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Subject: Pandaroot crash due to TParticlePDG.h  
Posted by [donghee](#) on Sat, 24 Apr 2010 16:22:46 GMT  
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Dear colleagues,

Here is some trouble to simulate Pandaroot-MC again.  
I'm using box generator and last trunk version.  
For electron and muon the simulation is going very well, but when I try to do same with replacing pion or proton! Then the running of MC corrupt

Quote:

```
//This is OK!  
FairBoxGenerator* boxGen = new FairBoxGenerator(11, 1);
```

Quote:

```
// segmentaion fault  
FairBoxGenerator* boxGen = new FairBoxGenerator(211, 1);
```

Has someone made new things in TParticlePDG.h?

Here is the message from pandaroot!

Quote:

```
*** Break *** segmentation violation
```

```
=====
```

There was a crash (kSigSegmentationViolation).  
This is the entire stack trace of all threads:

```
=====
```

```
#0 0x00007f3bbb085b0e in waitpid () from /lib/libc.so.6  
#1 0x00007f3bbb0231f9 in ?? () from /lib/libc.so.6  
#2 0x00007f3bbd31171a in TUnixSystem::Exec (this=0x23807f0,  
  shellcmd=0xca4d9a8 "/home/donghee/GSI/fairsoft_jan10/tools/root/etc/gdb-backtrace.sh  
18592 1>&2")  
  at core/unix/src/TUnixSystem.cxx:1978  
#3 0x00007f3bbd312012 in TUnixSystem::StackTrace (this=0x23807f0) at  
  core/unix/src/TUnixSystem.cxx:2188  
#4 0x00007f3bbd30f864 in TUnixSystem::DispatchSignals (this=0x23807f0,  
  sig=kSigSegmentationViolation)  
  at core/unix/src/TUnixSystem.cxx:1106  
#5 0x00007f3bbd30d539 in SigHandler (sig=kSigSegmentationViolation) at  
  core/unix/src/TUnixSystem.cxx:350  
#6 0x00007f3bbd31549e in sighandler (sig=11) at core/unix/src/TUnixSystem.cxx:3428  
#7 <signal handler called>
```

```

#8 0x00007f3bb42a4300 in TParticlePDG::Mass (this=0x0) at include/TParticlePDG.h:72
#9 0x00007f3ba7149c74 in TGeant3::SetTrack (this=0x71598a0, done=1, parent=35,
pdg=1000020040,
  pmom=0x7f3ba74872a8, vpos=0x7f3ba7487e20, polar=0x7fff2725e6c0,
  tof=3.98251956e-08, mech=kPHadronic,
  ntr=
0x7fff2725e704, weight=1, is=0) at TGeant3/TGeant3.cxx:6367
#10 0x00007f3ba715166c in gustep_ () at TGeant3/TGeant3gu.cxx:808
#11 0x00007f3ba71331f6 in jumpt0_ (iadr=0x7f3ba7486cc8) at minicern/jumptn.c:74
#12 0x00007f3ba6fcabf0 in g3track () at gtrak/gtrack.F:296
#13 0x00007f3ba714f958 in gutrak_ () at TGeant3/TGeant3gu.cxx:558
#14 0x00007f3ba6fcbd3c in gtreveroot () at gtrak/gtreveroot.F:168
#15 0x00007f3ba714f97a in gutrev_ () at TGeant3/TGeant3gu.cxx:578
#16 0x00007f3ba71331f6 in jumpt0_ (iadr=0x7f3ba7486ce0) at minicern/jumptn.c:74
#17 0x00007f3ba6e4f3c5 in g3trig () at gbases/gtrig.F:62
#18 0x00007f3ba71430ff in TGeant3::Gtrig (this=0x71598a0) at TGeant3/TGeant3.cxx:3177
#19 0x00007f3ba7149b07 in TGeant3::ProcessEvent (this=0x71598a0) at
TGeant3/TGeant3.cxx:6300
#20 0x00007f3ba7149a13 in TGeant3::ProcessRun (this=0x71598a0, nevent=100) at
TGeant3/TGeant3.cxx:6270
#21 0x00007f3bb1efb93d in FairMCApplication::RunMC (this=0x3565630, nofEvents=100)
  at /home/donghee/GSI/pandaroot/base/FairMCApplication.cxx:238
#22 0x00007f3bb1f1761b in FairRunSim::Run (this=0x2fcb490, NEvents=100, NotUsed=0)
  at /home/donghee/GSI/pandaroot/base/FairRunSim.cxx:368
#23 0x00007f3bb1f5c8de in G__FairDict_681_0_5 (result7=0x7fff2726a880,
funcname=0x2fc78d0 "\001",
  libp=0x7fff2725fe70, hash=0) at /home/donghee/GSI/buildpanda/base/FairDict.cxx:10847
#24 0x00007f3bbc64b4e4 in Cint::G__ExceptionWrapper (funcp=0x7f3bb1f5c757
<G__FairDict_681_0_5>,
  result7=0x7fff2726a880, funcname=0x2fc78d0 "\001", libp=0x7fff2725fe70, hash=0)
  at cint/cint/src/Api.cxx:385
#25 0x00007f3bbc720b46 in G__execute_call (result7=0x7fff2726a880, libp=0x7fff2725fe70,
ifunc=0x2fc78d0,
  ifn=0) at cint/cint/src/newlink.cxx:2332
#26 0x00007f3bbc721479 in G__call_cppfunc (result7=0x7fff2726a880, libp=0x7fff2725fe70,
ifunc=0x2fc78d0,
  ifn=0) at cint/cint/src/newlink.cxx:2518
#27 0x00007f3bbc6faabc in G__interpret_func (result7=0x7fff2726a880,
funcname=0x23eee70 "Run",
  libp=0x7fff2725fe70, hash=309, p_ifunc=0x2fc78d0, funcmatch=1, memfunc_flag=1)
  at cint/cint/src/ifunc.cxx:5240
#28 0x00007f3bbc6d50bc in G__getfunction (item=0x23eda26 "Run(nEvents)",
known3=0x7fff2726e158,
  memfunc_flag=1) at cint/cint/src/func.cxx:2423
#29 0x00007f3bbc80a2e9 in G__getstructmem (store_var_type=112, varname=0x23ee650
"emcHitProd",
  membername=0x23eda26 "Run(nEvents)", tagname=0x23ee240 "fRun",
  known2=0x7fff2726e158,
  varglobal=0x7f3bbcae4540, objptr=2) at cint/cint/src/var.cxx:6591
#30 0x00007f3bbc7f9cf9 in G__getvariable (item=0x23eda20 "fRun->Run(nEvents)",
known=0x7fff2726e158,
  varglobal=0x7f3bbcae4540, varlocal=0x7fff27270f30) at cint/cint/src/var.cxx:5222

```

```

#31 0x00007f3bbc6c42a9 in G__getitem (item=0x23eda20 "fRun->Run(nEvents)") at
cint/cint/src/expr.cxx:1882
#32 0x00007f3bbc6c1b2f in G__getexpr (expression=0x2275a00 "fRun->Run(nEvents)")
  at cint/cint/src/expr.cxx:1464
#33 0x00007f3bbc752e4c in G__exec_function (statement=..., pc=0x7fff27270bcc,
piout=0x7fff27270bc8,
  plargestep=0x7fff27270bb8, presult=0x7fff27270a60) at cint/cint/src/parse.cxx:643
#34 0x00007f3bbc7633f3 in G__exec_statement (mparen=0x7fff27271484) at
cint/cint/src/parse.cxx:7083
#35 0x00007f3bbc6fe0fa in G__interpret_func (result7=0x7fff2727c440,
  funcname=0x2386860 "My_dvcs_mvd_run", libp=0x7fff27271a30, hash=1583,
p_ifunc=0x27ad480, funcmatch=1,
  memfunc_flag=0) at cint/cint/src/ifunc.cxx:6079
#36 0x00007f3bbc6d5dcf in G__getfunction (item=0x227fc60 "My_dvcs_mvd_run()",
known3=0x7fff2727c6d8,
  memfunc_flag=0) at cint/cint/src/func.cxx:2639
#37 0x00007f3bbc6c43c9 in G__getitem (item=0x227fc60 "My_dvcs_mvd_run()") at
cint/cint/src/expr.cxx:1894
#38 0x00007f3bbc6c1b2f in G__getexpr (expression=0x27cb960 "My_dvcs_mvd_run()")
  at cint/cint/src/expr.cxx:1464
#39 0x00007f3bbc6af9a8 in G__calc_internal (exprwithspace=0x2271710
"My_dvcs_mvd_run()")
  at cint/cint/src/expr.cxx:1066
#40 0x00007f3bbc76da2c in G__process_cmd (
  line=0x23d4598 ".X
/home/donghee/GSI/fairsoft_jan10/tools/root/etc/plugins/TVirtualStreamer
Info/P010_TStreamerInfo.C ", prompt=0x23866e8 "", more=0x23866e0, err=0x7fff272803a8,
rslt=0x7fff27280340)
  at cint/cint/src/pause.cxx:2277
#41 0x00007f3bbd2f7cf6 in TCint::ProcessLine (this=0x23866b0,
  line=0x23d4598 ".X
/home/donghee/GSI/fairsoft_jan10/tools/root/etc/plugins/TVirtualStreamer
Info/P010_TStreamerInfo.C ", error=0x7fff27281088) at core/meta/src/TCint.cxx:419
#42 0x00007f3bbd2f81f8 in TCint::ProcessLineSynch (this=0x23866b0,
  line=0x23d4598 ".X
/home/donghee/GSI/fairsoft_jan10/tools/root/etc/plugins/TVirtualStreamer
Info/P010_TStreamerInfo.C ", error=0x7fff27281088) at core/meta/src/TCint.cxx:486
#43 0x00007f3bbd1ef1ff in TApplication::ExecuteFile (file=0x7fff27281093
"My_dvcs_mvd_run.C",
  error=0x7fff27281088, keep=false) at core/base/src/TApplication.cxx:977
#44 0x00007f3bbd1ee910 in TApplication::ProcessFile (this=0x23caf60,
  file=0x7fff27281093 "My_dvcs_mvd_run.C", error=0x7fff27281088, keep=false)
  at core/base/src/TApplication.cxx:853
#45 0x00007f3bbd1ee82e in TApplication::ProcessLine (this=0x23caf60,
  line=0x7fff27281090 ".x My_dvcs_mvd_run.C", sync=false, err=0x7fff27281088)
  at core/base/src/TApplication.cxx:826
#46 0x00007f3bbbf30549 in TRint::Run (this=0x23caf60, retrn=false) at
core/rint/src/TRint.cxx:407
#47 0x0000000000401234 in main (argc=1, argv=0x7fff27283238) at main/src/rmain.cxx:29
=====

```

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.

```
=====
#8 0x00007f3bb42a4300 in TParticlePDG::Mass (this=0x0) at include/TParticlePDG.h:72
#9 0x00007f3ba7149c74 in TGeant3::SetTrack (this=0x71598a0, done=1, parent=35,
pdg=1000020040,
    pmom=0x7f3ba74872a8, vpos=0x7f3ba7487e20, polar=0x7fff2725e6c0,
    tof=3.98251956e-08, mech=kPHadronic,
    ntr=
0x7fff2725e704, weight=1, is=0) at TGeant3/TGeant3.cxx:6367
#10 0x00007f3ba715166c in gustep_ () at TGeant3/TGeant3gu.cxx:808
#11 0x00007f3ba71331f6 in jumpt0_ (iadr=0x7f3ba7486cc8) at minicern/jumptn.c:74
#12 0x00007f3ba6fcabf0 in g3track () at gtrak/gtrack.F:296
#13 0x00007f3ba714f958 in gutrak_ () at TGeant3/TGeant3gu.cxx:558
#14 0x00007f3ba6fcbd3c in gtreveroot () at gtrak/gtreveroot.F:168
#15 0x00007f3ba714f97a in gutrev_ () at TGeant3/TGeant3gu.cxx:578
#16 0x00007f3ba71331f6 in jumpt0_ (iadr=0x7f3ba7486ce0) at minicern/jumptn.c:74
#17 0x00007f3ba6e4f3c5 in g3trig () at gbase/gtrig.F:62
#18 0x00007f3ba71430ff in TGeant3::Gtrig (this=0x71598a0) at TGeant3/TGeant3.cxx:3177
#19 0x00007f3ba7149b07 in TGeant3::ProcessEvent (this=0x71598a0) at
TGeant3/TGeant3.cxx:6300
#20 0x00007f3ba7149a13 in TGeant3::ProcessRun (this=0x71598a0, nevent=100) at
TGeant3/TGeant3.cxx:6270
#21 0x00007f3bb1efb93d in FairMCApplication::RunMC (this=0x3565630, nofEvents=100)
    at /home/donghee/GSI/pandaroot/base/FairMCApplication.cxx:238
#22 0x00007f3bb1f1761b in FairRunSim::Run (this=0x2fcb490, NEvents=100, NotUsed=0)
    at /home/donghee/GSI/pandaroot/base/FairRunSim.cxx:368
=====
```