
Subject: Re: Crash in genfit/geane

Posted by [Ronald Kunne](#) on Fri, 23 Oct 2009 13:47:22 GMT

[View Forum Message](#) <> [Reply to Message](#)

Christian Hoepfner wrote on Sat, 17 October 2009 12:45: Can you please give me more exact information on the crash, i.e. the complete stack trace and also frame info of the steps in the stack trace that are inside the fortran code.

I didn't get your method to work, but here is all the info I do get. I hope this is enough to work with.

Macro with the crash: run_kalman_tpc.C

Simulated events: root run_sim_tpccombi_pgun.C"(1000,11,2,-1)"

Error output:

```
*** Break *** floating point exception
Attaching to program: /proc/9990/exe, process 9990
[Thread debugging using libthread_db enabled]
[New Thread 0xb6a6a6c0 (LWP 9990)]
0xb7f1c410 in __kernel_vsyscall ()
#1 0xb6b334d3 in waitpid () from /lib/tls/i686/cmov/libc.so.6
#2 0xb6ad6643 in ?? () from /lib/tls/i686/cmov/libc.so.6
#3 0xb6bfad7d in system () from /lib/tls/i686/cmov/libpthread.so.0
#4 0xb798cd99 in TUnixSystem::Exec (this=0x80ea6f8,
#5 0xb798c04e in TUnixSystem::StackTrace (this=0x80ea6f8)
    at core/unix/src/TUnixSystem.cxx:2133
#6 0xb798f1dc in TUnixSystem::DispatchSignals (this=0x80ea6f8,
    sig=kSigFloatingException) at core/unix/src/TUnixSystem.cxx:1100
#7 0xb798f309 in SigHandler (sig=kSigFloatingException)
    at core/unix/src/TUnixSystem.cxx:350
#8 0xb7985481 in sighandler (sig=8) at core/unix/src/TUnixSystem.cxx:3369
#9 <signal handler called>
#10 0xb6c21442 in powf () from /lib/tls/i686/cmov/libm.so.6
#11 0xae23383a in erland_ (step=@0xae44e8ac, zmat=@0xae45a9fc,
    amat=@0xae45a9f8, rho=@0xae45aa00, p=@0xae44e778, e=@0xae44e77c,
    xmass=@0xae44f7b4, dedx=@0xae44e89c, dedx2=@0xae5d00d4)
    at erdecks/erland.F:178
#12 0xae23709e in ertrch_ () at erdecks/ertrch.F:421
#13 0xae23816c in ertrgo_ () at erdecks/ertrgo.F:249
#14 0xae2355b9 in ertrak_ (x1=0xc8a5310, p1=0xc8a531c, x2=0xc8a5284,
    p2=0xc8a5290, ipa=@0xbf8e42d4, chopt=@0xc86f178, _chopt=2)
    at erdecks/ertrak.F:242
#15 0xae3225c5 in TGeant3::Ertrak (this=0x959f850, x1=0xc8a5310, p1=0xc8a531c,
    x2=0xc8a5284, p2=0xc8a5290, ipa=3, chopt=0xc86f178 "PE")
    at TGeant3/TGeant3.cxx:5402
#16 0xb1abbecc in FairGeanePro::Propagate (this=0xc8a5200, PDG=11)
    at /vol0/panda/fairroot/pandaroot/trunk/geane/FairGeanePro.cxx:287
#17 0xb1abcabb in FairGeanePro::Propagate (this=0xc8a5200, TStart=0xbf8e49b0,
    TEnd=0xbf8e4dd8, PDG=11)
    at /vol0/panda/fairroot/pandaroot/trunk/geane/FairGeanePro.cxx:227
#18 0xb3616999 in GeaneTrackRep::extrapolate (this=0xdfaa7f0, pl=@0xbf8e6478,
    statePred=@0xbf8e637c, covPred=@0xbf8e6280)
```

```

at /vol0/panda/fairroot/pandaroot/trunk/GenfitTools/trackrep/GeaneTrackRep/
GeaneTrackRep.cxx:168
#19 0xb36adb5e in GFKalman::processHit (this=0xbf8eb068, tr=0xe30c768,
ihit=14, irep=0, direction=1)
at /vol0/panda/fairroot/pandaroot/trunk/genfit/GFKalman.cxx:277
#20 0xb36ae824 in GFKalman::fittingPass (this=0xbf8eb068, trk=0xe30c768,
direction=1)
at /vol0/panda/fairroot/pandaroot/trunk/genfit/GFKalman.cxx:172
#21 0xb36aea05 in GFKalman::processTrack (this=0xbf8eb068, trk=0xe30c768)
at /vol0/panda/fairroot/pandaroot/trunk/genfit/GFKalman.cxx:72
#22 0xb1b2cbcb in PndLheKalmanTask::Exec (this=0xb52b5f8, opt=0xb3d92880 "")
at /vol0/panda/fairroot/pandaroot/trunk/lhetrack/PndLheKalmanTask.cxx:240
#23 0xb78f4123 in TTask::ExecuteTasks (this=0x87adb10, option=0xb3d92880 "")
at core/base/src/TTask.cxx:298
#24 0xb78f439f in TTask::ExecuteTask (this=0x87adb10, option=0xb3d92880 "")
at core/base/src/TTask.cxx:261
#25 0xb3d18cdf in FairRunAna::Run (this=0x87ada78, Ev_start=0, Ev_end=1000)
at /vol0/panda/fairroot/pandaroot/trunk/base/FairRunAna.cxx:253
#26 0xb3d564a4 in G__FairDict_662_0_5 (result7=0xbf8f7054,
funcname=0x87aae50 "\001", libp=0xbf8ec9e8, hash=0)
at /vol0/panda/fairroot/build/base/FairDict.cxx:9019
#27 0xb6ff5e6a in Cint::G__ExceptionWrapper (
funcp=0xb3d563ac <G__FairDict_662_0_5>, result7=0xbf8f7054,
funcname=0x87aae50 "\001", libp=0xbf8ec9e8, hash=0)
at cint/cint/src/Api.cxx:384
#28 0xb70d9c19 in G__execute_call (result7=0xbf8f7054, libp=0xbf8ec9e8,
ifunc=0x87aae50, ifn=0) at cint/cint/src/newlink.cxx:2329
#29 0xb70e1bb8 in G__call_cppfunc (result7=0xbf8f7054, libp=0xbf8ec9e8,
ifunc=0x87aae50, ifn=0) at cint/cint/src/newlink.cxx:2515
#30 0xb709c5e3 in G__interpret_func (result7=0xbf8f7054,
funcname=0xbf8f812c "Run", libp=0xbf8ec9e8, hash=309, p_ifunc=0x87aae50,
funcmatch=1, memfunc_flag=1) at cint/cint/src/ifunc.cxx:5278
#31 0xb708aba3 in G__getfunction (item=0xbf8fe65e "Run(0,nEvents)",
known3=0xbf8fc9a8, memfunc_flag=1) at cint/cint/src/func.cxx:2534
#32 0xb718ea45 in G__getstructmem (store_var_type=112,
varname=0xbf8fbcac "timer", membername=0xbf8fe65e "Run(0,nEvents)",
tagname=0xbf8fc4ac "fRun", known2=0xbf8fc9a8, varglobal=0xb72523a0,
objptr=2) at cint/cint/src/var.cxx:6695
#33 0xb717f3f2 in G__getvariable (item=0xbf8fe658 "fRun->Run(0,nEvents)",
known=0xbf8fc9a8, varglobal=0xb72523a0, varlocal=0x0)
at cint/cint/src/var.cxx:5324
#34 0xb7055d97 in G__getitem (item=0xbf8fe658 "fRun->Run(0,nEvents)")
at cint/cint/src/expr.cxx:1884
#35 0xb7069c09 in G__getexpr (expression=0xbf8fea3c "fRun->Run(0,nEvents)")
at cint/cint/src/expr.cxx:1470
#36 0xb70f4976 in G__exec_function (
statement=0xbf8fea3c "fRun->Run(0,nEvents)", pc=0xbf8fea34,
piout=0xbf8fea2c, plargestep=0xbf8fea1c, presult=0xbf8fe928)
at cint/cint/src/parse.cxx:601
#37 0xb70fcd0 in G__exec_statement (mparen=0xbf905ee8)
at cint/cint/src/parse.cxx:7015
#38 0xb703ddf7 in G__exec_tempfile_core (

```

```
file=0xbf90774c "/vol0/panda/fairroot/pandaroot/trunk/tutorials/lhetrack/./run_kalman_tpc.C", fp=0x0) at cint/cint/src/debug.cxx:251
#39 0xb703e1c9 in G__exec_tempfile (
  file=0xbf90774c "/vol0/panda/fairroot/pandaroot/trunk/tutorials/lhetrack/./run_kalman_tpc.C") at cint/cint/src/debug.cxx:798
#40 0xb710fa35 in G__process_cmd (
  line=0x811b608 ".X /vol0/panda/soft/fairsoft/tools/root/etc/plugins/TFile/P100_TXNetFile.C", prompt=0x80ed09c "", more=0x80ed094, err=0xbf90a0a4,
  rslt=0xbf90a070) at cint/cint/src/pause.cxx:3089
#41 0xb7977c31 in TCint::ProcessLine (this=0x80ed078,
  line=0x811b608 ".X /vol0/panda/soft/fairsoft/tools/root/etc/plugins/TFile/P100_TXNetFile.C", error=0xbf90a810) at core/meta/src/TCint.cxx:413
#42 0xb796e895 in TCint::ProcessLineSynch (this=0x80ed078,
  line=0x811b608 ".X /vol0/panda/soft/fairsoft/tools/root/etc/plugins/TFile/P100_TXNetFile.C", error=0xbf90a810) at core/meta/src/TCint.cxx:480
#43 0xb786ba2d in TApplication::ExecuteFile (
  file=0xbf90a81d "run_kalman_tpc.C", error=0xbf90a810, keep=false)
  at core/base/src/TApplication.cxx:956
#44 0xb786bbe0 in TApplication::ProcessFile (this=0x8118e78,
  file=0xbf90a81d "run_kalman_tpc.C", error=0xbf90a810, keep=false)
  at core/base/src/TApplication.cxx:841
#45 0xb786e307 in TApplication::ProcessLine (this=0x8118e78,
  line=0xbf90a81a ".x run_kalman_tpc.C", sync=false, err=0xbf90a810)
  at core/base/src/TApplication.cxx:814
#46 0xb6d50bdd in TRint::Run (this=0x8118e78, retrn=false)
  at core/rint/src/TRint.cxx:368
#47 0x08048ef7 in main (argc=1, argv=0xbf90c944) at main/src/rmain.cxx:29
The program is running. Quit anyway (and detach it)? (y or n) [answered Y; input not from terminal]
Detaching from program: /proc/9990/exe, process 9990
Root >
```