Subject: Re: Tutorial macro - tut_pid.C - crash due to kSigFloatingException
Posted by Elisabetta Prencipe (2) on Fri, 09 Aug 2013 13:15:02 GMT
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Uhmmm...maybe I was too optimistic yesterday on the trunk rev-21003.

I tried all /tutorial/rho macros over a reduced sample of 100 events on 2 different analysis, and everything looked working smooth. Today I tried to run more events. Here I attach the file.dec which I am currently using, and the sim-macro, where the only modified parameter compared to the tutorial sim-macro in /tutorial/rho/ is the momentum (I am running a simulation for the psi(4040)).
I also attach here the plot of the psi(4040) which I obtain running the first 200 events, and it looks ok (true pid).
I made 5 attempts before posting this message, and I got a segmentation fault always at the same point: event #216
I am running a sample of 5000 events right now.

tut_sim.C OK
tut_digi.C OK
tut_rec.C OK
tut_pid.C it crashes at the event #216

Here below is the error message. Any idea what is going wrong? Did anybody meet the same problem before? is there the possibility to flag/exclude an event in pandaroot simulations?
I see here a "kSigFloatingException" break.
Just an idea: I am using PHOTOS. Can we use it in PANDA or is it still too soon? In this simulation my J/psi decays to mu+ mu- using the model VLL, and to e+e- using the model VLL + PHOTOS for electrons only.

Thanks for any hint, Elisabetta

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FairGeanePro:FindPCA: Track2ToPoint quitFlag 1 ABORT
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 ===== PndPidCorrelator - Event: 214 - Number of tracks for pid 6 - Number of Clusters for pid: EMC: 5 FSC: 5
 ===== PndPidCorrelator - Event: 215 - Number of tracks for pid 4 - Number of Clusters for pid: EMC: 14 FSC: 0
 ===== PndPidCorrelator - Event: 216 - Number of tracks for pid 5 - Number of Clusters for pid: EMC: 6 FSC: 0

 *** Break *** floating point exception

[6]+ Stopped root -b tut_pid.C

==========
There was a crash (kSigFloatingException).
This is the entire stack trace of all threads:

```
==========================================================
#0  0x002ed416 in __kernel_vsyscall ()
#1  0x0038ae43 in __waitpid_nocancel () from /lib/libc.so.6
#2  0x003274c3 in do_system () from /lib/libc.so.6
#3  0x0014f24d in system () from /lib/libpthread.so.0
#4  0x00aaa873 in TUnixSystem::Exec (this=0x9a3a750,
    shellcmd=0x18e44bf0 "
/home/prencipe/panda/ExternalPackages092012/build_sep12/etc/gdb-backtrac e.sh 4065
1>&2")
    at  /home/prencipe/panda/ExternalPackages092012/sep12/tools/root/core/unix/s
rc/TUnixSystem.cxx:2084
#5  0x00aab09c in TUnixSystem::StackTrace (this=0x9a3a750)
    at  /home/prencipe/panda/ExternalPackages092012/sep12/tools/root/core/unix/s
rc/TUnixSystem.cxx:2332
#6  0x00aa8bc7 in TUnixSystem::DispatchSignals (this=0x9a3a750,
    sig=kSigFloatingException)
    at  /home/prencipe/panda/ExternalPackages092012/sep12/tools/root/core/unix/s
rc/TUnixSystem.cxx:1210
#7  0x00aa6f19 in SigHandler (sig=kSigFloatingException)
    at  /home/prencipe/panda/ExternalPackages092012/sep12/tools/root/core/unix/s
rc/TUnixSystem.cxx:367
#8  0x00aae4af in sighandler (sig=8)
    at  /home/prencipe/panda/ExternalPackages092012/sep12/tools/root/core/unix/s
rc/TUnixSystem.cxx:3622
#9  <signal handler called>
#10 0xa00ff376 in ertrch () at erdecks/ertrch.F:134
#11 0xa010182c in ertrgo () at erdecks/ertrgo.F:249
==========================================================


The lines below might hint at the cause of the crash.
If they do not help you then please submit a bug report at
http://root.cern.ch/bugs. Please post the ENTIRE stack trace
from above as an attachment in addition to anything else
that might help us fixing this issue.
==========================================================
#10 0xa00ff376 in ertrch () at erdecks/ertrch.F:134
#11 0xa010182c in ertrgo () at erdecks/ertrgo.F:249
==========================================================
```

File Attachments

1) psi4040.eps, downloaded 410 times
2) tut_sim.C, downloaded 419 times
3) Y4040.dec, downloaded 398 times