

Visual Studio 2013

For Frog projects, we've switched from "Visual Studio Express 2005" to "Visual Studio Express 2013 for Windows Desktop Update 3". The installer is on QNAP at "\\Public\Installables\Programming\PC\VisualStudio2013\vs2013.3_dskexp_ENU.iso". This is a full installer that includes update 3. Instructions for configuring the new debugger to work with Frog's data structures can be found on the wiki in [Frog Programmer Setup](#). You'll still need the FROG_LIBS environment variable set to the root of your FrogSrc checkout. You may need to register the compiler with Microsoft at some point. Other than that, there aren't any special setup instructions for the new compiler. DirectX is not currently necessary.

If you don't have the compiler installed, new builds will probably require a new Visual C++ redistributable. This can be found on QNAP at "\\Public\Installables\Programming\PC\VisualStudio2013\vccredist_x86.exe" and on Google Drive at "WebfootUnversioned\Redistributables\vccredist_x86.exe".

Visual Studio 2005

Microsoft generously offers Visual Studio 8 (2005) Express for free forever. It doesn't come with all the SDK but those can also be downloaded and installed separately to create a full-blown VC8 windows compiler. This articles explains how to setup all these in order to recompile our games using the Frog C++ libraries.

Getting The Software

- The compiler: ISO files are technically not available for download anymore, MS has no links, but does keep the iso files online too.
 - The ISO download: <http://go.microsoft.com/fwlink/?linkid=57034> [<http://go.microsoft.com/fwlink/?linkid=57034>]
 - Online installer: <http://download.microsoft.com/download/8/3/a/83aad8f9-38ba-4503-b3cd-ba28c360c27b/ENU/vcsetup.exe> [<http://download.microsoft.com/download/8/3/a/83aad8f9-38ba-4503-b3cd-ba28c360c27b/ENU/vcsetup.exe>]
- Compiler patches: Use these to update to Visual C++ 2005 SP1.
 - Visual C++ 2005 SP1 patch for XP and Vista/7 (VS80sp1-KB926748-X86-INTL.exe): <http://www.microsoft.com/en-us/download/details.aspx?id=804> [<http://www.microsoft.com/en-us/download/details.aspx?id=804>]
 - Additional Visual C++ 2005 SP1 patch for Vista/7 (VS80sp1-KB932232-X86-ENU.exe): <http://www.microsoft.com/en-us/download/details.aspx?id=7524> [<http://www.microsoft.com/en-us/download/details.aspx?id=7524>]
- The Platform SDK: to compile windows applications
 - <http://www.microsoft.com/downloads/details.aspx?FamilyID=e15438ac-60be-41bd-aa14-7f1e0f19ca0d&DisplayLang=en> [<http://www.microsoft.com/downloads/details.aspx?FamilyID=e15438ac-60be-41bd-aa14-7f1e0f19ca0d&DisplayLang=en>]
 - <http://www.microsoft.com/download/en/details.aspx?id=22668> [<http://www.microsoft.com/download/en/details.aspx?id=22668>]
- The Direct/X SDK: To compile direct/X applications
 - <http://www.microsoft.com/downloads/details.aspx?familyid=d625324c-59b4-4951-849e-640b508dc442&displaylang=en> [<http://www.microsoft.com/downloads/details.aspx?familyid=d625324c-59b4-4951-849e-640b508dc442&displaylang=en>]
- The version from October 2006 is the last one which can compile application to run on Windows 9x computers

Burn everything onto CD for backup and to also make the install easier.

Setting Up The Software

Installing

- Install the compiler as Administrator or Owner into
 - C:\Program Files\Programming\Microsoft Visual Studio 8
 - C:\Program Files (x86)\Programming\Microsoft Visual Studio 8 Windows 7
- Install the Windows Platform SDK in
 - C:\Program Files\Programming\Microsoft Visual Studio 8\SDK\v2.0
 - C:\Program Files (x86)\Programming\Microsoft Visual Studio 8\SDK\v2.0 Windows 7
- Don't exclude parts of the SDK from being installed, even if you don't expect to use them.
- Install the Direct/X SDK in
 - C:\Program Files\Programming\Microsoft Visual Studio 8\SDK\v2.0
 - C:\Program Files (x86)\Programming\Microsoft Visual Studio 8\SDK\v2.0 Windows 7
- Install the Visual C++ 2005 SP1 patches. For Windows XP, install VS80sp1-KB926748-X86-INTL.exe. For Windows Vista/7, install both VS80sp1-KB926748-X86-INTL.exe and VS80sp1-KB932232-X86-ENU.exe.
- Edit Config Files: corewin_express.vsprops==
 - So the compiler finds them without having to modify the project files from older versions of VC
 - Update the corewin_express.vsprops file to make the Win32 template work in Visual C++ Express. You need to edit the corewin_express.vsprops file (found in C:\Program Files\Programming\Microsoft Visual Studio 8\VC\VCProjectDefaults)
 - notepad "C:\Program Files\Programming\Microsoft Visual Studio 8\VC\VCProjectDefaults\corewin_express.vsprops"
 - notepad "C:\Program Files (x86)\Programming\Microsoft Visual Studio 8\VC\VCProjectDefaults\corewin_express.vsprops"
 - and change the string that reads:

```
AdditionalDependencies="kernel32.lib"
```

- to

```
AdditionalDependencies="kernel32.lib user32.lib gdi32.lib winspool.lib comdlg32.lib advapi32.lib shell32.lib ole32.lib oleaut32.lib uuid.lib"
```

- And add these lines so it find afxres.h properly (used in some tools)

```
<Tool
  Name="VCResourceCompilerTool"
  AdditionalIncludeDirectories="$(FrameworkSDKDir)Include\mf"
/>
```

- So that when you're done, you should have a corewin_express.vsprops file that looks like this:

Copy Direct/X libs

- Copy the Direct/X lib that are in

```
C:\Program Files\Programming\Microsoft Visual Studio 8\SDK\v2.0\Lib\x86
```

- into

```
C:\Program Files\Programming\Microsoft Visual Studio 8\SDK\v2.0\Lib
```

- Until we start making x64 build that should do the trick.

Edit AppSettings.htm

- In Visual C++ Express, the Win32 Windows Application type is disabled in the Win32 Application Wizard. To enable that type, you need to edit the file AppSettings.htm

```
notepad "C:\Program Files\Programming\Microsoft Visual Studio 8\VC\VCWizards\AppWiz\Generic\Application\html\1033\AppSettings.htm"
notepad "C:\Program Files (x86)\Programming\Microsoft Visual Studio 8\VC\VCWizards\AppWiz\Generic\Application\html\1033\AppSettings.htm"
```

- And comment out lines 441 - 444 by putting a // in front of them as shown here:

```
// WIN_APP.disabled = true;
// WIN_APP_LABEL.disabled = true;
// DLL_APP.disabled = true;
// DLL_APP_LABEL.disabled = true;
```

- Run VC Express once from an Administrator account (Run as) so it register the proper extensions.
- Move the following Start Menu shortcuts into C:\Documents and Settings\All Users\Start Menu\Programs\Programming
 - Microsoft DirectX SDK (December 2006)
 - Microsoft Platform SDK for Windows Server 2003 R2
 - Visual C++ 2005 Express Edition

Problems

Windows 7

- Windows 7 will not allow you to install the VC 2005 software into c:/Program Files/Programming/ sub-folder! Even creating those folders manually and setting permissions on them will not work. However, you can install to C:/Program Files (x86)/Programming/ without doing anything special. In fact, even if you specify "Program Files" as the destination path, the VC 2005 installer will still place the compiler into the (x86) folder. So for Windows 7, that is what we recommend.

Related Links

- <http://msdn.microsoft.com/vstudio/express/support/install/> [<http://msdn.microsoft.com/vstudio/express/support/install/>] You can't get the 2005 ISO from here anymore!
- <http://msdn.microsoft.com/vstudio/express/default.aspx> [<http://msdn.microsoft.com/vstudio/express/default.aspx>]
- <http://msdn.microsoft.com/vstudio/express/support/faq/> [<http://msdn.microsoft.com/vstudio/express/support/faq/>]
- <http://msdn.microsoft.com/vstudio/express/visualc/usingpsdk/> [<http://msdn.microsoft.com/vstudio/express/visualc/usingpsdk/>]
- <http://www.microsoft.com/visualstudio/en-us/products/2005-editions> [<http://www.microsoft.com/visualstudio/en-us/products/2005-editions>]
- <http://appdb.winehq.org/objectManager.php?sClass=version&iId=14208> [<http://appdb.winehq.org/objectManager.php?sClass=version&iId=14208>] Links to 2005 iso

2008

- <http://www.microsoft.com/visualstudio/en-us/products/2008-editions/express> [<http://www.microsoft.com/visualstudio/en-us/products/2008-editions/express>]