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Subject: [FIXED] crash in run/digi\_complete.C  
Posted by [Maria Patsyuk](#) on Tue, 14 Jan 2014 08:25:13 GMT  
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Dear all,

I've updated the svn up to version 23427 and I get the following crash during the digitization with digi\_complete.C. I've simulated 100 single kaon events with a box generator with Geant3 as a data sample. In the simulation I don't have the following detectors: magnet, GEM, EMC, SciTil, MDT, FTS, FTOF, RICH. My simulation macro is attached. The digi-macro is the default one. The error looks like this:

```
#####  
PndFtsHitProducerRealFast: Init()#####  
#####  
[INFO ] Branch: FTSPoint not found in Tree  
[INFO ] Branch: FTSPoint not found in Tree  
-W- PndFtsHitProducerRealFast::Init: No FTSPoint array!  
[INFO ] Branch: FtofPoint not found in Tree  
[INFO ] Branch: FtofPoint not found in Tree  
-W- PndFtofHitProducerIdeal::Init: No FtofPoint array!  
[INFO ] The number of entries in chain is 100  
ProcessBar start...  
-l- HitProducerReal: bar center = -20.8956, 43.8086  
-l- HitProducerReal: hit is added!!!  
Number of Photon MC Points in Photon Detector Plane : 0  
-l- SetPhotonTransportEff: reflection coef(l = 0.53, ang = 0.95) = 0.999594  
  
*** Break *** segmentation violation
```

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

```
=====  
#0 0x00007fcd5ba0883e in __libc_waitpid (pid=<optimized out>, stat_loc=0x7fffd0c6fa9c,  
options=<optimized out>) at ../sysdeps/unix/sysv/linux/waitpid.c:32  
#1 0x00007fcd5b9a62c9 in do_system (line=<optimized out>) at  
../sysdeps/posix/system.c:149  
#2 0x00007fcd5c99bf06 in TUnixSystem::Exec (this=0x224a430, shellcmd=0xab1c960  
"/d/panda01/mpatsyuk/apr13/apr13/etc/gdb-backtrace.sh 30299 1>&2") at  
/d/panda01/mpatsyuk/apr13/tools/root/core/unix/src/TUnixSystem.cxx:2088  
#3 0x00007fcd5c99c7d4 in TUnixSystem::StackTrace (this=0x224a430) at  
/d/panda01/mpatsyuk/apr13/tools/root/core/unix/src/TUnixSystem.cxx:2336  
#4 0x00007fcd5c99a125 in TUnixSystem::DispatchSignals (this=0x224a430,  
sig=kSigSegmentationViolation) at  
/d/panda01/mpatsyuk/apr13/tools/root/core/unix/src/TUnixSystem.cxx:1212  
#5 0x00007fcd5c9980ad in SigHandler (sig=kSigSegmentationViolation) at  
/d/panda01/mpatsyuk/apr13/tools/root/core/unix/src/TUnixSystem.cxx:368  
#6 0x00007fcd5c9a004e in sighandler (sig=11) at  
/d/panda01/mpatsyuk/apr13/tools/root/core/unix/src/TUnixSystem.cxx:3650
```

#7 0x00007fcd5c9d5604 in textinput::TerminalConfigUnix::HandleSignal (this=0x7fcd5d190f00, signum=11) at /d/panda01/mpatsyuk/apr13/tools/root/core/textinput/src/textinput/Termin alConfigUnix.cpp:96

#8 0x00007fcd5c9d514d in (anonymous namespace)::TerminalConfigUnix\_\_handleSignal (signum=11) at /d/panda01/mpatsyuk/apr13/tools/root/core/textinput/src/textinput/Termin alConfigUnix.cpp:36

#9 <signal handler called>

#10 0x00007fcd5c93341e in TObjArray::GetAbsLast (this=0x0) at /d/panda01/mpatsyuk/apr13/tools/root/core/cont/src/TObjArray.cxx:488

#11 0x00007fcd5c8ad29c in TObjArray::GetEntriesFast (this=0x0) at include/TObjArray.h:67

#12 0x00007fcd4caa30d6 in PndGemDigitize::DigitizeEvent (this=0x327e800) at /u/mpatsyuk/PANDA/new\_trunk/gem/PndGemDigitize.cxx:185

#13 0x00007fcd4caa2e61 in PndGemDigitize::Exec (this=0x327e800, opt=0x7fcd51a3c540 "") at /u/mpatsyuk/PANDA/new\_trunk/gem/PndGemDigitize.cxx:152

#14 0x00007fcd5c8fcb44 in TTask::ExecuteTasks (this=0x2dc34d0, option=0x7fcd51a3c540 "") at /d/panda01/mpatsyuk/apr13/tools/root/core/base/src/TTask.cxx:312

#15 0x00007fcd5c8fc922 in TTask::ExecuteTask (this=0x2dc34d0, option=0x7fcd51a3c540 "") at /d/panda01/mpatsyuk/apr13/tools/root/core/base/src/TTask.cxx:275

#16 0x00007fcd5192a194 in FairRunAna::Run (this=0x2dc32d0, Ev\_start=0, Ev\_end=100) at /u/mpatsyuk/PANDA/new\_trunk/base/steer/FairRunAna.cxx:461

#17 0x00007fcd519935e3 in G\_\_G\_\_BaseDict\_618\_0\_6 (result7=0x7fffd0c7e120, funcname=0x2dbc320 "", libp=0x7fffd0c73710, hash=0) at /u/mpatsyuk/PANDA/build\_Squeeze64\_Apr2013/base/G\_\_BaseDict.cxx:8427

#18 0x00007fcd5ad9becc in Cint::G\_\_ExceptionWrapper (funcp=0x7fcd5199342d <G\_\_G\_\_BaseDict\_618\_0\_6(G\_\_value\*, char const\*, G\_\_param\*, int)>, result7=0x7fffd0c7e120, funcname=0x2dbc320 "", libp=0x7fffd0c73710, hash=0) at cint/cint/src/Api.cxx:393

#19 0x00007fcd5ae786e5 in G\_\_execute\_call (result7=0x7fffd0c7e120, libp=0x7fffd0c73710, ifunc=0x2dbc320, ifn=0) at cint/cint/src/newlink.cxx:2408

#20 0x00007fcd5ae79098 in G\_\_call\_cppfunc (result7=0x7fffd0c7e120, libp=0x7fffd0c73710, ifunc=0x2dbc320, ifn=0) at cint/cint/src/newlink.cxx:2612

#21 0x00007fcd5ae51a6b in G\_\_interpret\_func (result7=0x7fffd0c7e120, funcname=0x2995e80 "Run", libp=0x7fffd0c73710, hash=309, p\_ifunc=0x2dbc320, funcmatch=1, memfunc\_flag=1) at cint/cint/src/ifunc.cxx:5791

#22 0x00007fcd5ae2aa79 in G\_\_getfunction (item=0x226aac6 "Run()", known3=0x7fffd0c7f3c8, memfunc\_flag=1) at cint/cint/src/func.cxx:2660

#23 0x00007fcd5af698fd in G\_\_getstructmem (store\_var\_type=112, varname=..., membername=0x226aac6 "Run()", memnamesize=2147483647, tagname=0x2995250 "fRun", known2=0x7fffd0c7f3c8, varglobal=0x7fcd5b234160, objptr=2) at cint/cint/src/var.cxx:6818

#24 0x00007fcd5af591db in G\_\_getvariable (item=0x226aac0 "fRun->Run()", known=0x7fffd0c7f3c8, varglobal=0x7fcd5b234160, varlocal=0x7fffd0c82660) at cint/cint/src/var.cxx:5404

#25 0x00007fcd5ae19788 in G\_\_getitem (item=0x226aac0 "fRun->Run()") at cint/cint/src/expr.cxx:1906

#26 0x00007fcd5ae16f37 in G\_\_getexpr (expression=0x22859f0 "fRun->Run()") at cint/cint/src/expr.cxx:1488

#27 0x00007fcd5aeac2ab in G\_\_exec\_function (statement=..., pc=0x7fffd0c81d3c, piout=0x7fffd0c81d38, plargestep=0x7fffd0c81d30, presult=0x7fffd0c81c60) at cint/cint/src/parse.cxx:645

#28 0x00007fcd5aebd28c in G\_\_exec\_statement (mparen=0x7fffd0c8296c) at cint/cint/src/parse.cxx:7371

#29 0x00007fcd5ae5511d in G\_\_interpret\_func (result7=0x7fffd0c8d750,

```
funcname=0x225d050 "digi_complete", libp=0x7fffd0c82d40, hash=1365, p_ifunc=0x2968d50,
funcmatch=1, memfunc_flag=0) at cint/cint/src/ifunc.cxx:6710
#30 0x00007fcd5ae2b83d in G__getfunction (item=0x225c830 "digi_complete()",
known3=0x7fffd0c8da18, memfunc_flag=0) at cint/cint/src/func.cxx:2901
#31 0x00007fcd5ae198a8 in G__getitem (item=0x225c830 "digi_complete()") at
cint/cint/src/expr.cxx:1918
#32 0x00007fcd5ae16f37 in G__getexpr (expression=0x2a4ee30 "digi_complete()") at
cint/cint/src/expr.cxx:1488
#33 0x00007fcd5ae0373b in G__calc_internal (exprwithspace=0x225e8a0 "digi_complete()")
at cint/cint/src/expr.cxx:1071
#34 0x00007fcd5aec82a9 in G__process_cmd (line=0x2a4e6c0 ".X
/SAT/lustre/panda/mpatsyuk/pandaroot/trunk/macro/run1/./digi_complete.C",
prompt=0x224e0b8 "", more=0x224e0b0, err=0x7fffd0c9142c, rslt=0x7fffd0c913c0) at
cint/cint/src/pause.cxx:2333
#35 0x00007fcd5c9433f2 in TCint::ProcessLine (this=0x224e070, line=0x2a4e6c0 ".X
/SAT/lustre/panda/mpatsyuk/pandaroot/trunk/macro/run1/./digi_complete.C",
error=0x7fffd0c94254) at /d/panda01/mpatsyuk/apr13/tools/root/core/meta/src/TCint.cxx:545
#36 0x00007fcd5c943a84 in TCint::ProcessLineSynch (this=0x224e070, line=0x2a4e6c0 ".X
/SAT/lustre/panda/mpatsyuk/pandaroot/trunk/macro/run1/./digi_complete.C",
error=0x7fffd0c94254) at /d/panda01/mpatsyuk/apr13/tools/root/core/meta/src/TCint.cxx:624
#37 0x00007fcd5c867fe1 in TApplication::ExecuteFile (file=0x7fffd0c921f3 "digi_complete.C",
error=0x7fffd0c94254, keep=false) at
/d/panda01/mpatsyuk/apr13/tools/root/core/base/src/TApplication.cxx:1028
#38 0x00007fcd5c867856 in TApplication::ProcessFile (this=0x2396580, file=0x7fffd0c921f3
"digi_complete.C", error=0x7fffd0c94254, keep=false) at
/d/panda01/mpatsyuk/apr13/tools/root/core/base/src/TApplication.cxx:904
#39 0x00007fcd5c867773 in TApplication::ProcessLine (this=0x2396580, line=0x7fffd0c921f0
".x digi_complete.C", sync=false, err=0x7fffd0c94254) at
/d/panda01/mpatsyuk/apr13/tools/root/core/base/src/TApplication.cxx:877
#40 0x00007fcd5c42548c in TRint::Run (this=0x2396580, retrn=false) at
/d/panda01/mpatsyuk/apr13/tools/root/core/rint/src/TRint.cxx:418
#41 0x0000000000401322 in main (argc=1, argv=0x7fffd0c94408) at
/d/panda01/mpatsyuk/apr13/tools/root/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.

```
=====
#10 0x00007fcd5c93341e in TObjArray::GetAbsLast (this=0x0) at
/d/panda01/mpatsyuk/apr13/tools/root/core/cont/src/TObjArray.cxx:488
#11 0x00007fcd5c8ad29c in TObjArray::GetEntriesFast (this=0x0) at include/TObjArray.h:67
#12 0x00007fcd4caa30d6 in PndGemDigitize::DigitizeEvent (this=0x327e800) at
/u/mpatsyuk/PANDA/new_trunk/gem/PndGemDigitize.cxx:185
#13 0x00007fcd4caa2e61 in PndGemDigitize::Exec (this=0x327e800, opt=0x7fcd51a3c540 "")
at /u/mpatsyuk/PANDA/new_trunk/gem/PndGemDigitize.cxx:152
#14 0x00007fcd5c8fcb44 in TTask::ExecuteTasks (this=0x2dc34d0, option=0x7fcd51a3c540
"") at /d/panda01/mpatsyuk/apr13/tools/root/core/base/src/TTask.cxx:312
#15 0x00007fcd5c8fc922 in TTask::ExecuteTask (this=0x2dc34d0, option=0x7fcd51a3c540 "")
```

at /d/panda01/mpatsyuk/apr13/tools/root/core/base/src/TTask.cxx:275  
#16 0x00007fcd5192a194 in FairRunAna::Run (this=0x2dc32d0, Ev\_start=0, Ev\_end=100) at  
/u/mpatsyuk/PANDA/new\_trunk/base/steer/FairRunAna.cxx:461  
=====

Root > Function digi\_complete() busy flag cleared

Could you please help me to run these macros properly?

Best regards,  
Maria

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### File Attachments

1) [sim\\_completeG.C](#), downloaded 491 times

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Subject: Re: crash in run/digi\_complete.C  
Posted by [Stefano Spataro](#) on Tue, 14 Jan 2014 13:47:50 GMT  
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You need to comment out gem tasks, since the detector is not present.

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Subject: Re: crash in run/digi\_complete.C  
Posted by [Maria Patsyuk](#) on Tue, 14 Jan 2014 14:38:33 GMT  
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Thank you, Stefano,

that helped indeed!

Best regards,  
Maria

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