
Subject: Segfault in PndMvdStripClusterBuilder
 Posted by [Ralf Kliemt](#) on Mon, 25 Jan 2010 09:52:33 GMT
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Hi everybody,

I get a quite evil segfault in my code which did not appear last year.
 Maybe someone more experienced with stl can help here.

I run the 3 "runMvd...C" macros from pandaroot/macros/mvd. on the third I get the following messages from gdb. Note that I checked all variables with a cout in the lines before.

```
Quote: **Sarting PndMvdStripClusterTask::Exec()**
PndMvdStripClusterBuilder::AddDigi(): Adding a Digi with name
1_1/40_0/66_1/65_1/63_1/62_6/61_1/60_1/57_1/56_1/
time 0, number 355, side 0 forom point 0
```

```
Program received signal EXC_BAD_ACCESS, Could not access memory.
Reason: 13 at address: 0x0000000000000000
0x00007fff80509a24 in std::string::compare ()
```

Toggle Spoiler
 (gdb) bt

```
#0 0x00007fff80509a24 in std::string::compare ()
#1 0x00000001000ddd6f in std::operator< <char, std::char_traits<char>, std::allocator<char> >
 (&__lhs=@0x100007d20, &__rhs=@0x7fff5fbd88d0) at basic_string.h:2190
#2 0x00000001000ddd95 in std::less<std::string>::operator() (this=0x10c055ad8, &__x=@0x100007d20, &__y=@0x7fff5fbd88d0) at stl_function.h:227
#3 0x00000001073f6186 in std::_Rb_tree<std::string, std::pair<std::string const,
 std::map<SensorSide, std::map<int, std::map<int, int, std::less<int>, std::allocator<std::pair<int
 const, int> > >, std::less<int>, std::allocator<std::pair<int const, std::map<int, int,
 std::less<int>, std::allocator<std::pair<int const, int> > > > >, std::less<SensorSide>,
 std::allocator<std::pair<SensorSide const, std::map<int, std::map<int, int, std::less<int>,
 std::allocator<std::pair<int const, int> > >, std::less<int>, std::allocator<std::pair<int const,
 std::map<int, int, std::less<int>, std::allocator<std::pair<int const, int> > > > > > >,
 std::_Select1st<std::pair<std::string const, std::map<SensorSide, std::map<int, std::map<int,
 int, std::less<int>, std::allocator<std::pair<int const, int> > >, std::less<int>,
 std::allocator<std::pair<int const, std::map<int, int, std::less<int>, std::allocator<std::pair<int
 const, int> > > > >, std::less<SensorSide>, std::allocator<std::pair<SensorSide const,
 std::map<int, std::map<int, int, std::less<int>, std::allocator<std::pair<int const, int> > >,
 std::less<int>, std::allocator<std::pair<int const, std::map<int, int, std::less<int>,
 std::allocator<std::pair<int const, int> > > > > > > > > > > >::lower_bound (this=0x10c055ad8,
 &__k=@0x7fff5fbd88d0) at stl_tree.h:1150
#4 0x00000001073f61e9 in std::map<std::string, std::map<SensorSide, std::map<int,
 std::map<int, int, std::less<int>, std::allocator<std::pair<int const, int> > >, std::less<int>,
 std::allocator<std::pair<int const, std::map<int, int, std::less<int>, std::allocator<std::pair<int
```


#15 0x0000000100b03098 in G__call_cppfunc (result7=0x7fff5fbe4ef0, libp=0x7fff5fbda4e0, ifunc=0x109545cc0, ifn=0) at cint/cint/src/newlink.cxx:2518
#16 0x0000000100adc09d in G__interpret_func (result7=0x7fff5fbe4ef0, funcname=0x101834a00 "Run", libp=0x7fff5fbda4e0, hash=309, p_ifunc=0x109545cc0, funcmatch=1, memfunc_flag=1) at cint/cint/src/ifunc.cxx:5238
#17 0x0000000100ac84bb in G__getfunction (item=0x101833606 "Run(0,nEvents)", known3=0x7fff5fbe89d8, memfunc_flag=1) at cint/cint/src/func.cxx:2421
#18 0x0000000100bdf9ab in G__getstructmem (store_var_type=112, varname=0x101834200 "mvdmccls", membername=0x101833606 "Run(0,nEvents)", tagname=0x101833e00 "fRun", known2=0x7fff5fbe89d8, varglobal=0x101152f60, objptr=2) at cint/cint/src/var.cxx:6588
#19 0x0000000100bcebec in G__getvariable (item=0x101833600 "fRun->Run(0,nEvents)", known=0x7fff5fbe89d8, varglobal=0x101152f60, varlocal=0x0) at cint/cint/src/var.cxx:5220
#20 0x0000000100a8db33 in G__getitem (item=0x101833600 "fRun->Run(0,nEvents)") at cint/cint/src/expr.cxx:1882
#21 0x0000000100aa40c0 in G__getexpr (expression=0x101802600 "fRun->Run(0,nEvents)") at cint/cint/src/expr.cxx:1464
#22 0x0000000100b382e6 in G__exec_function (statement=@0x7fff5fbeb780, pc=0x7fff5fbeb79c, piout=0x7fff5fbeb798, plargestep=0x7fff5fbeb790, presult=0x7fff5fbeb6d0) at cint/cint/src/parse.cxx:643
#23 0x0000000100b40f85 in G__exec_statement (mparen=0x7fff5fbf8314) at cint/cint/src/parse.cxx:7083
#24 0x0000000100a72cf3 in G__exec_tempfile_core (file=0x101801600 "/Users/ralfk/Panda/pandaroot/macro/mvd/.runMvdReco.C", fp=0x0) at cint/cint/src/debug.cxx:250
#25 0x0000000100a7474a in G__exec_tempfile (file=0x101801600 "/Users/ralfk/Panda/pandaroot/macro/mvd/.runMvdReco.C") at cint/cint/src/debug.cxx:798
#26 0x0000000100b56db0 in G__process_cmd (line=0x1017efda8 ".X /Users/ralfk/Panda/fairsoft/tools/root/etc/plugins/TFile/P110_THDFSFile. C ", prompt=0x10170f408 "", more=0x10170f400, err=0x7fff5fbf9b8c, rslt=0x7fff5fbf9b20) at cint/cint/src/pause.cxx:3125
#27 0x0000000100104422 in TCint::ProcessLine (this=0x10170f3d0, line=0x1017efda8 ".X /Users/ralfk/Panda/fairsoft/tools/root/etc/plugins/TFile/P110_THDFSFile. C ", error=0x7fff5fbfcae4) at core/meta/src/TCint.cxx:419
#28 0x00000001001048d4 in TCint::ProcessLineSynch (this=0x10170f3d0, line=0x1017efda8 ".X /Users/ralfk/Panda/fairsoft/tools/root/etc/plugins/TFile/P110_THDFSFile. C ", error=0x7fff5fbfcae4) at core/meta/src/TCint.cxx:486
#29 0x000000010000bba3 in TApplication::ExecuteFile (file=0x7fff5fbfaa93 "runMvdReco.C", error=0x7fff5fbfcae4, keep=false) at core/base/src/TApplication.cxx:976
#30 0x000000010000bd12 in TApplication::ProcessFile (this=0x1017ee4f0, file=0x7fff5fbfaa93 "runMvdReco.C", error=0x7fff5fbfcae4, keep=false) at core/base/src/TApplication.cxx:852
#31 0x000000010000b2b6 in TApplication::ProcessLine (this=0x1017ee4f0, line=0x7fff5fbfaa90 ".x runMvdReco.C", sync=false, err=0x7fff5fbfcae4) at core/base/src/TApplication.cxx:825
#32 0x0000000101586d73 in TRint::Run (this=0x1017ee4f0, retrn=false) at core/rint/src/TRint.cxx:404
#33 0x000000010000193a in main (argc=1, argv=0x7fff5fbfcb8) at main/src/rmain.cxx:29 (gdb)

Thanks for any help here, Ralf.
