
Subject: Re: Riemann track finder crash.

Posted by [Susanna Costanza](#) on Tue, 18 Jan 2011 16:02:21 GMT

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Hi all,

when running the track reconstruction, it happens that the code crashes in PndRiemannHit. The error message is the following:

```
*** Break *** floating point exception
```

```
=====
There was a crash (kSigFloatingException).
```

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

```
=====
#0 0x002737a2 in _dl_sysinfo_int80 () from /lib/ld-linux.so.2
#1 0x0336a533 in __waitpid_nocancel () from /lib/tls/libc.so.6
#2 0x03313869 in do_system () from /lib/tls/libc.so.6
#3 0x0024fb8d in system () from /lib/tls/libpthread.so.0
#4 0x00759aa0 in TUnixSystem::Exec (this=0x8c687e8,
  shellcmd=0x11ffe868 "/data0/panda/fairsoft_jan10/tools/root/etc/gdb-backtrace.sh 3810
  1>&2") at core/unix/src/TUnixSystem.cxx:1978
#5 0x0075a290 in TUnixSystem::StackTrace (this=0x8c687e8)
  at core/unix/src/TUnixSystem.cxx:2188
#6 0x00757d0f in TUnixSystem::DispatchSignals (this=0x8c687e8,
  sig=kSigFloatingException) at core/unix/src/TUnixSystem.cxx:1106
#7 0x00755b25 in SigHandler (sig=kSigFloatingException)
  at core/unix/src/TUnixSystem.cxx:350
#8 0x0075d29e in sighandler (sig=8) at core/unix/src/TUnixSystem.cxx:3428
#9 <signal handler called>
#10 0x028cd253 in PndRiemannHit::operator< (this=0xbfee94b0, aHit=
  0x12102c30)
  at /data0/panda/pandaroot_jan11/trunk/PndTools/riemannfit/PndRiemannHit.h:6 0
#11 0x028cd5f3 in std::__insertion_sort<__gnu_cxx::__normal_iterator<PndRiemannHit*,
  std::vector<PndRiemannHit, std::allocator<PndRiemannHit> > > > (&__first=
  {__M_current = 0x12102c30}, __last={__M_current = 0x121030a4})
  at /usr/lib/gcc/i386-redhat-linux/3.4.6/../../../../include/c++/3.4.6/bits/stl_algo.h:2117
#12 0x028cc89f in std::__final_insertion_sort<__gnu_cxx::__normal_iterator<PndRiemannHit*,
  std::vector<PndRiemannHit, std::allocator<PndRiemannHit> > > > (&
  __first={__M_current = 0x12102c30}, __last={__M_current = 0x121030a4})
  at /usr/lib/gcc/i386-redhat-linux/3.4.6/../../../../include/c++/3.4.6/bits/stl_algo.h:2203
#13 0x028cc019 in std::sort<__gnu_cxx::__normal_iterator<PndRiemannHit*,
  std::vector<PndRiemannHit, std::allocator<PndRiemannHit> > > > (&__first=
  {__M_current = 0x12102c30}, __last={__M_current = 0x121030a4})
  at /usr/lib/gcc/i386-redhat-linux/3.4.6/../../../../include/c++/3.4.6/bits/stl_algo.h:2554
#14 0x028cb6b8 in PndRiemannTrack::sortHits (this=0xbfeeaa80)
  at /data0/panda/pandaroot_jan11/trunk/PndTools/riemannfit/PndRiemannTrack.h :85
#15 0x028c36fe in PndRiemannTrack::refit (this=0xbfeeaa80, withErrorCalc=false)
  at /data0/panda/pandaroot_jan11/trunk/PndTools/riemannfit/PndRiemannTrack.cxx:291
#16 0x03fba49d in PndMvdRiemannTrackFinder::GetStartTracks (this=0xbfeeaba0)
  at /data0/panda/pandaroot_jan11/trunk/mvd/MvdTracking/PndMvdRiemannTrackFin
  der.cxx:291
#17 0x03fb85c6 in PndMvdRiemannTrackFinder::FindTracks (this=0xbfeeaba0)
  at /data0/panda/pandaroot_jan11/trunk/mvd/MvdTracking/PndMvdRiemannTrackFin
```

```
der.cxx:95
#18 0x03fb4f0f in PndMvdRiemannTrackFinderTask::Exec (this=0x976b368,
    opt=0x169e358 "")
    at /data0/panda/pandaroot_jan11/trunk/mvd/MvdTracking/PndMvdRiemannTrackFin
derTask.cxx:120
#19 0x006c8c72 in TTask::ExecuteTasks (this=0x908f018, option=0x169e358 "")
    at core/base/src/TTask.cxx:312
#20 0x006c8a6d in TTask::ExecuteTask (this=0x908f018, option=0x169e358 "")
    at core/base/src/TTask.cxx:275
#21 0x01625ec0 in FairRunAna::Run (this=0x908ef70, Ev_start=0, Ev_end=10000)
    at /data0/panda/pandaroot_jan11/trunk/base/FairRunAna.cxx:281
```

Do you have any suggestion?

Thank you,
Susanna
