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Subject: [FIXED] Error running macro/run/sim\_complete.C with Geant3

Posted by [Maria Patsyuk](#) on Tue, 19 Nov 2013 14:43:18 GMT

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Dear all,

I'm trying to run the macro/run/sim\_complete.C (see attached) with Geant3 and I'm getting the following error appearing at random event numbers (depending on the seed value). Is it possible to run this macro with Geant3? What should I do about this error? (What is the proper Geant version for these macros???)

Calculating cross section tables, see gphysi.dat for more information

Cross section calculation concluded successfully

[INFO ] Monte carlo Engine Initialisation with : TGeant3TGeo

\*\*\*\* GTRIGI: IEVENT= 1 IDEVT= 1 Random Seeds = 1106029016 0

[INFO ] FairPrimaryGenerator: (Event 1) 1 primary tracks from vertex (0.000000, 0.000000, 0.000000 ) with beam gradient (0.000000, 0.000000) Event Time = 42.777955 (ns)

\*\*\*\* GTRIGI: IEVENT= 2 IDEVT= 2 Random Seeds = 1106029016 0

[INFO ] FairPrimaryGenerator: (Event 2) 1 primary tracks from vertex (0.000000, 0.000000, 0.000000 ) with beam gradient (0.000000, 0.000000) Event Time = 46.327665 (ns)

\*\*\*\* GTRIGI: IEVENT= 3 IDEVT= 3 Random Seeds = 1106029016 0

[INFO ] FairPrimaryGenerator: (Event 3) 1 primary tracks from vertex (0.000000, 0.000000, 0.000000 ) with beam gradient (0.000000, 0.000000) Event Time = 48.566205 (ns)

\*\*\*\* GTRIGI: IEVENT= 4 IDEVT= 4 Random Seeds = 1106029016 0

[INFO ] FairPrimaryGenerator: (Event 4) 1 primary tracks from vertex (0.000000, 0.000000, 0.000000 ) with beam gradient (0.000000, 0.000000) Event Time = 57.228030 (ns)

\*\*\*\* GTRIGI: IEVENT= 5 IDEVT= 5 Random Seeds = 1106029016 0

[INFO ] FairPrimaryGenerator: (Event 5) 1 primary tracks from vertex (0.000000, 0.000000, 0.000000 ) with beam gradient (0.000000, 0.000000) Event Time = 61.168181 (ns)

\*\*\*\* GTRIGI: IEVENT= 6 IDEVT= 6 Random Seeds = 1106029016 0

[INFO ] FairPrimaryGenerator: (Event 6) 1 primary tracks from vertex (0.000000, 0.000000, 0.000000 ) with beam gradient (0.000000, 0.000000) Event Time = 61.669152 (ns)

Fatal in <TGeant3TGeo::CurrentBoundaryNormal>: The option SetComputeNextMatrix has not been activated.

aborting

#0 0x00007fd93329983e in \_\_libc\_waitpid (pid=<optimized out>, stat\_loc=0x7ffeca715ac, options=<optimized out>) at ../sysdeps/unix/sysv/linux/waitpid.c:32

#1 0x00007fd9332372c9 in do\_system (line=<optimized out>) at ../sysdeps/posix/system.c:149

#2 0x00007fd93422cf06 in TUnixSystem::Exec (this=0x1a55430, shellcmd=0xa189330 "/d/panda01/mpatsyuk/apr13/apr13/etc/gdb-backtrace.sh 7710 1>&2") at /d/panda01/mpatsyuk/apr13/tools/root/core/unix/src/TUnixSystem.cxx:2088

#3 0x00007fd93422d7d4 in TUnixSystem::StackTrace (this=0x1a55430) at /d/panda01/mpatsyuk/apr13/tools/root/core/unix/src/TUnixSystem.cxx:2336

#4 0x00007fd93411d51e in DefaultErrorHandler (level=6000, abort\_bool=true, location=0x7fd9349fc20e "TGeant3TGeo::CurrentBoundaryNormal", msg=0x2a963f0 "The option SetComputeNextMatrix has not been activated.") at /d/panda01/mpatsyuk/apr13/tools/root/core/base/src/TError.cxx:188

#5 0x00007fd93411d82a in ErrorHandler(Int\_t, const char \*, const char \*, typedef

\_\_va\_list\_tag \_\_va\_list\_tag \*) (level=6000, location=0x7fd9349fc20e "TGeant3TGeo::CurrentBoundaryNormal", fmt=0x7fd9238fafc0 "The option SetComputeNextMatrix has not been activated.", ap=0x7ffeca73a50) at /d/panda01/mpatsyuk/apr13/tools/root/core/base/src/TError.cxx:244  
#6 0x00007fd934137e03 in TObject::DoError (this=0x6715770, level=6000, location=0x7fd9238faff8 "CurrentBoundaryNormal", fmt=0x7fd9238fafc0 "The option SetComputeNextMatrix has not been activated.", va=0x7ffeca73a50) at /d/panda01/mpatsyuk/apr13/tools/root/core/base/src/TObject.cxx:861  
#7 0x00007fd934138317 in TObject::Fatal (this=0x6715770, location=0x7fd9238faff8 "CurrentBoundaryNormal", fmt=0x7fd9238fafc0 "The option SetComputeNextMatrix has not been activated.") at /d/panda01/mpatsyuk/apr13/tools/root/core/base/src/TObject.cxx:926  
#8 0x00007fd92386cdbf in TGeant3TGeo::CurrentBoundaryNormal (this=0x6715770, x=0x7ffeca73d68, y=0x7ffeca73d60, z=0x7ffeca73d58) at TGeant3/TGeant3TGeo.cxx:708  
#9 0x00007fd9259e4530 in PndDrc::ProcessHits (this=0x2a40b30, vol=0x9fc04a0) at /u/mpatsyuk/PANDA/new\_trunk/drc/PndDrc.cxx:1105  
#10 0x00007fd9291d4e0a in FairMCApplication::Stepping (this=0x2ab13d0) at /u/mpatsyuk/PANDA/new\_trunk/base/sim/FairMCApplication.cxx:412  
#11 0x00007fd92386bea2 in gustep\_ () at TGeant3/TGeant3gu.cxx:869  
#12 0x00007fd92384c372 in jumpt0\_ (iadr=0x7fd923bb3448) at minicern/jumptn.c:74  
#13 0x00007fd923683a32 in g3track () at gtrak/gtrack.F:222  
#14 0x00007fd923869275 in gutrak\_ () at TGeant3/TGeant3gu.cxx:554  
#15 0x00007fd9236850da in gtreveroot () at gtrak/gtreveroot.F:168  
#16 0x00007fd923869297 in gutrev\_ () at TGeant3/TGeant3gu.cxx:574  
#17 0x00007fd92384c372 in jumpt0\_ (iadr=0x7fd923bb3460) at minicern/jumptn.c:74  
#18 0x00007fd923507d39 in g3trig () at gbase/gtrig.F:62  
#19 0x00007fd92385cc93 in TGeant3::Gtrig (this=0x6715770) at TGeant3/TGeant3.cxx:3264  
#20 0x00007fd923863645 in TGeant3::ProcessEvent (this=0x6715770) at TGeant3/TGeant3.cxx:6411  
#21 0x00007fd923863551 in TGeant3::ProcessRun (this=0x6715770, nevent=10) at TGeant3/TGeant3.cxx:6381  
#22 0x00007fd9291d4212 in FairMCApplication::RunMC (this=0x2ab13d0, nofEvents=10) at /u/mpatsyuk/PANDA/new\_trunk/base/sim/FairMCApplication.cxx:233  
#23 0x00007fd9291c1b9a in FairRunSim::Run (this=0x25d2520, NEvents=10, NotUsed=0) at /u/mpatsyuk/PANDA/new\_trunk/base/steer/FairRunSim.cxx:351  
#24 0x00007fd9292245b4 in G\_\_G\_\_BaseDict\_618\_0\_6 (result7=0x7ffeca80540, funcname=0x25ce350 "", libp=0x7ffeca75b30, hash=0) at /u/mpatsyuk/PANDA/build\_Squeeze64\_Apr2013/base/G\_\_BaseDict.cxx:8423  
#25 0x00007fd93262cecc in Cint::G\_\_ExceptionWrapper (funcp=0x7fd92922442d <G\_\_G\_\_BaseDict\_618\_0\_6(G\_\_value\*, char const\*, G\_\_param\*, int)>, result7=0x7ffeca80540, funcname=0x25ce350 "", libp=0x7ffeca75b30, hash=0) at cint/cint/src/Api.cxx:393  
#26 0x00007fd9327096e5 in G\_\_execute\_call (result7=0x7ffeca80540, libp=0x7ffeca75b30, ifunc=0x25ce350, ifn=0) at cint/cint/src/newlink.cxx:2408  
#27 0x00007fd93270a098 in G\_\_call\_cppfunc (result7=0x7ffeca80540, libp=0x7ffeca75b30, ifunc=0x25ce350, ifn=0) at cint/cint/src/newlink.cxx:2612  
#28 0x00007fd9326e2a6b in G\_\_interpret\_func (result7=0x7ffeca80540, funcname=0x21a00d0 "Run", libp=0x7ffeca75b30, hash=309, p\_ifunc=0x25ce350, funcmatch=1, memfunc\_flag=1) at cint/cint/src/ifunc.cxx:5791  
#29 0x00007fd9326bba79 in G\_\_getfunction (item=0x1a75ac6 "Run(nEvents)", known3=0x7ffeca817e8, memfunc\_flag=1) at cint/cint/src/func.cxx:2660

#30 0x00007fd9327fa8fd in G\_\_getstructmem (store\_var\_type=112, varname=..., membername=0x1a75ac6 "Run(nEvents)", memnamesize=2147483647, tagname=0x219f4a0 "fRun", known2=0x7ffeca817e8, varglobal=0x7fd932ac5160, objptr=2) at cint/cint/src/var.cxx:6818

#31 0x00007fd9327ea1db in G\_\_getvariable (item=0x1a75ac0 "fRun->Run(nEvents)", known=0x7ffeca817e8, varglobal=0x7fd932ac5160, varlocal=0x7ffeca84a80) at cint/cint/src/var.cxx:5404

#32 0x00007fd9326aa788 in G\_\_getitem (item=0x1a75ac0 "fRun->Run(nEvents)") at cint/cint/src/expr.cxx:1906

#33 0x00007fd9326a7f37 in G\_\_getexpr (expression=0x1a909f0 "fRun->Run(nEvents)") at cint/cint/src/expr.cxx:1488

#34 0x00007fd93273d2ab in G\_\_exec\_function (statement=..., pc=0x7ffeca8415c, piout=0x7ffeca84158, plargestep=0x7ffeca84150, presult=0x7ffeca84080) at cint/cint/src/parse.cxx:645

#35 0x00007fd93274e28c in G\_\_exec\_statement (mparen=0x7ffeca84d8c) at cint/cint/src/parse.cxx:7371

#36 0x00007fd9326e611d in G\_\_interpret\_func (result7=0x7ffeca8fb70, funcname=0x1a68050 "sim\_complete", libp=0x7ffeca85160, hash=1281, p\_ifunc=0x2172fd0, funcmatch=1, memfunc\_flag=0) at cint/cint/src/ifunc.cxx:6710

#37 0x00007fd9326bc83d in G\_\_getfunction (item=0x1a67830 "sim\_complete()", known3=0x7ffeca8fe38, memfunc\_flag=0) at cint/cint/src/func.cxx:2901

#38 0x00007fd9326aa8a8 in G\_\_getitem (item=0x1a67830 "sim\_complete()") at cint/cint/src/expr.cxx:1918

#39 0x00007fd9326a7f37 in G\_\_getexpr (expression=0x2258b20 "sim\_complete()") at cint/cint/src/expr.cxx:1488

#40 0x00007fd93269473b in G\_\_calc\_internal (exprwithspace=0x1a698a0 "sim\_complete()") at cint/cint/src/expr.cxx:1071

#41 0x00007fd9327592a9 in G\_\_process\_cmd (line=0x2258940 ".X /u/mpatsyuk/PANDA/new\_trunk/macro/run/./sim\_complete.C", prompt=0x1a590e8 "", more=0x1a590e0, err=0x7ffeca9384c, rslt=0x7ffeca937e0) at cint/cint/src/pause.cxx:2333

#42 0x00007fd9341d43f2 in TCint::ProcessLine (this=0x1a590a0, line=0x2258940 ".X /u/mpatsyuk/PANDA/new\_trunk/macro/run/./sim\_complete.C", error=0x7ffeca96674) at /d/panda01/mpatsyuk/apr13/tools/root/core/meta/src/TCint.cxx:545

#43 0x00007fd9341d4a84 in TCint::ProcessLineSynch (this=0x1a590a0, line=0x2258940 ".X /u/mpatsyuk/PANDA/new\_trunk/macro/run/./sim\_complete.C", error=0x7ffeca96674) at /d/panda01/mpatsyuk/apr13/tools/root/core/meta/src/TCint.cxx:624

#44 0x00007fd9340f8fe1 in TApplication::ExecuteFile (file=0x7ffeca94613 "sim\_complete.C", error=0x7ffeca96674, keep=false) at /d/panda01/mpatsyuk/apr13/tools/root/core/base/src/TApplication.cxx:1028

#45 0x00007fd9340f8856 in TApplication::ProcessFile (this=0x1ba1550, file=0x7ffeca94613 "sim\_complete.C", error=0x7ffeca96674, keep=false) at /d/panda01/mpatsyuk/apr13/tools/root/core/base/src/TApplication.cxx:904

#46 0x00007fd9340f8773 in TApplication::ProcessLine (this=0x1ba1550, line=0x7ffeca94610 ".x sim\_complete.C", sync=false, err=0x7ffeca96674) at /d/panda01/mpatsyuk/apr13/tools/root/core/base/src/TApplication.cxx:877

#47 0x00007fd933cb648c in TRint::Run (this=0x1ba1550, retn=false) at /d/panda01/mpatsyuk/apr13/tools/root/core/rint/src/TRint.cxx:418

#48 0x0000000000401322 in main (argc=1, argv=0x7ffeca96828) at /d/panda01/mpatsyuk/apr13/tools/root/main/src/rmain.cxx:29

Best regards,

Maria Patsyuk

## File Attachments

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1) [sim\\_complete.C](#), downloaded 281 times

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