
Subject: dlopen error with libDch.so

Posted by [Jerome Boucher](#) on Mon, 01 Dec 2008 18:03:38 GMT

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Hi everybody,

I've updated pandaroot today using the howto update tutorial. When I used the run_sim_sttcombi_pgun.C, run_digi_sttcombi.C and run_reco_sttcombi.C macros, I obtained the following error concerning the libDch, but anyway the macros didn't crash and finished normally.

```
root -l run_sim_sttcombi_pgun.C
- RTDB container factory CbmBaseContFact
- RTDB container factory PndFieldContFact
- RTDB container factory PndPassiveContFact
```

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

```
- RTDB container factory PndSttContFact
- RTDB container factory PndEmcContFact
- RTDB container factory PndTpcContFact
- RTDB container factory PndMvdContFact
- RTDB container factory PndTofContFact
- RTDB container factory PndDrcContFact
- RTDB container factory PndMdtContFact
dlopen error: /vol0/home2/boucher_loc/soft/buildpanda/lib/libDch.so: undefined symbol:
_ZN13PndSttRecoHit10setHMatrixEPK11AbsTrackRepRK8TMatrixTIdE
Load Error: Failed to load Dynamic link library
/vol0/home2/boucher_loc/soft/buildpanda/lib/libDch.so
(int)(-1)
*** Interpreter error recovered ***
root [0]
Processing run_sim_sttcombi_pgun.C...
```

Then I opened the reco_sttcombi.root file. I had the message below and I also could see that the LhePidTrack.GetMomentum() folder disappeared.

```
root -l reco_sttcombi.root
- RTDB container factory CbmBaseContFact
- RTDB container factory PndFieldContFact
- RTDB container factory PndPassiveContFact
```

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

```
- RTDB container factory PndSttContFact
- RTDB container factory PndEmcContFact
- RTDB container factory PndTpcContFact
```

```
- RTDB container factory PndMvdContFact
- RTDB container factory PndTofContFact
- RTDB container factory PndDrcContFact
- RTDB container factory PndMdtContFact
dlopen error: /vol0/home2/boucher_loc/soft/buildpanda/lib/libDch.so: undefined symbol:
_ZN13PndSttRecoHit10setHMatrixEPK11AbsTrackRepRK8TMatrixTIdE
Load Error: Failed to load Dynamic link library
/vol0/home2/boucher_loc/soft/buildpanda/lib/libDch.so
(int)(-1)
*** Interpreter error recovered ***
root [0]
Attaching file reco_sttcombi.root as _file0...
Warning in <TClass::TClass>: no dictionary for class PndTpcLheTrack is available
Warning in <TClass::TClass>: no dictionary for class PndTpcLhePoint is available
Warning in <TClass::TClass>: no dictionary for class PndTpcLheHit is available
Warning in <TClass::TClass>: no dictionary for class PndTpcLheCMPoint is available
Warning in <TClass::TClass>: no dictionary for class PndLhePidTrack is available
```

I checked the directory /vol0/home2/boucher_loc/soft/buildpanda/lib/ and the libDch.so exist.
For the moment, I comment out in the rootlogon.C file the line:
gSystem->Load("libDch");
and I don't have anymore the error with libDch neither with the reco_sttcombi.root file.

Did someone have this problem before?

Thanks

Jérôme

Subject: Re: dlopen error with libDch.so
Posted by [asanchez](#) on Tue, 02 Dec 2008 09:29:48 GMT
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Hi Jerome
i think you will need to add
some of the following libs
genfit ,geane trackBase trackRep

that undefined symbol:
_ZN13PndSttRecoHit10setHMatrixEPK11AbsTrackRepRK8TMatrixTIdE
is normally related to the hit reconstruction

SttRecoHit
AbsTrackRep

check it again.
regards alicia.

Subject: Re: dlopen error with libDch.so
Posted by [Jerome Boucher](#) on Wed, 03 Dec 2008 13:16:12 GMT
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Hi,

I've checked those libs, and they are all in the lib folder.
I've also compiled again libs but the result stays the same.

Just for curiosity I copied the libDch.so.O.O.O from Gosia
and then it's working without any error.

So i'm not sure what is a problem and the solution for that

greetings

jerome

Subject: Re: dlopen error with libDch.so
Posted by [asanchez](#) on Wed, 03 Dec 2008 13:36:33 GMT
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Maybe if you have updated your code
the best is go to build directory and
do make install

i hope it works
ALicia.

Subject: Re: dlopen error with libDch.so
Posted by [asanchez](#) on Wed, 03 Dec 2008 13:38:42 GMT
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Hi agian,
you can even do the following
go to build/dch
do make clean
and then come back to build
and do make install

Subject: Re: dlopen error with libDch.so
Posted by [Stefano Spataro](#) on Wed, 03 Dec 2008 15:02:11 GMT
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Hi,
only one suggestion:
in the build remove the directory stt genfit and dch

```
rm -rf all stt genfit dch
```

Then type simply "make", without install, this is not needed anymore.
And let me know
