
Subject: bug in PidCorrelator

Posted by [Johannes Rauch](#) on Thu, 28 Jul 2011 15:52:05 GMT

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Hi,

running the eta_c macros i came across a floating point exception after ~100 events.

I think it just happens that there is a division by 0 or some values exceed the numerical boundaries.

These cases should be prevented.

Thanks

*** Break *** floating point exception

=====

There was a crash (#6 0xb7201e3d in SigHandler(ESignals) ()).

This is the entire stack trace of all threads:

=====

```
#0 0xb65c495e in __waitpid_nocancel ()
   at ../sysdeps/unix/syscall-template.S:82
#1 0xb6566c93 in do_system (line=<value optimized out>)
   at ../sysdeps/posix/system.c:149
#2 0xb6680d6d in system (
   line=0x1695fa68
   "/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
   TH2Poly/etc/gdb-backtrace.sh 18787 1>&2")
   at pt-system.c:29
#3 0xb71fc33d in TUnixSystem::Exec(char const*) ()
   from
   /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
   TH2Poly/lib/libCore.so
#4 0xb720291a in TUnixSystem::StackTrace() ()
   from
   /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
   TH2Poly/lib/libCore.so
#5 0xb7201d2f in TUnixSystem::DispatchSignals(ESignals) ()
   from
   /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
   TH2Poly/lib/libCore.so
#6 0xb7201e3d in SigHandler(ESignals) ()
   from
   /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
   TH2Poly/lib/libCore.so
#7 0xb71f8ee2 in sighandler(int) ()
```

```

from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#8 <signal handler called>
#9 0xb0294edd in FairGeanePro::Propagate (this=0x1a414bf0, TParam=0x1a414960,
    TEnd=0x1a414e98, PDG=-211)
    at /nfs/hicran/project/panda/SIM/jrauch/clean/geane/FairGeanePro.cxx:144
#10 0xaf6e8b87 in PndPidCorrelator::GetTrackInfo (this=0xa018460,
    track=0x12b00e10, pidCand=0x1dac6c20)
    at /nfs/hicran/project/panda/SIM/jrauch/clean/pid/PidCorr/PndPidTrackInfo.cxx:47
#11 0xaf6de711 in PndPidCorrelator::ConstructChargedCandidate (this=0xa018460)
    at /nfs/hicran/project/panda/SIM/jrauch/clean/pid/PidCorr/PndPidCorrelator.cxx:594
#12 0xaf6de16f in PndPidCorrelator::Exec (this=0xa018460, option=0xb36e52d8 "")
    at /nfs/hicran/project/panda/SIM/jrauch/clean/pid/PidCorr/PndPidCorrelator.cxx:538
#13 0xb7182e78 in TTask::ExecuteTasks(char const*) ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#14 0xb718215e in TTask::ExecuteTask(char const*) ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#15 0xb362e9d4 in FairRunAna::Run (this=0x98671d8, Ev_start=0, Ev_end=200)
    at /nfs/hicran/project/panda/SIM/jrauch/clean/base/FairRunAna.cxx:353
#16 0xb368a02d in G__FairDict_894_0_5 (result7=0xbfe11268,
    funcname=0x9864e70 "", libp=0xbfe06c24, hash=0)
    at /nfs/hicran/project/panda/SIM/jrauch/clean/build/base/FairDict.cxx:13775
#17 0xb6a6de97 in Cint::G__ExceptionWrapper(int (*)(G__value*, char const*, G__param*,
int), G__value*, char*, G__param*, int) ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCint.so
#18 0xb6b1cc8f in G__execute_call ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCint.so
#19 0xb6b1db2a in G__call_cppfunc ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCint.so
#20 0xb6af81a5 in G__interpret_func ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCint.so
#21 0xb6ae567d in G__getfunction ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCint.so
#22 0xb6be1004 in G__getstructmem(int, G__FastAllocString&, char*, int, char*, int*,
G__var_array*, int) ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_

```

TH2Poly/lib/libCint.so
 #23 0xb6bd6d09 in G__getvariable ()
 from
 /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
 TH2Poly/lib/libCint.so
 #24 0xb6abe618 in G__getitem ()
 from
 /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
 TH2Poly/lib/libCint.so
 #25 0xb6ac4c17 in G__getexpr ()
 from
 /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
 TH2Poly/lib/libCint.so
 #26 0xb6b4cd74 in G__exec_statement ()
 from
 /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
 TH2Poly/lib/libCint.so
 #27 0xb6aaa0cd in G__exec_tempfile_core ()
 from
 /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
 TH2Poly/lib/libCint.so
 #28 0xb6aaa3bb in G__exec_tempfile ()
 from
 /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
 TH2Poly/lib/libCint.so
 #29 0xb6b61124 in G__process_cmd ()
 from
 /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
 TH2Poly/lib/libCint.so
 #30 0xb71bddcb in TCint::ProcessLine(char const*, TInterpreter::EErrorCode*) ()
 from
 /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
 TH2Poly/lib/libCore.so
 #31 0xb71bd911 in TCint::ProcessLineSynch(char const*, TInterpreter::EErrorCode*) ()
 from
 /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
 TH2Poly/lib/libCore.so
 #32 0xb710ce8a in TApplication::ExecuteFile(char const*, int*, bool) ()
 from
 /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
 TH2Poly/lib/libCore.so
 #33 0xb710d2dc in TApplication::ProcessFile(char const*, int*, bool) ()
 from
 /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
 TH2Poly/lib/libCore.so
 #34 0xb710a77f in TApplication::ProcessLine(char const*, bool, int*) ()
 from
 /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
 TH2Poly/lib/libCore.so
 #35 0xb67ff818 in TRint::HandleTermInput() ()
 from
 /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_

```

TH2Poly/lib/libRint.so
#36 0xb67fdee5 in TTermInputHandler::Notify() ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libRint.so
#37 0xb6800c04 in TTermInputHandler::ReadNotify() ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libRint.so
#38 0xb7200067 in TUnixSystem::CheckDescriptors() ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#39 0xb7200235 in TUnixSystem::DispatchOneEvent(bool) ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#40 0xb71703a1 in TSystem::InnerLoop() ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#41 0xb7173049 in TSystem::Run() ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#42 0xb7108537 in TApplication::Run(bool) ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#43 0xb6800519 in TRint::Run(bool) ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libRint.so
#44 0x08048eaf in main ()
#45 0xb6544c76 in __libc_start_main (main=0x8048e40 <main>, argc=2,
    ubp_av=0xbfe1a8c4, init=0x8049040 <__libc_csu_init>,
    fini=0x8049030 <__libc_csu_fini>, rtld_fini=0xb773f040 <_dl_fini>,
    stack_end=0xbfe1a8bc) at libc-start.c:228
#46 0x08048d71 in _start ()
=====

```

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.

```

=====
#9 0xb0294edd in FairGeanePro::Propagate (this=0x1a414bf0, TParam=0x1a414960,
    TEnd=0x1a414e98, PDG=-211)
    at /nfs/hicran/project/panda/SIM/jrauch/clean/geane/FairGeanePro.cxx:144
#10 0xaf6e8b87 in PndPidCorrelator::GetTrackInfo (this=0xa018460,

```

```
track=0x12b00e10, pidCand=0x1dac6c20)
at /nfs/hicran/project/panda/SIM/jrauch/clean/pid/PidCorr/PndPidTrackInfo.cxx:47
#11 0xaf6de711 in PndPidCorrelator::ConstructChargedCandidate (this=0xa018460)
at /nfs/hicran/project/panda/SIM/jrauch/clean/pid/PidCorr/PndPidCorrelator.cxx:594
#12 0xaf6de16f in PndPidCorrelator::Exec (this=0xa018460, option=0xb36e52d8 "")
at /nfs/hicran/project/panda/SIM/jrauch/clean/pid/PidCorr/PndPidCorrelator.cxx:538
#13 0xb7182e78 in TTask::ExecuteTasks(char const*) ()
from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#14 0xb718215e in TTask::ExecuteTask(char const*) ()
from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#15 0xb362e9d4 in FairRunAna::Run (this=0x98671d8, Ev_start=0, Ev_end=200)
at /nfs/hicran/project/panda/SIM/jrauch/clean/base/FairRunAna.cxx:353
=====
```

Subject: Re: bug in PidCorrelator
Posted by [Lia Lavezzi](#) on Thu, 28 Jul 2011 16:18:07 GMT
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Hi Johannes,
Quote:0xb0294edd in FairGeanePro::Propagate (this=0x1a414bf0, TParam=0x1a414960,
TEnd=0x1a414e98, PDG=-211)
at /nfs/hicran/project/panda/SIM/jrauch/clean/geane/FairGeanePro.cxx:144
I looked in the line 144 in FairGeanePro.cxx but it is a white line for me, are you using an
up-to-date geane? Did you modified it... or maybe the source of the crash is elsewhere and
crashes here by chance.
Could you please check whether your geane and trackbase are updated and not modified
locally?

Cheers,
Lia.

Subject: Re: bug in PidCorrelator
Posted by [Stefano Spataro](#) on Thu, 28 Jul 2011 16:46:38 GMT
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You can try to add a FairTrackParam Print statement just before the propagate function, in
order to understand what is wrong in the initial parameters for propagation.

Subject: Re: bug in PidCorrelator
Posted by [Dima Melnychuk](#) on Thu, 28 Jul 2011 21:11:15 GMT
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Hi,

First I want to mention that I didn't see such an error with eta_c macros running 2000 events.

And I can here only speculate where it comes from.

So I guess that it could come not from the line 144 but from 143, where array of doubles is copied by element to array of float.

```
ein[i]=fCov[i];
```

And array of double is declared on line 134

```
Double_t fCov[15], fCovOut[15];
```

And I can guess that on some platforms it's initialised not with zeros but with random double numbers which exceed sometimes limits of float.

But it's only a speculation.

Dima

Subject: Re: bug in PidCorrelator

Posted by [Lia Lavezzi](#) on Fri, 29 Jul 2011 08:51:27 GMT

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Hi Dima,

Quote:Double_t fCov[15], fCovOut[15];

And I can guess that on some platforms it's initialised not with zeros but with random double numbers which exceed sometimes limits of float.

fCov is filled just after the declaration with TParam->GetCovQ(fCov) so it should not depend on the local initialization of fCov here, but rather on the covariance matrix elements which are inside the FairTrackParH.

I agree with Stefano to try the FairTrackParH::Print() function to see whether we have these strange numbers or not, then we can investigate where they come from. Maybe they are wrongly defined somewhere and then passed to the FairTrackParH when it is created...

Cheers,

Lia.

Subject: Re: bug in PidCorrelator

Posted by [Johannes Rauch](#) on Fri, 29 Jul 2011 13:33:16 GMT

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Hi,

sorry, I put some debug output in my code. Its the line Dima had under suspicion.
I will try the print function.

Johannes

Subject: Re: bug in PidCorrelator
Posted by [Johannes Rauch](#) on Fri, 29 Jul 2011 14:00:05 GMT
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Hi,

I reverted my FairGeanePro to make sure I didn't mess up something there. Then I added a
fRes->Print();

in line 48 (just before propagation) in PndPidTrackInfo.cxx

It crashes now somewhere else, but I also experienced this crash already yesterday.

So maybe there are even two bugs.

Any ideas?

regards,

Johannes

0x1d5322a0

Position : (0.0, 0.0, 0.0)

Angles : Lambda = 0.0, Phi = 0.0

q/p = 0.0

fCovMatrix[0] = 0x1d5322a0 0.0

fCovMatrix[1] = 0x1d5322a0 0.0

fCovMatrix[2] = 0x1d5322a0 0.0

fCovMatrix[3] = 0x1d5322a0 0.0

fCovMatrix[4] = 0x1d5322a0 0.0

fCovMatrix[5] = 0x1d5322a0 0.0

fCovMatrix[6] = 0x1d5322a0 0.0

fCovMatrix[7] = 0x1d5322a0 0.0

fCovMatrix[8] = 0x1d5322a0 0.0

fCovMatrix[9] = 0x1d5322a0 0.0

fCovMatrix[10] = 0x1d5322a0 0.0

fCovMatrix[11] = 0x1d5322a0 0.0

fCovMatrix[12] = 0x1d5322a0 0.0

fCovMatrix[13] = 0x1d5322a0 0.0

fCovMatrix[14] = 0x1d5322a0 0.0

-W- PndPidCorrelator::GetMvdInfo: Track perpendicular to MVD strip/pixel! Not added to MVD
eloss

-W- PndPidCorrelator::GetMvdInfo: Track perpendicular to MVD strip/pixel! Not added to MVD
eloss

-W- PndPidCorrelator::GetMvdInfo: Track perpendicular to MVD strip/pixel! Not added to MVD

eloss

-W- PndPidCorrelator::GetMvdInfo: Track perpendicular to MVD strip/pixel! Not added to MVD

eloss

ABORT

*** Break *** floating point exception

```
=====
There was a crash (#6 0xb71efe3d in SigHandler(ESignals) ()).
This is the entire stack trace of all threads:
=====
#0 0xb65b295e in __waitpid_nocancel ()
    at ../sysdeps/unix/syscall-template.S:82
#1 0xb6554c93 in do_system (line=<value optimized out>)
    at ../sysdeps/posix/system.c:149
#2 0xb666ed6d in system (
    line=0x1cf45750
"/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/etc/gdb-backtrace.sh 30118 1>&2")
    at pt-system.c:29
#3 0xb71ea33d in TUnixSystem::Exec(char const*) ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#4 0xb71f091a in TUnixSystem::StackTrace() ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#5 0xb71efd2f in TUnixSystem::DispatchSignals(ESignals) ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#6 0xb71efe3d in SigHandler(ESignals) ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#7 0xb71e6ee2 in sighandler(int) ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#8 <signal handler called>
#9 0xaf6d595e in PndPidCandidate (this=0x15824440)
    at /nfs/hicran/project/panda/SIM/jrauch/clean/pid/PidData/PndPidCandidate.h:31
#10 0xaf6d3e45 in PndPidCorrelator::AddNeutralCandidate (this=0x9e2afe0,
    cand=0x1d8eda68)
    at /nfs/hicran/project/panda/SIM/jrauch/clean/pid/PidCorr/PndPidCorrelator.cxx:1197
#11 0xaf6d045b in PndPidCorrelator::ConstructNeutralCandidate (this=0x9e2afe0)
    at /nfs/hicran/project/panda/SIM/jrauch/clean/pid/PidCorr/PndPidCorrelator.cxx:703
#12 0xaf6cf139 in PndPidCorrelator::Exec (this=0x9e2afe0, option=0xb36d32d8 "")
    at /nfs/hicran/project/panda/SIM/jrauch/clean/pid/PidCorr/PndPidCorrelator.cxx:539
```

```

#13 0xb7170e78 in TTask::ExecuteTasks(char const*) ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#14 0xb717015e in TTask::ExecuteTask(char const*) ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#15 0xb361c9d4 in FairRunAna::Run (this=0x967a1d8, Ev_start=0, Ev_end=200)
    at /nfs/hicran/project/panda/SIM/jrauch/clean/base/FairRunAna.cxx:353
#16 0xb367802d in G__FairDict_894_0_5 (result7=0xbfdbf5e8,
    funcname=0x9677e70 "", libp=0xbfdb4fa4, hash=0)
    at /nfs/hicran/project/panda/SIM/jrauch/clean/build/base/FairDict.cxx:13775
#17 0xb6a5be97 in Cint::G__ExceptionWrapper(int (*)(G__value*, char const*, G__param*,
int), G__value*, char*, G__param*, int) ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCint.so
#18 0xb6b0ac8f in G__execute_call ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCint.so
#19 0xb6b0bb2a in G__call_cppfunc ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCint.so
#20 0xb6ae61a5 in G__interpret_func ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCint.so
#21 0xb6ad367d in G__getfunction ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCint.so
#22 0xb6bcf004 in G__getstructmem(int, G__FastAllocString&, char*, int, char*, int*,
G__var_array*, int) ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCint.so
#23 0xb6bc4d09 in G__getvariable ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCint.so
#24 0xb6aac618 in G__getitem ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCint.so
#25 0xb6ab2c17 in G__getexpr ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCint.so
#26 0xb6b3ad74 in G__exec_statement ()

```

```

from
/Infs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCint.so
#27 0xb6a980cd in G__exec_tempfile_core ()
    from
/Infs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCint.so
#28 0xb6a983bb in G__exec_tempfile ()
    from
/Infs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCint.so
#29 0xb6b4f124 in G__process_cmd ()
    from
/Infs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCint.so
#30 0xb71abdcb in TCint::ProcessLine(char const*, TInterpreter::EErrorCode*) ()
    from
/Infs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#31 0xb71ab911 in TCint::ProcessLineSynch(char const*, TInterpreter::EErrorCode*) ()
    from
/Infs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#32 0xb70fae8a in TApplication::ExecuteFile(char const*, int*, bool) ()
    from
/Infs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#33 0xb70fb2dc in TApplication::ProcessFile(char const*, int*, bool) ()
    from
/Infs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#34 0xb70f877f in TApplication::ProcessLine(char const*, bool, int*) ()
    from
/Infs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#35 0xb67ed818 in TRint::HandleTermInput() ()
    from
/Infs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libRint.so
#36 0xb67ebee5 in TTermInputHandler::Notify() ()
    from
/Infs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libRint.so
#37 0xb67eec04 in TTermInputHandler::ReadNotify() ()
    from
/Infs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libRint.so
#38 0xb71ee067 in TUnixSystem::CheckDescriptors() ()
    from
/Infs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#39 0xb71ee235 in TUnixSystem::DispatchOneEvent(bool) ()

```

```

from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#40 0xb715e3a1 in TSystem::InnerLoop() ()
from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#41 0xb7161049 in TSystem::Run() ()
from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#42 0xb70f6537 in TApplication::Run(bool) ()
from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#43 0xb67ee519 in TRint::Run(bool) ()
from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libRint.so
#44 0x08048eaf in main ()
#45 0xb6532c76 in __libc_start_main (main=0x8048e40 <main>, argc=2,
    ubp_av=0xbfdc8c44, init=0x8049040 <__libc_csu_init>,
    fini=0x8049030 <__libc_csu_fini>, rtdl_fini=0xb772d040 <_dl_fini>,
    stack_end=0xbfdc8c3c) at libc-start.c:228
#46 0x08048d71 in _start ()
=====

```

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.

```

=====
#9 0xaf6d595e in PndPidCandidate (this=0x15824440)
    at /nfs/hicran/project/panda/SIM/jrauch/clean/pid/PidData/PndPidCandidate.h:31
#10 0xaf6d3e45 in PndPidCorrelator::AddNeutralCandidate (this=0x9e2afe0,
    cand=0x1d8eda68)
    at /nfs/hicran/project/panda/SIM/jrauch/clean/pid/PidCorr/PndPidCorrelator.cxx:1197
#11 0xaf6d045b in PndPidCorrelator::ConstructNeutralCandidate (this=0x9e2afe0)
    at /nfs/hicran/project/panda/SIM/jrauch/clean/pid/PidCorr/PndPidCorrelator.cxx:703
#12 0xaf6cf139 in PndPidCorrelator::Exec (this=0x9e2afe0, option=0xb36d32d8 "")
    at /nfs/hicran/project/panda/SIM/jrauch/clean/pid/PidCorr/PndPidCorrelator.cxx:539
#13 0xb7170e78 in TTask::ExecuteTasks(char const*) ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#14 0xb717015e in TTask::ExecuteTask(char const*) ()
    from
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root_5.28d_qt_custom_
TH2Poly/lib/libCore.so
#15 0xb361c9d4 in FairRunAna::Run (this=0x967a1d8, Ev_start=0, Ev_end=200)

```

at /nfs/hicran/project/panda/SIM/jrauch/clean/base/FairRunAna.cxx:353

=====

Subject: Re: bug in PidCorrelator

Posted by [Stefano Spataro](#) on Fri, 29 Jul 2011 14:13:19 GMT

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You should not print fRes, the "result" which is of course empty before the propagation, but "helix".
