
Subject: config.sh bug

Posted by [Anonymous Poster](#) on Wed, 29 Apr 2009 11:03:58 GMT

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Hi,

this issue is very old, but still not solved. When cmake is executed if anyone changes a CMakeLists.txt, I end up with /usr/lib and /usr/local/lib in my LD_LIBRARY_PATH. This way, I end up using my system wide installation of geant3, instead the one from the external packages, which is further down the LD_LIBRARY_PATH variable. So, this should be removed. And having /usr/lib in the LD_LIBRARY_PATH is not good for anything anyway.

Please fix this!! If I would add up all the time in my life I spent on fixing this issue after a make, I could probably be much more advanced on that novel I have always been writing on

Cheers, Christian

Subject: Re: config.sh bug

Posted by [Florian Uhlig](#) on Wed, 29 Apr 2009 12:02:34 GMT

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Hi Christian

I don't know why you end up with /usr/local/lib and /usr/lib in the LD_LIBRARY_PATH. This can only be if these two libraries are in the LD_LIBRARY_PATH already when you run cmake. Can you please check this the next time before you run cmake.

In the config.sh the two directories /usr/lib and /usr/X11R6/lib are added to the LD_LIBRARY_PATH. I don't remember why this is done, but this was on user request. The two directories were added at the beginning of the LD_LIBRARY_PATH which is definitely an error. I moved the two directories to end end of the LD_LIBRARY_PATH after all the other directories. This should cure your problem.

In the end we should test to remove the two directories completely, but i don't want to do this untested, so this will need some time.

Ciao

Florian

Subject: Re: config.sh bug

Posted by [Anonymous Poster](#) on Tue, 05 May 2009 08:29:17 GMT

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Hi Florian,

well I wasnt completely right in my mail before, it wasnt /usr/local it was /usr/X11R6. Before I include config.sh my LD_LIBRARY_PATH is completely empty.

Then, after any CMakeLists.txt was changed, make makes a new config.sh which makes LD_LIBRARY_PATH into this:

```
/usr/lib:/usr/X11R6/lib:/home/hoepi/build/lib:/home/hoepi/build/lib:/home/hoepi/fairsoft/tools/root/lib:/home/hoepi/fairsoft/generators/lib:/home/hoepi/fairsoft/generators/lib:/home/hoepi/fairsoft/transport/geant3/lib/tgt_linuxx8664gcc:/home/hoepi/fairsoft/transport/geant4/lib/Linux-g++:/home/hoepi/fairsoft/transport/geant4_vmc/lib/tgt_linuxx8664gcc:/home/hoepi/fairsoft/transport/vgm/lib:/home/hoepi/fairsoft/cern/clhep /lib
```

Can you please investigate this? Are you sure your LD_LIBRARY_PATH doesnt contain it?

Cheers, Christian

Subject: Re: config.sh bug
Posted by [Anonymous Poster](#) on Tue, 05 May 2009 08:34:38 GMT
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Hi again,

actually I found the bug, but I dont have the write permissions to commit it. Can you please apply the following patch:

```
hoepi@hoepi:~/trunk$ svn diff cmake/modules/WriteConfigFile.cmakeIndex:  
cmake/modules/WriteConfigFile.cmake
```

```
=====  
--- cmake/modules/WriteConfigFile.cmake (revision 5370)  
+++ cmake/modules/WriteConfigFile.cmake (working copy)  
@@ -9,7 +9,7 @@  
   SET(FAIRLIBDIR ${CMAKE_CURRENT_BINARY_DIR}/lib)  
  
   IF(CMAKE_SYSTEM_NAME MATCHES Linux)  
-   SET(LD_LIBRARY_PATH /usr/lib /usr/X11R6/lib ${FAIRLIBDIR} ${LD_LIBRARY_PATH})  
+   SET(LD_LIBRARY_PATH ${FAIRLIBDIR} ${LD_LIBRARY_PATH})  
   ELSE(CMAKE_SYSTEM_NAME MATCHES Linux)  
     IF(CMAKE_SYSTEM_NAME MATCHES Darwin)  
       SET(LD_LIBRARY_PATH ${FAIRLIBDIR} ${LD_LIBRARY_PATH})  
@@ -115,7 +115,7 @@  
   SET(FAIRLIBDIR ${CMAKE_CURRENT_BINARY_DIR}/lib)  
  
   IF(CMAKE_SYSTEM_NAME MATCHES Linux)  
-   SET(LD_LIBRARY_PATH /usr/lib /usr/X11R6/lib ${FAIRLIBDIR} ${LD_LIBRARY_PATH})  
+   SET(LD_LIBRARY_PATH ${FAIRLIBDIR} ${LD_LIBRARY_PATH})  
   ELSE(CMAKE_SYSTEM_NAME MATCHES Linux)  
     IF(CMAKE_SYSTEM_NAME MATCHES Darwin)  
       SET(LD_LIBRARY_PATH ${FAIRLIBDIR} ${LD_LIBRARY_PATH})  
hoepi@hoepi:~/trunk$
```

As you can see it just removes /usr/lib and /usr/X11R6/lib in two places, nothing else.

Cheers, Christian

Subject: Re: config.sh bug

Posted by [Florian Uhlig](#) on Tue, 05 May 2009 08:51:37 GMT

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Hi Christian

I have already changed the file last week. I did not delete the two directories, but put them to the end of the list. I did this because i am unsure why this two directories are in the path. So updating to the head version of the file should solve your problem.

Ciao

Florian

Subject: Re: config.sh bug

Posted by [Anonymous Poster](#) on Tue, 05 May 2009 08:54:26 GMT

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Hi,

thanks. But I am quite sure that putting these dirs in LD_LIBRARY_PATH is a mistake. The linux system looks in them anyway. I think it is save to remove them.

Cheers, Christian
