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Subject: Re: genfit tracking with GEANE not working since geometry update

Posted by [Felix Boehmer](#) on Tue, 06 Oct 2009 12:04:55 GMT

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Hello guys,

just now I finally had time to try and get the reco working again. Unfortunately, I still don't get GEANE to run in the current trunk version (6675).

I have no consistent picture of how to use it, when to initialize the GEANE task (doing it like you posted here does not work for me) and how to treat the geometry (is LoadGeometry necessary or not?)

I working macro with GEANE tracking would help a lot. Unfortunately, in the macro/qa/lhetrack folder the run\_sim macro crashes, so I can't test and validate the reco macro there:

.....

```
===== EMC:: ConstructRootGeometry() m3a =====
```

```
=====
```

```
File name = /home/felix/simulation/trunk/geometry/emc_module3new.root
```

```
You do not provide a ROOT file
```

```
===== DRC:: ConstructGeometry() =====
```

```
=====
```

```
DIRC min. radius = 50.35
```

```
DIRC max. radius = 53.0364
```

```
sob_shift = -150
```

```
sob_radius2 = 104.012
```

```
Info in <TGeoManager::CheckGeometry>: Fixing runtime shapes...
```

```
Info in <TGeoManager::CheckGeometry>: ...Nothing to fix
```

```
Info in <TGeoManager::CloseGeometry>: Counting nodes...
```

```
Info in <TGeoManager::Voxelize>: Voxelizing...
```

```
Info in <TGeoManager::CloseGeometry>: Building cache...
```

```
Info in <TGeoNavigator::BuildCache>: --- Maximum geometry depth set to 100
```

```
Info in <TGeoManager::CloseGeometry>: 464464 nodes/ 1436 volume UID's in FAIR geometry
```

```
Info in <TGeoManager::CloseGeometry>: -----modeler ready-----
```

```
FairMCApplication::ConstructGeometry() : Now closing the geometry
```

```
Warning in <TGeoManager::CloseGeometry>: geometry already closed
```

```
-I- Initializing PndMvdDetector()
```

```
-I- PndDrc: Switching OFF Cherenkov Propagation
```

```
-I- PndDrc: Intialization successfull
```

```
-I- FairMCApplication -> simulation RunID: 868617750
```

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

Cross section calculation concluded successfully

-I- FairMCApplication:: Monte carlo Engine Initialisation with TGeant3TGeo

```
create PndFieldPar container PndMultiFieldPar
create PndFieldPar container PndTransPar
create PndFieldPar container PndDipole1Par
create PndFieldPar container PndDipole2Par
create PndFieldPar container PndSolenoid1Par
create PndFieldPar container PndSolenoid2Par
create PndFieldPar container PndSolenoid3Par
create PndFieldPar container PndSolenoid4Par
```

Program received signal SIGSEGV, Segmentation fault.

[Switching to Thread 0xb6bb46c0 (LWP 2847)]

0xb7fb0266 in vtable for TString () from

/home/felix/simulation/fairsoft/tools/root/lib/libCore.so.5.24

(gdb) where

#0 0xb7fb0266 in vtable for TString () from

/home/felix/simulation/fairsoft/tools/root/lib/libCore.so.5.24

#1 0xb3c74154 in ?? () from /home/felix/simulation/build/lib/libField.so

#2 0xb714ac1b in Cint::G\_\_ExceptionWrapper (funcp=0xb3c615ca <G\_\_FieldDict\_190\_0\_5>, result7=0xbfd40de4, funcname=0xcd53b08 "\001", libp=0xbfd36778,

hash=0) at cint/cint/src/Api.cxx:384

#3 0xb72301f2 in G\_\_execute\_call (result7=0xbfd40de4, libp=0xbfd36778, ifunc=0xcd53b08, ifn=0) at cint/cint/src/newlink.cxx:2329

#4 0xb72381fc in G\_\_call\_cppfunc (result7=0xbfd40de4, libp=0xbfd36778, ifunc=0xcd53b08, ifn=0) at cint/cint/src/newlink.cxx:2515

#5 0xb71f275a in G\_\_interpret\_func (result7=0xbfd40de4, funcname=0xbfd41ebc

"SetParameters", libp=0xbfd36778, hash=1344, p\_ifunc=0xcd53b08,

funcmatch=1, memfunc\_flag=1) at cint/cint/src/ifunc.cxx:5278

#6 0xb71dd3b7 in G\_\_getfunction (item=0xbfd4840d "SetParameters(fField)",

known3=0xbfd46758, memfunc\_flag=1) at cint/cint/src/func.cxx:2534

#7 0xb72e6936 in G\_\_getstructmem (store\_var\_type=112, varname=0xbfd45a5c "",

membername=0xbfd4840d "SetParameters(fField)",

tagname=0xbfd4625c "Par", known2=0xbfd46758, varglobal=0xb73a3200, objptr=2) at cint/cint/src/var.cxx:6695

#8 0xb72d6fcc in G\_\_getvariable (item=0xbfd48408 "Par->SetParameters(fField)",

known=0xbfd46758, varglobal=0xb73a3200, varlocal=0xbfd4a768)

at cint/cint/src/var.cxx:5324

#9 0xb71abe64 in G\_\_getitem (item=0xbfd48408 "Par->SetParameters(fField)") at

cint/cint/src/expr.cxx:1884

#10 0xb71bfdb1 in G\_\_getexpr (expression=0xbfd487ec "Par->SetParameters(fField)") at

cint/cint/src/expr.cxx:1470

#11 0xb724ac6b in G\_\_exec\_function (statement=0xbfd487ec "Par->SetParameters(fField)",

pc=0xbfd487e8, piout=0xbfd487e0, plargestep=0xbfd487d0,

presult=0xbfd486dc) at cint/cint/src/parse.cxx:601

#12 0xb7252f4e in G\_\_exec\_statement (mparen=0xbfd495a0) at cint/cint/src/parse.cxx:7015

#13 0xb725abe2 in G\_\_exec\_if () at cint/cint/src/parse.cxx:1353

#14 0xb72529b1 in G\_\_exec\_statement (mparen=0xbfd4a98c) at cint/cint/src/parse.cxx:6930

#15 0xb71f5844 in G\_\_interpret\_func (result7=0xbfd555c4, funcname=0xbfd5669c

"run\_sim\_tpccombi\_pgun", libp=0xbfd4af58, hash=2246, p\_ifunc=0x9f41b08,

funcmatch=1, memfunc\_flag=0) at cint/cint/src/ifunc.cxx:6113

#16 0xb71de14a in G\_\_getfunction (item=0xbfd58c48

"run\_sim\_tpccombi\_pgun(100,211,0.5,-1)", known3=0xbfd56f98, memfunc\_flag=0)

---Type <return> to continue, or q <return> to quit---

```
at cint/cint/src/func.cxx:2745
#17 0xb71abfb0 in G__getitem (item=0xbfd58c48 "run_sim_tpccombi_pgun(100,211,0.5,-1)")
at cint/cint/src/expr.cxx:1896
#18 0xb71bfbdb1 in G__getexpr (expression=0x9f56a68
"run_sim_tpccombi_pgun(100,211,0.5,-1)") at cint/cint/src/expr.cxx:1470
#19 0xb71c0cf1 in G__calc_internal (exprwithspace=0xbfd59d2c
"run_sim_tpccombi_pgun(100,211,0.5,-1)") at cint/cint/src/expr.cxx:1061
#20 0xb726261c in G__process_cmd (
    line=0x98e11b8 ".X
/home/felix/simulation/fairsoft/tools/root/etc/plugins/TVirtualStreamerInfo/P010_TStreamerInfo.
C", prompt=0x98b342c "",
    more=0x98b3424, err=0xbfd5c690, rslt=0xbfd5c65c) at cint/cint/src/pause.cxx:2240
#21 0xb7acafc2 in TCint::ProcessLine (this=0x98b3408,
    line=0x98e11b8 ".X
/home/felix/simulation/fairsoft/tools/root/etc/plugins/TVirtualStreamerInfo/P010_TStreamerInfo.
C", error=0xbfd5ce1c)
    at core/meta/src/TCint.cxx:413
#22 0xb7ac14ba in TCint::ProcessLineSynch (this=0x98b3408,
    line=0x98e11b8 ".X
/home/felix/simulation/fairsoft/tools/root/etc/plugins/TVirtualStreamerInfo/P010_TStreamerInfo.
C", error=0xbfd5ce1c)
    at core/meta/src/TCint.cxx:480
#23 0xb79bcf1d in TApplication::ExecuteFile (file=0xbfd5ce29
"macro/qa/lhetrack/run_sim_tpccombi_pgun.C(100,211,0.5,-1)", error=0xbfd5ce1c,
    keep=false) at core/base/src/TApplication.cxx:956
#24 0xb79bd13c in TApplication::ProcessFile (this=0x98de8a8, file=0xbfd5ce29
"macro/qa/lhetrack/run_sim_tpccombi_pgun.C(100,211,0.5,-1)",
    error=0xbfd5ce1c, keep=false) at core/base/src/TApplication.cxx:841
#25 0xb79bfa30 in TApplication::ProcessLine (this=0x98de8a8, line=0xbfd5ce26 ".x
macro/qa/lhetrack/run_sim_tpccombi_pgun.C(100,211,0.5,-1)",
    sync=false, err=0xbfd5ce1c) at core/base/src/TApplication.cxx:814
#26 0xb6eaba16 in TRint::Run (this=0x98de8a8, retrn=false) at core/rint/src/TRint.cxx:368
#27 0x08048f47 in main (argc=1, argv=0xbfd5ef54) at main/src/rmain.cxx:29
```

Cheers,

Felix

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