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Subject: crash pandaroot compilation at pro.hpc.gsi.de cluster

Posted by [Aida Galoyan](#) on Tue, 24 Nov 2015 10:12:39 GMT

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Hi all,

I can not install PandaRoot in my account at pro.hpc.gsi.de cluster using external packages jul15p2.

When I give commands according to Florian advice:

```
-----  
module use /cvmfs/it.gsi.de/modulefiles/  
module load compiler/gcc/4.8.4
```

```
export CXX=g++
```

```
export SIMPATH=/cvmfs/fairroot.gsi.de/gcc_4.8.4/fairsoft/jul15p2
```

```
export FAIRROOTPATH=/cvmfs/fairroot.gsi.de/gcc_4.8.4/fairroot/v-15.07_fairsoft- jul15p2
```

```
svn co https://subversion.gsi.de/fairroot/pandaroot/trunk pandaroot
```

```
mkdir cbuild
```

```
cd cbuild
```

```
cmake -DUSE_PATH_INFO=TRUE ../pandaroot
```

```
./config.sh
```

```
-----  
These are working normal.
```

But

```
> make
```

gives folowing error:

```
-----  
Scanning dependencies of target EvtGen_exe_pandaEvtGen  
[ 35%] Building CXX object  
pgenerators/EvtGen/Standalone/CMakeFiles/EvtGen_exe_pandaEvtGen.dir/pandaEvtGen.cc.o  
Linking CXX executable ../../bin/pandaEvtGen  
/cvmfs/fairroot.gsi.de/gcc_4.8.4/fairsoft/jul15p2/lib/libpythia8.so: undefined reference to  
`evolvepdfm_'  
/cvmfs/fairroot.gsi.de/gcc_4.8.4/fairsoft/jul15p2/lib/libpythia8.so: undefined reference to  
`initpdfm_'  
/cvmfs/fairroot.gsi.de/gcc_4.8.4/fairsoft/jul15p2/lib/libpythia8.so: undefined reference to  
`setlhaparm_'  
/cvmfs/fairroot.gsi.de/gcc_4.8.4/fairsoft/jul15p2/lib/libpythia8.so: undefined reference to  
`initpdfsetbynamem_'
```

```
/cvmfs/fairroot.gsi.de/gcc_4.8.4/fairsoft/jul15p2/lib/libpythia8.so: undefined reference to
`initpdfsetm_'
/cvmfs/fairroot.gsi.de/gcc_4.8.4/fairsoft/jul15p2/lib/libpythia8.so: undefined reference to
`evolvepdfphotonm_'
collect2: error: ld returned 1 exit status
make[2]: *** [bin/pandaEvtGen] Error 1
make[1]: *** [pgenerators/EvtGen/Standalone/CMakeFiles/EvtGen_exe_pandaEvtGen.dir/all ]
Error 2
make: *** [all] Error 2
```

-----

How to remove this error? May be I omit something?

Best regards,  
Aida

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Subject: Re: crash pandaroot compilation at pro.hpc.gsi.de cluster  
Posted by [Radoslaw Karabowicz](#) on Tue, 24 Nov 2015 10:19:22 GMT  
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Which pandaroot version are you trying to install?

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Subject: Re: crash pandaroot compilation at pro.hpc.gsi.de cluster  
Posted by [Ralf Kliemt](#) on Tue, 24 Nov 2015 10:25:25 GMT  
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Hi Radek,

I get the same. rev.28739 is fine, rev.28740 does produce that error.

Be warned, rev.28741 introduces another issue, coincidentally in EvtGen, too.

Ralf

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Subject: Re: crash pandaroot compilation at pro.hpc.gsi.de cluster  
Posted by [Radoslaw Karabowicz](#) on Tue, 24 Nov 2015 10:28:54 GMT  
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Hi Ralf,

Can you try changing:

```
set(PYTHIALIBLIST pythia8)
```

to

set(PYTHIALIBLIST pythia8 lhapdfdummy)

in

pandaroot/trunk/pgenerators/EvtGen/CMakeLists.txt

?

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Subject: Re: crash pandaroot compilation at pro.hpc.gsi.de cluster  
Posted by [Ralf Kliemt](#) on Tue, 24 Nov 2015 10:32:30 GMT

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Yes, this does the trick.

Ralf

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Subject: Re: crash pandaroot compilation at pro.hpc.gsi.de cluster  
Posted by [Radoslaw Karabowicz](#) on Tue, 24 Nov 2015 10:43:48 GMT

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From what I see, in the previous versions of Pythia8, this library was generated.  
In the recent one, it is missing... I will find a way to fix it.

---

Subject: Re: crash pandaroot compilation at pro.hpc.gsi.de cluster  
Posted by [Aida Galoyan](#) on Tue, 24 Nov 2015 10:45:10 GMT

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Hi Radek,

I installed last version: 28741

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Subject: Re: crash pandaroot compilation at pro.hpc.gsi.de cluster  
Posted by [Ralf Kliemt](#) on Tue, 24 Nov 2015 10:46:17 GMT

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Radoslaw Karabowicz wrote on Tue, 24 November 2015 11:43From what I see, in the previous  
versions of Pythia8, this library was generated.

In the recent one, it is missing... I will find a way to fix it.

Actually I just did it locally. When I revisited the changes I made to compile EvtGen, I'll upload  
the library fix, too.

Cheers!

Ralf

---

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Subject: Re: crash pandaroot compilation at pro.hpc.gsi.de cluster

Posted by [Aida Galoyan](#) on Tue, 24 Nov 2015 11:02:36 GMT

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Hi again,

Please write, what I have to do now for compilation?

I have not understood from your discussion.

Aida

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Subject: Re: crash pandaroot compilation at pro.hpc.gsi.de cluster

Posted by [Ralf Kliemt](#) on Tue, 24 Nov 2015 11:03:41 GMT

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Hi Aida,

You may simply update pandaroot. Rev.28742 is fine, again.

Ralf

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Subject: Re: crash pandaroot compilation at pro.hpc.gsi.de cluster

Posted by [Aida Galoyan](#) on Tue, 24 Nov 2015 11:28:07 GMT

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Hi Ralf,

As you write, I have given:

```
>svn update pandaroot
```

pandaroot was updated.

after this I give commans:

```
> cd cbuidl
> cmake -DUSE_PATH_INFO=TRUE ../pandaroot
> make
```

Again, compilation gives error:

```
-----
[ 14%] Built target PhotosCxxInterface
[ 14%] Building CXX object
pgenerators/EvtGen/EvtGen/CMakeFiles/EvtGen.dir/Private/EvtPP_X_PsiRho_amp.cpp.o
In file included from
/u/galoyan/pandaroot_dec15/pandaroot/pgenerators/EvtGen/EvtGen/Private/E
vtPP_X_PsiRho_amp.cpp:8:0:
```

/u/galoyan/pandaroot\_dec15/pandaroot/pgenerators/EvtGen/EvtGen/Private/EvtGenModels/EvtPP\_X\_PsiRho\_amp.hh:55:30: error: 'constexpr' needed for in-class initialization of static data member 'const double EvtPP\_X\_PsiRho\_amp::fRho' of non-integral type [-fpermissive]

```
static const double fRho=0.0070, fOmega=0.036, g=0.3, ef=-11.0e-3;
      ^
```

/u/galoyan/pandaroot\_dec15/pandaroot/pgenerators/EvtGen/EvtGen/Private/EvtGenModels/EvtPP\_X\_PsiRho\_amp.hh:55:45: error: 'constexpr' needed for in-class initialization of static data member 'const double EvtPP\_X\_PsiRho\_amp::fOmega' of non-integral type [-fpermissive]

```
static const double fRho=0.0070, fOmega=0.036, g=0.3, ef=-11.0e-3;
      ^
```

/u/galoyan/pandaroot\_dec15/pandaroot/pgenerators/EvtGen/EvtGen/Private/EvtGenModels/EvtPP\_X\_PsiRho\_amp.hh:55:54: error: 'constexpr' needed for in-class initialization of static data member 'const double EvtPP\_X\_PsiRho\_amp::g' of non-integral type [-fpermissive]

```
static const double fRho=0.0070, fOmega=0.036, g=0.3, ef=-11.0e-3;
      ^
```

/u/galoyan/pandaroot\_dec15/pandaroot/pgenerators/EvtGen/EvtGen/Private/EvtGenModels/EvtPP\_X\_PsiRho\_amp.hh:55:63: error: 'constexpr' needed for in-class initialization of static data member 'const double EvtPP\_X\_PsiRho\_amp::ef' of non-integral type [-fpermissive]

```
static const double fRho=0.0070, fOmega=0.036, g=0.3, ef=-11.0e-3;
      ^
```

/u/galoyan/pandaroot\_dec15/pandaroot/pgenerators/EvtGen/EvtGen/Private/EvtGenModels/EvtPP\_X\_PsiRho\_amp.hh:57:30: error: 'constexpr' needed for in-class initialization of static data member 'const double EvtPP\_X\_PsiRho\_amp::mPsi' of non-integral type [-fpermissive]

```
static const double mPsi=3.097, mRho=775e-3, mOmega=782e-3,
      ^
```

/u/galoyan/pandaroot\_dec15/pandaroot/pgenerators/EvtGen/EvtGen/Private/EvtGenModels/EvtPP\_X\_PsiRho\_amp.hh:57:42: error: 'constexpr' needed for in-class initialization of static data member 'const double EvtPP\_X\_PsiRho\_amp::mRho' of non-integral type [-fpermissive]

```
static const double mPsi=3.097, mRho=775e-3, mOmega=782e-3,
      ^
```

/u/galoyan/pandaroot\_dec15/pandaroot/pgenerators/EvtGen/EvtGen/Private/EvtGenModels/EvtPP\_X\_PsiRho\_amp.hh:57:57: error: 'constexpr' needed for in-class initialization of static data member 'const double EvtPP\_X\_PsiRho\_amp::mOmega' of non-integral type [-fpermissive]

```
static const double mPsi=3.097, mRho=775e-3, mOmega=782e-3,
      ^
```

/u/galoyan/pandaroot\_dec15/pandaroot/pgenerators/EvtGen/EvtGen/Private/EvtGenModels/EvtPP\_X\_PsiRho\_amp.hh:58:9: error: 'constexpr' needed for in-class initialization of static data member 'const double EvtPP\_X\_PsiRho\_amp::mD0' of non-integral type [-fpermissive]

```
mD0=1864.84e-3, mD0star=2006.96e-3, mDch=1869.61e-3, mDchstar=2010.26e-3,
      ^
```

/u/galoyan/pandaroot\_dec15/pandaroot/pgenerators/EvtGen/EvtGen/Private/EvtGenModels/EvtPP\_X\_PsiRho\_amp.hh:58:29: error: 'constexpr' needed for in-class initialization of static data member 'const double EvtPP\_X\_PsiRho\_amp::mD0star' of non-integral type [-fpermissive]

```

mD0=1864.84e-3, mD0star=2006.96e-3, mDch=1869.61e-3, mDchstar=2010.26e-3,
      ^
/u/galoyan/pandaroot_dec15/pandaroot/pgenerators/EvtGen/EvtGen/Private/E
vtGenModels/EvtPP_X_PsiRho_amp.hh:58:46: error: 'constexpr' needed for in-class
initialization of static data member 'const double EvtPP_X_PsiRho_amp::mDch' of non-integral
type [-fpermissive]
  mD0=1864.84e-3, mD0star=2006.96e-3, mDch=1869.61e-3, mDchstar=2010.26e-3,
        ^
/u/galoyan/pandaroot_dec15/pandaroot/pgenerators/EvtGen/EvtGen/Private/E
vtGenModels/EvtPP_X_PsiRho_amp.hh:58:67: error: 'constexpr' needed for in-class
initialization of static data member 'const double EvtPP_X_PsiRho_amp::mDchstar' of
non-integral type [-fpermissive]
  mD0=1864.84e-3, mD0star=2006.96e-3, mDch=1869.61e-3, mDchstar=2010.26e-3,
        ^
/u/galoyan/pandaroot_dec15/pandaroot/pgenerators/EvtGen/EvtGen/Private/E
vtGenModels/EvtPP_X_PsiRho_amp.hh:59:9: error: 'constexpr' needed for in-class
initialization of static data member 'const double EvtPP_X_PsiRho_amp::mPi' of non-integral
type [-fpermissive]
  mPi=0.140, mp=0.938;
      ^
/u/galoyan/pandaroot_dec15/pandaroot/pgenerators/EvtGen/EvtGen/Private/E
vtGenModels/EvtPP_X_PsiRho_amp.hh:59:19: error: 'constexpr' needed for in-class
initialization of static data member 'const double EvtPP_X_PsiRho_amp::mp' of non-integral
type [-fpermissive]
  mPi=0.140, mp=0.938;
      ^
/u/galoyan/pandaroot_dec15/pandaroot/pgenerators/EvtGen/EvtGen/Private/E
vtGenModels/EvtPP_X_PsiRho_amp.hh:62:30: error: 'constexpr' needed for in-class
initialization of static data member 'const double EvtPP_X_PsiRho_amp::gRho' of non-integral
type [-fpermissive]
  static const double gRho=147.8e-3, gOmega=8.5e-3;
        ^
/u/galoyan/pandaroot_dec15/pandaroot/pgenerators/EvtGen/EvtGen/Private/E
vtGenModels/EvtPP_X_PsiRho_amp.hh:62:47: error: 'constexpr' needed for in-class
initialization of static data member 'const double EvtPP_X_PsiRho_amp::gOmega' of
non-integral type [-fpermissive]
  static const double gRho=147.8e-3, gOmega=8.5e-3;
        ^
make[2]: *** [pgenerators/EvtGen/EvtGen/CMakeFiles/EvtGen.dir/Private/EvtPP_X_PsiRho_
amp.cpp.o] Error 1
make[1]: *** [pgenerators/EvtGen/EvtGen/CMakeFiles/EvtGen.dir/all] Error 2
make: *** [all] Error 2

```

-----

May be, I do something false?

Aida

---

Subject: Re: crash pandaroot compilation at pro.hpc.gsi.de cluster

Posted by [Ralf Kliemt](#) on Tue, 24 Nov 2015 12:09:06 GMT

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Hi Aida,

No, it's not you, it's different compilers. I'll clean it up even more.

Ralf

---

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Subject: Re: crash pandaroot compilation at pro.hpc.gsi.de cluster

Posted by [Ralf Kliemt](#) on Tue, 24 Nov 2015 12:23:23 GMT

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Hi Aida,

Now even old compilers should understand the code.

Rev.28743.

Cheers!

Ralf

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---

Subject: Re: crash pandaroot compilation at pro.hpc.gsi.de cluster

Posted by [Aida Galoyan](#) on Tue, 24 Nov 2015 13:18:10 GMT

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Hi Ralf,

I checkout last version 28743.

Again

> make

gives error:

```
-----  
[ 29%] Building CXX object  
pgenerators/EvtGen/EvtGen/CMakeFiles/EvtGen.dir/R01-03-00/src/EvtGenMode  
ls/EvtEta2MuMuGamma.cpp.o  
In file included from  
/u/galoyan/pandaroot_nov15/pandaroot/pgenerators/EvtGen/EvtGen/R01-03-00  
/EvtGenModels/EvtD0gammaDalitz.hh:17:0,  
    from  
/u/galoyan/pandaroot_nov15/pandaroot/pgenerators/EvtGen/EvtGen/R01-03-00  
/src/EvtGenModels/EvtD0gammaDalitz.cpp:23:  
/u/galoyan/pandaroot_nov15/pandaroot/pgenerators/EvtGen/EvtGen/R01-03-00  
/EvtGenBase/EvtFlatte.hh: In constructor 'EvtFlatteParam::EvtFlatteParam(double, double,  
double)':  
/u/galoyan/pandaroot_nov15/pandaroot/pgenerators/EvtGen/EvtGen/R01-03-00  
/EvtGenBase/EvtFlatte.hh:35:49: warning: declaration of 'g' shadows a member of 'this'  
[-Wshadow]
```

EvtFlatteParam(double m1, double m2, double g):

^

```
/u/galoyan/pandaroot_nov15/pandaroot/pgenerators/EvtGen/EvtGen/R01-03-00
/EvtGenBase/EvtFlatte.hh:35:49: warning: declaration of 'm2' shadows a member of 'this'
[-Wshadow]
/u/galoyan/pandaroot_nov15/pandaroot/pgenerators/EvtGen/EvtGen/R01-03-00
/EvtGenBase/EvtFlatte.hh:35:49: warning: declaration of 'm1' shadows a member of 'this'
[-Wshadow]
```

```
[ 29%] Building CXX object
pgenerators/EvtGen/EvtGen/CMakeFiles/EvtGen.dir/R01-03-00/src/EvtGenMode
ls/EvtBCVFF.cpp.o
[ 29%] Building CXX object
pgenerators/EvtGen/EvtGen/CMakeFiles/EvtGen.dir/R01-03-00/src/EvtGenMode
ls/EvtWnPi.cpp.o
Linking CXX shared library ../../lib/libEvtGen.so
[ 29%] Built target EvtGen
make: *** [all] Error 2
```

What to do? I can not understand where is mistake or bug.  
Aida

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Subject: Re: crash pandaroot compilation at pro.hpc.gsi.de cluster  
Posted by [Stefano Spataro](#) on Tue, 24 Nov 2015 13:31:43 GMT  
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Can you please attach the complete log once you type make?

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Subject: Re: crash pandaroot compilation at pro.hpc.gsi.de cluster  
Posted by [Aida Galoyan](#) on Tue, 24 Nov 2015 15:31:57 GMT  
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Hello Stefano,

Now, after  
> make

I have obtained something other error. The full text is

```
-----
[ 0%] Generating G__PassiveDict.cxx
[ 0%] [ 1%] [ 1%] Built target libPassive.rootmap
[ 1%] Built target libPndData.rootmap
Built target libgeneralTools.rootmap
Built target libbuffers.rootmap
[ 1%] -- Found Git: /usr/bin/git (found version "1.7.2.5")
Generating G__FieldDict.cxx
[ 1%] [ 1%] Built target libField.rootmap
```



```

Built target svnheader
[ 1%] Built target DpmEvtGen
[ 1%] [ 1%] [ 1%] Built target libPGen.rootmap
Built target libFtfGenDirect.rootmap
Generating G__PndDataDict.cxx
[ 1%] [ 1%] Built target libEvtGenDirect.rootmap
Built target PhotosFortran
[ 1%] [ 1%] [ 1%] Built target FtfEvtGen
Generating FlukaResultsDict.cxx, FlukaResultsDict.h
Generating PndEMFFGENDict.cxx, PndEMFFGENDict.h
/cvmfs/fairroot.gsi.de/gcc_4.8.4/fairsoft/jul15p2/bin/rootcint: /usr/lib/libstdc++.so.6: version
`GLIBCXX_3.4.15' not found (required by
/cvmfs/fairroot.gsi.de/gcc_4.8.4/fairsoft/jul15p2/bin/rootcint)
/cvmfs/fairroot.gsi.de/gcc_4.8.4/fairsoft/jul15p2/bin/rootcint: /usr/lib/libstdc++.so.6: version
`GLIBCXX_3.4.15' not found (required by
/cvmfs/fairroot.gsi.de/gcc_4.8.4/fairsoft/jul15p2/lib/root/libCint.so.5)
/cvmfs/fairroot.gsi.de/gcc_4.8.4/fairsoft/jul15p2/bin/rootcint: /usr/lib/libstdc++.so.6: version
`GLIBCXX_3.4.15' not found (required by
/cvmfs/fairroot.gsi.de/gcc_4.8.4/fairsoft/jul15p2/bin/rootcint)
/cvmfs/fairroot.gsi.de/gcc_4.8.4/fairsoft/jul15p2/bin/rootcint: /usr/lib/libstdc++.so.6: version
`GLIBCXX_3.4.15' not found (required by
/cvmfs/fairroot.gsi.de/gcc_4.8.4/fairsoft/jul15p2/lib/root/libCint.so.5)
make[2]: *** [pgenerators/PndFlukaGen/FlukaResultsDict.cxx] Error 1
make[2]: *** [pgenerators/EMFFgenerators/PndEMFFGENDict.cxx] Error 1
make[1]: *** [pgenerators/PndFlukaGen/CMakeFiles/FlukaResults.dir/all] Error 2
make[1]: *** Waiting for unfinished jobs....
make[1]: *** [pgenerators/EMFFgenerators/CMakeFiles/EMFFGEN.dir/all] Error 2
[ 1%] Built target libStt.rootmap
[ 21%] Built target EvtGen
Scanning dependencies of target Passive
Scanning dependencies of target Field
[ 21%] Building CXX object passive/CMakeFiles/Passive.dir/G__PassiveDict.cxx.o
[ 21%] Building CXX object field/CMakeFiles/Field.dir/G__FieldDict.cxx.o
Linking CXX shared library ../lib/libPassive.so
[ 22%] Built target Passive
Linking CXX shared library ../lib/libField.so
Scanning dependencies of target PndData
[ 24%] Built target Field
[ 24%] Building CXX object pnddata/CMakeFiles/PndData.dir/G__PndDataDict.cxx.o
Linking CXX shared library ../lib/libPndData.so
[ 29%] Built target PndData
make: *** [all] Error 2

```

-----

May be, the reason of the error is in the following line

-----

```

version `GLIBCXX_3.4.15' not found (required by
/cvmfs/fairroot.gsi.de/gcc_4.8.4/fairsoft/jul15p2/lib/root

```

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Aida

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Subject: Re: crash pandaroot compilation at pro.hpc.gsi.de cluster  
Posted by [Florian Uhlig](#) on Tue, 24 Nov 2015 15:33:52 GMT  
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you missed to set the compiler correctly.

```
module use /cvmfs/it.gsi.de/modulefiles
module load compiler/gcc/4.8.4
export CXX=g++
```

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