
Subject: Bug in Drc

Posted by [Stefano Spataro](#) on Wed, 07 Nov 2007 07:28:47 GMT

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Hi,

I found a sort of bug that is crashing the analysis (but not the compilation).

Yesterday the file CbmDrc was changed, and at line 162/164 the code is searching for a volume called "drc06", while before the search was for "drc05". But if I look into geometry/dirc.geo I cannot find a volume so called (drc06), and I think this is the reason of the crash.

Is it possible to fix it?

Subject: Re: Bug in Drc

Posted by [Annalisa Cecchi](#) on Fri, 09 Nov 2007 09:04:20 GMT

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Hi all,

now it should work without crash.

Cheers,

Annalisa

Subject: Re: Bug in Drc

Posted by [Stefano Spataro](#) on Sat, 01 Dec 2007 13:10:47 GMT

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Dear all,

since several days there is a bug in the DIRC code.

The error is:

```
./pandaroot/drc/PndDrc.cxx: In member function 'virtual void PndDrc::Initialize()':  
./pandaroot/drc/PndDrc.cxx:275: error: no matching function for call to  
'PndDrcOptDevManager::addDeviceSystem(PndDrcOptDevSys&, int&)'  
./pandaroot/drc/drcprop/PndDrcOptDevManager.h:58: note: candidates are: void  
PndDrcOptDevManager::addDeviceSystem(const PndDrcOptDevSys&)
```

It seems that in the file PndDrcOptDevManager.h the function

```
PndDrcOptDevManager::addDeviceSystem(PndDrcOptDevSys&, int&)
```

has become

```
PndDrcOptDevManager::addDeviceSystem(PndDrcOptDevSys&)
```

but in the PndDrc.cxx there is still the old call.

I don't know which is the correct function call, could you please solve this bug?

Thanks in advance.

Subject: Re: Bug in Drc

Posted by [Carsten Schwarz](#) on Sun, 02 Dec 2007 10:16:41 GMT

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Hi Stefano,

I solved the bug with revision 1922. Sorry that this negligence happened.

Carsten

Subject: Re: Bug in Drc

Posted by [Stefano Spataro](#) on Sun, 02 Dec 2007 11:43:07 GMT

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Hi,

thanks at all for the "week-end" fix.

However, running the macro/run/run_sim.C , the analysis crashes while defining Drc geometry:

Info in <TGeoManager::CloseGeometry>: -----modeler ready-----

node,name 0 drc01

size=1

1 drc01_clone

*** Break *** segmentation violation

Using host libthread_db library "/lib/libthread_db.so.1".

Attaching to program: /proc/11031/exe, process 11031

`system-supplied DSO at 0xffffe000' has disappeared; keeping its symbols.

[Thread debugging using libthread_db enabled]

[New Thread -1234958672 (LWP 11031)]

0xffffe410 in __kernel_vsyscall ()

#1 0xb66faa03 in waitpid () from /lib/libc.so.6

#2 0xb66a5569 in strtold_l () from /lib/libc.so.6

#3 0xb679c36d in system () from /lib/libpthread.so.0

#4 0xb79e06ab in TUnixSystem::Exec () from
/d/c0/cbmsoft/ccacbmsoft/tools/root/lib/libCore.so.5.14

#5 0xb79e4bca in TUnixSystem::StackTrace () from
/d/c0/cbmsoft/ccacbmsoft/tools/root/lib/libCore.so.5.14

#6 0xb79e3bdd in TUnixSystem::DispatchSignals () from
/d/c0/cbmsoft/ccacbmsoft/tools/root/lib/libCore.so.5.14

#7 0xb79e3d75 in SigHandler () from /d/c0/cbmsoft/ccacbmsoft/tools/root/lib/libCore.so.5.14

#8 0xb79dd7ed in sighandler () from /d/c0/cbmsoft/ccacbmsoft/tools/root/lib/libCore.so.5.14

#9 <signal handler called>

#10 0xb686229a in std::basic_string<char, std::char_traits<char>, std::allocator<char>
>::basic_string () from /usr/lib/gcc/i686-pc-linux-gnu/4.1.1/libstdc++.so.6

```

#11 0xb30ea58e in PndDrcOptDevManager::addDeviceSystem (this=0xa3fdb8,
sys=@0xbfc09714) at /home/spataro/pandaroot/drc/drcprop/PndDrcOptDevManager.cxx:140
#12 0xb309b484 in PndDrc::Initialize (this=0x8d17a70) at
/home/spataro/pandaroot/drc/PndDrc.cxx:275
#13 0xb3779400 in CbmMCApplication::InitGeometry (this=0x8d7f420) at
/home/spataro/pandaroot/base/CbmMCApplication.cxx:505
#14 0xb3b62cba in TGeant3::Init (this=0x8e86088) at TGeant3.cxx:5866
#15 0xb377b005 in CbmMCApplication::InitMC (this=0x8d7f420, setup=0x8df3048
"/home/spataro/pandaroot/gconfig/g3Config.C")
    at /home/spataro/pandaroot/base/CbmMCApplication.cxx:162
#16 0xb378c322 in CbmRunSim::Init (this=0x8c77410) at
/home/spataro/pandaroot/base/CbmRunSim.cxx:133
#17 0xb37c0e73 in G__CbmDict_662_0_8 (result7=0xbfc17ccc, funcname=0x8c70b38 "\001",
libp=0xbfc14228, hash=0) at /home/spataro/cbuild/base/CbmDict.cxx:10188
#18 0xb73e4c05 in Cint::G__ExceptionWrapper () from
/d/c0/cbmsoft/ccacbmsoft/tools/root/lib/libCint.so.5.14
#19 0xb74aa674 in G__call_cppfunc () from
/d/c0/cbmsoft/ccacbmsoft/tools/root/lib/libCint.so.5.14
#20 0xb7484c1c in G__interpret_func () from
/d/c0/cbmsoft/ccacbmsoft/tools/root/lib/libCint.so.5.14
#21 0xb74792b1 in G__getfunction () from
/d/c0/cbmsoft/ccacbmsoft/tools/root/lib/libCint.so.5.14
#22 0xb750bb60 in G__getstructmem () from
/d/c0/cbmsoft/ccacbmsoft/tools/root/lib/libCint.so.5.14
#23 0xb75032ca in G__getvariable () from
/d/c0/cbmsoft/ccacbmsoft/tools/root/lib/libCint.so.5.14
#24 0xb745ab4b in G__getitem () from /d/c0/cbmsoft/ccacbmsoft/tools/root/lib/libCint.so.5.14
#25 0xb74654e1 in G__getexpr () from /d/c0/cbmsoft/ccacbmsoft/tools/root/lib/libCint.so.5.14
#26 0xb74b827a in G__exec_function () from
/d/c0/cbmsoft/ccacbmsoft/tools/root/lib/libCint.so.5.14
#27 0xb74bc2ac in G__exec_statement () from
/d/c0/cbmsoft/ccacbmsoft/tools/root/lib/libCint.so.5.14
#28 0xb744882b in G__exec_tempfile_core () from
/d/c0/cbmsoft/ccacbmsoft/tools/root/lib/libCint.so.5.14
#29 0xb7448a15 in G__exec_tempfile () from
/d/c0/cbmsoft/ccacbmsoft/tools/root/lib/libCint.so.5.14
#30 0xb74c7b4e in G__process_cmd () from
/d/c0/cbmsoft/ccacbmsoft/tools/root/lib/libCint.so.5.14
#31 0xb79544e3 in TCint::ProcessLine () from
/d/c0/cbmsoft/ccacbmsoft/tools/root/lib/libCore.so.5.14
#32 0xb794f084 in TCint::ProcessLineSynch () from
/d/c0/cbmsoft/ccacbmsoft/tools/root/lib/libCore.so.5.14
#33 0xb78831ff in TApplication::ProcessFile () from
/d/c0/cbmsoft/ccacbmsoft/tools/root/lib/libCore.so.5.14
#34 0xb787fa3e in TApplication::ProcessLine () from
/d/c0/cbmsoft/ccacbmsoft/tools/root/lib/libCore.so.5.14
#35 0xb68f42f9 in TRint::Run () from /d/c0/cbmsoft/ccacbmsoft/tools/root/lib/libRint.so.5.14
#36 0x08048e00 in main ()

```

I tried with the old external packages (the previous error message) and also with the new ones, while having always the same error.
So maybe there is still some mismatch somewhere.
