How to build CSIM20 models from the command line

The first step is to get Visual C++ Express Edition 2008 installed and a Visual Studio command prompt set-up. The handout vcCmdLine.pdf describes how to set-up the command prompt. This handout is replicated on the second page here for convenience. The second step is to copy over the CSIM files for Visual C++ Express Edition. In this "mess" of files you need to find rellib.lib and csim.h, and that is it. Put these files in a directory and you can build models. The below screenshot shows this (the file mml_csim.c you can find here: http://www.csee.usf.edu/~christen/tools/toolpage.html#simulation).

- 🗆 🗙 Administrator: VC++ cmd ٠ c:\xxx\studentCmdLine>dir Volume in drive C is SW_Preload Volume Serial Number is 803B-9A1C Directory of c:\xxx\studentCmdLine 06/10/2009 02:44 PM <DTR> 06/10/2009 <DIR> 02:44 PM 03:17 PM 05/09/2009 43,511 csim.h 01/27/2004 8,695 mm1_csim.c 04:44 AM 05/10/2009 11:52 AM 936,174 rellib.lib 3 File(s) 988,380 bytes 2 Dir(s) 39,574,413,312 bytes free c:\xxx\studentCmdLine>cl mm1_csim.c rellib.lib Microsoft (R) 32-bit C/C++ Optimizing Compiler Version 15.00.21022.08 for 80x86 Copyright (C) Microsoft Corporation. All rights reserved. mm1_csim.c Microsoft (R) Incremental Linker Version 9.00.21022.08 Copyright (C) Microsoft Corporation. All rights reserved. /out:mm1_csim.exe mm1_csim.obj rellib.lib c:\xxx\studentCmdLine>dir mm1 csim.exe Volume in drive C is SW_Preload Volume Serial Number is 803B-9A1C Directory of c:\xxx\studentCmdLine 02:45 PM 06/10/2009 192,000 mm1_csim.exe 192,000 bytes 1 File(s) 0 Dir(s) 39,574,224,896 bytes free c:\xxx\studentCmdLine>

How to get a Visual C++ Express Edition command prompt

Very often it is easier to build C programs using command line tools and not using an IDE. I have found two ways to get Visual C++ Express Edition to work at the command prompt. One way is to open the IDE and select the "Visual Studio 2008 Command Prompt" option as shown below (this is quite simple!):

🐏 Visual C++ 2008	Expre	ss Edition (Administrator)	1	in I	Commention		-
File Edit View	Tool	Window Help	_				
: 🛐 🛨 🛅 👻 💕 🛛		Attach to Process Ctrl+Alt+P	-		-	1	gettime
19 III 🔍 🎬	Ч,	Connect to Database					
Solution Explorer	B	Code Snippets Manager Ctrl+K, Ctrl+B					
		Choose Toolbox Items					
		ILDasm					
		Visual Studio 2008 Command Prompt					
		External Tools					
		Import and Export Settings					
🖏 Solut 🐼 Class		Customize					
Output		Options					
Show output from:		 ↓ ↓					

Another way is to set-up a Command Prompt shortcut on your desktop with the target set to vcvarsall.bat. You will need to enter exactly this (with only the path different if yours is indeed different) in the target field:

```
%comspec% /k ""C:\Program Files\Microsoft Visual Studio 9.0\VC\vcvarsall.bat"" x86
```

Here is a partial screenshot to show you where to enter this:

Colors	Compatibility	Se	ecurity	Details	
General	Shortcut	Options	Font	Layout	
	VC++ cmd				
_					
Target type:	Application				
Target type: Target location					