Subject: Digitization or Tracking in STT class. Posted by donghee on Tue, 14 Apr 2009 14:17:37 GMT View Forum Message <> Reply to Message

Dear all,

Does anybody knows the meaning of segmentation fault with human word?

*** Break *** segmentation violation

At a rough guess, DemoPattern and DemoKalmanTask couldn't find events, or digitization of emc, mvd, or stt have been wrong.

I'm following a simple example runReco.C in pandaroot/macro/fsim/

Simply, suggested sentences are introduced to perform the pattern recognition and kalman fit in my reconstruction script.

There are some EMC modules and few Tracking devices, which are delivered from other scripts for example in pandaroot/macro/run/reco_complete.C The full script for this reconstruction purpose is also attached

```
DemoPatternRecoTask* DemoPR = new DemoPatternRecoTask();
DemoPR->AddHitBranch(2,"PndTpcPoint");
// DemoPR->AddHitBranch(3,"MVDPoint");
DemoPR->SetPersistence();
// DemoPR->UseGeane();
fRun->AddTask(DemoPR);
```

```
DemoKalmanTask* DemoKalman = new DemoKalmanTask();
DemoKalman->AddHitBranch(2,"PndTpcPoint");
// DemoKalman->AddHitBranch(3,"MVDPoint");
DemoKalman->SetPersistence();
// DemoKalman->SetSmooth(true);
fRun->AddTask(DemoKalman);
```

DemoToolsTask* DemoTools = new DemoToolsTask(); fRun->AddTask(DemoTools); File Attachments
1) My_dvcs_full_reco.C, downloaded 383 times

Subject: Re: Tracking Posted by Ralf Kliemt on Tue, 14 Apr 2009 14:58:54 GMT View Forum Message <> Reply to Message

Hello,

How does the whole output look like? I could imagine that a file was not loaded properly in the beginning or not written correctly in a step before.

For better bug reporting (esp. SegFaults) I suggest to use gdb. The trick is to take the root.exe executable which is called anyway when you run your macros. Just like that: gdb --args root.exe My_dvcs_full_reco.C

You may want to use the spoiler tags for the tons of output.

Kind Regards, Ralf.

Subject: Re: Tracking Posted by asanchez on Tue, 14 Apr 2009 15:04:27 GMT View Forum Message <> Reply to Message

Hi are you sure that your input file is called like that

Panda_event_1.full.mc.root ?

regards alicia.

Subject: Re: Tracking Posted by donghee on Wed, 15 Apr 2009 12:18:03 GMT View Forum Message <> Reply to Message

Hi Alicia,

The accessing of input data was definitely no problem!

Subject: Re: Tracking Posted by StefanoSpataro on Thu, 16 Apr 2009 10:00:43 GMT View Forum Message <> Reply to Message

Hi,

first of all I have a comment. The line:

Geane->SetField(fRun->GetField());

is repeated two times. Only the last one after fRun->Init(); should be kept, the other should be removed.

I have the feeling that the problems comes not from STT but from the Demo* stuff before, that maybe is deleting somehwere some object and then stt has problems. Have you tried to move all the Demo part just at the end of the task list? Just to be sure.

Regards

Subject: Re: Tracking Posted by asanchez on Thu, 16 Apr 2009 10:31:18 GMT View Forum Message <> Reply to Message

Hi only to be sure please substitute the geo file for the tof detector by tofbarrel.geo and not

PndTof *Tof = new PndTof("TOF",kTRUE); 58 Tof->SetGeometryFileName("tofSciF.geo"); 59 fRun->AddModule(Tof);

cheers ALicia.

Subject: Re: Tracking Posted by donghee on Thu, 16 Apr 2009 11:21:53 GMT View Forum Message <> Reply to Message

Dear Alicia,

I try to run the geometry file with tofbarrel.geo topSciF.geo is fine but topbarrel.geo doesn't work!

Could you check for that!

Subject: Re: Tracking Posted by asanchez on Thu, 16 Apr 2009 11:50:48 GMT View Forum Message <> Reply to Message

Hi again, the geo file is tofbarrel.geo

look into geometry directory,

for me it is working without problems.

Subject: Re: Tracking Posted by donghee on Thu, 16 Apr 2009 12:09:54 GMT View Forum Message <> Reply to Message

Dear Alicia

With tofbarrel.geo the run goes to the event number 9 without error. At event number 9, run come to a death stop!

*** Break *** floating point exception

Is this related overlap of detector loading? I have introduced following tracking devices in current runMC.

FairDetector *Mvd = new PndMvdDetector("MVD", kTRUE); Mvd->SetGeometryFileName("MVD14.root"); fRun->AddModule(Mvd);

PndStt *Stt= new PndStt("STT",kTRUE); //Stt->SetGeometryFileName("straws_skewed_blocks.geo"); Stt->SetGeometryFileName("straws_skewed_blocks_35cm_pipe.geo"); fRun->AddModule(Stt);

PndTof *Tof = new PndTof("TOF",kTRUE); //Tof->SetGeometryFileName("tofSciF.geo"); Tof->SetGeometryFileName("tofbarrel.geo"); fRun->AddModule(Tof);

PndDrc *Drc = new PndDrc("DIRC",kTRUE); Drc->SetGeometryFileName("dirc.geo"); //fRun->AddModule(Drc);

PndDchDetector *Dch = new PndDchDetector("DCH",kTRUE); Dch->SetGeometryFileName("dch.root"); fRun->AddModule(Dch);

PndMdt *Mdt = new PndMdt("MDT",kTRUE);

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