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 the PIL factor*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 View Forum Message <> Reply to Message

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,

Subject: Re: Program received signal SIGFPE, Arithmetic exception Posted by Arkadiusz Bubak on Thu, 20 Mar 2008 10:22:57 GMT

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Hi Dipak,

With SIMPATH=/misc/cbmsoft/Debian3.1/mar08/fairsoft clean pandaroot revision 2351, I still have the same problem.

I download fairsoft.tar.gz from web page and compiled on openSuse10.2. And I'm facing also the same problem.

Subject: Re: Program received signal SIGFPE, Arithmetic exception Posted by Johan Messchendorp on Thu, 20 Mar 2008 23:03:57 GMT View Forum Message <> Reply to Message

Dear all,

I can confirm Arek's message. For the new fairsoft package with Pandaroot rev.2360, I get the following on a Debian etch machine, 32 bit (vmware, gcc 4.1.2, run_sim1.C with TGeant4):

Index: 23 used in the geometry: Yes recalculation needed: No

Material: DCHmixture

Range cuts : gamma 1 mm e-1 mm e+1 mm

Energy thresholds: gamma 990 eV e- 990 eV e+ 990 eV

Region(s) which use this couple : DefaultRegionForTheWorld

Run 0 start.

>>>>>>>>>>> event

-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/

*** Break *** floating point exception

Using host libthread_db library "/lib/tls/i686/cmov/libthread_db.so.1".

Attaching to program: /proc/9002/exe, process 9002

[Thread debugging using libthread_db enabled]

[New Thread -1223895360 (LWP 9002)]

Failed to read a valid object file image from memory.

0xb7f1d410 in ?? ()

```
#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 View Forum Message <> Reply to Message

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.