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Subject: Re: New Solenoid geometry

Posted by [Stefano Spataro](#) on Sat, 01 Nov 2008 17:49:02 GMT

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Hi,

I have tried in my SL4.7 and also in the Gentoo Gießen cluster.

I have substituted in macro/run/run\_sim1.C "FullSolenoid.root" with "PandaSolenoidV833.root".

This is the error I get with TGeant4:

Toggle Spoiler

### Run 0 start.

CbmMCApplication::GeneratePrimaries()

-I CbmPrimaryGenerator: 10 primary tracks from vertex (0, 0, 0)Event Time = 0(ns)

>>> Event 0

\$\$\$ Primary track 10

CbmMCApplication::GeneratePrimaries()

-I CbmPrimaryGenerator: 10 primary tracks from vertex (0, 0, 0)Event Time = 0(ns)

>>> Event 1

Info in <TGeoShapeAssembly::DistFromInside>: Cannot compute distance from inside the assembly (but from a component)

Info in <TGeoShapeAssembly::DistFromInside>: Cannot compute distance from inside the assembly (but from a component)

\$\$\$ Primary track 10

CbmMCApplication::GeneratePrimaries()

-I CbmPrimaryGenerator: 10 primary tracks from vertex (0, 0, 0)Event Time = 0(ns)

>>> Event 2

\$\$\$ Primary track 10

Info in <TGeoShapeAssembly::DistFromInside>: Cannot compute distance from inside the assembly (but from a component)

Info in <TGeoShapeAssembly::DistFromInside>: Cannot compute distance from inside the assembly (but from a component)

Info in <TGeoShapeAssembly::DistFromInside>: Cannot compute distance from inside the assembly (but from a component)

Info in <TGeoShapeAssembly::DistFromInside>: Cannot compute distance from inside the assembly (but from a component)

CbmMCApplication::GeneratePrimaries()

-I CbmPrimaryGenerator: 10 primary tracks from vertex (0, 0, 0)Event Time = 0(ns)

>>> Event 3

\$\$\$ Primary track 10

CbmMCApplication::GeneratePrimaries()

-I CbmPrimaryGenerator: 10 primary tracks from vertex (0, 0, 0)Event Time = 0(ns)

>>> Event 4

Info in <TGeoShapeAssembly::DistFromInside>: Cannot compute distance from inside the assembly (but from a component)

Info in <TGeoShapeAssembly::DistFromInside>: Cannot compute distance from inside the assembly (but from a component)

\$\$\$ Primary track 10

\*\*\* Break \*\*\* segmentation violation

Using host libthread\_db library "/lib/libthread\_db.so.1".

Attaching to program: /proc/1358/exe, process 1358

```

[Thread debugging using libthread_db enabled]
[New Thread -1227659072 (LWP 1358)]
0xb7ef68a2 in _dl_sysinfo_int80 () from /lib/ld-linux.so.2
#1 0xb6df0a03 in waitpid () from /lib/libc.so.6
#2 0xb6d9b569 in strtold_l () from /lib/libc.so.6
#3 0xb6e9136d in system () from /lib/libpthread.so.0
#4 0xb7a1aaed in TUnixSystem::Exec () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCore.so.5.20
#5 0xb7a1f847 in TUnixSystem::StackTrace () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCore.so.5.20
#6 0xb7a1e84f in TUnixSystem::DispatchSignals () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCore.so.5.20
#7 0xb7a1e90d in SigHandler () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCore.so.5.20
#8 0xb7a17fc0 in sighandler () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCore.so.5.20
#9 0xb6d8e8c8 in killpg () from /lib/libc.so.6
#10 0xb69d93b2 in TGeoVoxelFinder::GetNextCandidates () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libGeom.so
#11 0xb69d72ba in TGeoVoxelFinder::GetNextVoxel () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libGeom.so
#12 0xb69b0bfc in TGeoShapeAssembly::DistFromOutside () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libGeom.so
#13 0xb69b0b25 in TGeoShapeAssembly::DistFromOutside () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libGeom.so
#14 0xb69b0b25 in TGeoShapeAssembly::DistFromOutside () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libGeom.so
#15 0xb69b0b25 in TGeoShapeAssembly::DistFromOutside () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libGeom.so
#16 0xb6989adb in TGeoNavigator::FindNextDaughterBoundary () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libGeom.so
#17 0xb698d7da in TGeoNavigator::FindNextBoundary () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libGeom.so
#18 0xb696e7f9 in TGeoManager::FindNextBoundary () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libGeom.so
#19 0xb03cff9f in TG4RootNavigator::ComputeStep () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libG4root.so

```

#20 0xb21ef96b in G4Transportation::AlongStepGetPhysicalInteractionLength (this=0xd28c728, track=@0xdd1b438, currentMinimumStep=265780.36571007274, currentSafety=@0xbf83e6e8, selection=0xb1de1a4) at G4Transportation.cc:230

#21 0xb0c78b4b in G4VProcess::AlongStepGPIL (this=0xd28c728, track=@0xdd1b438, previousStepSize=21.994409551450609, currentMinimumStep=265780.36571007274, proposedSafety=@0xbf83e6e8, selection=0xb1de1a4) at G4VProcess.hh:425

#22 0xb0c775c1 in G4SteppingManager::DefinePhysicalStepLength (this=0xb1de098) at G4SteppingManager2.cc:223

#23 0xb0c73bd6 in G4SteppingManager::Stepping (this=0xb1de098) at G4SteppingManager.cc:181

#24 0xb0c822b5 in G4TrackingManager::ProcessOneTrack (this=0xb1de070, apValueG4Track=0xdd1b438) at G4TrackingManager.cc:126

#25 0xb0b572ec in G4EventManager::DoProcessing (this=0xb1de028, anEvent=0xb1ea268) at G4EventManager.cc:185

#26 0xb0b57a80 in G4EventManager::ProcessOneEvent (this=0xb1de028, anEvent=0xb1ea268) at G4EventManager.cc:335

#27 0xb0afb103 in G4RunManager::DoEventLoop (this=0xb1ddf78, n\_event=10, macroFile=0x0, n\_select=-1) at G4RunManager.cc:235

#28 0xb0af9a8a in G4RunManager::BeamOn (this=0xb1ddf78, n\_event=10, macroFile=0x0, n\_select=-1) at G4RunManager.cc:140

#29 0xb03746b6 in TG4RunManager::ProcessRun () from /d/c0/cbmsoft/july08/transport/geant4\_vmc/lib/tgt\_linux/libgeant4vmc.so

#30 0xb03789f7 in TGeant4::ProcessRun () from /d/c0/cbmsoft/july08/transport/geant4\_vmc/lib/tgt\_linux/libgeant4vmc.so

#31 0xb44e1c59 in CbmMCApplication::RunMC (this=0x8736778, nofEvents=10) at /home/spataro/dev/pandaroot/base/CbmMCApplication.cxx:216

#32 0xb44f52fb in CbmRunSim::Run (this=0x869f088, NStart=10, NStop=0) at /home/spataro/dev/pandaroot/base/CbmRunSim.cxx:177

#33 0xb4534c9f in G\_\_CbmDict\_531\_0\_5 (result7=0xbf8467a0, funcname=0x869ca38 "\001", libp=0xbf840334, hash=0) at /home/spataro/dev/jul08/base/CbmDict.cxx:9241

#34 0xb717e38a in Cint::G\_\_ExceptionWrapper () from /.automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/root\_v5.20.00/lib/libCint.so.5.20

#35 0xb7227928 in G\_\_execute\_call () from /.automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/root\_v5.20.00/lib/libCint.so.5.20

#36 0xb72289b9 in G\_\_call\_cppfunc () from /.automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/root\_v5.20.00/lib/libCint.so.5.20

#37 0xb7202204 in G\_\_interpret\_func () from /.automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/root\_v5.20.00/lib/libCint.so.5.20

#38 0xb71f1b50 in G\_\_getfunction () from /.automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/root\_v5.20.00/lib/libCint.so.5.20

#39 0xb72d908e in G\_\_getstructmem () from /.automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/root\_v5.20.00/lib/libCint.so.5.20

#40 0xb72ceb87 in G\_\_getvariable () from /.automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/root\_v5.20.00/lib/libCint.so.5.20

#41 0xb71d09cd in G\_\_getitem () from

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./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCint.so.5.20
#42 0xb71d66e0 in G__getexpr () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCint.so.5.20
#43 0xb7254309 in G__exec_statement () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCint.so.5.20
#44 0xb71bd4e6 in G__exec_tempfile_core () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCint.so.5.20
#45 0xb71bd746 in G__exec_tempfile () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCint.so.5.20
#46 0xb7262d1c in G__process_cmd () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCint.so.5.20
#47 0xb7a0d7e6 in TCint::ProcessLine () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCore.so.5.20
#48 0xb7a0d45f in TCint::ProcessLineSynch () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCore.so.5.20
#49 0xb7941627 in TApplication::ExecuteFile () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCore.so.5.20
#50 0xb7941ae4 in TApplication::ProcessFile () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCore.so.5.20
#51 0xb793eca6 in TApplication::ProcessLine () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCore.so.5.20
#52 0xb6fea29d in TRint::Run () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libRint.so.5.20
#53 0x08048e4b in main ()
Root >

```

and with TGeant3:

Toggle Spoiler

----- input/output -----

first input: none

second input: none

output:

OBJ: CbmParRootFile testparams.root : 0 at: 0xb3e12c0

Root file I/O testparams.root is open

detector I/Os: CbmGenericParlo

\*\*\*\* GTRIGI: IEVENT= 1 IDEVT= 1 Random Seeds = 4357 0

CbmMCApplication::GeneratePrimaries()

-I CbmPrimaryGenerator: 10 primary tracks from vertex (0, 0, 0)Event Time = 0(ns)

```

*** Break *** segmentation violation
Using host libthread_db library "/lib/libthread_db.so.1".
Attaching to program: /proc/1378/exe, process 1378
[Thread debugging using libthread_db enabled]
[New Thread -1227614016 (LWP 1378)]
0xb7f018a2 in _dl_sysinfo_int80 () from /lib/ld-linux.so.2
#1 0xb6dfba03 in waitpid () from /lib/libc.so.6
#2 0xb6da6569 in strtold_l () from /lib/libc.so.6
#3 0xb6e9c36d in system () from /lib/libpthread.so.0
#4 0xb7a25aed in TUnixSystem::Exec () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/ro
oot_v5.20.00/lib/libCore.so.5.20
#5 0xb7a2a847 in TUnixSystem::StackTrace () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/ro
oot_v5.20.00/lib/libCore.so.5.20
#6 0xb7a2984f in TUnixSystem::DispatchSignals () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/ro
oot_v5.20.00/lib/libCore.so.5.20
#7 0xb7a2990d in SigHandler () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/ro
oot_v5.20.00/lib/libCore.so.5.20
#8 0xb7a22fc0 in sighandler () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/ro
oot_v5.20.00/lib/libCore.so.5.20
#9 <signal handler called>
#10 0xb69e1079 in TGeoVoxelFinder::GetValidExtra () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/ro
oot_v5.20.00/lib/libGeom.so
#11 0xb69e43b2 in TGeoVoxelFinder::GetNextCandidates () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/ro
oot_v5.20.00/lib/libGeom.so
#12 0xb69e22ba in TGeoVoxelFinder::GetNextVoxel () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/ro
oot_v5.20.00/lib/libGeom.so
#13 0xb69bbbfc in TGeoShapeAssembly::DistFromOutside () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/ro
oot_v5.20.00/lib/libGeom.so
#14 0xb69bbb25 in TGeoShapeAssembly::DistFromOutside () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/ro
oot_v5.20.00/lib/libGeom.so
#15 0xb69bbb25 in TGeoShapeAssembly::DistFromOutside () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/ro
oot_v5.20.00/lib/libGeom.so
#16 0xb69bbb25 in TGeoShapeAssembly::DistFromOutside () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/ro
oot_v5.20.00/lib/libGeom.so
#17 0xb6994adb in TGeoNavigator::FindNextDaughterBoundary () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/ro
oot_v5.20.00/lib/libGeom.so
#18 0xb69987da in TGeoNavigator::FindNextBoundary () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/ro
oot_v5.20.00/lib/libGeom.so

```



```

oot_v5.20.00/lib/libGeom.so
#19 0xb69797f9 in TGeoManager::FindNextBoundary () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libGeom.so
#20 0xb13b21d6 in gtnextTGeo () from
/d/c0/cbmsoft/july08/transport/geant3/lib/tgt_linux/libgeant321.so
#21 0xb13a581a in gtnext_ () from
/d/c0/cbmsoft/july08/transport/geant3/lib/tgt_linux/libgeant321.so
#22 0xb12147e5 in g3tgama_ () from
/d/c0/cbmsoft/july08/transport/geant3/lib/tgt_linux/libgeant321.so
#23 0xb12243be in g3track_ () from
/d/c0/cbmsoft/july08/transport/geant3/lib/tgt_linux/libgeant321.so
#24 0xb13b7057 in gutrak_ () from
/d/c0/cbmsoft/july08/transport/geant3/lib/tgt_linux/libgeant321.so
#25 0xb122577e in gtreveroot_ () from
/d/c0/cbmsoft/july08/transport/geant3/lib/tgt_linux/libgeant321.so
#26 0xb13b7027 in gutrev_ () from
/d/c0/cbmsoft/july08/transport/geant3/lib/tgt_linux/libgeant321.so
#27 0xb139bdcb in jump0_ () from
/d/c0/cbmsoft/july08/transport/geant3/lib/tgt_linux/libgeant321.so
#28 0xb10f4ebc in g3trig_ () from
/d/c0/cbmsoft/july08/transport/geant3/lib/tgt_linux/libgeant321.so
#29 0xb13a9087 in TGeant3::Gtrig () from
/d/c0/cbmsoft/july08/transport/geant3/lib/tgt_linux/libgeant321.so
#30 0xb13a567b in TGeant3::ProcessEvent () from
/d/c0/cbmsoft/july08/transport/geant3/lib/tgt_linux/libgeant321.so
#31 0xb13aa376 in TGeant3::ProcessRun () from
/d/c0/cbmsoft/july08/transport/geant3/lib/tgt_linux/libgeant321.so
#32 0xb44ecc59 in CbmMCApplication::RunMC (this=0x87367a0, nofEvents=10) at
/home/spataro/dev/pandaroot/base/CbmMCApplication.cxx:216
#33 0xb45002fb in CbmRunSim::Run (this=0x869f0b0, NStart=10, NStop=0) at
/home/spataro/dev/pandaroot/base/CbmRunSim.cxx:177
#34 0xb453fc9f in G__CbmDict_531_0_5 (result7=0xbfc853e0, funcname=0x869ca60 "\001",
libp=0xbfc7ef74, hash=0) at /home/spataro/dev/jul08/base/CbmDict.cxx:9241
#35 0xb718938a in Cint::G__ExceptionWrapper () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCint.so.5.20
#36 0xb7232928 in G__execute_call () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCint.so.5.20
#37 0xb72339b9 in G__call_cppfunc () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCint.so.5.20
#38 0xb720d204 in G__interpret_func () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCint.so.5.20
#39 0xb71fcb50 in G__getfunction () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCint.so.5.20
#40 0xb72e408e in G__getstructmem () from
./automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCint.so.5.20

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```
#41 0xb72d9b87 in G__getvariable () from
/.automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCint.so.5.20
#42 0xb71db9cd in G__getitem () from
/.automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCint.so.5.20
#43 0xb71e16e0 in G__getexpr () from
/.automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCint.so.5.20
#44 0xb725f309 in G__exec_statement () from
/.automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCint.so.5.20
#45 0xb71c84e6 in G__exec_tempfile_core () from
/.automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCint.so.5.20
#46 0xb71c8746 in G__exec_tempfile () from
/.automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCint.so.5.20
#47 0xb726dd1c in G__process_cmd () from
/.automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCint.so.5.20
#48 0xb7a187e6 in TCint::ProcessLine () from
/.automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCore.so.5.20
#49 0xb7a1845f in TCint::ProcessLineSynch () from
/.automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCore.so.5.20
#50 0xb794c627 in TApplication::ExecuteFile () from
/.automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCore.so.5.20
#51 0xb794cae4 in TApplication::ProcessFile () from
/.automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCore.so.5.20
#52 0xb7949ca6 in TApplication::ProcessLine () from
/.automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libCore.so.5.20
#53 0xb6ff529d in TRint::Run () from
/.automount/iago.physik.uni-giessen.de/root/local/cbmsoft/july08/tools/r
oot_v5.20.00/lib/libRint.so.5.20
#54 0x08048e4b in main ()
Root >
```

No idea on what is going wrong.