
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

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

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```
#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.