Subject: problem running reco macro with the july12 release
Posted by Karin Schönning on Thu, 02 Aug 2012 14:49:00 GMT
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Hi,

I checked out and compiled the jul12 release of pandaroot (revision 16335) on my local machine (Ubuntu 12.04). This worked fine except that I had to check out the geant3 libraries separately (does that matter?).

I also managed to run the tasks in pandaroot/tutorials/feb12 (from generation/transport to analysis) for 100 events which worked fine. However, when trying 1000 events, the reco task crashed after 257 events. The log (with verbose mode 1) is in the attached file. My colleague does not reproduce this crash (the only difference, as far as I can see, is that her machine is Ubuntu 10.04). Does anybody have an idea about what the reason for the crash could be and what I could do about it?

Kindest regards,
/Karin

File Attachments
1) log1, downloaded 536 times

Subject: Re: problem running reco macro with the july12 release
Posted by StefanoSpataro on Thu, 02 Aug 2012 16:10:49 GMT
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Dear Karin,
about geant3 installation, I had the same problem with my Ubuntu 12.04, hopefully fairroot experts will solve such problem.

About your crash, your log does not help so much because all the backtrace is missing.

First of all, I would suggest to run the reco again to see if the error is appearing again at the same event number.
If you want to run less events, in the reco macro you could use:

```
fRun->Run(250, 260);
```

to run events from 250 to 260, in order to be faster.

If the error occurs again, I would suggest to run gdb and to post the backtrace.
This means, from your macro folder:

> gdb root.exe
...
> r (from the gdb shell)
...
> .x run_reco_sttcombi.C (from root)
...

after the crash, type
> bt

and copy what comes after.

Subject: Re: problem running reco macro with the july12 release
Posted by Karin Schönning on Fri, 10 Aug 2012 10:29:22 GMT
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Hi Stefano,

I have been away and could not perform the check until now, however, thanks for your response. When running from event 1 it always crashes at the same event, namely 257, but when starting at i.e. event 250 it does not crash at 257 but continues as long as I wish (as it seems). Running the debugger gives the following output:

******* event # 257*******
PROBLEM HAS NO FEASIBLE SOLUTION

Program received signal SIGBUS, Bus error.
0x00007fffe621fe2a in PndSttMvdTracking::Exec (this=0x7fffe1bf4010,
    opt=0x7fffeaed5a30 "")
    at /home/schonnin/panda/pandaroot/sttmvdtracking/PndSttMvdTracking.cxx:4093
4093   dis=sqrt(Oxx*Oxx+Oyy*Oyy);
(gdb) bt
#0 0x00007fffe621fe2a in PndSttMvdTracking::Exec (this=0x7fffe1bf4010,
    opt=0x7fffeaed5a30 "")
    at /home/schonnin/panda/pandaroot/sttmvdtracking/PndSttMvdTracking.cxx:4093
#1 0x00007ffff753139d in TTask::ExecuteTasks (this=0x649e40,
    option=0x7fffeaed5a30 "")
    at /home/schonnin/panda/jan12/tools/root/core/base/src/TTask.cxx:312
#2 0x00007ffff753117d in TTask::ExecuteTask (this=0x649e40,
    option=0x7fffeaed5a30 "")
    at /home/schonnin/panda/jan12/tools/root/core/base/src/TTask.cxx:275
#3 0x00007fffeadff42a in FairRunAna::Run (this=0x649be0, Ev_start=0,
    Ev_end=1000) at /home/schonnin/panda/pandaroot/base/FairRunAna.cxx:544
#4 0x00007fffeae712b3 in G__G__BaseDict_986_0_6 (result7=0x7fffffff2a80,
    funcname=0x644d40 "", libp=0x7fffffe8070, hash=0)
    at /home/schonnin/panda/pandaroot/buildPanda/base/G__BaseDict.cxx:14827
#5 0x00007ffff59a5e81 in Cint::G__ExceptionWrapper (
    funcp=0x7fffeae711ae <G__G__BaseDict_986_0_6(G__value*, char const*, G__param*,
int)>, result7=0x7fffffff2a80, funcname=0x644d40 "", libp=0x7fffffe8070,
    hash=0) at cint/cint/src/Api.cxx:393
#6 0x00007ffff5a7e3fb in G__execute_call (result7=0x7fffffff2a80,
    libp=0x7fffffe8070, ifunc=0x644d40, ifn=0)
    at cint/cint/src/newlink.cxx:2406

#7 0x00007ffff5a7ed9d in G__call_cppfunc (result7=0x7fffffff2a80,
    libp=0x7fffffffe8070, ifunc=0x644d40, ifn=0)
---Type <return> to continue, or q <return> to quit---

Subject: Re: problem running reco macro with the july12 release
Posted by Gianluigi Boca on Fri, 10 Aug 2012 16:54:06 GMT
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Hi Karin,
since I see the crash happens in PndSttMvdTracking.cxx,
can you please tell me exactly which Macro did you run in which directory?

Thanks
Gianluigi

Subject: Re: problem running reco macro with the july12 release
Posted by Karin Schönning on Mon, 13 Aug 2012 07:53:02 GMT
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Hej Gianluigi,

it is the run_reco_sttcombi.C macro in pandaroot/tutorials/feb12 .

Cheers,
/Karin
