Subject: Meaning of Core dump due to Geane application at rec. part
Posted by donghee on Fri, 27 May 2011 09:34:00 GMT
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Dear all,

I have funny problem and cannot understand the reason of fatal error.

When I do run reconstruction macro (with TPC) in my local machine, the output comes out smoothly without any error.
But in some other machine(local farm) with same data file following crash occur with fatal error at Geane application.

Is it related with the problem of symbolic link for fairsoft?
or do you have more simple guess for this problem?

Best wishes,
Donghee

Calculating cross section tables, see gphysi.dat for more information

 Cross section calculation concluded successfully
I- FairGeane::FairGeane: Geane is Initialized
[FATAL] Initialization of Task Geane Application failed fatally
[FATAL] We stop the execution of the process at this point.
[FATAL] For later analysis we write a core dump to core_dump_31721

Subject: Re: Meaning of Core dump due to Geane application at rec. part
Posted by StefanoSpataro on Fri, 27 May 2011 09:44:31 GMT
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Could you please be more explicit, telling us which macro have you used exactly, and at which stage this crashes? Have you seen some strange messages before?

Subject: Re: Meaning of Core dump due to Geane application at rec. part
Posted by donghee on Fri, 27 May 2011 10:00:36 GMT
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Hallo Stefano,

I'm testing the pandaroot may11 version with some modification(enc mode).

Few sim and digi file are produced with 1000 events at PBS system.
and then I'm going to reco part. I'm using quite standard code.
I have some crash due to geane application before initialization of pndlheHitmaker.

Quote:
-I- PndLheHitsMaker::Init (this must to be appeared when reco macro works.)

Instead of sucessful I have now below error and go out of program.
Quote:
[FATAL] Initialization of Task Geane Application failed fatally
[FATAL] We stop the execution of the process at this point.
[FATAL] For later analysis we write a core dump to core_dump_17535

But if I try same thing in my local machine, reco part doesn't show any error.

So, I assume that PANDAroot itself doesn't have any problem, since some files can also be run without such kind of error message.Only part of files are related with those problem.

If I know the meaning of above part, I can get some feeling where should be wrong in my farm machine.

cheers, donghee

Quote:
>./submit_test_submit_rec_99.sh
Processing /home/kang/GSI/pandaroot/macro/dvcs/run/enc_gendvcs_dvcs/My_enc_dvcs_rec.C("test_submit/Panda_event_2_1_99", 100)...
Add file name : /home/kang/GSI/pandaroot/macro/dvcs/data/test_submit/Panda_event_2_1_99_ sim.root
Add file name : /home/kang/GSI/pandaroot/macro/dvcs/data/test_submit/Panda_event_2_1_99_ dig.root
FairGeane!!!
Info in (PndGeoHandling::Instance): Making a new instance using the framework.
Before Hit maker!!!
Before finder!!!
Before fitter!!!
Before kalman!!!
Before kalman!!!

[INFO] The input consists out of the following trees and files:
[INFO] - cbmsim
[INFO] - /home/kang/GSI/pandaroot/macro/dvcs/data/test_submit/Panda_event_2_1_99_

```
sim.root
[INFO   ]  - FriendTree_1
[INFO   ]    -  /home/kang/GSI/pandaroot/macro/dvcs/data/test_submit/Panda_event_2_1_99_
dig.root
[INFO   ] Geometry was not found in the input file we will look in the friends if any!
[INFO   ] The number of entries in chain is 1000

************************************************************
    initialisation for run id 600012391
************************************************************
Info in <TGeoManager::TGeoManager>: Geometry Geometry, default geometry created
Warning in <TGeoManager::Init>: Deleting previous geometry: Geometry/default geometry
Info in <TGeoManager::CloseGeometry>: Geometry loaded from file...
Info in <TGeoManager::SetTopVolume>: Top volume is cave. Master volume is cave
Info in <TGeoManager::Voxelize>: Voxelizing...
Info in <TGeoNavigator::BuildCache>: --- Maximum geometry depth set to 100
Info in <TGeoManager::CloseGeometry>: 463899 nodes/ 1961 volume UID's in FAIR geometry
Info in <TGeoManager::CloseGeometry>: ----------------modeler ready----------------
Container FairBaseParSet initialized from ROOT file.
 -I container name PndGeoSttPar

************************************************************
    initialisation for run id 600012391
************************************************************
Container PndSensorNamePar initialized from ROOT file.
[ERROR  ] init() PndGeoSttPar  not initialized
Error in <FairRuntimeDb::initContainers()>: Error occured during initialization
PndFieldCreator::SetParm() 0xb8cd800

************************************************************
    initialisation for run id 600012391
************************************************************
[ERROR  ] init() PndGeoSttPar  not initialized
Container PndMultiFieldPar initialized from ROOT file.
Error in <FairRuntimeDb::initContainers()>: Error occured during initialization
OBJ: PndTransPar PndTransPar Trans. Field parameter container
OBJ: PndDipole1Par PndDipole1Par Dipole Field parameter container
OBJ: PndDipole2Par PndDipole2Par Dipole Field parameter container
OBJ: PndSolenoid1Par PndSolenoid1Par Solenoid 1st region parameter container
OBJ: PndSolenoid2Par PndSolenoid2Par Solenoid 2nd region parameter container
OBJ: PndSolenoid3Par PndSolenoid3Par Solenoid 3rd region parameter container
OBJ: PndSolenoid4Par PndSolenoid4Par Solenoid 4th region parameter container
-I- PndFieldMap::Init: 2nd noenc
-I- PndFieldMap::Init: existed ENC map name =  (noenc)
-I- PndFieldMap: Reading field map from ROOT file
/home/kang/GSI/pandaroot/input/TransMap.1500.root
-I- PndFieldMap::Init: 2nd noenc
-I- PndFieldMap::Init: existed ENC map name =  (noenc)
-I- PndFieldMap: Reading field map from ROOT file
/home/kang/GSI/pandaroot/input/DipoleMap1.1500.root
-I- PndFieldMap::Init: 2nd noenc
-I- PndFieldMap::Init: existed ENC map name =  (noenc)
```

```
-I- PndFieldMap: Reading field map from ROOT file
/home/kang/GSI/pandaroot/input/DipoleMap2.1500.root
-I- PndFieldMap::Init: existed ENC map name =  (SolenoidMap1_enc)
-I- PndFieldMap: Reading field map from ROOT file
/home/kang/GSI/pandaroot/input/SolenoidMap1.root
-I- ENC Fieldmap: Reading field map from ROOT file
/home/kang/GSI/pandaroot/input/SolenoidMap1_enc.root
-I- PndFieldMap::Init: existed ENC map name =  (SolenoidMap2_enc)
-I- PndFieldMap: Reading field map from ROOT file
/home/kang/GSI/pandaroot/input/SolenoidMap2.root
-I- ENC Fieldmap: Reading field map from ROOT file
/home/kang/GSI/pandaroot/input/SolenoidMap2_enc.root
-I- PndFieldMap::Init: 2nd noenc
-I- PndFieldMap::Init: existed ENC map name =  (noenc)
-I- PndFieldMap: Reading field map from ROOT file
/home/kang/GSI/pandaroot/input/SolenoidMap3.root
-I- PndFieldMap::Init: 2nd noenc
-I- PndFieldMap::Init: existed ENC map name =  (noenc)
-I- PndFieldMap: Reading field map from ROOT file
/home/kang/GSI/pandaroot/input/SolenoidMap4.root
----------------------FairGeane::Init ()-----------------------------
Loading Geant3 libraries ...
Loading Geant3 libraries ... finished

 MZSTOR.  ZEBRA table base TAB(0) in /MZCC/ at adr   554592759    210E69F7 HEX

 MZSTOR.  Initialize Store  0  in /GCBANK/
        with Store/Table at absolute adrs   554615797   554592759
                                 HEX    210EC3F5    210E69F7
                                 HEX        560A           0
                        relative adrs       22026           0
        with     1 Str. in     2 Links in   5300 Low words in 4999970 words.
        This store has a fence of   16 words.

 MZLOGL.  Set Log Level 0 for store  0
1*****  GEANT Version  3.21/11 Released on 100298
0*****  Correction Cradle Version  0.1100

 MZDIV.   Initialize Division  Constant  in Store  0
        NW/NWMAX=   20004000000,  MODE/KIND=  1  2
        Division 20 initialized.

 MZLINK.  Initialize Link Area  /GCLINK/  for Store  0 NL/NS=    20    20

 MZLINK.  Initialize Link Area  /GCSLNK/  for Store  0 NL/NS=   100   100
 *** GCOMAD: cannot load common GCONSX
-I- G3Config: Geant3 with TGeo has been created for Geane.
-I- Geane.C: NOPRNT flag set to 1
-I- Geane.C: IERR flags are not printed. If you want to switch them on, please set
fErtrio1->noprnt = 0 in Geane.C
Energy straggling area parameter from user set to: 0.999
=====================================================
```

```
----   : TransMap.1500
----
----  Field type     : Trans Map
----
----  Field map grid :
----  x = 0.000 to 240.0 cm, 61 grid points, dx = 4.000 cm
----  y = -240.0 to 240.0 cm, 241 grid points, dy = 2.000 cm
----  z = 283.0 to 343.0 cm, 41 grid points, dz = 1.500 cm

----  Field centre position: (  0.000,  0.000,  0.000) cm
----  Field scaling factor: 1.000
----
----  Field at origin interaction point of primary vertex (0,0,30) is (  0.000,  0.000,  0.000) kG
======================================================
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH
======================================================
----   : DipoleMap1.1500
----
----  Field type     : Dipole Map
----
----  Field map grid :
----  x = 0.000 to 158.0 cm, 80 grid points, dx = 2.000 cm
----  y = 0.000 to 51.00 cm, 52 grid points, dy = 1.000 cm
----  z = 342.0 to 602.0 cm, 131 grid points, dz = 2.000 cm

----  Field centre position: (  0.000,  0.000,  0.000) cm
----  Field scaling factor: 1.000
----
----  Field at origin interaction point of primary vertex (0,0,30) is (  0.000,  0.000,  0.000) kG
======================================================
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH
======================================================
----   : DipoleMap2.1500
----
----  Field type     : Dipole Map
----
----  Field map grid :
----  x = 0.000 to 170.0 cm, 35 grid points, dx = 5.000 cm
----  y = 0.000 to 60.00 cm, 31 grid points, dy = 2.000 cm
----  z = 560.0 to 660.0 cm, 26 grid points, dz = 4.000 cm

----  Field centre position: (  0.000,  0.000,  0.000) cm
----  Field scaling factor: 1.000
----
----  Field at origin interaction point of primary vertex (0,0,30) is (  0.000,  0.000,  0.000) kG
======================================================
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH
======================================================
----   : SolenoidMap1
----
----  Field type     : Soleniod Map
----
```

---- Field map grid :
---- x = 0.000 to 231.0 cm, 78 grid points, dx = 3.000 cm
---- y = 0.000 to 231.0 cm, 78 grid points, dy = 3.000 cm
---- z = -172.0 to -40.00 cm, 34 grid points, dz = 4.000 cm

---- Field centre position: (0.000, 0.000, 0.000) cm
---- Field scaling factor: 1.000

---- Field at origin interaction point of primary vertex (0,0,30) is (0.000, 0.000, 0.000) kG
---- Field at origin interaction point of primary vertex (0,0,90) is (0.000, 0.000, 0.000) kG
==========
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH
==========
---- : SolenoidMap2

---- Field type   : Soleniod Map

---- Field map grid :
---- x = 0.000 to 231.0 cm, 155 grid points, dx = 1.500 cm
---- y = 0.000 to 231.0 cm, 155 grid points, dy = 1.500 cm
---- z = -40.00 to 180.0 cm, 89 grid points, dz = 2.500 cm

---- Field centre position: (0.000, 0.000, 0.000) cm
---- Field scaling factor: 1.000

---- Field at origin interaction point of primary vertex (0,0,30) is (0.000, 0.000, 20.02) kG
---- Field at origin interaction point of primary vertex (0,0,90) is (0.000, 7.562, 19.99) kG
==========
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH
==========
---- : SolenoidMap3

---- Field type   : Soleniod Map

---- Field map grid :
---- x = 0.000 to 231.0 cm, 232 grid points, dx = 1.000 cm
---- y = 0.000 to 231.0 cm, 232 grid points, dy = 1.000 cm
---- z = 180.0 to 248.0 cm, 18 grid points, dz = 4.000 cm

---- Field centre position: (0.000, 0.000, 0.000) cm
---- Field scaling factor: 1.000

---- Field at origin interaction point of primary vertex (0,0,30) is (0.000, 0.000, 0.000) kG
---- Field at origin interaction point of primary vertex (0,0,90) is (0.000, 0.000, 0.000) kG
==========
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH
==========
---- : SolenoidMap4

---- Field type   : Soleniod Map

---- Field map grid :

```
----  x = 0.000 to 240.0 cm, 161 grid points, dx = 1.500 cm
----  y = 0.000 to 240.0 cm, 161 grid points, dy = 1.500 cm
----  z = 247.7 to 283.7 cm, 25 grid points, dz = 1.500 cm

----  Field centre position: (  0.000,  0.000,  0.000) cm
----  Field scaling factor: 1.000
----
----  Field at origin interaction point of primary vertex (0,0,30) is (  0.000,  0.000,  0.000) kG
----  Field at origin interaction point of primary vertex (0,0,90) is (  0.000,  0.000,  0.000) kG
==================================================
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH

 Calculating cross section tables, see gphysi.dat for more information
-I- PndLheHitsMaker::Init

 Cross section calculation concluded successfully
I- FairGeane::FairGeane:  Geane is Initialized
[FATAL  ] Initialization of Task Geane Application failed fatally
[FATAL  ] We stop the execution of the process at this point.
[FATAL  ] For later analysis we write a core dump to core_dump_17535
```

Subject: Re: Meaning of Core dump due to Geane application at rec. part
Posted by Lia Lavezzi on Fri, 27 May 2011 11:12:51 GMT
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Hi,
 I think there was a missng "return kSUCCESS" at the end of the Init, I just added it, please try updating the geane package and rerunning the macro.
Lia.

Subject: Re: Meaning of Core dump due to Geane application at rec. part
Posted by donghee on Fri, 27 May 2011 11:46:02 GMT
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Thanks Lia,

I was quite embarrassed.
But now after updating...it's fine!

But still this is funny feature in my understanding.

In local -> was all OK!
In submit machine -> was partly OK and partly wrong!

Is it no problem at stable version?
this is just a stupid question!

Donghee

Subject: Re: Meaning of Core dump due to Geane application at rec. part
Posted by Lia Lavezzi on Fri, 27 May 2011 12:08:03 GMT
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The problem was that a function which was supposed to return a InitStatus did not return anything, probably different machines handle this in a different way... I cannot answer the question why sometimes it works and sometimes it does not...
Lia.