
Subject: problem with TrackCand

Posted by [asanchez](#) on Mon, 23 Mar 2009 18:03:47 GMT

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Dear all,
i'm using the genfit package for the tracking.

I have already been working a while without having problems.
Now after the release 3834 i'm start having problems to
build my candidates as a TrackCand. Specially by using
the function SetCandidate(pointer to trackcand class) of Track.h

See PndHypDPatternReco.cxx at hyp/hypTracking

to reproduce the problem
run sim_pid.C
change the output path in hit_hyp.C
and create the hits objects
and then run runReco.C

as i have already told at version 3834 of genfit is everything ok.
but after this version not.

I don't really understand what it is going on, can any of you experts help me.?
thanks in advance
alicia S.

that is the message i'm getting

```
PndHypDPatternRecoTask::Exec
<<<<< Event 127 <<<
particle 3312
hits track 16
```

```
*** Break *** floating point exception
Using host libthread_db library "/lib/libthread_db.so.1".
Attaching to program: /proc/4346/exe, process 4346
Failed to read a valid object file image from memory.
done.
done.
[Thread debugging using libthread_db enabled]
[New Thread 16384 (LWP 4346)]
done.
done.
done.
done.
done.
done.
done.
done.
done.
done.
```

0x4117f788 in waitpid () from /lib/libc.so.6
 #1 0x412078c0 in __DTOR_END__ () from /lib/libc.so.6
 #2 0x41118442 in do_system () from /lib/libc.so.6
 #3 0x41093c5f in system () from /lib/libpthread.so.0
 #4 0x40237363 in TUnixSystem::Exec (this=0x80e2a78,
 #5 0x40237836 in TUnixSystem::StackTrace (this=0x80e2a78) at
 core/unix/src/TUnixSystem.cxx:2121
 #6 0x402356f5 in TUnixSystem::DispatchSignals (this=0x80e2a78,
 sig=kSigFloatingException) at core/unix/src/TUnixSystem.cxx:1089
 #7 0x402336b4 in SigHandler (sig=kSigFloatingException) at
 core/unix/src/TUnixSystem.cxx:351
 #8 0x4023a6d3 in sighandler (sig=8) at core/unix/src/TUnixSystem.cxx:3344
 #9 0x41092825 in __pthread_sighandler () from /lib/libpthread.so.0
 #10 <signal handler called>
 #11 0x442974b1 in TrackCand::operator= (this=0xa80e4dc, _ctor_arg=@0xa7396d0) at
 /d/pndint02/asanchez/FairFeb09/build/genfit/genfitDict.cxx:3251
 #12 0x44296579 in Track::setCandidate (this=0xa80e4c0, cand=@0xa7396d0, reset=false) at
 /d/pndint02/asanchez/FairFeb09/trunk/genfit/Track.cxx:79
 #13 0x451506f1 in PndHypDPatternRecoTask::Exec (this=0x9e12f30, opt=0x43d54200 "")
 at /d/pndint02/asanchez/FairFeb09/trunk/hyp/hypTracking/PndHypDPatternRecoT
 ask.cxx:248
 #14 0x401b16af in TTask::ExecuteTasks (this=0x86ae100, option=0x43d54200 "") at
 core/base/src/TTask.cxx:298
 #15 0x401b14b1 in TTask::ExecuteTask (this=0x86ae100, option=0x43d54200 "") at
 core/base/src/TTask.cxx:261
 #16 0x43cd69e1 in FairRunAna::Run (this=0x86ae078, Ev_start=0, Ev_end=4787) at
 /d/pndint02/asanchez/FairFeb09/trunk/base/FairRunAna.cxx:248
 #17 0x43d176bc in G__FairDict_532_0_5 (result7=0xbfa1fd80, funcname=0x86ac0d0 "\001",
 libp=0xbfa19f00, hash=0)
 at /d/pndint02/asanchez/FairFeb09/build/base/FairDict.cxx:9288
 #18 0x407b6126 in Cint::G__ExceptionWrapper (funcp=0x43d175b8 <G__FairDict_532_0_5>,
 result7=0xbfa1fd80, funcname=0x86ac0d0 "\001", libp=0xbfa19f00,
 hash=0) at cint/cint/src/Api.cxx:364
 #19 0x408757f5 in G__execute_call (result7=0xbfa1fd80, libp=0xbfa19f00, ifunc=0x86ac0d0,
 ifn=0) at cint/cint/src/newlink.cxx:2305#20 0x40875ed8 in G__call_cppfunc
 (result7=0xbfa1fd80, libp=0xbfa19f00, ifunc=0x86ac0d0, ifn=0) at cint/cint/src/newlink.cxx:2471
 #20 0x40875ed8 in G__call_cppfunc (result7=0xbfa1fd80, libp=0xbfa19f00, ifunc=0x86ac0d0,
 ifn=0) at cint/cint/src/newlink.cxx:2471
 #21 0x40855818 in G__interpret_func (result7=0xbfa1fd80, funcname=0xbfa1f980 "Run",
 libp=0xbfa19f00, hash=309, p_ifunc=0x86ac0d0, funcmatch=1,
 memfunc_flag=1) at cint/cint/src/ifunc.cxx:5245
 #22 0x40834ca1 in G__getfunction (item=0xbfa227d6 "Run(0,nEvents)", known3=0xbfa2201c,
 memfunc_flag=1) at cint/cint/src/func.cxx:2534
 #23 0x40940b6b in G__getstructmem (store_var_type=112, varname=0xbfa20010 "8r+\b"),
 membername=0xbfa227d6 "Run(0,nEvents)", tagname=0xbfa20220 "fRun",
 known2=0xbfa2201c, varglobal=0x409ebec0, objptr=2) at cint/cint/src/var.cxx:6623
 #24 0x409329d7 in G__getvariable (item=0xbfa227d0 "fRun->Run(0,nEvents)",
 known=0xbfa2201c, varglobal=0x409ebec0, varlocal=0x0)
 at cint/cint/src/var.cxx:5252
 #25 0x40825f01 in G__getitem (item=0xbfa227d0 "fRun->Run(0,nEvents)") at
 cint/cint/src/expr.cxx:1884
 #26 0x4082387b in G__getexpr (expression=0xbfa240a0 "fRun->Run(0,nEvents)") at

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cint/cint/src/expr.cxx:1470
#27 0x4089fde5 in G__exec_function (statement=0xbfa240a0 "fRun->Run(0,nEvents)",
pc=0xbfa244cc, piout=0xbfa244c4, plargestep=0xbfa244b4,
presult=0xbfa24070) at cint/cint/src/parse.cxx:601
#28 0x408af2a6 in G__exec_statement (mparen=0xbfa24550) at cint/cint/src/parse.cxx:6972
#29 0x407fa6ab in G__exec_tempfile_core (file=0xbfa2d8a0
"/d/pndint02/asanchez/FairFeb09/trunk/macro/hyp/.runReco.C", fp=0x0)
at cint/cint/src/debug.cxx:251
#30 0x407fbee1 in G__exec_tempfile (file=0xbfa2d8a0
"/d/pndint02/asanchez/FairFeb09/trunk/macro/hyp/.runReco.C") at cint/cint/src/debug.cxx:798
#31 0x408bb4e2 in G__process_cmd (line=0x406e9b0e "cave_1", prompt=0x80e6264 "",
more=0x80e625c, err=0xbfa2e11c, rslt=0xbfa2e120)
at cint/cint/src/pause.cxx:3074
#32 0x4021e958 in TCint::ProcessLine (this=0x80e6240, line=0x406e9b0e "cave_1",
error=0xbfa30924) at core/meta/src/TCint.cxx:339
#33 0x4021ed70 in TCint::ProcessLineSynch (this=0x80e6240, line=0x406e9b0e "cave_1",
error=0xbfa30924) at core/meta/src/TCint.cxx:406
#34 0x401357c5 in TApplication::ExecuteFile (file=0xbfa2e8c3 "runReco.C",
error=0xbfa30924) at core/base/src/TApplication.cxx:935
#35 0x40135094 in TApplication::ProcessFile (this=0x81078b8, file=0xbfa2e8c3 "runReco.C",
error=0xbfa30924) at core/base/src/TApplication.cxx:825
#36 0x40134fd7 in TApplication::ProcessLine (this=0x81078b8, line=0xbfa2e8c0 ".x
runReco.C", sync=false, err=0xbfa30924)
at core/base/src/TApplication.cxx:798
#37 0x4101d78c in TRint::Run (this=0x81078b8, retrn=false) at core/rint/src/TRint.cxx:355
#38 0x08048ece in main (argc=1, argv=0xbfa309e4) at main/src/rmain.cxx:29
Root >
```

Subject: Re: problem with TrackCand
Posted by [Anonymous Poster](#) on Tue, 31 Mar 2009 13:16:13 GMT
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Hi,

I just fixed this bug. Should be gone... Had to do with uninitialized doubles...

Cheers, Christian

Subject: Re: problem with TrackCand
Posted by [asanchez](#) on Tue, 31 Mar 2009 15:33:17 GMT
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Hi Christian,
now it seems to work fine.
thanks a lot
Alicia S.
