
Subject: [FIXED] Problems in PndTrkTracking2
Posted by [Shyam Kumar](#) on Mon, 30 Sep 2013 14:47:14 GMT
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Hi Stefano,

There is a problem in the reconstruction of events it is showing segmentation violation.

Error in <TDecompSVD::Diagonalize>: no convergence after 21 steps
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from PndTrkTracking2 : N. di Stt MC points = 942 and it is > MAXSTTHITS (900), therefore consider only the first 900 hits

from PndTrkTracking2 : N. di Stt Hits = 942 and it is > MAXSTTHITS (=900), therefore consider only the first 900 hits

-I- PndRecoKalmanTask::Exec: ntracks=60 Evil Event! skipping
Error in <TDecompSVD::Diagonalize>: no convergence after 21 steps
-I- PndRecoKalmanTask::Exec: ntracks=61 Evil Event! skipping
Error in <TDecompSVD::Diagonalize>: no convergence after 21 steps

*** Break *** segmentation violation

=====
There was a crash.

This is the entire stack trace of all threads:

=====
#0 0x00007fcbf1baa8ba in waitpid () from /lib64/libc.so.6
#1 0x00007fcbf1b345d0 in do_system () from /lib64/libc.so.6
#2 0x00007fcbf2a95dd6 in TUnixSystem::StackTrace() () from /private/fairsoft/build-apr13/lib/root/libCore.so.5.34
#3 0x00007fcbf2a985f3 in TUnixSystem::DispatchSignals(ESignals) () from /private/fairsoft/build-apr13/lib/root/libCore.so.5.34
#4 <signal handler called>
#5 0x00007fcbf7eb76a2 in FairMCPPoint::GetTrackID (this=0x0) at /private/kumar/pandaroot/base/event/FairMCPPoint.h:43
#6 0x00007fcbf270f013 in PndTrkTracking2::Exec (this=0x7fcbf2541010, opt=0x7fcbf7ec8120 "") at /private/kumar/pandaroot/tracking/PndTrkTracking2.cxx:1180
#7 0x00007fcbf2a277dd in TTask::ExecuteTasks(char const*) () from /private/fairsoft/build-apr13/lib/root/libCore.so.5.34
#8 0x00007fcbf2a27b11 in TTask::ExecuteTask(char const*) () from /private/fairsoft/build-apr13/lib/root/libCore.so.5.34
#9 0x00007fcbf7dc012a in FairRunAna::Run (this=0x1488300, Ev_start=0, Ev_end=100000) at /private/kumar/pandaroot/base/steer/FairRunAna.cxx:461
#10 0x00007fcbf7e1d841 in G__G__BaseDict_618_0_6 (result7=0x7fffaa8296d0, funcname=0x1483c10 "", libp=0x7fffaa829710, hash=0) at /private/kumar/pandaroot/buildPanda/base/G__BaseDict.cxx:8419
#11 0x00007fcbf0c1275c in Cint::G__ExceptionWrapper(int (*)(G__value*, char const*, G__param*, int), G__value*, char*, G__param*, int) () from

```
/private/fairsoft/build-apr13/lib/root/libCint.so.5.34
#12 0x00007fcbf0b6f7a1 in G__execute_call () from
/private/fairsoft/build-apr13/lib/root/libCint.so.5.34
#13 0x00007fcbf0b6fb9e in G__call_cppfunc () from
/private/fairsoft/build-apr13/lib/root/libCint.so.5.34
#14 0x00007fcbf0bf9779 in G__interpret_func () from
/private/fairsoft/build-apr13/lib/root/libCint.so.5.34
#15 0x00007fcbf0c73fbc in G__getfunction () from
/private/fairsoft/build-apr13/lib/root/libCint.so.5.34
#16 0x00007fcbf0bd77ca in G__getstructmem(int, G__FastAllocString&, char*, int, char*, int*,
G__var_array*, int) () from /private/fairsoft/build-apr13/lib/root/libCint.so.5.34
#17 0x00007fcbf0bcf04b in G__getvariable () from
/private/fairsoft/build-apr13/lib/root/libCint.so.5.34
#18 0x00007fcbf0b48d3d in G__getitem () from
/private/fairsoft/build-apr13/lib/root/libCint.so.5.34
#19 0x00007fcbf0b4f478 in G__getexpr () from
/private/fairsoft/build-apr13/lib/root/libCint.so.5.34
#20 0x00007fcbf0c52df1 in G__exec_statement () from
/private/fairsoft/build-apr13/lib/root/libCint.so.5.34
#21 0x00007fcbf0bf78b9 in G__interpret_func () from
/private/fairsoft/build-apr13/lib/root/libCint.so.5.34
#22 0x00007fcbf0c74021 in G__getfunction () from
/private/fairsoft/build-apr13/lib/root/libCint.so.5.34
#23 0x00007fcbf0b494a2 in G__getitem () from
/private/fairsoft/build-apr13/lib/root/libCint.so.5.34
#24 0x00007fcbf0b4f478 in G__getexpr () from
/private/fairsoft/build-apr13/lib/root/libCint.so.5.34
#25 0x00007fcbf0b5aecd in G__calc_internal () from
/private/fairsoft/build-apr13/lib/root/libCint.so.5.34
#26 0x00007fcbf0b43428 in G__process_cmd () from
/private/fairsoft/build-apr13/lib/root/libCint.so.5.34
#27 0x00007fcbf2a68ca1 in TCint::ProcessLine(char const*, TInterpreter::EErrorCode*) () from
/private/fairsoft/build-apr13/lib/root/libCore.so.5.34
#28 0x00007fcbf2a5f7a3 in TCint::ProcessLineSynch(char const*, TInterpreter::EErrorCode*)
() from /private/fairsoft/build-apr13/lib/root/libCore.so.5.34
#29 0x00007fcbf2a39aad in TApplication::ExecuteFile(char const*, int*, bool) () from
/private/fairsoft/build-apr13/lib/root/libCore.so.5.34
#30 0x00007fcbf2a3886a in TApplication::ProcessLine(char const*, bool, int*) () from
/private/fairsoft/build-apr13/lib/root/libCore.so.5.34
#31 0x00007fcbf2619359 in TRint::Run(bool) () from
/private/fairsoft/build-apr13/lib/root/libRint.so.5.34
#32 0x000000000040112c 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.

```
=====
#5 0x00007fcbe7eb76a2 in FairMCPPoint::GetTrackID (this=0x0) at
```

```
/private/kumar/pandaroot/base/event/FairMCPoint.h:43
#6 0x00007fcbe270f013 in PndTrkTracking2::Exec (this=0x7fcbe2541010,
opt=0x7fcbe7ec8120 "") at /private/kumar/pandaroot/tracking/PndTrkTracking2.cxx:1180
#7 0x00007fcbf2a277dd in TTask::ExecuteTasks(char const*) () from
/private/fairsoft/build-apr13/lib/root/libCore.so.5.34
#8 0x00007fcbf2a27b11 in TTask::ExecuteTask(char const*) () from
/private/fairsoft/build-apr13/lib/root/libCore.so.5.34
#9 0x00007fcbe7dc012a in FairRunAna::Run (this=0x1488300, Ev_start=0, Ev_end=100000)
at /private/kumar/pandaroot/base/steer/FairRunAna.cxx:461
=====
```

Root > Function reco_complete() busy flag cleared

Subject: Re: Problem in simulating 100000 particles
Posted by [Stefano Spataro](#) on Mon, 30 Sep 2013 15:25:26 GMT
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Which code are you using? If I check tracking/PndTrkTracking2.cxx line 1180 I can see:

```
1180          WDY[i] = -wiredirection.Y();
```

and not a call of FairMCPoint::GetTrackID. Is this the last trunk?

Subject: Re: Problem in simulating 100000 particles
Posted by [Shyam Kumar](#) on Mon, 30 Sep 2013 16:34:08 GMT
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Thank you for reply
I am using macro in run folder reco_complete.C. I will check the version of trunk tomorrow in my desktop at IKP. My events is 1 -lakh.

Subject: Re: Problem in simulating 100000 particles
Posted by [Shyam Kumar](#) on Tue, 01 Oct 2013 08:00:03 GMT
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Hi,
This is the version I am using here.

```
kumar@ikp565:/private/kumar/pandaroot> svn info
Path: .
Working Copy Root Path: /private/kumar/pandaroot
URL: https://subversion.gsi.de/fairroot/pandaroot/trunk
Repository Root: https://subversion.gsi.de/fairroot
Repository UUID: 0381ead4-6506-0410-b988-94b70fbc4730
```

Revision: 21714
Node Kind: directory
Schedule: normal
Last Changed Author: lia
Last Changed Rev: 21714
Last Changed Date: 2013-09-16 14:02:56 +0200 (Mon, 16 Sep 2013)

Subject: Re: Problem in simulating 100000 particles
Posted by [Stefano Spataro](#) on Tue, 01 Oct 2013 08:10:23 GMT
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Please try with the latest tracking package, since the class PndTrkTracking2 had 2 changes in the meantime. I believe you need to update only the tracking folder.
After updating ONLY the tracking folder and compiling, you can launch only the reco_complete and see if the error still appears.
