
#17 0xb6b23b61 in TFile::TFile ()
   from /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libRIO.so
#18 0xb4322c52 in CbmParRootFile (this=0xd40dc48, fname=0xd405004 "testparams.root",
    option=0xb4362a4f "UPDATE", ftitle=0xb43635cc "", compress=1)
    at /home/mertens/pandaroot/pandaroot/trunk/parbase/CbmParRootFileIo.cxx:46
#19 0xb4322dad in CbmParRootFileIo::open (this=0xd40d860, fname=0xd405004
"testparams.root",
    option=0xb4362a4f "UPDATE", ftitle=0xb43635cc "", compress=1)
    at /home/mertens/pandaroot/pandaroot/trunk/parbase/CbmParRootFileIo.cxx:114
#20 0xb4354174 in G__ParBaseDict_153_0_3 (result7=0xbfa71cf0, funcname=0xd4050f8
"\001",
    libp=0xbfa6b884, hash=0) at
/home/mertens/pandaroot/cbuild/parbase/ParBaseDict.cxx:5167
#21 0xb717b74a in Cint::G__ExceptionWrapper ()
   from /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCint.so.5. 20
#22 0xb7237cf8 in G__execute_call ()
   from /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCint.so.5. 20
#23 0xb7238d4d in G__call_cppfunc ()
   from /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCint.so.5. 20
#24 0xb7210de7 in G__interpret_func ()
   from /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCint.so.5. 20
#25 0xb71ffdd3 in G__getfunction ()
   from /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCint.so.5. 20
#26 0xb72ecc22 in G__getstructmem ()

```
   from  /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCint.so.5. 20
#27 0xb72e2a80 in G__getvariable ()
   from  /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCint.so.5. 20
#28 0xb71d2751 in G__getitem ()
   from  /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCint.so.5. 20
#29 0xb71d9df2 in G__getexpr ()
   from  /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCint.so.5. 20
#30 0xb726ae9d in G__exec_statement ()
   from  /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCint.so.5. 20
#31 0xb7212d9c in G__interpret_func ()
   from  /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCint.so.5. 20
#32 0xb71ffe36 in G__getfunction ()
   from  /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCint.so.5. 20
#33 0xb71d2841 in G__getitem ()
   from  /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCint.so.5. 20
#34 0xb71d9df2 in G__getexpr ()
   from  /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCint.so.5. 20
#35 0xb71e6600 in G__calc_internal ()
   from  /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCint.so.5. 20
#36 0xb7273f8a in G__process_cmd ()
   from  /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCint.so.5. 20
#37 0xb7a2ed65 in TCint::ProcessLine ()
   from  /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCore.so.5. 20
#38 0xb7a2ea1f in TCint::ProcessLineSynch ()
   from  /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCore.so.5. 20
#39 0xb79638e8 in TApplication::ExecuteFile ()
   from  /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCore.so.5. 20
#40 0xb7963c24 in TApplication::ProcessFile ()
   from  /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCore.so.5. 20
#41 0xb7960d6b in TApplication::ProcessLine ()
   from  /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libCore.so.5. 20
#42 0xb6fc92b9 in TRint::Run ()
   from  /usr/local/panda/fairroot/fairsoft/tools/root_v5.20.00/lib/libRint.so.5. 20
#43 0x08048e23 in main ()
Root > Function Mrun_sim1_PndFlatGen() busy flag cleared
```

However, as it got worse in the meantime and now crashes even earlier than before (without any changes I'm aware of), I'll also try the standard geo once again after a clean boot and see what this gives.

Best regards,

Marius