Subject: Crash in reco-macro, PndSttMvdTracking.cxx produces segfault
Posted by André Zambanini on Tue, 24 Jul 2012 12:05:15 GMT
View Forum Message <> Reply to Message

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:-I- 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, 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 ()
#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 ()
#8 0x000000010006cf04 in TTask::ExecuteTask ()
#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 58and 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.

Subject: Re: Crash in reco-macro, PndSttMvdTracking.cxx produces segfault
Posted by Gianluigi Boca on Tue, 24 Jul 2012 13:16:09 GMT
View Forum Message <> Reply to Message

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 14:05During 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:-I- 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, 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 ()
#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 ()
#8 0x000000010006cf04 in TTask::ExecuteTask ()
#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 58and 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.

Subject: Re: Crash in reco-macro, PndSttMvdTracking.cxx produces segfault
Posted by StefanoSpataro on Tue, 24 Jul 2012 13:22:44 GMT
View Forum Message <> Reply to Message

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 15:16To 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
View Forum Message <> Reply to Message

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

Subject: Re: Crash in reco-macro, PndSttMvdTracking.cxx produces segfault
Posted by André Zambanini on Tue, 24 Jul 2012 15:42:06 GMT
View Forum Message <> Reply to Message

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!

Subject: Re: Crash in reco-macro, PndSttMvdTracking.cxx produces segfault
Posted by Gianluigi Boca on Tue, 24 Jul 2012 16:42:00 GMT
View Forum Message <> Reply to Message

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!

Subject: Re: Crash in reco-macro, PndSttMvdTracking.cxx produces segfault
Posted by André Zambanini on Wed, 25 Jul 2012 07:26:49 GMT
View Forum Message <> Reply to Message

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.

Subject: Re: Crash in reco-macro, PndSttMvdTracking.cxx produces segfault
Posted by Gianluigi Boca on Wed, 25 Jul 2012 11:03:51 GMT
View Forum Message <> Reply to Message

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
View Forum Message <> Reply to Message

The compressed files are attached.

-André

File Attachments
1) pid-macro_generated_root-files.zip, downloaded 460 times

Subject: Re: Crash in reco-macro, PndSttMvdTracking.cxx produces segfault
Posted by André Zambanini on Wed, 25 Jul 2012 13:50:28 GMT
View Forum Message <> Reply to Message

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.
