**Building libcurl with SSL support using VS Express 2012 Desktop Edition**

24 Oct 2012 – Aron Dobos

1. Download software:
   1. ActivePerl: <http://www.activestate.com/activeperl/downloads>
   2. OpenSSL 1.0.1c <http://www.openssl.org/source/openssl-1.0.1c.tar.gz>
   3. Libssl 1.4.2 <http://www.libssh2.org/download/libssh2-1.4.2.tar.gz>
   4. Curl 7.28.0 <http://curl.haxx.se/download/curl-7.28.0.zip>
   5. Netwide assembler <http://www.nasm.us/pub/nasm/releasebuilds/2.10.05/win32/nasm-2.10.05-win32.zip>
2. Install ActivePerl if you don’t already have it
3. Create a folder c:\curl and un-tar openssl, libssl, and curl into this folder
4. Start menu -> run -> cmd.exe
5. cd C:\Program Files (x86)\Microsoft Visual Studio 11.0\VC\bin
6. vcvars32.bat
7. Test by typing cl.exe. Output is below:

C:\Program Files (x86)\Microsoft Visual Studio 11.0\VC\bin>cl

Microsoft (R) C/C++ Optimizing Compiler Version 17.00.50727.1 for x86

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1. Unzip the netwide assembler binaries to c:\nasm-2.10.05
2. Add it to the path path = %PATH%;C:\nasm-2.10.055
3. cd c:\curl\openssl-1.0.1c
4. perl Configure VC-WIN32 –-prefix=c:/curl/openssl\_dll
5. ms\do\_nasm
6. nmake –f ms\ntdll.mak
7. nmake –f ms\ntdll.mak test
8. nmake –f ms\ntdll.mak install
9. Open VS 2012 Express.
10. Open c:\curl\libssh2-1.4.2\win32\libssh2.dsw
11. Allow VS2012 to upgrade the project file
12. On the toolbar, select the “DLL Release” configuration.
13. Right click on ‘libssh2’ in the solution explorer, and select ‘Properties’
    1. Under ‘C/C++/General/Additional Include Directories’, add c:\curl\openssl\_dll\include;
    2. Under ‘Linker/General/Additional Library Directories’, add c:\curl\openssl\_dll\lib;
    3. Under ‘Linker/Input’, remove zlib.lib
14. Build the solution C:\curl\libssh2-1.4.2\win32\Release\_dll should have the files libssh2.dll and libssh2.lib
15. Close the project. Open C:\curl\curl-7.28.0\lib\libcurl.vcproj
16. Select the ‘Release’ build.
17. In solution explorer, select properties
18. In General, select Configuration Type = ‘Dynamic Library (.dll)’
19. Under C/C++/General/Additional Include Directories, add C:\curl\openssl-1.0.1c\inc32\;C:\curl\libssh2-1.4.2\include; c:\curl\openssl\_lib\include\; c:\curl\openssl\_lib\include\openssl
20. Under C/C++/Preprocessor/Preprocessor Definitions/ add USE\_OPENSSL;USE\_LIBSSH2;CURL\_DISABLE\_LDAP;HAVE\_LIBSSH2;HAVE\_LIBSSH2\_H;LIBSSH2\_WIN32 ;LIBSSH2\_LIBRARY;USE\_SSLEAY
21. Under Linker/Input/Additional Dependencies, add libssh2.lib;libeay32.lib;ssleay32.lib;ws2\_32.lib
22. Under Linker/General/Additional Library Directories, add C:\curl\libssh2-1.4.2\win32\Release\_dll;c:\curl\openssl\_lib\lib
23. Build. It should succeed.
24. Now you have all the dlls, libs, and relevant header files to include in other VC-2012 projects that use the v110 C runtime.