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Subject: Bug in base I/O?

Posted by [StefanoSpataro](#) on Wed, 05 May 2010 16:20:21 GMT

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Dear all,

I would like to report about the problem I have trying to plot variables from the root shell, or from the TBrowser.

I can run a simple simulation macro, i.e. macro/mdt/sim\_muon.C, and open the output root file test.root.

Once I open test.root, I can open a TBrowser and try to plot MCTrack variables, such as MCTrack.fPz or MCTrack.GetMomentum().Pz(), everything works. I can try also to write the commands in a shell:

```
root [2] cbmsim.Draw("MCTrack.fPz")
root [3] cbmsim.Draw("MCTrack.GetMomentum().fZ")
root [4] cbmsim.Draw("MCTrack.GetMomentum().Pz()")
```

They work.

I can try to do the same with MdtHit TCA, a TClonesArray made of PndMdtPoint inheriting from FairMCPPoint<-FairBasePoint<-FairMultiLinkedData<-FairLinkedData<-TObject.

I can plot MdtPoint.fX, fine, but when I try to plot something using functions, i.e. MdtPoint.GetSector(), I have the following crash:

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```
root [2] <TCanvas::MakeDefCanvas>: created default TCanvas with name c1
```

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

```
=====
There was a crash (#7 0x009793b0 in SigHandler ()).
```

```
This is the entire stack trace of all threads:
```

```
=====
#0 0x0075f7a2 in _dl_sysinfo_int80 () from /lib/ld-linux.so.2
#1 0x03a6ef13 in __waitpid_nocancel () from /lib/tls/libc.so.6
#2 0x03a187b9 in do_system () from /lib/tls/libc.so.6
#3 0x0072b98d in system () from /lib/tls/libpthread.so.0
#4 0x00976c87 in TUnixSystem::Exec ()
   from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#5 0x0097cb66 in TUnixSystem::StackTrace ()
   from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#6 0x00979322 in TUnixSystem::DispatchSignals ()
   from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#7 0x009793b0 in SigHandler ()
   from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#8 0x0097862d in sighandler ()
   from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
```

#9 <signal handler called>  
#10 0x0173aee0 in TBufferFile::ReadInt ()  
    from /home/spataro/jan10/tools/root/lib/libRIO.so  
#11 0x017f21e3 in TStreamerInfo::ReadBuffer<char\*\*> ()  
    from /home/spataro/jan10/tools/root/lib/libRIO.so  
#12 0x0177ba09 in TStreamerInfo::ReadBufferClones ()  
    from /home/spataro/jan10/tools/root/lib/libRIO.so  
#13 0x018e89e8 in TBranchElement::ReadLeaves ()  
    from /home/spataro/jan10/tools/root/lib/libTree.so  
#14 0x018e2a14 in TBranch::GetEntry ()  
    from /home/spataro/jan10/tools/root/lib/libTree.so  
#15 0x018e4da7 in TBranchElement::GetEntry ()  
    from /home/spataro/jan10/tools/root/lib/libTree.so  
#16 0x018e4d43 in TBranchElement::GetEntry ()  
    from /home/spataro/jan10/tools/root/lib/libTree.so  
#17 0x04429c0e in TTreeFormula::ParseWithLeaf ()  
    from /home/spataro/jan10/tools/root/lib/libTreePlayer.so  
#18 0x04430e8e in TTreeFormula::DefinedVariable ()  
    from /home/spataro/jan10/tools/root/lib/libTreePlayer.so  
#19 0x01169fc7 in TFormula::Analyze ()  
    from /home/spataro/jan10/tools/root/lib/libHist.so  
#20 0x011790bf in TFormula::Compile ()  
    from /home/spataro/jan10/tools/root/lib/libHist.so  
#21 0x0441db14 in TTreeFormula::Init ()  
    from /home/spataro/jan10/tools/root/lib/libTreePlayer.so  
#22 0x0442c6d7 in TTreeFormula::TTreeFormula ()  
    from /home/spataro/jan10/tools/root/lib/libTreePlayer.so  
#23 0x0441ad59 in TSelectorDraw::CompileVariables ()  
    from /home/spataro/jan10/tools/root/lib/libTreePlayer.so  
#24 0x04413cf0 in TSelectorDraw::Begin ()  
    from /home/spataro/jan10/tools/root/lib/libTreePlayer.so  
#25 0x0443f858 in TTreePlayer::Process ()  
    from /home/spataro/jan10/tools/root/lib/libTreePlayer.so  
#26 0x04439a7b in TTreePlayer::DrawSelect ()  
    from /home/spataro/jan10/tools/root/lib/libTreePlayer.so  
#27 0x0193286f in TTree::Draw ()  
    from /home/spataro/jan10/tools/root/lib/libTree.so  
#28 0x018d85bb in TVirtualBranchBrowsable::Browse ()  
    from /home/spataro/jan10/tools/root/lib/libTree.so  
#29 0x0216eeb4 in TRootBrowserLite::IconBoxAction ()  
    from /home/spataro/jan10/tools/root/lib/libGui.so  
#30 0x021703cb in TRootBrowserLite::ProcessMessage ()  
    from /home/spataro/jan10/tools/root/lib/libGui.so  
#31 0x020acdfc in TGFrame::HandleClientMessage ()  
    from /home/spataro/jan10/tools/root/lib/libGui.so  
#32 0x020b0302 in TGMainFrame::HandleClientMessage ()  
    from /home/spataro/jan10/tools/root/lib/libGui.so  
#33 0x020ac9b0 in TGFrame::HandleEvent ()  
    from /home/spataro/jan10/tools/root/lib/libGui.so  
#34 0x020789d7 in TGClient::HandleEvent ()  
    from /home/spataro/jan10/tools/root/lib/libGui.so  
#35 0x02078af1 in TGClient::ProcessOneEvent ()

```
from /home/spataro/jan10/tools/root/lib/libGui.so
#36 0x02078ba2 in TGClient::HandleInput ()
  from /home/spataro/jan10/tools/root/lib/libGui.so
#37 0x02078bd6 in TGInputHandler::Notify ()
  from /home/spataro/jan10/tools/root/lib/libGui.so
#38 0x00979740 in TUnixSystem::DispatchOneEvent ()
  from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#39 0x008f3bfc in TSystem::InnerLoop ()
  from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#40 0x008f39c3 in TSystem::Run ()
  from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#41 0x00897c1e in TApplication::Run ()
  from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#42 0x006d15a6 in TRint::Run ()
  from /home/spataro/jan10/tools/root/lib/libRint.so.5.26
#43 0x08048d5a in main ()
```

=====  
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 0x0173aee0 in TBufferFile::ReadInt ()
  from /home/spataro/jan10/tools/root/lib/libRIO.so
#11 0x017f21e3 in TStreamerInfo::ReadBuffer<char**> ()
  from /home/spataro/jan10/tools/root/lib/libRIO.so
#12 0x0177ba09 in TStreamerInfo::ReadBufferClones ()
  from /home/spataro/jan10/tools/root/lib/libRIO.so
#13 0x018e89e8 in TBranchElement::ReadLeaves ()
  from /home/spataro/jan10/tools/root/lib/libTree.so
#14 0x018e2a14 in TBranch::GetEntry ()
  from /home/spataro/jan10/tools/root/lib/libTree.so
#15 0x018e4da7 in TBranchElement::GetEntry ()
  from /home/spataro/jan10/tools/root/lib/libTree.so
#16 0x018e4d43 in TBranchElement::GetEntry ()
  from /home/spataro/jan10/tools/root/lib/libTree.so
#17 0x04429c0e in TTreeFormula::ParseWithLeaf ()
  from /home/spataro/jan10/tools/root/lib/libTreePlayer.so
#18 0x04430e8e in TTreeFormula::DefinedVariable ()
  from /home/spataro/jan10/tools/root/lib/libTreePlayer.so
#19 0x01169fc7 in TFormula::Analyze ()
  from /home/spataro/jan10/tools/root/lib/libHist.so
#20 0x011790bf in TFormula::Compile ()
  from /home/spataro/jan10/tools/root/lib/libHist.so
#21 0x0441db14 in TTreeFormula::Init ()
  from /home/spataro/jan10/tools/root/lib/libTreePlayer.so
#22 0x0442c6d7 in TTreeFormula::TTreeFormula ()
  from /home/spataro/jan10/tools/root/lib/libTreePlayer.so
#23 0x0441ad59 in TSelectorDraw::CompileVariables ()
```

```

from /home/spataro/jan10/tools/root/lib/libTreePlayer.so
#24 0x04413cf0 in TSelectorDraw::Begin ()
  from /home/spataro/jan10/tools/root/lib/libTreePlayer.so
#25 0x0443f858 in TTreePlayer::Process ()
  from /home/spataro/jan10/tools/root/lib/libTreePlayer.so
#26 0x04439a7b in TTreePlayer::DrawSelect ()
  from /home/spataro/jan10/tools/root/lib/libTreePlayer.so
#27 0x0193286f in TTree::Draw ()
  from /home/spataro/jan10/tools/root/lib/libTree.so
#28 0x018d85bb in TVirtualBranchBrowsable::Browse ()
  from /home/spataro/jan10/tools/root/lib/libTree.so
#29 0x0216eeb4 in TRootBrowserLite::IconBoxAction ()
  from /home/spataro/jan10/tools/root/lib/libGui.so
#30 0x021703cb in TRootBrowserLite::ProcessMessage ()
  from /home/spataro/jan10/tools/root/lib/libGui.so
#31 0x020acdfe in TGFrame::HandleClientMessage ()
  from /home/spataro/jan10/tools/root/lib/libGui.so
#32 0x020b0302 in TGMainFrame::HandleClientMessage ()
  from /home/spataro/jan10/tools/root/lib/libGui.so
#33 0x020ac9b0 in TGFrame::HandleEvent ()
  from /home/spataro/jan10/tools/root/lib/libGui.so
#34 0x020789d7 in TGClient::HandleEvent ()
  from /home/spataro/jan10/tools/root/lib/libGui.so
#35 0x02078af1 in TGClient::ProcessOneEvent ()
  from /home/spataro/jan10/tools/root/lib/libGui.so
#36 0x02078ba2 in TGClient::HandleInput ()
  from /home/spataro/jan10/tools/root/lib/libGui.so
#37 0x02078bd6 in TGInputHandler::Notify ()
  from /home/spataro/jan10/tools/root/lib/libGui.so
#38 0x00979740 in TUnixSystem::DispatchOneEvent ()
  from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#39 0x008f3bfc in TSystem::InnerLoop ()
  from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#40 0x008f39c3 in TSystem::Run ()
  from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#41 0x00897c1e in TApplication::Run ()
  from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#42 0x006d15a6 in TRint::Run ()
  from /home/spataro/jan10/tools/root/lib/libRint.so.5.26
#43 0x08048d5a in main ()
=====

```

Root >

Considering that MCTrack is not inheriting from the FairXXXLinkData, and that I have the problem with all the objects inheriting from that class, and that before the link implementation I was able to plot everything fine (mdt code is not touched since a while), I would think it is a problem of this Link implementation. But it can be also that the problem comes from some "base" implementation different from the Link.

I have tried with different data objects and I found always the same crash. If one wants to plot something like theta or momentum which come from functions, it is quite... nasty.

I would call for some help from base developers.

Many thanks

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Subject: Re: Bug in base I/O?

Posted by [Radoslaw Karabowicz](#) on Thu, 06 May 2010 09:03:22 GMT

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Dear Stefano, what machine are you using? I do not see a problem like you reported neither on MAC nor on LINUX. In the root I can do whatever I like:

```
root [2] cbmsim->Draw("MCTrack.GetMomentum().Pz()")
<TCanvas::MakeDefCanvas>: created default TCanvas with name c1
root [3] cbmsim->Draw("MCTrack.GetMomentum().Pz()", "")
(Long64_t)13
root [4] cbmsim->Draw("MdtPoint.GetSector()", "")
(Long64_t)100
root [5] cbmsim->Draw("MdtPoint.GetModule()", "")
(Long64_t)100
root [6] cbmsim->Draw("MdtPoint.fX", "")
(Long64_t)100
root [7] cbmsim->Draw("MdtPoint.GetModule()", "")
(Long64_t)100
root [8]
```

yours,  
radek

ps. what pandaroot version are you using?

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Subject: Re: Bug in base I/O?

Posted by [Stefano Spataro](#) on Thu, 06 May 2010 09:59:43 GMT

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Hi,  
I am using the last svn version, clean installation.

I have tried in my PC, SL4.7 gcc 3.4.6, and also at GSI, lxg0442 machine, normal etch32, gcc 4.1.2.

SL 4.7:

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```
[spataro@hal mdt]$ rt test.root
- RTDB container factory FairBaseContFact
```

- RTDB container factory PndSensorNameContFact
- RTDB container factory PndFieldContFact
- RTDB container factory PndPassiveContFact

PSaid instance created... access via gSaid->f()

- RTDB container factory PndEmcContFact
  - RTDB container factory PndTpcContFact
- Warning in <TClassTable::Add>: class PndSttTrack already in TClassTable
- RTDB container factory PndSttContFact
  - RTDB container factory PndSdsContFact
  - RTDB container factory PndMvdContFact
  - RTDB container factory PndGemContFact
  - RTDB container factory PndTofContFact
  - RTDB container factory PndDrcContFact
  - RTDB container factory PndMdtContFact
  - RTDB container factory PndDchContFact
  - RTDB container factory PndLheContFact
  - RTDB container factory PndRpcContFact
  - RTDB container factory PndLumiContFact
  - RTDB container factory PndPidContFact

(int)0

root [0]

Attaching file test.root as \_file0...

root [1] cbmsim->Draw("MdtPoint.GetModule()", "")

\*\*\* Break \*\*\* segmentation violation

=====  
 There was a crash (#7 0x009c93b0 in SigHandler ()).

This is the entire stack trace of all threads:

=====  
 #0 0x0075f7a2 in \_dl\_sysinfo\_int80 () from /lib/ld-linux.so.2  
 #1 0x04740f13 in \_\_waitpid\_nocancel () from /lib/tls/libc.so.6  
 #2 0x046ea7b9 in do\_system () from /lib/tls/libc.so.6  
 #3 0x0072b98d in system () from /lib/tls/libpthread.so.0  
 #4 0x009c6c87 in TUnixSystem::Exec ()  
   from /home/spataro/jan10/tools/root/lib/libCore.so.5.26  
 #5 0x009ccb66 in TUnixSystem::StackTrace ()  
   from /home/spataro/jan10/tools/root/lib/libCore.so.5.26  
 #6 0x009c9322 in TUnixSystem::DispatchSignals ()  
   from /home/spataro/jan10/tools/root/lib/libCore.so.5.26  
 #7 0x009c93b0 in SigHandler ()  
   from /home/spataro/jan10/tools/root/lib/libCore.so.5.26  
 #8 0x009c862d in sighandler ()  
   from /home/spataro/jan10/tools/root/lib/libCore.so.5.26  
 #9 <signal handler called>  
 #10 0x0138aee0 in TBufferFile::ReadInt ()  
   from /home/spataro/jan10/tools/root/lib/libRIO.so  
 #11 0x014421e3 in TStreamerInfo::ReadBuffer<char\*\*> ()

from /home/spataro/jan10/tools/root/lib/libRIO.so  
#12 0x013cba09 in TStreamerInfo::ReadBufferClones ()  
from /home/spataro/jan10/tools/root/lib/libRIO.so  
#13 0x049499e8 in TBranchElement::ReadLeaves ()  
from /home/spataro/jan10/tools/root/lib/libTree.so  
#14 0x04943a14 in TBranch::GetEntry ()  
from /home/spataro/jan10/tools/root/lib/libTree.so  
#15 0x04945da7 in TBranchElement::GetEntry ()  
from /home/spataro/jan10/tools/root/lib/libTree.so  
#16 0x04945d43 in TBranchElement::GetEntry ()  
from /home/spataro/jan10/tools/root/lib/libTree.so  
#17 0x03c10c0e in TTreeFormula::ParseWithLeaf ()  
from /home/spataro/jan10/tools/root/lib/libTreePlayer.so  
#18 0x03c17e8e in TTreeFormula::DefinedVariable ()  
from /home/spataro/jan10/tools/root/lib/libTreePlayer.so  
#19 0x062cffc7 in TFormula::Analyze ()  
from /home/spataro/jan10/tools/root/lib/libHist.so  
#20 0x062df0bf in TFormula::Compile ()  
from /home/spataro/jan10/tools/root/lib/libHist.so  
#21 0x03c04b14 in TTreeFormula::Init ()  
from /home/spataro/jan10/tools/root/lib/libTreePlayer.so  
#22 0x03c136d7 in TTreeFormula::TTreeFormula ()  
from /home/spataro/jan10/tools/root/lib/libTreePlayer.so  
#23 0x03c01d59 in TSelectorDraw::CompileVariables ()  
from /home/spataro/jan10/tools/root/lib/libTreePlayer.so  
#24 0x03bfac0 in TSelectorDraw::Begin ()  
from /home/spataro/jan10/tools/root/lib/libTreePlayer.so  
#25 0x03c26858 in TTreePlayer::Process ()  
from /home/spataro/jan10/tools/root/lib/libTreePlayer.so  
#26 0x03c20a7b in TTreePlayer::DrawSelect ()  
from /home/spataro/jan10/tools/root/lib/libTreePlayer.so  
#27 0x0499386f in TTree::Draw ()  
from /home/spataro/jan10/tools/root/lib/libTree.so  
#28 0x049bce47 in G\_\_G\_\_Tree\_109\_0\_41 ()  
from /home/spataro/jan10/tools/root/lib/libTree.so  
#29 0x0014f1d3 in Cint::G\_\_ExceptionWrapper ()  
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26  
#30 0x001e7aa0 in G\_\_execute\_call ()  
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26  
#31 0x001e7db2 in G\_\_call\_cppfunc ()  
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26  
#32 0x001c98f3 in G\_\_interpret\_func ()  
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26  
#33 0x001b5f28 in G\_\_getfunction ()  
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26  
#34 0x0029f339 in G\_\_getstructmem ()  
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26  
#35 0x00296f76 in G\_\_getvariable ()  
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26  
#36 0x00198ee6 in G\_\_getitem ()  
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26  
#37 0x00199485 in G\_\_getitem ()

```
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26
#38 0x0019d089 in G__getexpr ()
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26
#39 0x0021b3ed in G__exec_statement ()
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26
#40 0x00186854 in G__exec_tempfile_core ()
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26
#41 0x00187bb7 in G__exec_tempfile_fp ()
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26
#42 0x0022533b in G__process_cmd ()
from /home/spataro/jan10/tools/root/lib/libCint.so.5.26
#43 0x009b4b57 in TCint::ProcessLine ()
from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#44 0x008e7a62 in TApplication::ProcessLine ()
from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#45 0x006d2d9f in TRint::HandleTermInput ()
from /home/spataro/jan10/tools/root/lib/libRint.so.5.26
#46 0x006d0cc0 in TTermInputHandler::Notify ()
from /home/spataro/jan10/tools/root/lib/libRint.so.5.26
#47 0x006d36be in TTermInputHandler::ReadNotify ()
from /home/spataro/jan10/tools/root/lib/libRint.so.5.26
#48 0x009c55a6 in TUnixSystem::CheckDescriptors ()
from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#49 0x009c97f8 in TUnixSystem::DispatchOneEvent ()
from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#50 0x00943bfc in TSystem::InnerLoop ()
from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#51 0x009439c3 in TSystem::Run ()
from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#52 0x008e7c1e in TApplication::Run ()
from /home/spataro/jan10/tools/root/lib/libCore.so.5.26
#53 0x006d15a6 in TRint::Run ()
from /home/spataro/jan10/tools/root/lib/libRint.so.5.26
#54 0x08048d5a in main ()
=====
```

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 0x0138aee0 in TBufferFile::ReadInt ()
from /home/spataro/jan10/tools/root/lib/libRIO.so
#11 0x014421e3 in TStreamerInfo::ReadBuffer<char**> ()
from /home/spataro/jan10/tools/root/lib/libRIO.so
#12 0x013cba09 in TStreamerInfo::ReadBufferClones ()
from /home/spataro/jan10/tools/root/lib/libRIO.so
#13 0x049499e8 in TBranchElement::ReadLeaves ()
from /home/spataro/jan10/tools/root/lib/libTree.so
#14 0x04943a14 in TBranch::GetEntry ()
```

```

from /home/spataro/jan10/tools/root/lib/libTree.so
#15 0x04945da7 in TBranchElement::GetEntry ()
  from /home/spataro/jan10/tools/root/lib/libTree.so
#16 0x04945d43 in TBranchElement::GetEntry ()
  from /home/spataro/jan10/tools/root/lib/libTree.so
#17 0x03c10c0e in TTreeFormula::ParseWithLeaf ()
  from /home/spataro/jan10/tools/root/lib/libTreePlayer.so
#18 0x03c17e8e in TTreeFormula::DefinedVariable ()
  from /home/spataro/jan10/tools/root/lib/libTreePlayer.so
#19 0x062cfc7 in TFormula::Analyze ()
  from /home/spataro/jan10/tools/root/lib/libHist.so
#20 0x062df0bf in TFormula::Compile ()
  from /home/spataro/jan10/tools/root/lib/libHist.so
#21 0x03c04b14 in TTreeFormula::Init ()
  from /home/spataro/jan10/tools/root/lib/libTreePlayer.so
#22 0x03c136d7 in TTreeFormula::TTreeFormula ()
  from /home/spataro/jan10/tools/root/lib/libTreePlayer.so
#23 0x03c01d59 in TSelectorDraw::CompileVariables ()
  from /home/spataro/jan10/tools/root/lib/libTreePlayer.so
#24 0x03bfac0 in TSelectorDraw::Begin ()
  from /home/spataro/jan10/tools/root/lib/libTreePlayer.so
#25 0x03c26858 in TTreePlayer::Process ()
  from /home/spataro/jan10/tools/root/lib/libTreePlayer.so
#26 0x03c20a7b in TTreePlayer::DrawSelect ()
  from /home/spataro/jan10/tools/root/lib/libTreePlayer.so
#27 0x0499386f in TTree::Draw ()
  from /home/spataro/jan10/tools/root/lib/libTree.so
=====

```

Root >

etch32:

Toggle Spoiler

\$ rt test.root

- RTDB container factory FairBaseContFact
- RTDB container factory PndSensorNameContFact
- RTDB container factory PndFieldContFact
- RTDB container factory PndPassiveContFact

PSaid instance created... access via gSaid->f()

- RTDB container factory PndEmcContFact
  - RTDB container factory PndTpcContFact
- Warning in <TClassTable::Add>: class PndSttTrack already in TClassTable
- RTDB container factory PndSttContFact
  - RTDB container factory PndSdsContFact
  - RTDB container factory PndMvdContFact
  - RTDB container factory PndGemContFact
  - RTDB container factory PndTofContFact

- RTDB container factory PndDrcContFact
- RTDB container factory PndMdtContFact
- RTDB container factory PndDchContFact
- RTDB container factory PndLheContFact
- RTDB container factory PndRpcContFact
- RTDB container factory PndLumiContFact
- RTDB container factory PndPidContFact

(int)0

root [0]

Attaching file test.root as \_file0...

root [1] cbmsim.Draw("MdtPoint.GetModule()")

\*\*\* Break \*\*\* segmentation violation

=====  
There was a crash (kSigSegmentationViolation).

This is the entire stack trace of all threads:

=====  
#0 0xffffe410 in \_\_kernel\_vsyscall ()  
#1 0xb6cb22f3 in waitpid () from /lib/tls/i686/cmov/libc.so.6  
#2 0xb6c5a669 in strtold\_l () from /lib/tls/i686/cmov/libc.so.6  
#3 0xb6d61add in system () from /lib/tls/i686/cmov/libpthread.so.0  
#4 0xb7995c0b in TUnixSystem::Exec (this=0x81017a8,  
  shellcmd=0x8d05ef8 "/misc/cbmssoft/Etch32/jan10/fairsoft/tools/root/etc/gdb-backtrace.sh  
6847 1>&2") at core/unix/src/TUnixSystem.cxx:1978  
#5 0xb7994f42 in TUnixSystem::StackTrace (this=0x81017a8) at  
  core/unix/src/TUnixSystem.cxx:2188  
#6 0xb799812a in TUnixSystem::DispatchSignals (this=0x81017a8,  
  sig=kSigSegmentationViolation) at core/unix/src/TUnixSystem.cxx:1106  
#7 0xb7998257 in SigHandler (sig=kSigSegmentationViolation) at  
  core/unix/src/TUnixSystem.cxx:350  
#8 0xb798e024 in sighandler (sig=11) at core/unix/src/TUnixSystem.cxx:3428  
#9 <signal handler called>  
#10 0xb788ebdd in frombuf (buf=  
  0x8d0556c, x=0x8d35616) at include/Bytes.h:314  
#11 0xb78db954 in frombuf (buf=  
  0x8d0556c, x=0x8d35616) at include/Bytes.h:446  
#12 0xb6954645 in TBufferFile::ReadInt (this=0x8d05550, i=  
  0x8d35616) at include/TBufferFile.h:442  
#13 0xb7872249 in operator>> (buf=  
  0x8d05550, i=  
  0x8d35616) at include/TBuffer.h:305  
#14 0xb6a577b4 in TStreamerInfo::ReadBuffer<char\*\*> (this=0x8a4a8e8, b=  
  0x8d05550, arr=  
  0xbfc3fd50, first=1, narr=11, eoffset=99999, arrayMode=1)  
  at io/io/src/TStreamerInfoReadBuffer.cxx:756  
#15 0xb69a8c3b in TStreamerInfo::ReadBufferClones (this=0x8a4a8e8, b=  
  0x8d05550, clones=0x8c41420, nc=11, first=1, eoffset=99999)  
  at io/io/src/TStreamerInfoReadBuffer.cxx:1790  
#16 0xb56f0f85 in TBranchElement::ReadLeaves (this=0x8bebbe8, b=

```

0x8d05550) at tree/tree/src/TBranchElement.cxx:3232
#17 0xb56e70da in TBranch::GetEntry (this=0x8bebbe8, entry=0, getall=0) at
tree/tree/src/TBranch.cxx:1204
#18 0xb56ee7b4 in TBranchElement::GetEntry (this=0x8bebbe8, entry=0, getall=0) at
tree/tree/src/TBranchElement.cxx:1885
#19 0xb56ee6ea in TBranchElement::GetEntry (this=0x8beae88, entry=0, getall=0) at
tree/tree/src/TBranchElement.cxx:1868
#20 0xb20e5d1c in R__LoadBranch (br=0x8beae88, entry=0, quickLoad=false) at
tree/treeplayer/src/TTreeFormula.cxx:98
#21 0xb20f67ff in TTreeFormula::ParseWithLeaf (this=0x8c12738, leaf=0x8beb528,
subExpression=0x8d02470 "GetModule().", final=true,
    paran_level=0, castqueue=
0xbfc41294, useLeafCollectionObject=false, fullExpression=0x8c27258
"MdtPoint.GetModule()")
    at tree/treeplayer/src/TTreeFormula.cxx:1284
#22 0xb20ff15d in TTreeFormula::DefinedVariable (this=0x8c12738, name=
0xbfc41604, action=
0xbfc415e8)
    at tree/treeplayer/src/TTreeFormula.cxx:2899
#23 0xb5ea09c5 in TFormula::Analyze (this=0x8c12738, schain=0x8c1e560
"MdtPoint.GetModule()", err=
0xbfc4239c, offset=0)
    at hist/hist/src/TFormula.cxx:1333
#24 0xb5e9ac90 in TFormula::Compile (this=0x8c12738, expression=0x8c12550
"MdtPoint.GetModule()") at hist/hist/src/TFormula.cxx:2322
#25 0xb20fc0c7 in TTreeFormula::Init (this=0x8c12738, name=0xb7e9d785 "Var1",
expression=0x8c12550 "MdtPoint.GetModule()")
    at tree/treeplayer/src/TTreeFormula.cxx:210
#26 0xb20fcf30 in TTreeFormula (this=0x8c12738, name=0xb7e9d785 "Var1",
expression=0x8c12550 "MdtPoint.GetModule()", tree=0x850afc8)
    at tree/treeplayer/src/TTreeFormula.cxx:165
#27 0xb20dbc68 in TSelectorDraw::CompileVariables (this=0x8ae7720, varexp=0x8c12498
"MdtPoint.GetModule()", selection=0xb7e9e738 "")
    at tree/treeplayer/src/TSelectorDraw.cxx:947
#28 0xb20dd644 in TSelectorDraw::Begin (this=0x8ae7720, tree=0x850afc8) at
tree/treeplayer/src/TSelectorDraw.cxx:455
#29 0xb211019c in TTreePlayer::Process (this=0x850a280, selector=0x8ae7720,
option=0xb581da80 "", nentries=10, firstentry=0)
    at tree/treeplayer/src/TTreePlayer.cxx:2737
#30 0xb211905f in TTreePlayer::DrawSelect (this=0x850a280, varexp0=0x8508c84
"MdtPoint.GetModule()", selection=0xb581da80 "",
    option=0xb581da80 "", nentries=1000000000, firstentry=0) at
tree/treeplayer/src/TTreePlayer.cxx:1073
#31 0xb574e832 in TTree::Draw (this=0x850afc8, varexp=0x8508c84 "MdtPoint.GetModule()",
selection=0xb581da80 "", option=0xb581da80 "",
    nentries=1000000000, firstentry=0) at tree/tree/src/TTree.cxx:3442
#32 0xb5731191 in TTree::Draw (this=0x850afc8, opt=0x8508c84 "MdtPoint.GetModule()") at
include/TTree.h:259
#33 0xb7b13c53 in G__G__Base2_10_0_15 () from
/misc/cbmssoft/Etch32/jan10/fairsoft/tools/root/lib/libCore.so.5.26
#34 0xb715230c in Cint::G__ExceptionWrapper (funcp=0xb7b13bf0
<G__G__Base2_10_0_15(G__value*, char const*, G__param*, int)>, result7=0xbfc4e590,

```

funcname=0x8aa5b38 "\001", libp=0xbfc43f4c, hash=0) at cint/cint/src/Api.cxx:385  
 #35 0xb72295a7 in G\_\_execute\_call (result7=0xbfc4e590, libp=0xbfc43f4c, ifunc=0x8aa5b38, ifn=0) at cint/cint/src/newlink.cxx:2332  
 #36 0xb722ef2e in G\_\_call\_cppfunc (result7=0xbfc4e590, libp=0xbfc43f4c, ifunc=0x8aa5b38, ifn=0) at cint/cint/src/newlink.cxx:2518  
 #37 0xb71e8f1b in G\_\_interpret\_func (result7=0xbfc4e590, funcname=0x8138cd0 "Draw", libp=0xbfc43f4c, hash=398, p\_ifunc=0x8aa5b38, funcmatch=1, memfunc\_flag=1) at cint/cint/src/ifunc.cxx:5240  
 #38 0xb71d7e17 in G\_\_getfunction (item=0x8082268 "Draw(\"MdtPoint.GetModule()\")", known3=0xbfc5201c, memfunc\_flag=1) at cint/cint/src/func.cxx:2423  
 #39 0xb72d937f in G\_\_getstructmem (store\_var\_type=112, varname=0x805fea0 "\_file0", membername=0x8082268 "Draw(\"MdtPoint.GetModule()\")", tagname=0x8082260 "\$cbmsim", known2=0xbfc5201c, varglobal=0xb73a8460, objptr=1) at cint/cint/src/var.cxx:6591  
 #40 0xb72cb561 in G\_\_getvariable (item=0x8509508 "\$cbmsim.Draw(\"MdtPoint.GetModule()\")", known=0xbfc5201c, varglobal=0xb73a8460, varlocal=0x0) at cint/cint/src/var.cxx:5207  
 #41 0xb71b073c in G\_\_getitem (item=0x8509508 "\$cbmsim.Draw(\"MdtPoint.GetModule()\")") at cint/cint/src/expr.cxx:1882  
 #42 0xb71b0a51 in G\_\_getitem (item=0x8061e38 "cbmsim.Draw(\"MdtPoint.GetModule()\")") at cint/cint/src/expr.cxx:1941  
 #43 0xb71bebb9 in G\_\_getexpr (expression=0x805a5a0 "cbmsim.Draw(\"MdtPoint.GetModule()\")") at cint/cint/src/expr.cxx:1464  
 #44 0xb72413f6 in G\_\_exec\_function (statement=0xbfc54958, pc=0xbfc5496c, piout=0xbfc54968, plargestep=0xbfc54960, presult=0xbfc548f0) at cint/cint/src/parse.cxx:643  
 #45 0xb7247609 in G\_\_exec\_statement (mparen=0xbfc5bc28) at cint/cint/src/parse.cxx:7083  
 #46 0xb71981b9 in G\_\_exec\_tempfile\_core (file=0x0, fp=0x85093a0) at cint/cint/src/debug.cxx:250  
 #47 0xb7198427 in G\_\_exec\_tempfile\_fp (fp=0x85093a0) at cint/cint/src/debug.cxx:791  
 #48 0xb725ae2b in G\_\_process\_cmd (line=0x8509368 "cbmsim.Draw(\"MdtPoint.GetModule()\")", prompt=0x810417c "", more=0x8104174, err=0xbfc5d944, rslt=0xbfc5d910) at cint/cint/src/pause.cxx:3280  
 #49 0xb797f902 in TCint::ProcessLine (this=0x8104158, line=0x8509368 "cbmsim.Draw(\"MdtPoint.GetModule()\")", error=0x0) at core/meta/src/TCint.cxx:419  
 #50 0xb787797e in TApplication::ProcessLine (this=0x81320c8, line=0x8509368 "cbmsim.Draw(\"MdtPoint.GetModule()\")", sync=false, err=0x0) at core/base/src/TApplication.cxx:845  
 #51 0xb6ead280 in TRint::HandleTermlInput (this=0x81320c8) at core/rint/src/TRint.cxx:566  
 #52 0xb6eacabe in TTermlInputHandler::Notify (this=0x8142c18) at core/rint/src/TRint.cxx:128  
 #53 0xb6eb047e in TTermlInputHandler::ReadNotify (this=0x8142c18) at core/rint/src/TRint.cxx:120  
 #54 0xb7997507 in TUnixSystem::CheckDescriptors (this=0x81017a8) at core/unix/src/TUnixSystem.cxx:1208  
 #55 0xb7997c88 in TUnixSystem::DispatchOneEvent (this=0x81017a8, pendingOnly=false) at core/unix/src/TUnixSystem.cxx:915  
 #56 0xb78ea1e1 in TSystem::InnerLoop (this=0x81017a8) at core/base/src/TSystem.cxx:393  
 #57 0xb78f8640 in TSystem::Run (this=0x81017a8) at core/base/src/TSystem.cxx:343

```
#58 0xb7872f80 in TApplication::Run (this=0x81320c8, retn=false) at
core/base/src/TApplication.cxx:993
#59 0xb6eae2b7 in TRint::Run (this=0x81320c8, retn=false) at core/rint/src/TRint.cxx:438
#60 0x08048e09 in main (argc=1, argv=0xbfc5fe24) 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.

```
=====
#10 0xb788ebdd in frombuf (buf=
0x8d0556c, x=0x8d35616) at include/Bytes.h:314
#11 0xb78db954 in frombuf (buf=
0x8d0556c, x=0x8d35616) at include/Bytes.h:446
#12 0xb6954645 in TBufferFile::ReadInt (this=0x8d05550, i=
0x8d35616) at include/TBufferFile.h:442
#13 0xb7872249 in operator>> (buf=
0x8d05550, i=
0x8d35616) at include/TBuffer.h:305
#14 0xb6a577b4 in TStreamerInfo::ReadBuffer<char**> (this=0x8a4a8e8, b=
0x8d05550, arr=
0xbfc3fd50, first=1, narr=11, eoffset=99999, arrayMode=1)
  at io/io/src/TStreamerInfoReadBuffer.cxx:756
#15 0xb69a8c3b in TStreamerInfo::ReadBufferClones (this=0x8a4a8e8, b=
0x8d05550, clones=0x8c41420, nc=11, first=1, eoffset=99999)
  at io/io/src/TStreamerInfoReadBuffer.cxx:1790
#16 0xb56f0f85 in TBranchElement::ReadLeaves (this=0x8bebbe8, b=
0x8d05550) at tree/tree/src/TBranchElement.cxx:3232
#17 0xb56e70da in TBranch::GetEntry (this=0x8bebbe8, entry=0, getall=0) at
tree/tree/src/TBranch.cxx:1204
#18 0xb56ee7b4 in TBranchElement::GetEntry (this=0x8bebbe8, entry=0, getall=0) at
tree/tree/src/TBranchElement.cxx:1885
#19 0xb56ee6ea in TBranchElement::GetEntry (this=0x8beae88, entry=0, getall=0) at
tree/tree/src/TBranchElement.cxx:1868
#20 0xb20e5d1c in R__LoadBranch (br=0x8beae88, entry=0, quickLoad=false) at
tree/treeplayer/src/TTreeFormula.cxx:98
#21 0xb20f67ff in TTreeFormula::ParseWithLeaf (this=0x8c12738, leaf=0x8beb528,
subExpression=0x8d02470 "GetModule().)", final=true,
  paran_level=0, castqueue=
0xbfc41294, useLeafCollectionObject=false, fullExpression=0x8c27258
"MdtPoint.GetModule()")
  at tree/treeplayer/src/TTreeFormula.cxx:1284
#22 0xb20ff15d in TTreeFormula::DefinedVariable (this=0x8c12738, name=
0xbfc41604, action=
0xbfc415e8)
  at tree/treeplayer/src/TTreeFormula.cxx:2899
#23 0xb5ea09c5 in TFormula::Analyze (this=0x8c12738, schain=0x8c1e560
"MdtPoint.GetModule()", err=
0xbfc4239c, offset=0)
```

```
at hist/hist/src/TFormula.cxx:1333
#24 0xb5e9ac90 in TFormula::Compile (this=0x8c12738, expression=0x8c12550
"MdtPoint.GetModule()") at hist/hist/src/TFormula.cxx:2322
#25 0xb20fc0c7 in TTreeFormula::Init (this=0x8c12738, name=0xb7e9d785 "Var1",
expression=0x8c12550 "MdtPoint.GetModule()")
at tree/treeplayer/src/TTreeFormula.cxx:210
#26 0xb20fcf30 in TTreeFormula (this=0x8c12738, name=0xb7e9d785 "Var1",
expression=0x8c12550 "MdtPoint.GetModule()", tree=0x850afc8)
at tree/treeplayer/src/TTreeFormula.cxx:165
#27 0xb20dbc68 in TSelectorDraw::CompileVariables (this=0x8ae7720, varexp=0x8c12498
"MdtPoint.GetModule()", selection=0xb7e9e738 "")
at tree/treeplayer/src/TSelectorDraw.cxx:947
#28 0xb20dd644 in TSelectorDraw::Begin (this=0x8ae7720, tree=0x850afc8) at
tree/treeplayer/src/TSelectorDraw.cxx:455
#29 0xb211019c in TTreePlayer::Process (this=0x850a280, selector=0x8ae7720,
option=0xb581da80 "", nentries=10, firstentry=0)
at tree/treeplayer/src/TTreePlayer.cxx:2737
#30 0xb211905f in TTreePlayer::DrawSelect (this=0x850a280, varexp0=0x8508c84
"MdtPoint.GetModule()", selection=0xb581da80 "",
option=0xb581da80 "", nentries=1000000000, firstentry=0) at
tree/treeplayer/src/TTreePlayer.cxx:1073
#31 0xb574e832 in TTree::Draw (this=0x850afc8, varexp=0x8508c84 "MdtPoint.GetModule()",
selection=0xb581da80 "", option=0xb581da80 "",
nentries=1000000000, firstentry=0) at tree/tree/src/TTree.cxx:3442
#32 0xb5731191 in TTree::Draw (this=0x850afc8, opt=0x8508c84 "MdtPoint.GetModule()") at
include/TTree.h:259
=====
```

Root >

In both the cases I have segmentation violations.

Which linux version are you using? As far as I have understood, even Tobias and Ralf can see the same crash. Ralf is able to recover it by playing with rootlogon and open file, but his trick does not work in my case.

---

Subject: Re: Bug in base I/O?

Posted by [Ralf Kliemt](#) on Thu, 06 May 2010 10:29:58 GMT

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Hi,

Running on a Mac keeps me safe, but on the Linux machine I get the same error.  
Just to notify.

Ralf.

Subject: Re: Bug in base I/O?

Posted by [Radoslaw Karabowicz](#) on Thu, 06 May 2010 12:01:27 GMT

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On my MAC (gcc 4.2.1, root 5.26.00) there is no problems at all.  
In GSI I am running on lxi013 (etchnhalf, gcc 4.1.2, root 5.26.00), and here  
I have problems only when I exit root after drawing histograms  
(have to type .q 3 times, and many lines of errors). But still the  
histograms were drawn.

yours  
radek

---

Subject: Re: Bug in base I/O?

Posted by [Radoslaw Karabowicz](#) on Thu, 06 May 2010 12:22:03 GMT

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OOOOKKKK,

I have to get back my previous statements. It is crashing also for me... MOSTLY.  
Both on MAC and on LINUX.

I can only tell, when it does not crashes.

When I plot any variable or function of the MCTrack, and only then  
anything from the MdtPoint, then it DOES NOT crashes.

If I plot a function from MdtPoint immediately after loading the file, it crashes.  
If I plot a function from MdtPoint after plotting a variable from MdtPoint, it crashes.  
If I plot a function from MdtPoint after plotting a variable from MCTrack, it crashes.

I am lost.

yours  
radek

---