解决cmake not able to find openssl

分享于

推荐：win7 vs2010 ogre1.72 （1）cmake的问题compiler "cl" is not able to compile a simple test program.

　　2011-03-27 12:58 361人阅读 评论(3) 收藏 举报 以下是我遇到的问题。网络上找来找去，还有外国的朋友也出现过的问题，只是都没有正确解决。 至于怎么下载og

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I am trying to install a software, which uses cmake to install itself, when i give at commandlin cmake ..

it gives me following error in this file, CMakeLists.txt -------- line ---> find_package(OpenSSL REQUIRED) :--

```
 cmake ..
-- Could NOT find Git (missing: GIT_EXECUTABLE)
ZLib include dirs: /usr/include
ZLib libraries: /usr/lib/arm-linux-gnueabihf/libz.so
Compiling with SSL support
CMake Error at /usr/local/
 /cmake-2.8/Modules/FindPackageHandleStandardArgs.cmake:97 (message):
 Could NOT find OpenSSL, try to set the path to OpenSSL root folder in the
 system variable OPENSSL_ROOT_DIR (missing: OPENSSL_LIBRARIES
 OPENSSL_INCLUDE_DIR)
Call Stack (most recent call first):
 /usr/local/
 /cmake-2.8/Modules/FindPackageHandleStandardArgs.cmake:291
(_FPHSA_FAILURE_MESSAGE)
 /usr/local/
 /cmake-2.8/Modules/FindOpenSSL.cmake:313
(find_package_handle_standard_args)
 CMakeLists.txt:436 (find_package)
```

Here is the part of file CMakeLists.txt, where error is comming :------

```
#
# OpenSSL
#
if (WITH_SSL)
    message("Compiling with SSL support")

    if (USE_CYASSL)
        # Use CyaSSL as OpenSSL replacement.
        # TODO: Add a find_package command for this also.
        message("CyaSSL include dir: ${CYASSL_INCLUDE_DIRS}")
        message("CyaSSL libraries: ${CYASSL_LIB}")

        # Additional to the root directory we need to include
        # the cyassl/ subdirectory which contains the OpenSSL
        # compatability layer headers.
```

```
    foreach(inc ${CYASSL_INCLUDE_DIRS})
        include_directories(${inc} ${inc}/cyassl)
    endforeach()

    list(APPEND LIB_LIST ${CYASSL_LIB})
else()
    # TODO: Add support for STATIC also.
    find_package(OpenSSL REQUIRED)

    message("OpenSSL include dir: ${OPENSSL_INCLUDE_DIR}")
    message("OpenSSL libraries: ${OPENSSL_LIBRARIES}")

    include_directories(${OPENSSL_INCLUDE_DIR})
    list(APPEND LIB_LIST ${OPENSSL_LIBRARIES})
  endif()
endif(WITH_SSL)
```

http://www.opensource.apple.com/source/OpenSSL/OpenSSL-7.1/openssl/INSTALL?txt

Now i have installed Openssl, here :----

```
ssl header is here    -- > /usr/local/ssl/include/openssl/
ssl library is here   -- > /usr/local/ssl/lib/libssl.a
                          /usr/local/ssl/lib/libcrypto.a
openssl is here       -- > /usr/local/ssl/bin
```

I have set my .profile as :----

```
export
LD_LIBRARY_PATH=/usr/local/ssl/include/openssl:/usr/lib:/usr/local/lib:
/usr/lib/pkgconfig:/usr/local/include/wx-2.8/wx:$LD_LIBRARY_PATH
export PKG_CONFIG_PATH=/usr/lib/pkgconfig
export OPENSSL_ROOT_DIR=/usr/local/ssl
export OPENSSL_LIBRARIES=/usr/local/ssl/lib/

PATH = /usr/local/ssl/bin:$PATH
```

How to resolve this error ?

edit :--

Getting this error

```
/usr/local/lib/libcrypto.a(dso_dlfcn.o): In function
`dlfcn_globallookup':
dso_dlfcn.c:(.text+0x10): undefined reference to `dlopen'
dso_dlfcn.c:(.text+0x24): undefined reference to `dlsym'
dso_dlfcn.c:(.text+0x30): undefined reference to `dlclose'
```

openssl cmake

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this question edited Apr 27 '13 at 15:18 asked Apr 27 '13 at 5:41 Allan 401 2 10 25

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8 Answers

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解决方法

It is a common misunderstanding: CMake does not need environment variables to know where the library and include dir are but CMake variables.

Since CMake can not find your OpenSSL lib and include directory, you will have to manually tell him where they are with its command line when you call it. Use the option `-D` to set constants in CMake from the command line. You will need to set the constants `OPENSSL_ROOT_DIR` and `OPENSSL_LIBRARIES` since they are the one triggering the error.

```
cmake -DOPENSSL_ROOT_DIR=/usr/local/ssl -
DOPENSSL_LIBRARIES=/usr/local/ssl/lib
```

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this answer edited Apr 27 '13 at 17:47 answered Apr 27 '13 at 6:54 Morwenn 10.7k 5 51 102 1 one more problem .. how to set -ldl before linking -- openssl library ----- i have edited the error which i am getting ? -- libcrypto need ldl – Allan Apr 27 '13 at 15:19　　I don't know, maybe OPENSSL_LIBRARIES needed the library path itself and not only the library dir. In many libraries, you have to provide the path to the library itself. However, I think it should have crashed earlier if it was the case. I don't think I will be able to help you more than that, sorry :/ – Morwenn Apr 27 '13 at 17:46

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I had the same problem (openssl) and this worked for me on Ubuntu 14.04.1 LTS

```
sudo apt-get install libssl-dev
```

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this answer answered Dec 18 '14 at 16:20 Arwen 739 1 4 5　　Great! Thanks . – GutiMac Feb 2 '16 at 15:32 1　This should be 解决方法 answer! Thanks for solution! – Mirakurun Aug 15 '16 at 14:27　　Works on Ubuntu 16.04 LTS as well. – Falko Nov 29 '16 at 9:57　　No, this is not working anymore. – Erhard Dinhobl Dec 6 '16 at 8:54　　It is working for a brand new installation... – mimoralea May 16 at 1:52

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Please install openssl from below link:

https://code.google.com/p/openssl-for-windows/downloads/list

then set the variables below:

```
OPENSSL_ROOT_DIR=D:/softwares/visualStudio/openssl-0.9.8k_WIN32
OPENSSL_INCLUDE_DIR=D:/softwares/visualStudio/openssl-
0.9.8k_WIN32/include
OPENSSL_LIBRARIES=D:/softwares/visualStudio/openssl-0.9.8k_WIN32/lib
```

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this answer edited Dec 16 '14 at 14:32 bummi 23.5k 8 39 72 answered Dec 16 '14 at 14:00 user2568673 181 2 3　　Works like a charm, thanks! I was able to extract the zip file downloaded form the link you mentioned. After that I just added -DOPENSSL_ROOT-DIR="C:/Path/To/Extracted/Files". – Charlie Vieillard Apr 9 '15 at 8:05 2　This is now very out of date and probably dangerous to use. The openssl website has links to 2 sites that provide binaries. That's seems to be the problem with security related libs like this. However, setting the values like that should work with the other binary downloads too. – Beached Nov 10 '15 at 21:12　　You are the man with the answer, thanks! – Gerardo Sánchez Aug 29 '16 at 23:57

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fixed it on macOS using

```
brew install openssl
cmake -DOPENSSL_ROOT_DIR=/usr/local/opt/openssl -
DOPENSSL_LIBRARIES=/usr/local/opt/openssl/lib
```

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this answer answered Dec 29 '16 at 7:37 qin 388 2 11

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　　If you can use **pkg-config**: `pkg_search_module()` can find OpenSSL for you.

```
# Search OpenSSL
find_package(PkgConfig REQUIRED)
pkg_search_module(OPENSSL REQUIRED openssl)

if( OPENSSL_FOUND )
    include_directories(${OPENSSL_INCLUDE_DIRS})
```

.ng OpenSSL ${OPENSSL_VERSION}"）

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```
else()
    # Error; with REQUIRED, pkg_search_module() will throw an error by
it's own
endif()

target_link_libraries(${YOUR_TARGET_HERE} ${OPENSSL_LIBRARIES})
```

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this answer answered Oct 23 '14 at 18:06 ollo 16.1k 10 57 115

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　　Same problem, and fixed it on my centos 6.5 using the following command.

```
yum install openssl-devel
```

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this answer answered Dec 1 '14 at 6:55 xavierzhao 354 4 13

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　　@Morwenn is right. You need to config the openssl DIR. Before that you may need to make sure you have it. you should check whether you have it. first run `openssl version`,then if you have it you can `win + r` run `openssl` and you win find the core dir since it may not name as openssl in your system.

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this answer answered Apr 20 at 3:37 Shihe Zhang 185 1 2 23

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　　you are having the FindOpenSSL.cmake file in the cmake module(path usr/
d.cmake-3.5/modules) # Search OpenSSL

```
find_package(OpenSSL REQUIRED)
if( OpenSSL_FOUND )
    include_directories(${OPENSSL_INCLUDE_DIRS})
    link_directories(${OPENSSL_LIBRARIES})
    message(STATUS "Using OpenSSL ${OPENSSL_VERSION}")
else()
    # Error; with REQUIRED, pkg_search_module() will throw an error by
it's own
endif(OpenSSL_FOUND)
target_link_libraries(${YOUR_TARGET_HERE} ${OPENSSL_LIBRARY_DIR})
```

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this answer answered Jun 30 at 12:30 sekhar 1 1

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