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Subject: Crash in reco-macro, PndSttMvdTracking.cxx produces segfault

Posted by [André Zambanini](#) on Tue, 24 Jul 2012 12:05:15 GMT

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During the computing week in Torino I encountered a problem with running macros. We should run the macros in 'macro/pid', but unfortunately I wasn't able to do so.

Running the macros 'run\_sim\_sttcombi\_pgun.C' and 'run\_digi\_sttcombi.C' went through just fine, but with 'run\_reco\_sttcombi.C' a segmentation violation crashed the program:

Quote:-|- PndMCTrackAssociator::Init

```
[INFO ] Branch: STTHitMix not found in Tree
[INFO ] Branch: STTHitMix not found in Tree
-W- PndMCTrackAssociator::Init: Using STTHit array
[INFO ] Branch: MVDHitsStripMix not found in Tree
[INFO ] Branch: MVDHitsStripMix not found in Tree
-W- PndMCTrackAssociator::Init: Using MVDHitsStrip array
[INFO ] Branch: MVDHitsPixelMix not found in Tree
[INFO ] Branch: MVDHitsPixelMix not found in Tree
-W- PndMCTrackAssociator::Init: Using MVDHitsPixel
[INFO ] The number of entries in chain is 10
Found Tracks: 21 in event no. 0
```

```
-----
Track 0
EntryNr: 0
EntryNr: 0
EntryNr: 0
EntryNr: 0
EntryNr: 0
Track 1
EntryNr: 0
EntryNr: 0
EntryNr: 0
```

[same for tracks 2-19]

```
Track 20
EntryNr: 0
EntryNr: 0
EntryNr: 0
EntryNr: 0
```

\*\*\* Break \*\*\* segmentation violation

```
=====
There was a crash.
This is the entire stack trace of all threads:
=====
```

```
Thread 1 (process 34695):
#0 0x00007fff82fc1168 in wait4 ()
```

```

#1 0x00007fff8c4255f5 in system ()
#2 0x00000001000d6ca8 in TUnixSystem::StackTrace ()
#3 0x00000001000d4ada in TUnixSystem::DispatchSignals ()
#4 <signal handler called>
#5 PndSttMvdTracking::EliminateSpuriousSZ (this=0x109e00000,
nPixelHitsinTrack=0x400735e5736ac382, ListPixelHitsinTrack=0x402211df773b3962,
nStripHitsinTrack=0x109e00d4a, ListStripHitsinTrack=0x109e06cd4,
nSkewHitsinTrack=0x109e00a2a, ListSkewHitsinTrack=0x4021880a31394ea5,
S=0x7fff5fba0308, ZED=0x7fff5fb9fc68, DriftRadius=0x7fff5fb9f5c8,
ErrorDriftRadius=0x7fff5fb9ef28, SchosenPixel=0x7fff5fadc9c8, SchosenStrip=0x7fff5fa194c8,
SchosenSkew=0x7fff5f880378, ZchosenPixel=0x7fff5f7bb7a8, ZchosenStrip=0x7fff5f6f82a8,
ZchosenSkew=0x7fff5f55f158, ErrorchosenPixel=0x7fff5f55c0e8,
ErrorchosenStrip=0x7fff5f55b148, ErrorchosenSkew=0x7fff5f559078,
KAPPA=3.2378592100206092e-319, F10=1.2598673968951787e-321, R=0,
MaxTurnofTracks=0) at PndSttMvdTracking.cxx:11845
#6 0x000000010822175d in PndSttMvdTracking::Exec (this=0x7fff5fbe1a50, opt=0x0) at
PndSttMvdTracking.cxx:2525
#7 0x000000010006d1b5 in TTask::ExecuteTasks ()
#8 0x000000010006cf04 in TTask::ExecuteTask ()
#9 0x00000001062fa45b in FairRunAna::Run (this=0x109e00000, Ev_start=0, Ev_end=0) at
FairRunAna.cxx:544
#10 0x000000010635ec65 in G__G__BaseDict_986_0_6 (result7=0x7fff5fbee150,
funcname=0x1063ac330 "", libp=0x400735e5736ac382, hash=2000370018) at
G__BaseDict.cxx:14831
#11 0x000000010083540f in Cint::G__ExceptionWrapper ()
#12 0x00000001008e7a8b in G__execute_call ()
#13 0x00000001008e8066 in G__call_cppfunc ()
#14 0x00000001008bb33f in G__interpret_func ()
#15 0x00000001008a469f in G__getfunction ()
#16 0x00000001009a9004 in G__getstructmem ()
#17 0x000000010099fd07 in G__getvariable ()
#18 0x00000001008996fe in G__getitem ()
#19 0x0000000100898753 in G__getexpr ()
#20 0x000000010091a0c6 in G__exec_statement ()
#21 0x00000001008797cd in G__exec_tempfile_core ()
#22 0x0000000100879a23 in G__exec_tempfile ()
#23 0x00000001009257e5 in G__process_cmd ()
#24 0x000000010009d882 in TCint::ProcessLine ()
#25 0x000000010009dd09 in TCint::ProcessLineSynch ()
#26 0x000000010000a70a in TApplication::ExecuteFile ()
#27 0x0000000100009dd1 in TApplication::ProcessLine ()
#28 0x0000000100f4a853 in TRint::Run ()
#29 0x0000000100000a3f in main ()
=====

```

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 PndSttMvdTracking::EliminateSpuriousSZ (this=0x109e00000,
nPixelHitsinTrack=0x400735e5736ac382, ListPixelHitsinTrack=0x402211df773b3962,
nStripHitsinTrack=0x109e00d4a, ListStripHitsinTrack=0x109e06cd4,
nSkewHitsinTrack=0x109e00a2a, ListSkewHitsinTrack=0x4021880a31394ea5,
S=0x7fff5fba0308, ZED=0x7fff5fb9fc68, DriftRadius=0x7fff5fb9f5c8,
ErrorDriftRadius=0x7fff5fb9ef28, SchosenPixel=0x7fff5fadc9c8, SchosenStrip=0x7fff5fa194c8,
SchosenSkew=0x7fff5f880378, ZchosenPixel=0x7fff5f7bb7a8, ZchosenStrip=0x7fff5f6f82a8,
ZchosenSkew=0x7fff5f55f158, ErrorchosenPixel=0x7fff5f55c0e8,
ErrorchosenStrip=0x7fff5f55b148, ErrorchosenSkew=0x7fff5f559078,
KAPPA=3.2378592100206092e-319, FI0=1.2598673968951787e-321, R=0,
MaxTurnofTracks=0) at PndSttMvdTracking.cxx:11845
#6 0x000000010822175d in PndSttMvdTracking::Exec (this=0x7fff5fbe1a50, opt=0x0) at
PndSttMvdTracking.cxx:2525
#7 0x000000010006d1b5 in TTask::ExecuteTasks ()
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#9 0x00000001062fa45b in FairRunAna::Run (this=0x109e00000, Ev_start=0, Ev_end=0) at
FairRunAna.cxx:544
=====
```

The full copy of my macro output can be found here: <http://pastebin.com/0Py919MH>  
At first I thought it is somehow related to this problem (Crash in reco macro:  
"PndSttMvdTracking, nMvdPixelHitsinTrack[4] is 58 and it is > nmaxMvdPix), but the error  
message is slightly different and applying the suggested change didn't change anything in the  
result.

I have a fresh installation of PandaRoot with the july12 release:  
andre@andre-macbook:~/Development/fairsoft/jan12/pandaroot\_july12\$ svn info  
Path: .  
Working Copy Root Path: /Users/andre/Development/fairsoft/jan12/pandaroot\_july12  
URL: https://agoerres@subversion.gsi.de/fairroot/pandaroot/release/july12  
Repository Root: https://agoerres@subversion.gsi.de/fairroot  
Repository UUID: 0381ead4-6506-0410-b988-94b70fbc4730  
Revision: 16248  
Node Kind: directory  
Schedule: normal  
Last Changed Author: johan  
Last Changed Rev: 16176  
Last Changed Date: 2012-07-23 17:43:25 +0200 (Mo, 23 Jul 2012)

My compiler versions are:  
andre@andre-macbook:~/Development/fairsoft/jan12/pandaroot\_july12\$ gcc --version  
i686-apple-darwin11-llvm-gcc-4.2 (GCC) 4.2.1 (Based on Apple Inc. build 5658) (LLVM build  
2336.1.00)  
Copyright (C) 2007 Free Software Foundation, Inc.

andre@andre-macbook:~/Development/fairsoft/jan12/pandaroot\_july12\$ gfortran --version  
GNU Fortran (GCC) 4.6.2 20111019 (prerelease)  
Copyright (C) 2011 Free Software Foundation, Inc.

Does anyone has a clue, why it is not working? I'm a bit lost (espacially since I'm quite fresh to  
the whole PandaRoot stuff).

Edit: Ah, sorry, I forgot. My OS is Mac OS X Lion, 10.7.4.

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Subject: Re: Crash in reco-macro, PndSttMvdTracking.cxx produces segfault  
Posted by [Gianluigi Boca](#) on Tue, 24 Jul 2012 13:16:09 GMT

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hello Andre', it looks like  
you are requesting a simulation with the pileup included [namely  
the addition of extra hits in the STT and Mvd system caused  
by previous/subsequent events] but I imagine that you did not  
set the filename in your macro where the previously generated  
pileup events should exist.

If my hypothesis is right then either you disable the pileup  
event machinery or you provide the files.

To be certain, first of all please show me the exact Macro you are using, thanks

Gianluigi

André Goerres wrote on Tue, 24 July 2012 14:05 During the computing week in Torino I  
encountered a problem with running macros. We should run the macros in 'macro/pid', but  
unfortunately I wasn't able to do so.

Running the macros 'run\_sim\_sttcombi\_pgun.C' and 'run\_digi\_sttcombi.C' went through just  
fine, but with 'run\_reco\_sttcombi.C' a segmentation violation crashed the program:

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-----
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EntryNr: 0
EntryNr: 0
EntryNr: 0
EntryNr: 0
EntryNr: 0
Track 1
EntryNr: 0
EntryNr: 0
EntryNr: 0
```

[same for tracks 2-19]

Track 20  
EntryNr: 0  
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Path: .  
Working Copy Root Path: /Users/andre/Development/fairsoft/jan12/pandaroot\_july12  
URL: <https://agoerres@subversion.gsi.de/fairroot/pandaroot/release/july12>  
Repository Root: <https://agoerres@subversion.gsi.de/fairroot>  
Repository UUID: 0381ead4-6506-0410-b988-94b70fbc4730

Revision: 16248  
Node Kind: directory  
Schedule: normal  
Last Changed Author: johan  
Last Changed Rev: 16176  
Last Changed Date: 2012-07-23 17:43:25 +0200 (Mo, 23 Jul 2012)

My compiler versions are:  
andre@andre-macbook:~/Development/fairsoft/jan12/pandaroot\_july12\$ gcc --version  
i686-apple-darwin11-llvm-gcc-4.2 (GCC) 4.2.1 (Based on Apple Inc. build 5658) (LLVM build 2336.1.00)  
Copyright (C) 2007 Free Software Foundation, Inc.

andre@andre-macbook:~/Development/fairsoft/jan12/pandaroot\_july12\$ gfortran --version  
GNU Fortran (GCC) 4.6.2 20111019 (prerelease)  
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Does anyone has a clue, why it is not working? I'm a bit lost (espacially since I'm quite fresh to the whole PandaRoot stuff).

Edit: Ah, sorry, I forgot. My OS is Mac OS X Lion, 10.7.4.

---

Subject: Re: Crash in reco-macro, PndSttMvdTracking.cxx produces segfault  
Posted by [Stefano Spataro](#) on Tue, 24 Jul 2012 13:22:44 GMT  
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The macro are the usual standard from macro/pid ,nothing new is added

---

Subject: Re: Crash in reco-macro, PndSttMvdTracking.cxx produces segfault  
Posted by [André Zambanini](#) on Tue, 24 Jul 2012 13:24:46 GMT  
[View Forum Message](#) <> [Reply to Message](#)

Hello Gianluigi,

Gianluigi Boca wrote on Tue, 24 July 2012 15:16 To be certain, first of all please show me the exact Macro you are using, thanks

I'm using the macro delivered with the current SVN revision of the july12 release (rev 16248).

But for the sake of completeness the contents of the run\_reco\_sttcombi.C:

```
Show file content{
```

```
//
```

```
=====
```

```
=
```

```
// Verbosity level (0=quiet, 1=event level, 2=track level, 3=debug)
```

```
Int_t iVerbose = 0;
```

```

// Input file
TString inDigiFile = "digi_sttcombi.root";
TString inSimFile = "points_sttcombi.root";

// Parameter file
TString parFile = "params_sttcombi.root";

// Output file
TString outFile = "reco_sttcombi.root";

// Number of events to process
Int_t nEvents = 0;

// ---- Load libraries -----
gROOT->LoadMacro("$VMCWORKDIR/gconfig/rootlogon.C");
rootlogon();
TString sysFile = gSystem->Getenv("VMCWORKDIR");
// -----
// In general, the following parts need not be touched
//
=====
=

// ---- Timer -----
TStopwatch timer;
timer.Start();
// -----

// ---- Digitization run -----
FairRunAna *fRun= new FairRunAna();
fRun->SetInputFile(inDigiFile);
fRun->AddFriend(inSimFile);
fRun->SetOutputFile(outFile);
FairGeane *Geane = new FairGeane();
fRun->AddTask(Geane);
// -----

// ---- Parameter database -----
TString allDigiFile = sysFile+"/macro/params/all.par";

FairRuntimeDb* rtdb = fRun->GetRuntimeDb();
FairParRootFileIo* parInput1 = new FairParRootFileIo();
parInput1->open(parFile.Data());

FairParAsciiFileIo* parIo1 = new FairParAsciiFileIo();
parIo1->open(allDigiFile.Data(),"in");

rtdb->setFirstInput(parInput1);
rtdb->setSecondInput(parIo1);
// -----

PndMvdRiemannTrackFinderTask* mvdTrackFinder = new

```



```

PndMvdRiemannTrackFinderTask();
mvdTrackFinder->SetVerbose(iVerbose);
mvdTrackFinder->SetMaxDist(0.05);
mvdTrackFinder->SetPersistence(kFALSE);
fRun->AddTask(mvdTrackFinder);

// PndSttTrackFinderIdeal* sttTrackFinder = new PndSttTrackFinderIdeal(iVerbose);
PndSttTrackFinderReal* sttTrackFinder = new PndSttTrackFinderReal(0);
PndSttFindTracks* sttFindTracks = new PndSttFindTracks("Track Finder", "FairTask",
sttTrackFinder, iVerbose);
sttFindTracks->AddHitCollectionName("STTHit", "STTPoint");
//sttFindTracks->SetPersistence(kFALSE);
fRun->AddTask(sttFindTracks);

PndSttMvdTracking * SttMvdTracking = new PndSttMvdTracking(0, false, false);
//SttMvdTracking->Cleanup();
SttMvdTracking->SetPersistence(kFALSE);
fRun->AddTask(SttMvdTracking);

//PndMCTrackAssociator* trackMC0 = new PndMCTrackAssociator();
//trackMC0->SetTrackInBranchName("SttMvdTrack");
//trackMC0->SetTrackOutBranchName("SttMvdTrackID");
//trackMC0->SetPersistence(kFALSE);
//fRun->AddTask(trackMC0);

PndSttMvdGemTracking * SttMvdGemTracking = new PndSttMvdGemTracking(0);
//SttMvdGemTracking->SetPdgFromMC();
fRun->AddTask(SttMvdGemTracking);

PndMCTrackAssociator* trackMC = new PndMCTrackAssociator();
trackMC->SetTrackInBranchName("SttMvdGemTrack");
trackMC->SetTrackOutBranchName("SttMvdGemTrackID");
fRun->AddTask(trackMC);

PndRecoKalmanTask* recoKalman = new PndRecoKalmanTask();
recoKalman->SetTrackInBranchName("SttMvdGemTrack");
recoKalman->SetTrackInIDBranchName("SttMvdGemTrackID");
recoKalman->SetTrackOutBranchName("SttMvdGemGenTrack");
recoKalman->SetBusyCut(50); // CHECK to be tuned
//recoKalman->SetIdealHyp(kTRUE);
//recoKalman->SetNumIterations(3);
fRun->AddTask(recoKalman);

PndMCTrackAssociator* trackMC2 = new PndMCTrackAssociator();
trackMC2->SetTrackInBranchName("SttMvdGemGenTrack");
trackMC2->SetTrackOutBranchName("SttMvdGemGenTrackID");
fRun->AddTask(trackMC2);

PndFtsTrackerIdeal* trackFts = new PndFtsTrackerIdeal();
trackFts->SetRelativeMomentumSmearing(0.02);
trackFts->SetVertexSmearing(0.02, 0.02, 0.02);
trackFts->SetTrackingEfficiency(1.);

```

```

trackFts->SetTrackOutput("FtsIdealTrack");
fRun->AddTask(trackFts);

PndRecoKalmanTask* recoKalmanFwd = new PndRecoKalmanTask();
recoKalmanFwd->SetTrackInBranchName("FtsIdealTrack");
//recoKalmanFwd->SetTrackInIDBranchName("FtsIdealTrackID");
recoKalmanFwd->SetTrackOutBranchName("FtsIdealGenTrack");
recoKalmanFwd->SetBusyCut(50); // CHECK to be tuned
//recoKalmanFwd->SetIdealHyp(kTRUE);
//recoKalmanFwd->SetNumIterations(3);
fRun->AddTask(recoKalmanFwd);

PndMCTrackAssociator* trackMC3 = new PndMCTrackAssociator();
trackMC3->SetTrackInBranchName("FtsIdealGenTrack");
trackMC3->SetTrackOutBranchName("FtsIdealGenTrackID");
fRun->AddTask(trackMC3);

// ----- Intialise and run -----
PndEmcMapper::Init(1);
fRun->Init();
fRun->Run(0, nEvents);

rtdb->saveOutput();
rtdb->print();

// -----
// ----- Finish -----

timer.Stop();
Double_t rtime = timer.RealTime();
Double_t ctime = timer.CpuTime();
cout << endl << endl;
cout << "Macro finished succesfully." << endl;
cout << "Output file is " << outFile << endl;
cout << "Parameter file is " << parFile << endl;
cout << "Real time " << rtime << " s, CPU time " << ctime << " s" << endl;
cout << endl;
// -----
}

```

---

Subject: Re: Crash in reco-macro, PndSttMvdTracking.cxx produces segfault  
 Posted by [Gianluigi Boca](#) on Tue, 24 Jul 2012 14:24:00 GMT  
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Andre',  
 could you please go in your directory

\$VMCWORKDIR/sttmvdtracking

and do :

```
svn list -v PndSttMvdTracking.cxx
```

and tell me please what is the version of the class corresponding to your release ?

Thanks

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Subject: Re: Crash in reco-macro, PndSttMvdTracking.cxx produces segfault  
Posted by [André Zambanini](#) on Tue, 24 Jul 2012 15:42:06 GMT

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The output:

```
andre@andre-macbook:~/Development/fairsoft/jan12/pandaroot_july12/sttmvdtracking$ svn  
list -v PndSttMvdTracking.cxx  
15639 gboca      482898 Mai 29 00:23 PndSttMvdTracking.cxx
```

Thanks so far!

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Subject: Re: Crash in reco-macro, PndSttMvdTracking.cxx produces segfault  
Posted by [Gianluigi Boca](#) on Tue, 24 Jul 2012 16:42:00 GMT

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hello Andre',  
then yes, you are using the most updated version.

From the printout of your crash is difficult to guess what's wrong;  
the most efficient way to cure the problem would be for me  
to use your directory and do some printouts for debugging.  
Please let me know if that's possible

Gianluigi

André Goerres wrote on Tue, 24 July 2012 17:42The output:

```
andre@andre-macbook:~/Development/fairsoft/jan12/pandaroot_july12/sttmvdtracking$ svn  
list -v PndSttMvdTracking.cxx  
15639 gboca      482898 Mai 29 00:23 PndSttMvdTracking.cxx
```

Thanks so far!

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Subject: Re: Crash in reco-macro, PndSttMvdTracking.cxx produces segfault  
Posted by [André Zambanini](#) on Wed, 25 Jul 2012 07:26:49 GMT

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Hello Gianluigi,

sorry, but since this is my private notebook, I'm not feeling comfortable with giving other persons access to it.

I will have a look if I can find more information for the reason of the crash. If I find something, I will post it here.

Thanks anyways.

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**Subject: Re: Crash in reco-macro, PndSttMvdTracking.cxx produces segfault**  
Posted by [Gianluigi Boca](#) on Wed, 25 Jul 2012 11:03:51 GMT

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ok Andre', I understand.

We can try then the following alternative way (that almost never works in actuality).

When you have time and possibility you please send me the root

files you produced in generation and digitization and I try and see if I can reproduce your crash thanks in advance

Gianluigi

André Goerres wrote on Wed, 25 July 2012 09:26Hello Gianluigi,

sorry, but since this is my private notebook, I'm not feeling comfortable with giving other persons access to it.

I will have a look if I can find more information for the reason of the crash. If I find something, I will post it here.

Thanks anyways.

---

**Subject: Re: Crash in reco-macro, PndSttMvdTracking.cxx produces segfault**  
Posted by [André Zambanini](#) on Wed, 25 Jul 2012 11:51:02 GMT

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The compressed files are attached.

-André

#### File Attachments

1) [pid-macro\\_generated\\_root-files.zip](#), downloaded 217 times

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**Subject: Re: Crash in reco-macro, PndSttMvdTracking.cxx produces segfault**  
Posted by [André Zambanini](#) on Wed, 25 Jul 2012 13:50:28 GMT

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I just tested two other macro chains from the untouched SVN release. The one in the macro/sttmvdtracking/ folder is also breaking after the first event, the one in macro/emc/ is running through. This seems reasonable, since the segmentation violation output claims an error in the PndSttMvdTracking.cxx and the EMC probably doesn't use this.

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