Subject: Re: segmentation violation in reco macro -- GEANT related?
Posted by MartinJGaluska on Sun, 17 Jun 2012 13:09:17 GMT
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You are right, it works correctly when the second argument is not equal to 0. I was just wondering about the behavior in case it actually is 0, but now that I know the behavior, it is not a problem for me any more.

Coming back to the crash that I encountered, it seems that on Friday I was not patient enough for root to give me the full error message. I have just tried to run the events 750 to 760 again and I get:

Toggle Spoiler
Found Tracks: 2 in event no. 2

Track 0
EntryNr: 752
EntryNr: 752
EntryNr: 752
Track 1
EntryNr: 752
EntryNr: 752
EntryNr: 752
EntryNr: 752

*** Break *** segmentation violation

==========
There was a crash.
This is the entire stack trace of all threads:
==========
#0 0x000000300409a115 in waitpid () from /lib64/libc.so.6
#1 0x000000300403c481 in do_system () from /lib64/libc.so.6
#2 0x00002afc957d2902 in TUnixSystem::StackTrace() ()
from /home/panda/fairsoft/jan12/tools/root/lib/libCore.so.5.32
#3 0x00002afc957cf79a in TUnixSystem::DispatchSignals(ESignals) ()
from /home/panda/fairsoft/jan12/tools/root/lib/libCore.so.5.32
#4 <signal handler called>
#5 0x00002afca3973aaf in
PndSttMvdTracking::OrderingConformal_Loading_ListTrackCandHit (this=0x51,
keepit=0x7fff4741e880, ncand=32767, info=0x3004353a48,
Ox=0x2afc9edd2417, Oy=0x7fff4741e8a0, Rr=0x402e07d135d458f5,
Trajectory_Start=0x4048e6e70f1a5f72, CHARGE=0x4030ebe298250c02,
SchosenSkew=0x1e002600250029)
at /home/panda/pandaroot_sep12/trunk/sttmvdtracking/PndSttMvdTracking.cxx:1 2908
#6 0x404e45e780654442 in ?? ()
#7 0x402e07d135d458f5 in ?? ()
#8 0x4048e6e70f1a5f72 in ?? ()
#9 0x4030ebe298250c02 in ?? ()
#10 0x001e002600250029 in ?? ()

#11 0x00210020001c001f in ?? ()
#12 0x0009002300220027 in ?? ()
#13 0x0000000000000000 in ?? ()
==========

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 0x00002afca3973aaf in
PndSttMvdTracking::OrderingConformal_Loading_ListTrackCandHit (this=0x51,
keepit=0x7fff4741e880, ncand=32767, info=0x3004353a48,
    Ox=0x2afc9edd2417, Oy=0x7fff4741e8a0, Rr=0x402e07d135d458f5,
    Trajectory_Start=0x4048e6e70f1a5f72, CHARGE=0x4030ebe298250c02,
    SchosenSkew=0x1e002600250029)
    at /home/panda/pandaroot_sep12/trunk/sttmvdtracking/PndSttMvdTracking.cxx:1 2908
#6 0x404e45e780654442 in ?? ()
#7 0x402e07d135d458f5 in ?? ()
#8 0x4048e6e70f1a5f72 in ?? ()
#9 0x4030ebe298250c02 in ?? ()
#10 0x001e002600250029 in ?? ()
#11 0x00210020001c001f in ?? ()
#12 0x0009002300220027 in ?? ()
#13 0x0000000000000000 in ?? ()
==========

Maybe it would be interesting to investigate this crash, but it seems to be caused by me setting nmaxMvdPixelHitsInTrack from 30 to 60 in sttmvdtracking/PndSttMvdTracking.h. When I change this constant back to 30, there is no crash in event 752. (However, unfortunately I get a different crash in event 490.)
