
Subject: RIEMANN & LHETRACK fight

Posted by [StefanoSpataro](#) on Thu, 10 Apr 2008 17:48:37 GMT

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Hello dear code developer.

I would like that you take a look into my problem with riemann+lhetrack, because I could not find a clue (up to now).

If you download the last svn release, you can try exactly my macros.

Go to macro/lhetrack, and launch

```
run_sim_tpcmvd.C
run_track_tpcmvd.C
plot_pT.C
```

You will have a nice peak, that's fine. I have tried also at GSI on lxx0442 and it works. Now, please edit run_track_tpcmvd.C, uncomment out the riemann part:

```
PndTpcRiemannTrackingTask* tpcSPR = new PndTpcRiemannTrackingTask();
tpcSPR->SetTrkFinderParameters(2.,// proxcut
    0.02, // proxcut on rieman sphere
    2.E-3, // planecut
    4.0, // szcut
    4); // minnumhits for fit
tpcSPR->SetPersistence();
fRun->AddTask(tpcSPR);
```

and rerun run_track_tpcmvd.C. It will work, I have tried also at GSI on lxx0442 .

Now run plot_pT.C: it will crash!!!

But lhetrack code does not ask for riemann data object. You can set lhetrack working only with TpcPoints (SetTpcMode(1), SetMvdMode(0)) and you will have the same crash, not while analysing the event but when accessing to the files via macro. This is the error at the t->GetEntriesFast() point:

Toggle Spoiler

```
root [0]
```

```
Processing plot_pT.C...
```

- RTDB container factory CbmBaseContFact
- RTDB container factory PndFieldContFact
- RTDB container factory PndPassiveContFact

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

- RTDB container factory PndEmcContFact
- RTDB container factory PndTpcContFact
- RTDB container factory PndMvdContFact

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

```
Using host libthread_db library "/lib/libthread_db.so.1".
```

```
Attaching to program: /proc/26172/exe, process 26172
```

```
`system-supplied DSO at 0xffffe000' has disappeared; keeping its symbols.
done.
```

done.
[Thread debugging using libthread_db enabled]
[New Thread 16384 (LWP 26172)]
done.
done.
done.
done.
done.
done.
done.
done.
done.
done.
0x40ca7788 in waitpid () from /lib/libc.so.6
#1 0x40d2f8c0 in __DTOR_END__ () from /lib/libc.so.6
#2 0x40c40442 in do_system () from /lib/libc.so.6
#3 0x40bbac5f in system () from /lib/libpthread.so.0
#4 0x401f979f in TUnixSystem::Exec () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCore.so.5.18
#5 0x401f9c63 in TUnixSystem::StackTrace () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCore.so.5.18
#6 0x401f75cc in TUnixSystem::DispatchSignals () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCore.so.5.18
#7 0x401f53a8 in SigHandler () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCore.so.5.18
#8 0x401fcefe in sighandler () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCore.so.5.18
#9 0x40bb9825 in __pthread_sighandler () from /lib/libpthread.so.0
#10 <signal handler called>
#11 0x401dc864 in TClass::Streamer () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCore.so.5.18
#12 0x40dd0721 in TBufferFile::ReadFastArray () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libRIO.so
#13 0x40e13fe1 in TStreamerInfo::ReadBuffer<char**> () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libRIO.so
#14 0x40e13a02 in TStreamerInfo::ReadBufferClones () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libRIO.so
#15 0x41d8488d in TBranchElement::ReadLeaves () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libTree.so
#16 0x41d77bb8 in TBranch::GetEntry () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libTree.so
#17 0x41d8258b in TBranchElement::GetEntry () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libTree.so
#18 0x41d8250b in TBranchElement::GetEntry () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libTree.so
#19 0x41dbf733 in TTree::GetEntry () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libTree.so
#20 0x41dea472 in G__G__Tree_103_0_62 () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libTree.so
#21 0x40778856 in Cint::G__ExceptionWrapper () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCint.so.5.18
#22 0x4084fddf in G__call_cppfunc () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCint.so.5.18

#23 0x4083b969 in G__interpret_func () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCint.so.5.18
#24 0x4081ab8c in G__getfunction () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCint.so.5.18
#25 0x408e5469 in G__getstructmem () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCint.so.5.18
#26 0x408e4792 in G__getvariable () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCint.so.5.18
#27 0x4080fac0 in G__getitem () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCint.so.5.18
#28 0x407fed80 in G__getexpr () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCint.so.5.18
#29 0x4086faa8 in G__exec_function () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCint.so.5.18
#30 0x4087f325 in G__exec_statement () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCint.so.5.18
#31 0x40873004 in G__exec_loop () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCint.so.5.18
#32 0x40872b8a in G__exec_for () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCint.so.5.18
#33 0x40880077 in G__exec_statement () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCint.so.5.18
#34 0x407ea88a in G__exec_tempfile_core () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCint.so.5.18
#35 0x407ebe41 in G__exec_tempfile () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCint.so.5.18
#36 0x4088a8b4 in G__process_cmd () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCint.so.5.18
#37 0x401c5e45 in TCint::ProcessLine () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCore.so.5.18
#38 0x401c6006 in TCint::ProcessLineSynch () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCore.so.5.18
#39 0x4011fed0 in TApplication::ExecuteFile () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCore.so.5.18
#40 0x4011f816 in TApplication::ProcessFile () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCore.so.5.18
#41 0x4011f5a4 in TApplication::ProcessLine () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libCore.so.5.18
#42 0x40b47582 in TRint::Run () from
/misc/cbmsoft/Debian3.1/mar08/fairsoft/tools/root/lib/libRint.so.5.18
#43 0x08048e2e in main ()

If you try something via TBrowser, such as:

```
cbmsim.Draw("PndTpcLheTrack.fP.Perp()", "PndTpcLheTrack.fP.Perp()<2")
```

it will work.

What is going wrong? Could you please try to reproduce this error?

I want to stress that this problem appeared to me the first time with the old lhetrack code, before the last changes. So it is not my fault

Help is welcome!!!
