

Hi,

I suppose this goes to Mohammed. When I checked out rev. 2104 I was not able to run the G4 simulation any more. When reverting these changes it worked again.

Here the error output:

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```
===== CbmRunSim: Initialising simulation run =====
Info in <TGeoManager::TGeoManager>: Geometry CBMGeom, CBM geometry created
-I- CbmGeoMedia Read media
Loading Geant4 granular libraries ...
dlopen error: /data_hilbert/Software/fairroot/cbmsoft/transport/geant4/lib/Linux-g++/l
ibG4detutils.so: undefined symbol: _ZN18G4VPrimitiveScorer8GetIndexEP6G4Step
Load Error: Failed to load Dynamic link library
/data_hilbert/Software/fairroot/cbmsoft/transport/geant4/lib/Linux-g++/l ibG4detutils.so
(int)(-1)
*** Interpreter error recovered ***
Error: Symbol TG4RunConfiguration is not defined in current scope
/home/ralfk/Pandaroot/pandaroot/gconfig/g4Config.C:29:
Error: Symbol TG4RunConfiguration is not defined in current scope
/home/ralfk/Pandaroot/pandaroot/gconfig/g4Config.C:29:
Error: type TG4RunConfiguration not defined
FILE:/home/ralfk/Pandaroot/pandaroot/gconfig/g4Config.C LINE:29
Warning: Automatic variable TG4RunConfiguration* runConfiguration is allocated
/home/ralfk/Pandaroot/pandaroot/gconfig/g4Config.C:29:
Error: Undeclared variable TG4RunConfiguration* runConfiguration
/home/ralfk/Pandaroot/pandaroot/gconfig/g4Config.C:29:
*** Interpreter error recovered ***
```

```
Program received signal SIGSEGV, Segmentation fault.
[Switching to Thread -1226106080 (LWP 30897)]
0xb30379a9 in CbmMCApplication::InitMC (this=0x850caa0, setup=0x855f898
"/home/ralfk/Pandaroot/pandaroot/gconfig/g4Config.C")
    at /home/ralfk/Pandaroot/pandaroot/base/CbmMCApplication.cxx:165
165      fStack = (CbmGenericStack*) gMC->GetStack();
```

And the gdb backtrace gives:

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(gdb) bt

```
#0  0xb30379a9 in CbmMCApplication::InitMC (this=0x850caa0, setup=0x855f898
"/home/ralfk/Pandaroot/pandaroot/gconfig/g4Config.C")
    at /home/ralfk/Pandaroot/pandaroot/base/CbmMCApplication.cxx:165
#1  0xb3049572 in CbmRunSim::Init (this=0x84bcce0) at
/home/ralfk/Pandaroot/pandaroot/base/CbmRunSim.cxx:128
#2  0xb3084197 in G__CbmDict_530_0_4 (result7=0xbf859d1c, funcname=0x84ab530 "\001",
libp=0xbf853978, hash=0)
    at /home/ralfk/Pandaroot/build/base/CbmDict.cxx:9325
```

```

#3 0xb720d55b in Cint::G__ExceptionWrapper (funcp=0xb3084170 <G__CbmDict_530_0_4>,
result7=0xbf859d1c, funcname=0x84ab530 "\001", libp=0xbf853978, hash=0)
  at cint/src/Api.cxx:364
#4 0xb731c8a0 in G__call_cppfunc (result7=0xbf859d1c, libp=0xbf853978, ifunc=0x84ab530,
ifn=0) at cint/src/v6_newlink.cxx:512
#5 0xb72e3f65 in G__interpret_func (result7=0xbf859d1c, funcname=0xbf85971c "Init",
libp=0xbf853978, hash=404, p_ifunc=0x84ab530, funcmatch=1,
  memfunc_flag=1) at cint/src/v6_ifunc.cxx:5118
#6 0xb72d3554 in G__getfunction (item=0xbf85e186 "Init()", known3=0xbf85c74c,
memfunc_flag=1) at cint/src/v6_func.cxx:2511
#7 0xb73a8090 in G__getstructmem (store_var_type=112, varname=0xbf85c038 "basiclibs",
membername=0xbf85e186 "Init()", tagname=0xbf85be38 "fRun",
  known2=0xbf85c74c, varglobal=0xb744e3a0, objptr=2) at cint/src/v6_var.cxx:6562
#8 0xb739affd in G__getvariable (item=0xbf85e180 "fRun->Init()", known2=0xbf85c74c,
varglobal=0xb744e3a0, varlocal=0x0) at cint/src/v6_var.cxx:5206
#9 0xb72a12b2 in G__getitem (item=0xbf85e180 "fRun->Init()") at cint/src/v6_expr.cxx:1884
#10 0xb72b4453 in G__getexpr (expression=0xbf85e7bc "fRun->Init()") at
cint/src/v6_expr.cxx:1470
#11 0xb732ed31 in G__exec_function (statement=0xbf85e7bc "fRun->Init()", pc=0xbf85ee58,
piout=0xbf85ee54, plargestep=0xbf85ee4c, presult=0xbf85ee08)
  at cint/src/v6_parse.cxx:598
#12 0xb7335d6f in G__exec_statement (mparen=0xbf865d08) at cint/src/v6_parse.cxx:6923
#13 0xb728a000 in G__exec_tempfile_core (file=0xbf867dfc
"/home/ralfk/Pandaroot/pandaroot/macro/mvd/./runMvdSim.C", fp=0x0) at
cint/src/v6_debug.cxx:251
#14 0xb728a33d in G__exec_tempfile (file=0xbf867dfc
"/home/ralfk/Pandaroot/pandaroot/macro/mvd/./runMvdSim.C") at cint/src/v6_debug.cxx:798
#15 0xb734815a in G__process_cmd (line=0xb7ed174e "owenergy.dll", prompt=0x80cc994 "",
more=0x80cc98c, err=0xbf868cb8, rslt=0xbf868c88)
  at cint/src/v6_pause.cxx:3070
#16 0xb799a0f9 in TCint::ProcessLine (this=0x80cc970, line=0xb7ed174e "owenergy.dll",
error=0xbf86b4c4) at meta/src/TCint.cxx:289
#17 0xb79945bc in TCint::ProcessLineSynch (this=0x80cc970, line=0xb7ed174e
"owenergy.dll", error=0xbf86b4c4) at meta/src/TCint.cxx:354
#18 0xb78dc532 in TApplication::ExecuteFile (file=0xbf8693ed "runMvdSim.C",
error=0xbf86b4c4) at base/src/TApplication.cxx:898
---Type <return> to continue, or q <return> to quit---
#19 0xb78dc704 in TApplication::ProcessFile (this=0x80eae90, file=0xbf8693ed
"runMvdSim.C", error=0xbf86b4c4) at base/src/TApplication.cxx:787
#20 0xb78deaeb in TApplication::ProcessLine (this=0x80eae90, line=0xbf8693ea ".x
runMvdSim.C", sync=false, err=0xbf86b4c4) at base/src/TApplication.cxx:760
#21 0xb717e9de in TRint::Run (this=0x80eae90, retrn=false) at rint/src/TRint.cxx:336
#22 0x08048e49 in main (argc=1, argv=0xbf86b5d4) at main/src/rmain.cxx:29

```

Nice greetings from Dresden,
Ralf.

Subject: Re: Problem with G4.9.1 compatibility fix

Hi Ralf,

Yes it is my mistake! in Geant4.9.1 they move some functions from the libdetector to libG4detutils, So it seems that the if-statement I put before this library does not work, so I have to look inside this again.

Any way I comment this line out for now, so it should work again with Geant4.9.0

Mohammad