
Subject: Re: New Solenoid and MVD

Posted by [Stefano Spataro](#) on Tue, 08 Apr 2008 15:48:24 GMT

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Hi,

I have seen that if I run the MVD macro macro/mvd/runMvdSim.C (I have tried only 100 events) with the old geometry MVD14.root everything runs fine.

If I substitute the geometry namefile with the new one MVD_1.0_Pv-1.0_Sv-1.0.root, under Geant3 the macro runs fine as well.

But, when I try to quit ROOT with the .q command I have the following error (backtraced with gdb):

Toggle Spoiler

```
**** GTRIGI: IEVENT= 99 IDEVT= 99 Random Seeds = 4357 0
CbmMCApplication::GeneratePrimaries()
-I CbmPrimaryGenerator: 6 primary tracks from vertex (0, 0, 0)
**** GTRIGI: IEVENT= 100 IDEVT= 100 Random Seeds = 4357 0
CbmMCApplication::GeneratePrimaries()
-I CbmPrimaryGenerator: 6 primary tracks from vertex (0, 0, 0)
RuntimeDb: write container CbmBaseParSet
*** CbmBaseParSet written to ROOT file version: 1
RuntimeDb: write container PndGeoPassivePar
*** PndGeoPassivePar written to ROOT file version: 1
-----
----- actual containers in runtime database -----
CbmBaseParSet          Test class for parameter io
PndGeoPassivePar       Passive Geometry Parameters
----- runs, versions -----
run id
  container          1st-inp  2nd-inp  output
run: 1676608118
  CbmBaseParSet      1676608118    -1     1
  PndGeoPassivePar   1676608118    -1     1
----- input/output -----
first input: none
second input: none
output:
OBJ: CbmParRootFile  MvdParams.root : 0 at: 0x856a318
Root file I/O MvdParams.root is open
detector I/Os: CbmGenericParlo
RealTime=18.706288 seconds, CpuTime=15.590000 seconds
root [1] .q
```

Program received signal SIGILL, Illegal instruction.

[Switching to Thread -1222731584 (LWP 8366)]

Error while running hook_stop:

Invalid type combination in ordering comparison.

0x086e0d70 in ?? ()

gdb> bt

#0 0x086e0d70 in ?? ()

#1 0xb7a4962a in TCollection::GarbageCollect () from

```

/d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#2 0xb7a520b7 in TObjArray::Delete () from /d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#3 0xb6e5c39e in TGeoManager::~TGeoManager () from
/d/c0/cbmsoft/mar08/tools/root/lib/libGeom.so
#4 0xb7a4962a in TCollection::GarbageCollect () from
/d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#5 0xb7a4ef56 in TList::Delete () from /d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#6 0xb79fd6ac in TROOT::~TROOT () from /d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#7 0xb79fd820 in __tcf_0 () from /d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#8 0xb7244604 in __cxa_finalize () from /lib/libc.so.6
#9 0xb79bcb43 in __do_global_dtors_aux () from
/d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#10 0xb7df691c in _fini () from /d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#11 0xb7fa5f4f in _dl_fini () from /lib/ld-linux.so.2
#12 0xb7244320 in exit () from /lib/libc.so.6
#13 0xb7a8afc6 in TUnixSystem::Exit () from /d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#14 0xb749d177 in TRint::Terminate () from /d/c0/cbmsoft/mar08/tools/root/lib/libRint.so.5.18
#15 0xb79bfd1f in TApplication::ProcessLine () from
/d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#16 0xb749e285 in TRint::HandleTermInput () from
/d/c0/cbmsoft/mar08/tools/root/lib/libRint.so.5.18
#17 0xb749c7c5 in TTermInputHandler::Notify () from
/d/c0/cbmsoft/mar08/tools/root/lib/libRint.so.5.18
#18 0xb749ecb4 in TTermInputHandler::ReadNotify () from
/d/c0/cbmsoft/mar08/tools/root/lib/libRint.so.5.18
#19 0xb7a8d5eb in TUnixSystem::CheckDescriptors () from
/d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#20 0xb7a8e197 in TUnixSystem::DispatchOneEvent () from
/d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#21 0xb7a1811e in TSystem::InnerLoop () from
/d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#22 0xb7a1be2c in TSystem::Run () from /d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#23 0xb79bea28 in TApplication::Run () from /d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#24 0xb749e7d5 in TRint::Run () from /d/c0/cbmsoft/mar08/tools/root/lib/libRint.so.5.18
#25 0x08048e2b in main ()

```

If I run it under Geant4, I have the following error just at the beginning, in the initialization of the geometry:

```

Toggle Spoilerroot [0] .x runMvdSim.C
-I- CbmRun::SetMaterials() Media file used:
/home/spataro/dev/pandaroot/geometry/media_pnd.geo
-I- PndMvdDetector: fListOfSensitives contains:
    Disk-Sensor
    Barrel-Sensor
    StripSensor
    SensorActiveArea

```

```

===== CbmRunSim: Initialising simulation run =====
Info in <TGeoManager::TGeoManager>: Geometry CBMGeom, CBM geometry created
-I- CbmGeoMedia Read media

```

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CbmRunSim::Init() create visualisation manager
Loading Geant4 granular libraries ...
Loading VGM libraries ...
Loading libraries ... finished
Info in <TGeoManager::SetTopVolume>: Top volume is cave. Master volume is cave
Info in <TGeoManager::CloseGeometry>: Geometry loaded from file...
Info in <TGeoManager::SetTopVolume>: Top volume is TOP. Master volume is TOP
Info in <TGeoManager::CloseGeometry>: Voxelization retrieved from file
Info in <TGeoNavigator::BuildCache>: --- Maximum geometry depth set to 100
Info in <TGeoManager::CloseGeometry>: 6270 nodes/ 91 volume UID's in CAD to Root
Info in <TGeoManager::CloseGeometry>: -----modeler ready-----
Material silicon is not defined
Create Medium silicon
Material carbon is not defined
Create Medium carbon
CbmMCApplication::ConstructGeometry() : Now closing the geometry
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>: 6331 nodes/ 34 volume UID's in CBM geometry
Info in <TGeoManager::CloseGeometry>: -----modeler ready-----
Info in <TG4RootNavMgr::SetNavigator>: TG4RootNavigator created and registered to
G4TransportationManager
Running TVirtualMCApplication::ConstructGeometry
*****
Geant4 version Name: geant4-09-01 (14-December-2007)
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...
Cannot make material for volume: TOP
Aborting in CreateLogicalVolume()

*** G4Exception: Aborting execution ***

Program received signal SIGABRT, Aborted.
[Switching to Thread -1223378752 (LWP 8353)]
Error while running hook_stop:
Invalid type combination in ordering comparison.
0xffffe410 in __kernel_vsyscall ()
gdb> bt
#0 0xffffe410 in __kernel_vsyscall ()
#1 0xb71a3831 in raise () from /lib/libc.so.6
#2 0xb71a4ec9 in abort () from /lib/libc.so.6

```

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#3 0xb43d68d8 in G4Exception (emessage=0xb1f2d3bc "Aborting in CreateLogicalVolume()")
at G4Exception.cc:50
#4 0xb1f24db4 in TG4RootDetectorConstruction::CreateG4LogicalVolume () from
/d/c0/cbmsoft/mar08/tools/root/lib/libG4root.so
#5 0xb1f256e6 in TG4RootDetectorConstruction::CreateG4PhysicalVolume () from
/d/c0/cbmsoft/mar08/tools/root/lib/libG4root.so
#6 0xb1f25983 in TG4RootDetectorConstruction::CreateG4PhysicalVolumes () from
/d/c0/cbmsoft/mar08/tools/root/lib/libG4root.so
#7 0xb1f25a86 in TG4RootDetectorConstruction::Construct () from
/d/c0/cbmsoft/mar08/tools/root/lib/libG4root.so
#8 0xb1f23a19 in TG4RootDetectorConstruction::Initialize () from
/d/c0/cbmsoft/mar08/tools/root/lib/libG4root.so
#9 0xb1f26eef in TG4RootNavMgr::Initialize () from
/d/c0/cbmsoft/mar08/tools/root/lib/libG4root.so
#10 0xb1ead93d in TG4RunManager::ConfigureRunManager (this=0x866fe28) at
TG4RunManager.cxx:221
#11 0xb1eaf170 in TG4RunManager (this=0x866fe28, runConfiguration=0x832d808) at
TG4RunManager.cxx:147
#12 0xb1eb23c5 in TGeant4 (this=0x866ae78, name=0x8523eb4 "TGeant4", title=0x8656444
"The Geant4 Monte Carlo", configuration=0x832d808) at TGeant4.cxx:142
#13 0xb1edbf7 in G__geant4Cint_141_0_2 (result7=0xbf7c928c, funcname=0x8656c68
"\001", libp=0xbf7c57c4, hash=0x0) at
/automount/iago.physik.uni-giessen.de/root/local/cbmsoft/fairsoft/trans
port/geant4_vmc.r331/source/./tmp/tgt_linux/geant4Cint.cxx:1223
#14 0xb745bb1a in Cint::G__ExceptionWrapper () from
/d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#15 0xb7533101 in G__call_cppfunc () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#16 0xb750defb in G__interpret_func () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#17 0xb74fd5e0 in G__getfunction () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#18 0xb752c7bc in G__new_operator () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#19 0xb74e17fe in G__getexpr () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#20 0xb74d0b7e in G__define_var () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#21 0xb7559820 in G__exec_statement () from
/d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#22 0xb750ed29 in G__interpret_func () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#23 0xb74fd63f in G__getfunction () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#24 0xb74dc512 in G__getitem () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#25 0xb74e2190 in G__getexpr () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#26 0xb755aa59 in G__exec_statement () from
/d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#27 0xb74c8fb6 in G__exec_tempfile_core () from
/d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#28 0xb74c9236 in G__exec_tempfile_fp () from
/d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#29 0xb75645fb in G__process_cmd () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#30 0xb79c2636 in TCint::ProcessLine () from
/d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#31 0xb4ef570d in CbmMCApplication::InitMC (this=0x8560570, setup=0x863dc08
"/home/spataro/dev/pandaroot/gconfig/g4Config.C") at
/home/spataro/dev/pandaroot/base/CbmMCApplication.cxx:168
#32 0xb4f0852c in CbmRunSim::Init (this=0x8502fe8) at
/home/spataro/dev/pandaroot/base/CbmRunSim.cxx:145

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#33 0xb4f4313d in G__CbmDict_531_0_4 (result7=0xbf80195c, funcname=0x8505210 "\001", libp=0xbf7fde94, hash=0x0) at /home/spataro/dev/cmar08/base/CbmDict.cxx:9361
#34 0xb745bb1a in Cint::G__ExceptionWrapper () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#35 0xb7533101 in G__call_cppfunc () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#36 0xb750dc7c in G__interpret_func () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#37 0xb74fd5e0 in G__getfunction () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#38 0xb75c8d88 in G__getstructmem () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#39 0xb75bec4f in G__getvariable () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#40 0xb74dc47d in G__getitem () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#41 0xb74e2190 in G__getexpr () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#42 0xb755aa59 in G__exec_statement () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#43 0xb74c8fb6 in G__exec_tempfile_core () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#44 0xb74c9216 in G__exec_tempfile () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#45 0xb756a4ff in G__process_cmd () from /d/c0/cbmsoft/mar08/tools/root/lib/libCint.so.5.18
#46 0xb79c2636 in TCint::ProcessLine () from /d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#47 0xb79bd606 in TCint::ProcessLineSynch () from /d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#48 0xb7924757 in TApplication::ExecuteFile () from /d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#49 0xb7924c14 in TApplication::ProcessFile () from /d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#50 0xb7922156 in TApplication::ProcessLine () from /d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#51 0xb7400285 in TRint::HandleTermInput () from /d/c0/cbmsoft/mar08/tools/root/lib/libRint.so.5.18
#52 0xb73fe7c5 in TTermInputHandler::Notify () from /d/c0/cbmsoft/mar08/tools/root/lib/libRint.so.5.18
#53 0xb7400cb4 in TTermInputHandler::ReadNotify () from /d/c0/cbmsoft/mar08/tools/root/lib/libRint.so.5.18
#54 0xb79ef5eb in TUnixSystem::CheckDescriptors () from /d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#55 0xb79f0197 in TUnixSystem::DispatchOneEvent () from /d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#56 0xb797a11e in TSystem::InnerLoop () from /d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#57 0xb797de2c in TSystem::Run () from /d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#58 0xb7920a28 in TApplication::Run () from /d/c0/cbmsoft/mar08/tools/root/lib/libCore.so.5.18
#59 0xb74007d5 in TRint::Run () from /d/c0/cbmsoft/mar08/tools/root/lib/libRint.so.5.18
#60 0x08048e2b in main ()

So maybe something is wrong somewhere.
