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Subject: Re: Mvd code update

Posted by [Stefano Spataro](#) on Thu, 20 May 2010 10:10:13 GMT

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Hi,

thanks for the fix. Now I have seen there is a last problem in the reconstruction code. Once I launch macro/qa/lhetrack/run\_reco\_tpccombi.C I have the following crash:

Toggle Spoiler

```
*** Event # 1
===== PndLheHitsMaker =====
  Total number of hits for tracking:  63
Total number of tracks in TPC:    2
  Good tracks in TPC:    1
Working with 63 hits
found  1 tracks
finder  : Real Time =  0.01 seconds Cpu Time =  0.00 seconds
===== PndLheTrackFitter =====
Number of tracks for fitting 1
```

```
*** Break *** segmentation violation
```

```
=====
There was a crash (#7 0x009793b0 in SigHandler ()).
```

```
This is the entire stack trace of all threads:
```

```
=====
#0 0x0075f7a2 in _dl_sysinfo_int80 () from /lib/ld-linux.so.2
#1 0x07536f13 in __waitpid_nocancel () from /lib/tls/libc.so.6
#2 0x074e07b9 in do_system () from /lib/tls/libc.so.6
#3 0x0072b98d in system () from /lib/tls/libpthread.so.0
#4 0x00976c87 in TUnixSystem::Exec ()
  from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#5 0x0097cb66 in TUnixSystem::StackTrace ()
  from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#6 0x00979322 in TUnixSystem::DispatchSignals ()
  from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#7 0x009793b0 in SigHandler ()
  from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#8 0x0097862d in sighandler ()
  from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#9 <signal handler called>
#10 0x00a4f940 in TRefCnt::AddReference ()
  from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#11 0x00a4f931 in TString::TString ()
  from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#12 0x05901b50 in PndMvdHit::GetDetName (this=0xc397d50)
  at /home/spataro/test/trunk/pnddata/MvdData/PndMvdHit.h:79
#13 0x073be6e0 in PndMvdRecoHit::PndMvdRecoHit ()
  at /home/spataro/jan10/tools/root/include/TList.h:66
#14 0x03378ac9 in GFRecoHitProducer<PndMvdHit, PndMvdRecoHit>::produce (
```

```

this=0x96cf2f8, index=0)
at /home/spataro/test/trunk/genfit/GFRecoHitProducer.h:130
#15 0x02b52ef6 in GFRecoHitFactory::createOne (this=0x9928550, detID=8,
index=0) at /home/spataro/test/trunk/genfit/GFRecoHitFactory.cxx:56
#16 0x02b532cb in GFRecoHitFactory::createMany (this=0x9928550,
cand=
0xc3a3ff4) at /home/spataro/test/trunk/genfit/GFRecoHitFactory.cxx:77
#17 0x0387a9bc in PndRecoKalmanFit::Fit (this=0x8ed3918, tBefore=0xc3a64f8,
PDG=13)
at /home/spataro/test/trunk/GenfitTools/recotasks/PndRecoKalmanFit.cxx:218
#18 0x03880c8e in PndRecoKalmanTask::Exec (this=0x8ed1850, opt=0x6ec3638 "")
at /home/spataro/test/trunk/GenfitTools/recotasks/PndRecoKalmanTask.cxx:119
#19 0x00902925 in TTask::ExecuteTasks ()
from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#20 0x00902721 in TTask::ExecuteTask ()
from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#21 0x06e53e36 in FairRunAna::Run (this=0x8316f10, Ev_start=0, Ev_end=100)
at /home/spataro/test/trunk/base/FairRunAna.cxx:274
#22 0x06e9544e in G__FairDict_681_0_5 (result7=0xbff62400,
funcname=0x8ac1e78 "\001", libp=0xbff57db0, hash=0)
at /home/spataro/test/cbuild/base/FairDict.cxx:10905
#23 0x0014f1d3 in Cint::G__ExceptionWrapper ()
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26
#24 0x001e7aa0 in G__execute_call ()
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26
#25 0x001e7db2 in G__call_cppfunc ()
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26
#26 0x001c98f3 in G__interpret_func ()
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26
#27 0x001b5f28 in G__getfunction ()
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26
#28 0x0029f339 in G__getstructmem ()
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26
#29 0x00296f76 in G__getvariable ()
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26
#30 0x00198ee6 in G__getitem ()
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26
#31 0x0019d089 in G__getexpr ()
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26
#32 0x0021b3ed in G__exec_statement ()
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26
#33 0x00186854 in G__exec_tempfile_core ()
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26
#34 0x00187bd3 in G__exec_tempfile ()
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26
#35 0x00229c92 in G__process_cmd ()
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26
#36 0x00964b57 in TCint::ProcessLine ()
from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#37 0x00964cd8 in TCint::ProcessLineSynch ()
from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#38 0x008993b0 in TApplication::ExecuteFile ()

```

```
from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#39 0x00899673 in TApplication::ProcessFile ()
from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#40 0x0089798f in TApplication::ProcessLine ()
from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#41 0x006d1481 in TRint::Run ()
from /home/spataro/jan10/tools/root/lib/libRint.so.5.26
#42 0x08048d5a in main ()
```

=====

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 0x00a4f940 in TRefCnt::AddReference ()
from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#11 0x00a4f931 in TString::TString ()
from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#12 0x05901b50 in PndMvdHit::GetDetName (this=0xc397d50)
at /home/spataro/test/trunk/pnddata/MvdData/PndMvdHit.h:79
#13 0x073be6e0 in PndMvdRecoHit::PndMvdRecoHit ()
at /home/spataro/jan10/tools/root/include/TList.h:66
#14 0x03378ac9 in GFRecoHitProducer<PndMvdHit, PndMvdRecoHit>::produce (
this=0x96cf2f8, index=0)
at /home/spataro/test/trunk/genfit/GFRecoHitProducer.h:130
#15 0x02b52ef6 in GFRecoHitFactory::createOne (this=0x9928550, detID=8,
index=0) at /home/spataro/test/trunk/genfit/GFRecoHitFactory.cxx:56
#16 0x02b532cb in GFRecoHitFactory::createMany (this=0x9928550,
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0xc3a3ff4) at /home/spataro/test/trunk/genfit/GFRecoHitFactory.cxx:77
#17 0x0387a9bc in PndRecoKalmanFit::Fit (this=0x8ed3918, tBefore=0xc3a64f8,
PDG=13)
at /home/spataro/test/trunk/GenfitTools/recotasks/PndRecoKalmanFit.cxx:218
#18 0x03880c8e in PndRecoKalmanTask::Exec (this=0x8ed1850, opt=0x6ec3638 "")
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#19 0x00902925 in TTask::ExecuteTasks ()
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#20 0x00902721 in TTask::ExecuteTask ()
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#21 0x06e53e36 in FairRunAna::Run (this=0x8316f10, Ev_start=0, Ev_end=100)
at /home/spataro/test/trunk/base/FairRunAna.cxx:274
=====
```

I suppose something is screwed in the mvd reco hit.

Morevoer, in the sim hundreds of mvd volumes are written in the log, maybe it could be the case to "verbose" it by a flag.

