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Subject: \*\*\* glibc detected \*\*\* double free or corruption (out): 0x0a0c66f0 \*\*\*

Posted by [asanchez](#) on Wed, 04 Nov 2009 11:11:16 GMT

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Dear all, i'm working with the gsi installation

my svn info is

Repository Root: <https://subversion.gsi.de/fairroot>

Repository UUID: 0381ead4-6506-0410-b988-94b70fbc4730

Revision: 6816

Node Kind: directory

Schedule: normal

Last Changed Author: asanchez

Last Changed Rev: 5515

Last Changed Date: 2009-05-14 09:54:54 +0200 (Do, 14 Mai 2009)

after running the MC simulation macro at macro/hyp/sim\_pid.C

i get the following message at the end of the run:

actually by quitting root, (please see below)

any idea???

root [1] .q

\*\*\* glibc detected \*\*\* double free or corruption (out): 0x0a0c66f0 \*\*\*

Program received signal SIGABRT, Aborted.

[Switching to Thread -1229629760 (LWP 25967)]

0xffffe410 in \_\_kernel\_vsyscall ()

(gdb) bt

#0 0xffffe410 in \_\_kernel\_vsyscall ()

#1 0xb6bad811 in raise () from /lib/tls/i686/cmov/libc.so.6

#2 0xb6baefb9 in abort () from /lib/tls/i686/cmov/libc.so.6

#3 0xb6be2dfa in \_\_fsetlocking () from /lib/tls/i686/cmov/libc.so.6

#4 0xb6bea68f in mallopt () from /lib/tls/i686/cmov/libc.so.6

#5 0xb6bea732 in free () from /lib/tls/i686/cmov/libc.so.6

#6 0xb6da73b1 in operator delete () from /usr/lib/libstdc++.so.6

#7 0xaaff8fbfa in ~G4PhotoNuclearCrossSection (this=0xa0c66f0) at  
src/G4PhotoNuclearCrossSection.cc:77

#8 0xaaff68f94 in G4CrossSectionDataSetRegistry::Clean (this=0xaaff43e8) at  
src/G4CrossSectionDataSetRegistry.cc:71

#9 0xaaff692c6 in ~G4CrossSectionDataSetRegistry (this=0xaaff43e8) at  
src/G4CrossSectionDataSetRegistry.cc:63

#10 0xaaff6932c in \_\_tcf\_0 () at src/G4CrossSectionDataSetRegistry.cc:50

#11 0xb6bb03b0 in exit () from /lib/tls/i686/cmov/libc.so.6

#12 0xb79e6306 in TUnixSystem::Exit (this=0x80ea5d8, code=0, mode=true) at  
core/unix/src/TUnixSystem.cxx:1993

#13 0xb6e0bd27 in TRint::Terminate (this=0x8118518, status=0) at core/rint/src/TRint.cxx:598

#14 0xb78ca706 in TApplication::ProcessLine (this=0x8118518, line=0xb5a3a78 ".q",  
sync=false, err=0x0)

at core/base/src/TApplication.cxx:735

#15 0xb6e0c100 in TRint::HandleTermInput (this=0x8118518) at core/rint/src/TRint.cxx:527

#16 0xb6e0b93e in TTermInputHandler::Notify (this=0x8361e30) at core/rint/src/TRint.cxx:123

#17 0xb6e0eb1a in TTermInputHandler::ReadNotify (this=0x8361e30) at  
core/rint/src/TRint.cxx:115

```
#18 0xb79e7bb1 in TUnixSystem::CheckDescriptors (this=0x80ea5d8) at
core/unix/src/TUnixSystem.cxx:1202
#19 0xb79e8332 in TUnixSystem::DispatchOneEvent (this=0x80ea5d8, pendingOnly=false) at
core/unix/src/TUnixSystem.cxx:909
#20 0xb793d769 in TSystem::InnerLoop (this=0x80ea5d8) at core/base/src/TSystem.cxx:392
#21 0xb794b8a0 in TSystem::Run (this=0x80ea5d8) at core/base/src/TSystem.cxx:342
#22 0xb78c6af0 in TApplication::Run (this=0x8118518, retrn=false) at
core/base/src/TApplication.cxx:972
#23 0xb6e0d137 in TRint::Run (this=0x8118518, retrn=false) at core/rint/src/TRint.cxx:399
#24 0x08048e09 in main (argc=1, argv=0xbfdfe844) at main/src/rmain.cxx:29
(gdb) q
```

Only as information after setting config.sh

lxi010:build>. config.sh

System during compilation: Debian GNU/Linux 4.0 n l

i686

System now : Debian GNU/Linux 4.0 n l

i686

On this machine the G4SYSTEM=Linux-g++

On this machine the G4INSTALL=/misc/cbmsoft/Etch32/jul09/fairsoft/transport/geant4

On this machine the G4INCLUDE=/misc/cbmsoft/Etch32/jul09/fairsoft/transport/geant4/include/

On this machine the G4LIB=/misc/cbmsoft/Etch32/jul09/fairsoft/transport/geant4/lib

On this machine the

G4LEVELGAMMADATA=/misc/cbmsoft/Etch32/jul09/fairsoft/transport/data/geant4/PhotonEvaporation

On this machine the

G4RADIOACTIVEDATA=/misc/cbmsoft/Etch32/jul09/fairsoft/transport/data/geant4/RadioactiveDecay

On this machine the

G4LEDDATA=/misc/cbmsoft/Etch32/jul09/fairsoft/transport/data/geant4/G4EML OW

On this machine the

NeutronHPCrossSections=/misc/cbmsoft/Etch32/jul09/fairsoft/transport/data/geant4/G4NDL

On this machine the

G4ELASTICDATA=/misc/cbmsoft/Etch32/jul09/fairsoft/transport/data/geant4/G4ELASTIC

On this machine the

G4ABLADATA=/misc/cbmsoft/Etch32/jul09/fairsoft/transport/data/geant4/G4ABLA

On this machine the CLHEP\_BASE\_DIR=/misc/cbmsoft/Etch32/jul09/fairsoft/cern/clhep

On this machine the

CLHEP\_INCLUDE\_DIR=/misc/cbmsoft/Etch32/jul09/fairsoft/cern/clhep/include

On this machine the CLHEP\_LIB\_DIR=/misc/cbmsoft/Etch32/jul09/fairsoft/cern/clhep/lib

On this machine the CLHEP\_LIB=CLHEP

On this machine the G4DEBUG=1

On this machine the G4VIS\_BUILD\_RAYTRACERX\_DRIVER=1

On this machine the G4VIS\_USE\_RAYTRACERX=1

On this machine the G4VIS\_USE\_VRML=1

On this machine the G4LIB\_BUILD\_G3TOG4=1

On this machine the G4LIB\_USE\_G3TOG4=1

On this machine the G4LIB\_BUILD\_ZLIB=1

On this machine the G4LIB\_USE\_ZLIB=1

On this machine the G4LIB\_BUILD\_SHARED=1

On this machine the G4LIB\_USE\_GRANULAR=1  
On this machine the G4UI\_USE\_TCSH=1  
In your environment you have the  
G4WORKDIR=/misc/cbmsoft/Etch32/jul09/fairsoft/transport/geant4

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Subject: Re: \*\*\* glibc detected \*\*\* double free or corruption (out): 0x0a0c66f0 \*\*\*  
Posted by [Stefano Spataro](#) on Wed, 04 Nov 2009 11:16:14 GMT  
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Hi,  
this problem should come from the new geant4 version of the july09 external packages.

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Subject: Re: \*\*\* glibc detected \*\*\* double free or corruption (out): 0x0a0c66f0 \*\*\*  
Posted by [asanchez](#) on Wed, 04 Nov 2009 11:22:01 GMT  
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Yes, thanks for the information, but is there any solution for that?  
the point is that when I send some jobs to gsi batch farm,  
i get as a ticket "worked exited" instead of "work done", and i'm afraid that it can lead to break  
segmentations in some cases.

Can Mohammad tell anything to this respect?

thanks a lot.

ALicia S.

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Subject: Re: \*\*\* glibc detected \*\*\* double free or corruption (out): 0x0a0c66f0 \*\*\*  
Posted by [Mohammad Al-Turany](#) on Wed, 04 Nov 2009 13:56:34 GMT  
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Hi,

this is a problem in VMC/G4, I already reproduce this in the examples of the VMC, the solution  
is to add a delete in the dtor of TG4HadronPhysicsList. Anyway I took the chance also to clean  
a little in our code so at the GSI I will modify this and you can update to the newest SVN.

regards

Mohammad

Subject: Re: \*\*\* glibc detected \*\*\* double free or corruption (out): 0x0a0c66f0 \*\*\*  
Posted by [asanchez](#) on Wed, 04 Nov 2009 14:25:15 GMT

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Hi  
thank you very much,  
best regards  
alicia.

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Subject: Re: \*\*\* glibc detected \*\*\* double free or corruption (out): 0x0a0c66f0 \*\*\*  
Posted by [Mohammad Al-Turany](#) on Wed, 04 Nov 2009 15:00:31 GMT

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Hi again,

On the GSI cluster it is corrected now for Etch32 and 64, you have also to add delete fRun in your macro before exit(0).

regards

Mohammad

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Subject: Re: \*\*\* glibc detected \*\*\* double free or corruption (out): 0x0a0c66f0 \*\*\*  
Posted by [StefanoSpataro](#) on Wed, 04 Nov 2009 15:25:26 GMT

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Ehm,  
and if we want to updated your external packages in our local farm, what should we do?  
Should svn update be enough?

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Subject: Re: \*\*\* glibc detected \*\*\* double free or corruption (out): 0x0a0c66f0 \*\*\*  
Posted by [Mohammad Al-Turany](#) on Wed, 04 Nov 2009 15:33:41 GMT

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Hi,

I am waiting for an answer from Ivana, and according to what she will do we can change it in our SVN (External packages) or create a batch. but if you need this immediately, it is only one file:

```
$SIMPATH/transport/geant4_vmc/source/physics_list/src/TG4HadronPhysicsList.cxx
```

in the dtor add:

```
delete fPhysicsList;
```

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and then go back to \$SIMPATh/transport/geant4\_vmc/source and call make (the environment should have been set before this simply by calling your build\_panda/config.sh)

regards

Mohammad

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Subject: Re: \*\*\* glibc detected \*\*\* double free or corruption (out): 0x0a0c66f0 \*\*\*  
Posted by [Stefano Spataro](#) on Wed, 04 Nov 2009 15:36:12 GMT  
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Thanks.

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Subject: Re: \*\*\* glibc detected \*\*\* double free or corruption (out): 0x0a0c66f0 \*\*\*  
Posted by [Vanniarajan Suyam Jothi](#) on Wed, 14 Apr 2010 14:33:33 GMT  
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Hi,  
I wanted to use the physics list emStandard+optical.  
I get the similar error

```
** glibc detected *** /home/vanni/fairJan10/tools/root/bin/root.exe: double free or corruption  
(!prev): 0x091b8eb8 ***
```

while accessing the data from the simulation.  
I am not sure, if it has to do with same Error in the VMC. Can anybody help me?

Regards,  
Vanni

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Subject: Re: \*\*\* glibc detected \*\*\* double free or corruption (out): 0x0a0c66f0 \*\*\*  
Posted by [Stefano Spataro](#) on Wed, 14 Apr 2010 15:04:41 GMT  
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This error appears with g4 and it last since several months.  
If I remember well, it should be correlated to Geant4 classes/VMC, and not to our code, but I am not an expert about.

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