
Subject: Program received signal SIGFPE, Arithmetic exception
Posted by [Arkadiusz Bubak](#) on Thu, 20 Mar 2008 09:39:45 GMT
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Hi

I have a problem with macros:
macro/run/run_sim.C and and identical with run_sim1.C

I am using:

1. /misc/cbmsoft/Debian3.1/fairsoft
2. pandaroot rev. 2351
3. lxi003.gsi.de

In both macros if I change geant version from geant3 to geant4 I will get identical errors.

After run in gdb debugger I got:

```
-----  
-I CbmPrimaryGenerator: 10 primary tracks from vertex (0, 0, 0)  
>>> Event 0  
tof volume 14 2212  
Hit in fullname /cave_0/tofB01_0/tof02_0/tof07_0/
```

```
Program received signal SIGFPE, Arithmetic exception.  
[Switching to Thread 16384 (LWP 8631)]  
0x473d461c in G4VProcess::AtRestGPIL (this=0xcf5c588, track=@0xe1588e0,  
condition=0xb225c40)  
  at G4VProcess.hh:434  
434     return thePILfactor*value;  
Current language: auto; currently c++  
-----
```

Any idea what can be wrong?

Cheers
Arek

Subject: Re: Program received signal SIGFPE, Arithmetic exception
Posted by [Anonymous Poster](#) on Thu, 20 Mar 2008 09:49:19 GMT
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Hi Arek,

I tried macro/run/run_sim.C macro and it is working for me with the same pandaroot rev. 2351 version which you have tried. I think you should set the SIMPATH as:
export SIMPATH=/misc/cbmsoft/Debian3.1/mar08/fairsoft/

then recompile and run.

Best regards,

#1 0x00000001 in ?? ()

#2 0x00000000 in ?? ()

Root >

It works however on a 64 bit configuration (same machine, same gcc compiler). Furthermore, 64-bit MAC OS X 10.5 also works fine....

So, it looks to me like a problem related to 32-bit machines?!?

Johan.

Subject: Re: Program received signal SIGFPE, Arithmetic exception

Posted by [asanchez](#) on Thu, 03 Apr 2008 10:31:13 GMT

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Dear Arek ,

have you tried to remove the optical physics option from gconfig/G4Config.C

you should have only "QGSP_BERT_EMV option

```
TG4RunConfiguration* runConfiguration
```

```
= new TG4RunConfiguration("geomRoot", "QGSP_BERT_EMV");
```

instead of = new TG4RunConfiguration("geomRoot", "QGSP_BERT_EMV+optical");

let me know if it works.

cheers

ALicia.