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Subject: [FIXED] Problems with dashboard and geant4  
Posted by [StefanoSpataro](#) on Fri, 22 Jun 2012 09:50:51 GMT  
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Dear all,  
after upgrading my Ubuntu to 12.04, I have noticed that in the dashboard all the geant4 qa macros are crashing, i.e. GEMs and MDT.

Checking the output of QAmacro\_gem\_1.sh I can see that:

Toggle Spoiler

```
Processing /home/spataro/dart/pandaroot/macro/qa/gem/QAmacro_gem_1.C...
FairRootManager::OpenOutFile("tstQA.points.root")
[INFO ] Media file used : /home/spataro/dart/pandaroot/geometry/media_pnd.geo
-l- FairGeoMedia Read media
[INFO ] ===== FairRunSim: Initialising simulation run =====
Info in <TGeoManager::TGeoManager>: Geometry FAIRGeom, FAIR geometry created
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/spataro/dart/pandaroot/input/TransMap.1500.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/spataro/dart/pandaroot/input/DipoleMap1.1500.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/spataro/dart/pandaroot/input/DipoleMap2.1500.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/spataro/dart/pandaroot/input/SolenoidMap1.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/spataro/dart/pandaroot/input/SolenoidMap2.root
Loading Geant4 global libraries ...Our Macro
Loading VGM libraries ...
Loading g4root library ...
SetCuts Macro: Setting Processes..
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/spataro/dart/pandaroot/input/SolenoidMap3.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/spataro/dart/pandaroot/input/SolenoidMap4.root
sh: 1: geant4-config: not found
Error in <TUnixSystem::GetFromPipe>: command "geant4-config --libs" returned 32512
dlopen error: /home/spataro/jan12/transport/geant4_vmc/lib/tgt_linuxx8664gcc/libg4root .so:
undefined symbol: _ZTI27G4VUserDetectorConstruction
Load Error: Failed to load Dynamic link library
/home/spataro/jan12/transport/geant4_vmc/lib/tgt_linuxx8664gcc/libg4root .so
Warning: Return value of void g4libs_global() ignored
/home/spataro/jan12/transport/macro/g4libs.C:135:
Error: Symbol TG4RunConfiguration is not defined in current scope
/home/spataro/dart/pandaroot/gconfig/g4Config.C:29:
Error: Symbol TG4RunConfiguration is not defined in current scope
/home/spataro/dart/pandaroot/gconfig/g4Config.C:29:
Error: type TG4RunConfiguration not defined
FILE:/home/spataro/dart/pandaroot/gconfig/g4Config.C LINE:29
Error: Invalid type 'TG4RunConfiguration*' in declaration of 'runConfiguration'
/home/spataro/dart/pandaroot/gconfig/g4Config.C:29:
*** Interpreter error recovered ***
```

Error: illegal pointer to class object gMC 0x0 2299  
/home/spataro/dart/pandaroot/gconfig/SetCuts.C:23:  
\*\*\* Interpreter error recovered \*\*\*

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

=====  
There was a crash.

This is the entire stack trace of all threads:

=====  
#0 0x00007f32496d5c3e in \_\_libc\_waitpid (pid=<optimized out>, stat\_loc=0x7fff4ca78d40, options=0) at ../sysdeps/unix/sysv/linux/waitpid.c:32  
#1 0x00007f324965bf5e in do\_system (line=0x2181330  
"/home/spataro/jan12/tools/root/etc/gdb-backtrace.sh 11959 1>&2") at  
../sysdeps/posix/system.c:149  
#2 0x00007f324a587347 in TUnixSystem::StackTrace() () from  
/home/spataro/jan12/tools/root/lib/libCore.so.5.32  
#3 0x00007f324a589bc3 in TUnixSystem::DispatchSignals(ESignals) () from  
/home/spataro/jan12/tools/root/lib/libCore.so.5.32  
#4 <signal handler called>  
#5 0x00007f323f343f7c in FairMCApplication::InitMC (this=0x2797fd0, setup=0x279cd70  
"/home/spataro/dart/pandaroot/gconfig/g4Config.C", cuts=0x279cd30  
"/home/spataro/dart/pandaroot/gconfig/SetCuts.C") at  
/home/spataro/dart/pandaroot/base/FairMCApplication.cxx:206  
#6 0x00007f323f3795d2 in FairRunSim::SetMCConfig (this=0x1b02290) at  
/home/spataro/dart/pandaroot/base/FairRunSim.cxx:345  
#7 0x00007f323f377e65 in FairRunSim::Init (this=0x1b02290) at  
/home/spataro/dart/pandaroot/base/FairRunSim.cxx:196  
#8 0x00007f323f3e4f72 in G\_\_FairDict\_986\_0\_5 (result7=0x7fff4ca874e0,  
funcname=0x268bfd0 "", libp=0x7fff4ca7cad0, hash=0) at  
/home/spataro/dart/build/base/FairDict.cxx:14740  
#9 0x00007f3248acba3b in Cint::G\_\_ExceptionWrapper(int (\*)(G\_\_value\*, char const\*,  
G\_\_param\*, int), G\_\_value\*, char\*, G\_\_param\*, int) () from  
/home/spataro/jan12/tools/root/lib/libCint.so.5.32  
#10 0x00007f3248b70e11 in G\_\_execute\_call () from  
/home/spataro/jan12/tools/root/lib/libCint.so.5.32  
#11 0x00007f3248b711fe in G\_\_call\_cppfunc () from  
/home/spataro/jan12/tools/root/lib/libCint.so.5.32  
#12 0x00007f3248b51ba7 in G\_\_interpret\_func () from  
/home/spataro/jan12/tools/root/lib/libCint.so.5.32  
#13 0x00007f3248b3e086 in G\_\_getfunction () from  
/home/spataro/jan12/tools/root/lib/libCint.so.5.32  
#14 0x00007f3248c280e0 in G\_\_getstructmem(int, G\_\_FastAllocString&, char\*, int, char\*, int\*,  
G\_\_var\_array\*, int) () from /home/spataro/jan12/tools/root/lib/libCint.so.5.32  
#15 0x00007f3248c1eeca in G\_\_getvariable () from  
/home/spataro/jan12/tools/root/lib/libCint.so.5.32  
#16 0x00007f3248b1781b in G\_\_getitem () from  
/home/spataro/jan12/tools/root/lib/libCint.so.5.32  
#17 0x00007f3248b1df04 in G\_\_getexpr () from  
/home/spataro/jan12/tools/root/lib/libCint.so.5.32

```

#18 0x00007f3248ba1326 in G__exec_statement () from
/home/spataro/jan12/tools/root/lib/libCint.so.5.32
#19 0x00007f3248b03e63 in G__exec_tempfile_core () from
/home/spataro/jan12/tools/root/lib/libCint.so.5.32
#20 0x00007f3248b0561b in G__exec_tempfile () from
/home/spataro/jan12/tools/root/lib/libCint.so.5.32
#21 0x00007f3248bb2533 in G__process_cmd () from
/home/spataro/jan12/tools/root/lib/libCint.so.5.32
#22 0x00007f324a5517ea in TCint::ProcessLine(char const*, TInterpreter::EErrorCode*) ()
from /home/spataro/jan12/tools/root/lib/libCore.so.5.32
#23 0x00007f324a5481e3 in TCint::ProcessLineSynch(char const*, TInterpreter::EErrorCode*)
() from /home/spataro/jan12/tools/root/lib/libCore.so.5.32
#24 0x00007f324a4ba5c4 in TApplication::ExecuteFile(char const*, int*, bool) () from
/home/spataro/jan12/tools/root/lib/libCore.so.5.32
#25 0x00007f324a4b92ff in TApplication::ProcessLine(char const*, bool, int*) () from
/home/spataro/jan12/tools/root/lib/libCore.so.5.32
#26 0x00007f324a11a7da in TRint::Run(bool) () from
/home/spataro/jan12/tools/root/lib/libRint.so.5.32
#27 0x0000000000400f6c in main ()
=====

```

The lines below might hint at the cause of the crash.  
If they do not help you then please submit a bug report at  
<http://root.cern.ch/bugs>. Please post the ENTIRE stack trace  
from above as an attachment in addition to anything else  
that might help us fixing this issue.

```

=====
#5 0x00007f323f343f7c in FairMCApplication::InitMC (this=0x2797fd0, setup=0x279cd70
"/home/spataro/dart/pandaroot/gconfig/g4Config.C", cuts=0x279cd30
"/home/spataro/dart/pandaroot/gconfig/SetCuts.C") at
/home/spataro/dart/pandaroot/base/FairMCApplication.cxx:206
#6 0x00007f323f3795d2 in FairRunSim::SetMCConfig (this=0x1b02290) at
/home/spataro/dart/pandaroot/base/FairRunSim.cxx:345
#7 0x00007f323f377e65 in FairRunSim::Init (this=0x1b02290) at
/home/spataro/dart/pandaroot/base/FairRunSim.cxx:196
=====

```

But If I open a terminal and send the QAMacro\_gem\_1.sh script, the macro proceeds without errors. Then I think it is not a problem of my geant4 installation (is properly installed and working in interactive macros). With 11.10 the dashboard macros were fine.