
Subject: [FIXED] run_reco_sttcombi crash in feb.12 tutorial
Posted by [Tonya Evdokimova](#) on Thu, 07 Feb 2013 05:39:44 GMT
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I tried to run run_reco_sttcombi from feb. 2012 tutorial (the trunk 18125 is used). And I got a following crash caused by PndSttMvdTracking.cxx using

*** Break *** floating point exception

=====

There was a crash (kSigFloatingException).
This is the entire stack trace of all threads:

=====

```
#0 0x00138416 in __kernel_vsyscall ()
#1 0x00d027f3 in __waitpid_nocancel () at ../sysdeps/unix/syscall-template.S:82
.....
.....
#10 0x049ad7be in PndSttMvdTracking::OrderingUsingConformal (this=0xb6e1e008,
oX=7.9154185661560685, oY=-17.525279075476149, Traj_Sta=0xbfc97658, nHits=99,
XY=0xbf5acef0, Charge=1, ListHits=0xbf5ad3a4) at
/home/uzbton/fairroot/pandaroot/sttmvdtracking/PndSttMvdTracking.cxx:130 62
#11 0x049ad2fa in PndSttMvdTracking::OrderingConformal_Loading_ListTrackCandHit
(this=0xb6e1e008, keepit=0xbfca4ed0, ncand=4, info=0xbfc3d898, Ox=0xbfc9bc08,
Oy=0xbfc9c248, Rr=0xbfc9c888, Trajectory_Start=0xbfc97618, CHARGE=0xbfca3e40,
SchosenSkew=0xbf5add98) at
/home/uzbton/fairroot/pandaroot/sttmvdtracking/PndSttMvdTracking.cxx:129 55
#12 0x049abddf in PndSttMvdTracking::Ordering_Loading_ListTrackCandHit
(this=0xb6e1e008, keepit=0xbfca4ed0, FirstCandidate=0, LastCandidate=14,
info=0xbfc3d898, Ox=0xbfc9bc08, Oy=0xbfc9c248, Rr=0xbfc9c888,
Trajectory_Start=0xbfc97618, CHARGE=0xbfca3e40, SchosenSkew=0xbf5add98) at
/home/uzbton/fairroot/pandaroot/sttmvdtracking/PndSttMvdTracking.cxx:126 50
#13 0x0497ce6b in PndSttMvdTracking::Exec (this=0xb6e1e008, opt=0x316dd20 "") at
/home/uzbton/fairroot/pandaroot/sttmvdtracking/PndSttMvdTracking.cxx:264 2
.....
.....
*****
```

This crash happened for some events with big values of track stt hits (nSttParHitsInTrack was 56 and nSttSkewHitsInTrack was 43) in PndSttMvdTracking.cxx. Therefore in PndSttMvdTracking.h I increased nmaxSttHitsInTrack value from 60 to 150. It fixed the problem and this crash was disappeared.

Subject: Re: run_reco_sttcombi crash in feb.12 tutorial
Posted by [Stefano Spataro](#) on Thu, 07 Feb 2013 08:36:00 GMT
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In reality PndSttMvdTracking is not used anymore, now the current tracking code is PndTracking where hopefully this is fixed.
An example on how the new reco macro looks like can be found on

macro/run/reco_complete.C
