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Subject: Crash in genfit -> KalmanTask 15/3/2010  
Posted by [StefanoSpataro](#) on Mon, 15 Mar 2010 09:28:31 GMT  
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Dear all,

I have found that in my dashboard the macro reco\_complete\_tpc crashes (and I am not the only one).

In particular, the error comes from KalmanTask, therefore tpc genfit. If you execute the script by dashboard, you have an error. If you execute the macro by normal root reco\_complete\_tpc.C, the program is quitting root.

Is it possible to fix it?

I suppose there is something not protected in the kalman task, which is giving a bad track to genfit and the exception is not correctly handled (trying to guess, I have never used KalmanTask).

The error could not be seen in the past because before there was a gem bug covering it (fixed since a while), then maybe the error exists since a while.

Have a nice fixing, I copy the gdb error trace.

Toggle Spoiler

GFException thrown with excString:

GEANE propagation failed

in line: 169 in file:

/home/spataro/dart/trunk/GenfitTools/trackrep/GeaneTrackRep/GeaneTrackRe p.cxx  
with fatal flag 0

Program received signal SIGFPE, Arithmetic exception.

[Switching to Thread -1208060224 (LWP 17211)]

0xb113115c in erland\_ () from

/home/spataro/jan10/transport/geant3/lib/tgt\_linux/libgeant321.so

(gdb) bt

#0 0xb113115c in erland\_ () from

/home/spataro/jan10/transport/geant3/lib/tgt\_linux/libgeant321.so

#1 0xb113331d in ertrch\_ () from

/home/spataro/jan10/transport/geant3/lib/tgt\_linux/libgeant321.so

#2 0xb1133ded in ertrgo\_ () from

/home/spataro/jan10/transport/geant3/lib/tgt\_linux/libgeant321.so

#3 0xb1132747 in ertrak\_ () from

/home/spataro/jan10/transport/geant3/lib/tgt\_linux/libgeant321.so

#4 0xb11c1ecf in TGeant3::Ertrak () from

/home/spataro/jan10/transport/geant3/lib/tgt\_linux/libgeant321.so

#5 0x0681a246 in FairGeanePro::Propagate (this=0x13240610, PDG=-11) at

/home/spataro/dart/trunk/geane/FairGeanePro.cxx:277

#6 0x06819a9e in FairGeanePro::Propagate (this=0x13240610, TStart=0xbffcf70,

TEnd=0xbffcf770, PDG=-11)

at /home/spataro/dart/trunk/geane/FairGeanePro.cxx:226

#7 0x02070b8c in GeaneTrackRep::extrapolateToPoint (this=0xb6079a0, pos=@0xbffd0530,

poca=@0xbffd04d0, dirInPoca=@0xbffd0500)

at /home/spataro/dart/trunk/GenfitTools/trackrep/GeaneTrackRep/GeaneTrackRe p.cxx:270

#8 0x04ab2dce in GFSpacepointHitPolicy::detPlane (this=0x13681c80, hit=0x13681a70,

rep=0xb6079a0)  
at /home/spataro/dart/trunk/genfit/GFSpacepointHitPolicy.cxx:93  
#9 0x028bdf7a in GFRecoHitlfc<GFSpacepointHitPolicy>::getDetPlane (this=0x13681a70, rep=0xb6079a0) at /home/spataro/dart/trunk/genfit/GFRecoHitlfc.h:82  
#10 0x04aac0cc in GFKalman::processHit (this=0xbffd14a0, tr=0x13758140, ihit=11, irep=0, direction=1) at /home/spataro/dart/trunk/genfit/GFKalman.cxx:268  
#11 0x04aab2cc in GFKalman::fittingPass (this=0xbffd14a0, trk=0x13758140, direction=1) at /home/spataro/dart/trunk/genfit/GFKalman.cxx:169  
#12 0x04aaaa88 in GFKalman::processTrack (this=0xbffd14a0, trk=0x13758140) at /home/spataro/dart/trunk/genfit/GFKalman.cxx:71  
#13 0x02e031bd in KalmanTask::Exec (this=0x996d288, opt=0x1c05108 "") at /home/spataro/dart/trunk/recotasks/KalmanTask.cxx:243  
#14 0x00902925 in TTask::ExecuteTasks () from /home/spataro/jan10/tools/root/lib/libCore.so.5.26  
#15 0x00902721 in TTask::ExecuteTask () from /home/spataro/jan10/tools/root/lib/libCore.so.5.26  
#16 0x01ba62fa in FairRunAna::Run (this=0x8e5faf8, Ev\_start=0, Ev\_end=10) at /home/spataro/dart/trunk/base/FairRunAna.cxx:271  
#17 0x01bde46e in G\_\_FairDict\_669\_0\_5 (result7=0xbffdcc0, funcname=0x8e5db78 "\001", libp=0xbffd2690, hash=0)

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