

Update your Path variable to include the location of csc.exe for the C# Batch compiler.

Unfortunately, the installation program of the .Net Framework and Visual Studio does not update the Windows Path variable to enable Windows to automatically find the C# batch compiler---csc.exe which is located in a subfolder deep within the .Net Framework structure. You need to do it manually. Before following these steps, be sure you know what folder csc.exe is located in---on my machine, it's here...

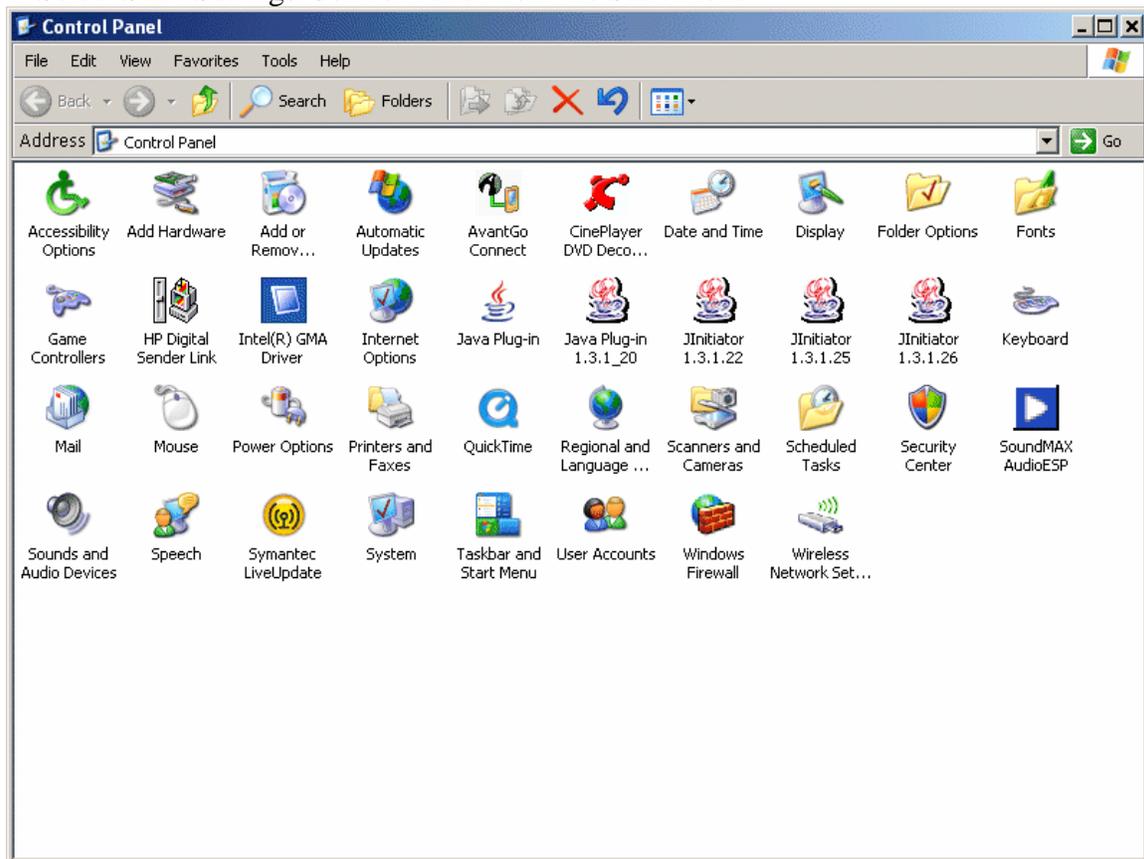
C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727

Your location may be slightly different---depending upon the version of the .Net Framework that you have installed on your PC.

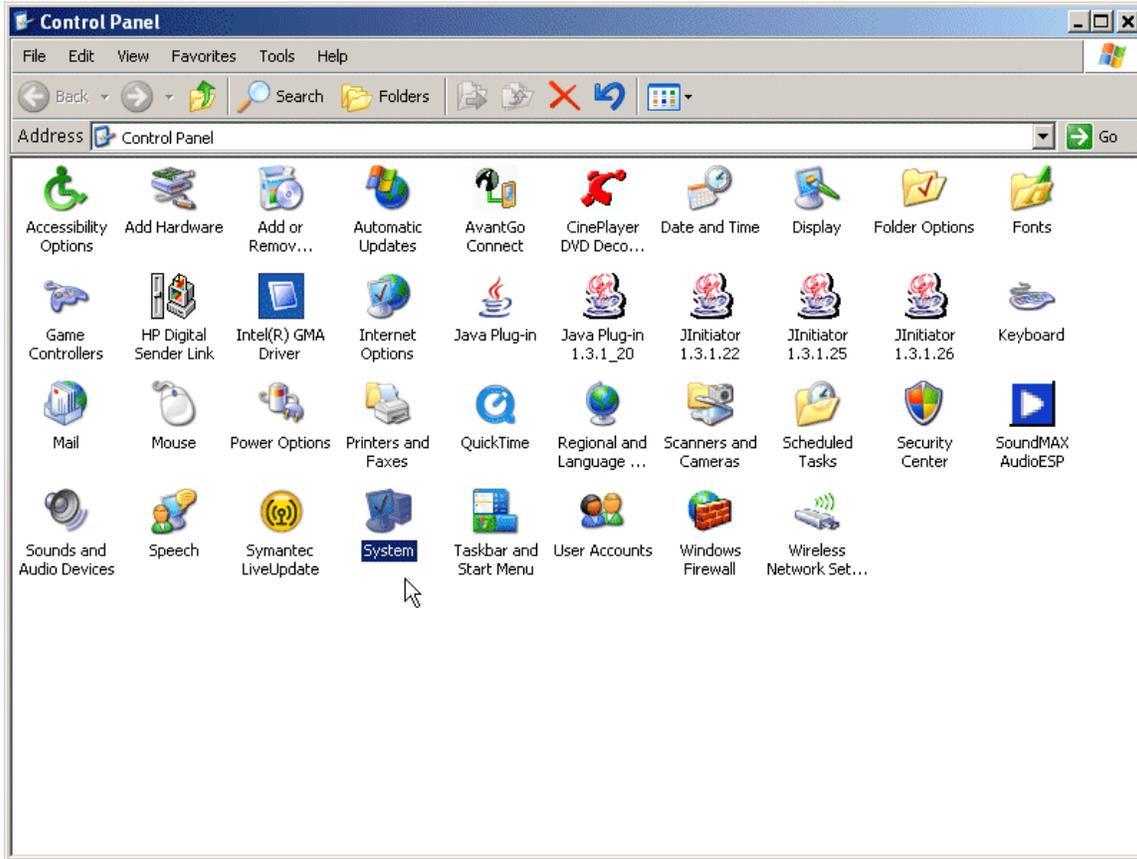
You can do a Start-Search and type in the file name csc.exe---Search should tell you where it's found.

Now, to update the Path...

1. Select Start-Settings-Control Panel from the Start Menu



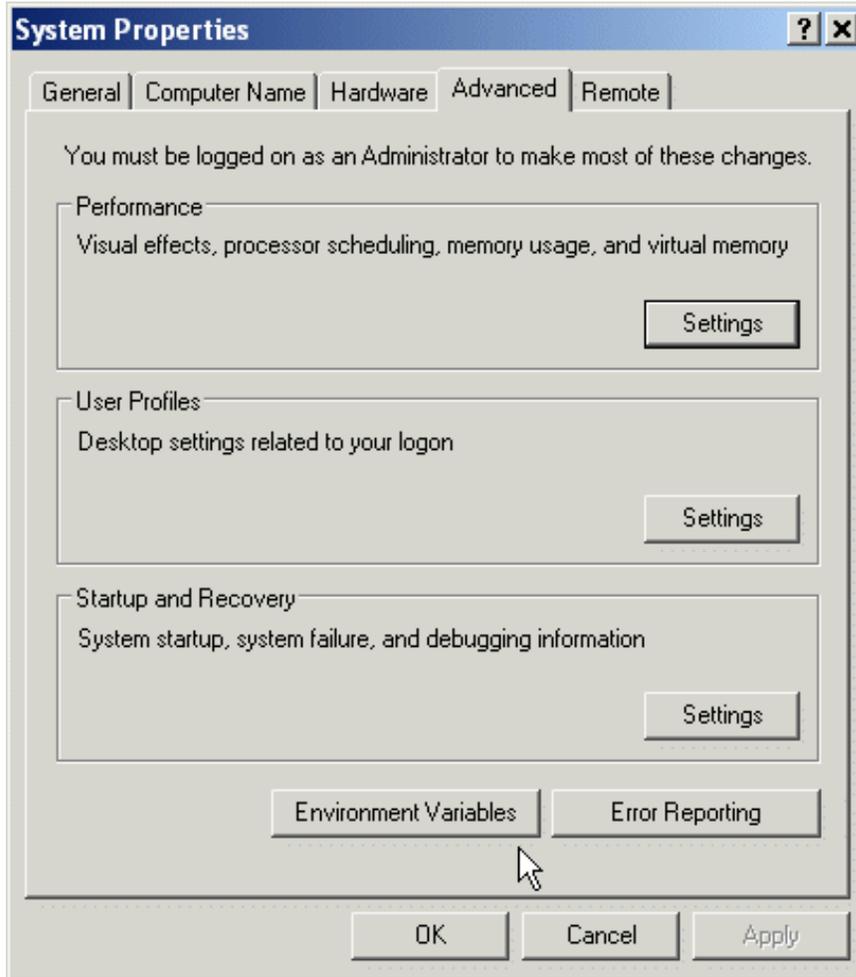
2. When the Control Panel appears, click on the System icon



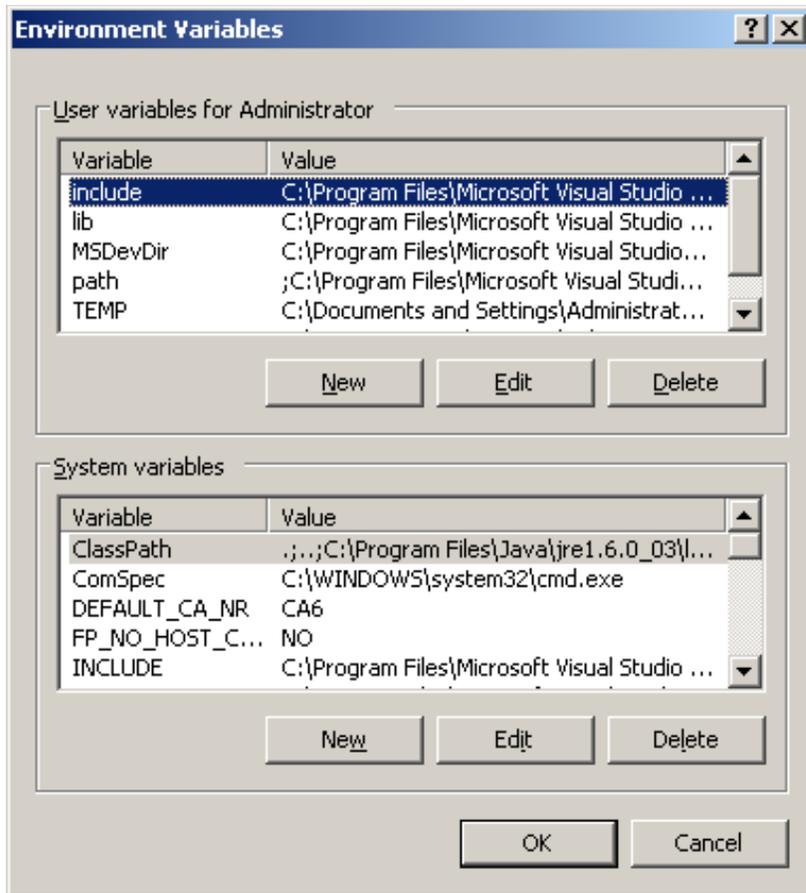
3. When the System Properties window appears, select the Advanced Tab



4. On the Advanced Tab, Click on the Environmental Variables button towards the bottom of the window.



5. When the Environmental Variables window appears, two panels will appear---you want to update the top most panel---those are the Environmental Variables for the user currently logged on---in the Screenshot below, that is Administrator.



Note that I already have a path variable defined on my PC---you may or may not have one.

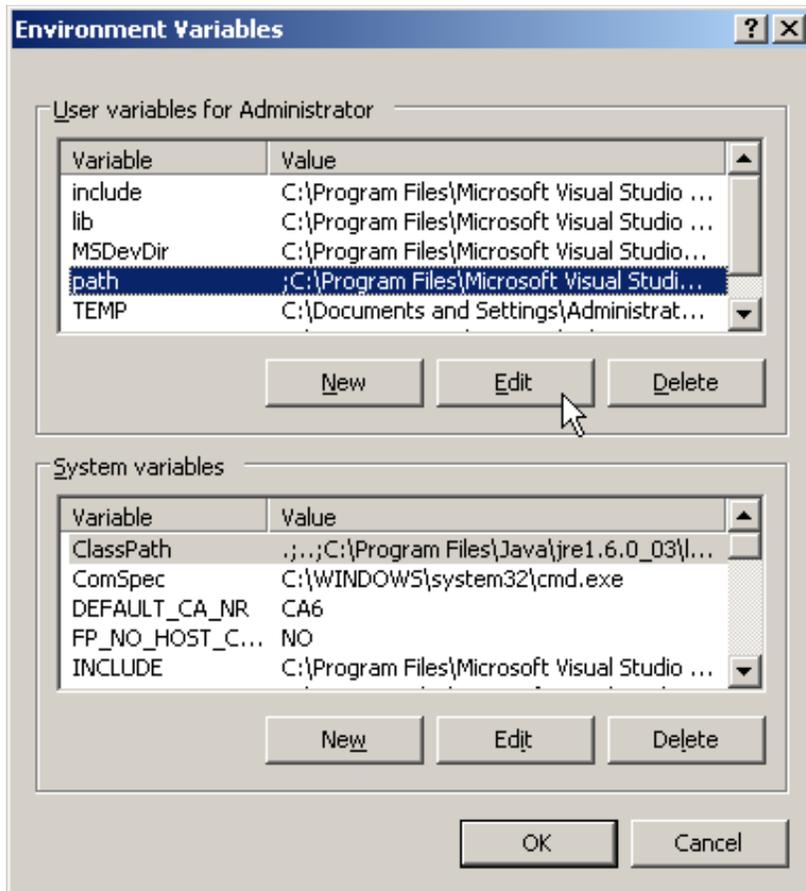
If you have one already, you want to add the path to csc.exe to the end of the existing path. I'll show you how to do that in a moment. This is VERY IMPORTANT---you don't want to erase what's already there, or some programs that are now running fine may not run after you're done. I can't be responsible for what will happen if you erase the current PATH setting!

If you don't see a Path variable there already, you will need to add one by clicking on the New button.

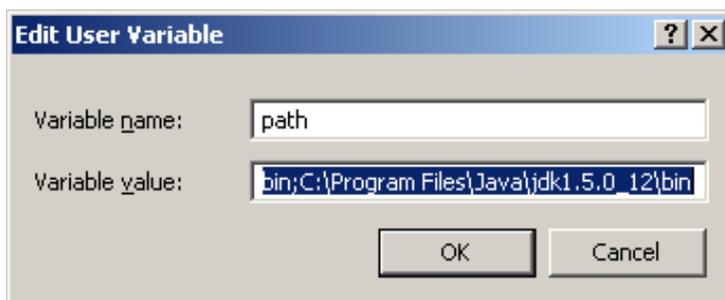
Regardless as to whether you are Editing an existing Path variable or adding a new one, the value you enter will be the same.

Let's move on to editing the existing setting.

6. Select Path in the top most Panel, and then click on the Edit button...



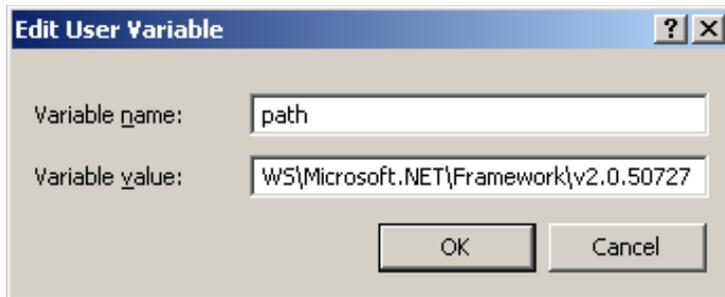
7. When you click on the Edit button, a window will appear...



8. The variable name should read path (it may be Path also, that's fine). Notice how the Variable value is highlighted for you. If you hit the space bar or backspace key, you will erase the existing value. Don't do that!

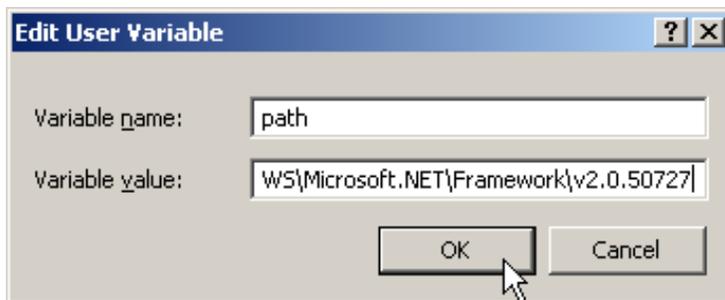
Carefully position your cursor to the end of the Variable value, and click it---that should place your insertion point at the end of the value.

Then, type a semicolon (;) and then add the location of the csc.exe program that you noted above to the end of existing value, like this...

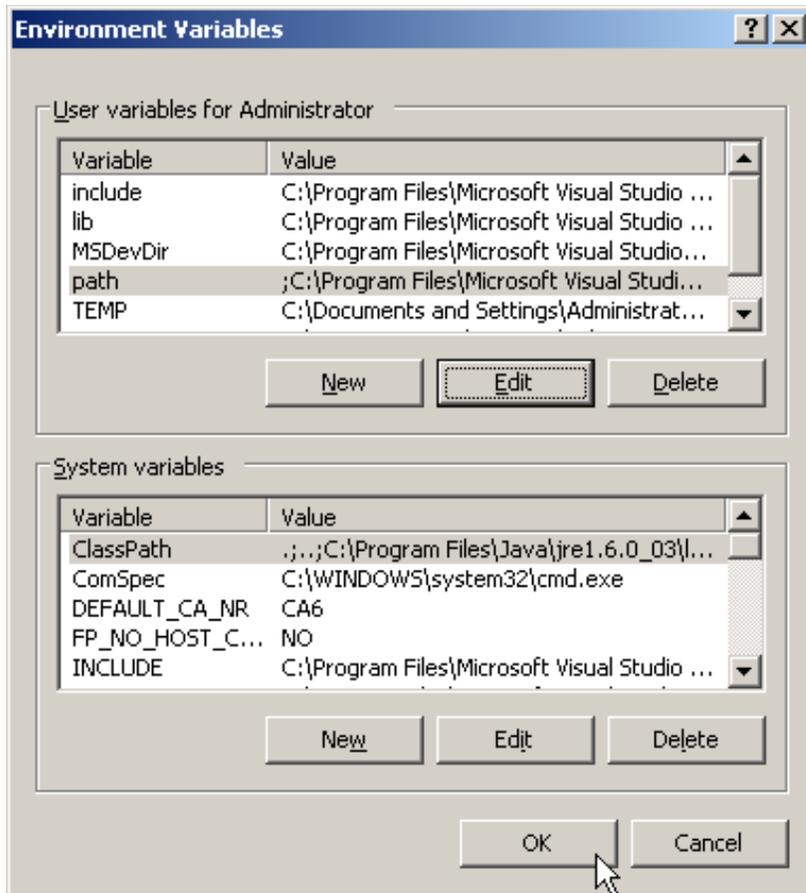


Again, it's important that there be a semicolon in front of the path value you just entered--semicolons are how the individual path locations in the Path variable are separated.

9. Click the OK button to save the value...

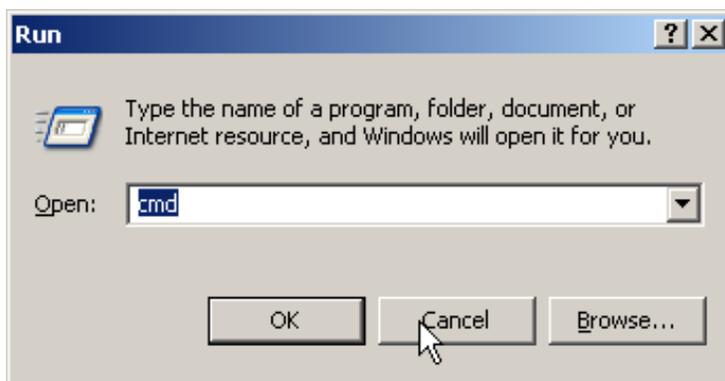


10. Then click OK to close the Control Panel...



If for some reason, you don't see an existing Path variable, you can just add one by clicking on the New button instead of the Edit button. You will follow similar steps to add the value for the Path variable---but this time, your value for the location of csc.exe will be the only one there.

11. Test to see that your Path variable has 'taken' by typing Start-Run and entering cmd.com in the Run box...



12. Click the OK button, and you will exit to a command window...

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\Administrator>
```

13. Type the word Path followed by the Enter key, and you should see the current value for the Path variable---you should see the location for csc.exe in it.

```
C:\WINDOWS\system32\cmd.exe
C:\Documents and Settings\Administrator>path
PATH=C:\PROGRAM~1\GRADKE~1\DBSIGN~1\lib;C:\Program Files\ActivCard\ActivCard Gold\resources;C:\WINDOWS\system32;C:\WINDOWS;C:\WINDOWS\System32\Wbem;C:\Program Files\Common Files\Roxio Shared\DLLShared\;C:\Program Files\Microsoft SQL Server\80\Tools\Binn\;c:\borland\bcc55\bin;C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727;C:\Program Files\Common Files\Teleca Shared;c:\Program Files\Microsoft SQL Server\90\Tools\bin\;C:\Program Files\QuickTime\QTSystem\;;C:\Program Files\Microsoft Visual Studio\Common\Tools\WinNT;C:\Program Files\Microsoft Visual Studio\Common\MSDev98\Bin;C:\Program Files\Microsoft Visual Studio\Common\Tools;C:\Program Files\Microsoft Visual Studio\VC98\bin;C:\Program Files\Java\jdk1.5.0_12\bin
C:\Documents and Settings\Administrator>
```

Note: It may not be the very last entry---the Path value that you see here is a combination of the User Path value and the System Variables Path value (the bottom pane in the Environmental Variables tab---but you should see it in there somewhere).

14. You should now be able to compile a program by typing csc.exe---if you type csc.exe at the command prompt, the compiler should start up (although it will complain that there is no source file to compile...)

```
C:\WINDOWS\system32\cmd.exe
C:\Documents and Settings\Administrator>path
PATH=C:\PROGRAM~1\GRADKE~1\DBSIGN~1\lib;C:\Program Files\ActivCard\ActivCard Gold
\resources;C:\WINDOWS\system32;C:\WINDOWS;C:\WINDOWS\System32\Wbem;C:\Program Fi
les\Common Files\Roxio Shared\DLLShared\;C:\Program Files\Microsoft SQL Server\8
0\Tools\Binn\;c:\borland\bcc55\bin;C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727
;C:\Program Files\Common Files\Teleca Shared;c:\Program Files\Microsoft SQL Serv
er\90\Tools\bin\;C:\Program Files\QuickTime\QTSystem\;;C:\Program Files\Microso
ft Visual Studio\Common\Tools\WinNT;C:\Program Files\Microsoft Visual Studio\Com
mon\MSDev98\Bin;C:\Program Files\Microsoft Visual Studio\Common\Tools;C:\Program
Files\Microsoft Visual Studio\VC98\bin;C:\Program Files\Java\jdk1.5.0_12\bin
C:\Documents and Settings\Administrator>
```