Jeremy Kuhne's Blog

Thoughts from a developer on the Expression Suite. Coding tidbits (Managed C++, C#, interoping with unmanaged code) and just general things related to Expression.

SSCLI 2.0 and Visual Studio 2008

Published 19 February 08 09:30 AM | jkuhne

The currently available SSCLI 2.0 (Rotor) does not build successfully with Visual Studio 2008. I've managed to make it build and I thought I'd share my changes. Be very aware:

- 1. I haven't done anything resembling thorough testing on these changes
- 2. I made the changes so that it would build for me on my 32bit Vista machine
- 3. I avoided changing source files, and focused on build files
- 4. The warnings I disabled are pretty tame, see #3
- 5. I tried to keep the changes to a minimum
- 6. I know next to nothing about NMAKE
- 7. I have no idea about any MS plans regarding SSCLI and VS2008
- 8. This is does not constitute official support for building SSCLI in VS2008

\sscli20\mswin32.startup.pl

1. change the if block that begins at line 41:

```
if (my $msvcdir = Get("MSVCDir")) {
    # These are the INCLUDE paths used during the primary bootstrap.
    my $winsdkdir = Get("ROTOR_WINSDKDIR");
    Set("SDK_INC_PATH_BOOT", catdir ($winsdkdir, "include"));
    Set("CRT_INC_PATH_BOOT", catdir ($msvcdir, "Include"));
    Set("SDK_LIB_PATH", catdir ($winsdkdir, "lib"));
    Set("CRT_LIB_PATH", catdir ($msvcdir, "lib"));
    Set("VC_BIN_PATH", catdir ($msvcdir, "bin"));
}
```

\sscli20\win.env.bat

- 1. change %VS80COMNTOOLS% on line 37 to %VS90COMNTOOLS%
- 2. after line 42, insert the following:

```
REM Set the SDK path
if "%ROTOR_WINSDKDIR%"=="" set ROTOR_WINSDKDIR=%WindowsSdkDir%
if "%ROTOR_WINSDKDIR%"=="" set ROTOR_WINSDKDIR=%MSVCDIR%\PlatformSDK
call :ShortName "%ROTOR_WINSDKDIR%"
set ROTOR WINSDKDIR=%RESULT%
```

\sscli20\clr\src\classlibnative\nls\wks\sources; \sscli20\clr\src\debug\daccess\wks\sources; \sscli20\clr\src\vm\dacwks\sources; \sscli\clr\src\classlibnative\float\wks\sources; \sscli\clr\src\vm\wks\sources; \sscli\c

\sscli\clr\src\vm\wks3\sources; \sscli\clr\src\vm\wks4\sources

1. Kill line 16 (MSC WARNING LEVEL =-Wp64)

\sscli\clr\src\classlibnative\float\sources.inc

1. Kill line 21 (COMPILER WARNINGS =/W4)

\sscli20\clr\src\toolbox\sos\strike\sources

1. Kill line 18 (MSC WARNING LEVEL =/W4)

\env\bin\devdiv.def

- 1. Change line 334 to SUBSYSTEM WINVER = ,5.00
- 2. Change line 338 to *SUBSYSTEM_CONVER* = ,**5.00**

\pal\inc\vs9.h (NEW FILE)

```
// Patch up the conflicting defines to allow building with VS9
#undef MAKEWORD
#undef MAKELONG
#undef LOWORD
#undef HIWORD
#undef LOBYTE
#undef HIBYTE
#undef IPPROTO_IP
#undef IPPROTO_ICMP
#undef IPPROTO_IGMP
#undef IPPROTO_GGP
#undef IPPROTO_TCP
#undef IPPROTO_PUP
#undef IPPROTO_UDP
#undef IPPROTO_IDP
#undef IPPROTO_ND
#undef IPPROTO_RAW
#undef INADDR_ANY
#undef INADDR_BROADCAST
#undef INADDR_NONE
#pragma warning (disable :4985)
#define IMAGE_SIZEOF_NT_OPTIONAL32_HEADER
                                              224
#define IMAGE_SIZEOF_NT_OPTIONAL64_HEADER
                                              240
#ifdef WIN64
#define IMAGE_SIZEOF_NT_OPTIONAL_HEADER
                                             IMAGE_SIZEOF_NT_OPTIONAL64_HEADER
#define IMAGE_SIZEOF_NT_OPTIONAL_HEADER
                                             IMAGE_SIZEOF_NT_OPTIONAL32_HEADER
#endif
```

\sscli20\pal\win32\win32pal.h

1. Add #include < Vs9.h > after line 1272 (before the windows includes)

\sscli20\tools\binplace\sources; \sscli\clr\src\tools\ildbdump\sources

1. Change line 27 SUBSYSTEM VERSION=4.00 to SUBSYSTEM VERSION=5.00

\sscli20\tools\resourcecompiler\sources

1. Change line 31 SUBSYSTEM_VERSION=4.00 to SUBSYSTEM_VERSION=5.00 \sscli20\tools\cppmunge\sources

. 0

1. Change line 24 SUBSYSTEM VERSION=4.00 to SUBSYSTEM VERSION=5.00

\sscli20\tools\build\sources

1. Change line 48 SUBSYSTEM VERSION=4.00 to SUBSYSTEM VERSION=5.00

\sscli20\pal\win32\make.cmd

1. Kill the *if not "%ROTOR_TOOLSET_VERSION%"* block from line 43-46

\sscli20\clr\src\vm\sources.inc

- 1. Add *-wd4800* to the end of line 22
- 2. Delete lines 23-25

\ssclie20\clr\src\classlibnative\nls\sources.inc

1. Add *-wd4800* to the end of line 20

\sscli20\csharp\sccomp\sources.inc

1. Kill lines 52-54 (USER C FLAGS)

\sscli20\pal\win32\rotor pal.src

1. Replace line 57 (#if MSC VER == 1400) with:

```
#if _MSC_VER == 1500
   #define _MSVCRT MSVCR90D
#elif MSC VER == 1400
```

1. b. Replace line 67 (#if MSC VER == 1400) with:

```
#if _MSC_VER == 1500
  #define _MSVCRT MSVCR90
#elif _MSC_VER == 1400
```

Well there you have it. Hopefully I didn't miss any of my changes or make too many typos. I ran through these instructions on a clean install of SSCLI and was able to successfully build per the docs and compile and run HelloWorld.

Filed under: <u>SSCLI</u>, <u>Rotor</u>, <u>Visual Studio</u>

Comments

Jeremy Kuhne's Blog said on February 20, 2008 12:57 PM:

In my last post I got SSCLI compiling with the 2008 C++ compiler (SSCLI 2.0 and Visual Studio 2008).

Alexey said on May 8, 2008 7:43 AM:

Компиляция SSCLI 2.0 при помощи Visual Studio 2008

xwang said on May 12, 2008 1:07 PM:

参考资料:BATCHFILEReference:http://technet.microsoft.com/en-us/library/bb491071.aspxBATCHHelp:htt...

Risman Adnan said on July 16, 2008 4:01 AM:

I tried to compile SSCLI 2.0 with VC++ 2008 on Vista, and again, too many error messages, due to : -

MichaelMcClung said on July 17, 2008 9:41 AM:

Thanks for the post! It worked perfectly on my Vista x64 machine (it built using a x86 target).

lbq1221119 said on November 11, 2008 10:43 PM:

以前build过几次sscli20都成功了,这次换了个新的环境build,没想到出了一大堆的问题。折腾了半天,最终搞定,把解决问题的过程和方法都记录下来。

<u>lbq1221119</u> said on November 11, 2008 10:46 PM:

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