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Subject: Problem with G4.9.1 compatibility fix  
Posted by [Ralf Kliemt](#) on Wed, 30 Jan 2008 13:24:29 GMT  
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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 ".xrunMvdSim.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.

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Subject: Re: Problem with G4.9.1 compatibility fix

Posted by [Mohammad Al-Turany](#) on Wed, 30 Jan 2008 14:03:58 GMT  
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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