Installing Eclipse CDT and MinGW

Downloading and Installing Eclipse CDT

1. Go to the webpage: http://www.eclipse.org/cdt/



2. Click the "Downloads" tab, and scroll down to the "CDT 8.0.2 for Eclipse Indigo" section, and click the link: <u>Eclipse C/C++ IDE Indigo SR2</u>. Do not select the "Juno" version of Eclipse CDT—it does not integrate properly with MinGW.

3. Select the proper download package for your operating system (e.g., Windows 64-bit) from the right side of the page. If you are running Windows, and do not know if your operating system is 32 or 64-bit, open the Control Panel from the Start menu, select "System", and look at the value under "System type".

4. Click the download link. If you find that the file is downloading too slowly, then stop the download and select one of the mirror sites shown at the bottom of the page.

5. When the download is complete, locate the zip file, and extract its contents. The result will be a directory called "eclipse". Unlike many other application programs that you download from the internet, you do not have to run a separate installer program to install Eclipse—you can run Eclipse immediately by clicking on the eclipse.exe file in the eclipse folder.

6. Move your eclipse folder to some easy to access place on your computer other than the Desktop. May we suggest the "Local Disk", which is often the "C:" drive on Windows machines.

7. Locate the eclipse.exe file in the recently moved eclipse folder, and create a shortcut for that file by right clicking on its icon, and selecting "Create shortcut".

8. Move the newly created shortcut to your desktop, quick launch menu, or taskbar at the bottom of the screen so you can run it whenever you like without having to open up directories—this should make your life easier.

9. Now, launch Eclipse for the first time by double-clicking the shortcut. You will be asked to "Select a workspace". Change the default option to "C:\workspace", or if your Local Disk is not the "C:" drive, then change it to a directory

called workspace in your Local Disk. This will also make your life easier. Check the box "do not ask again" if you don't want Eclipse to annoy you about this each time you run it.

10. After Eclipse finished loading, I suggest you select "Turn UDC feature off" so Eclipse does not spy on you collect usage data.

Downloading and Installing MinGW

1. Go to the MinGW website at: http://www.mingw.org/

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MinG Minimalist	(V GNU for Windows					
Search this site: Search Administrative Update	⇒ Welcome to MinGW.org Home of the MinGW and MSYS Projects					
Thanks to NETWORKREDUX OPEN SOURCE HOSTING As of March 4th, 2009 13:30 UTC we have a new hosting provider for our web portal. Please consider giving NetworkRedux your hosting business as a thank you to providing FOSS projects hosting solutions.	MinGW, a contraction of "Minimalist GNU for Windows", is a minimalist development environment for native Microsoft Windows applications. MinGW provides a complete Open Source programming tool set which is suitable for the development of native MS-Windows applications, and which do not depend on any 3rd-				Compiler more Search mingw-users	
	party C-Runtime DLLs. (It does depend on a number of DLLs provided by Microsoft themselves, as components of the operating system; most notable among these is MSVCRT.DLL, the Microsoft C runtime library. Additionally, threaded applications mus with a freely distributable thread support DLL, provided as part of MinGW itself).			Choose Ma MinGW-us Search		
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2. On the left side of the page, under the Navigation section (you may have to scroll down a little) click the "downloads" link under "About". You will be redirected to the Sourceforge site.

3. Download the installer for the latest version of MinGW by clicking on the "Download mingw-get-inst-XXXXXX.exe (XXX.X kB)" link.

4. Launch the installer by double-clicking on the .exe file that was just downloaded.

5. While running the installer, you can use the default options, except that you should also select the "C++ compiler" option for installation when you are asked to "Select components".

Additional Step for C++ compiler

1. Go to the windows Control Panel and open it

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t Red & St W System Edit environment variables for your account W Edit the system environment variables Click here Click here	System Properties Computer Name Hardware Advanced System Protection Remote You must be logged on as an Administrator to make most of these changes. Performance Visual effects, processor scheduling, memory usage, and virtual memory Visual effects, processor scheduling, memory usage, and virtual memory Settings User Profiles Desktop settings related to your logon Settings Startup and Recovery System startup, system failure, and debugging information Settings Settings	Search for word environment here
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2. Now add path

System Properties			
Computer Name Hardware Advanced System Protection Remote You must be logged on as an Administrator to make most of these changes. Performance Visual effects, processor scheduling, memory usage, and virtual memory	Environment Varia		
visual effects, processor scheduling, memory usage, and vitual memory Settings	Variable	Value %USERPROFILE%\AppData\Local\Temp	Edit System Variable
User Profiles Desktop settings related to your logon	TMP	%USERPROFILE%\AppData\Local\Temp %USERPROFILE%\AppData\Local\Temp	Variable name: Path
Settings		New Edit Delete	Variable value: I Files\QuickTime\QTSyst m\;C:\VinGW\bin
Startup and Recovery System startup, system failure, and debugging information	System variables	Value	
Settings	OS Path	Windows NT C:\windows\system32;C:\windows;C:\	Now add path to your MinGW/bin folder.Default is C:\MinGW\bin
Environment Variables	Find a Path		Do not forget to put semicolon ; before adding a path!
OK Cancel Apply	variable	OK Cancel	
Click on this button			

3. Reboot your computer

Verifying your Installation

1. Once MinGW is finished installing, run Eclipse, and right-click in the "Project Explorer" frame on the left, and select "New -> C++ Project".



2. In the window that should now appear, select "Hello World ANSI C Project" and "MinGW GCC". Also enter in a name for the project at the top—"TestProject" should work fine. Then, click "Finish".

C++ Project	- • •
C++ Project Project name must be specified	
Project name: Image: Second	codes Browse
Choose file system: default	Toolchains: Microsoft Visual C++ MinGW GCC
Show project types and toolchains only if	they are supported on the platform

3. The project should now appear in the Project Explorer on the left. None of the code in the editor window should have red underlining (red underlining means that there is some error in the code).

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4. To compile the project, click the hammer icon at the top of the window. A new Debug folder should appear for the project, with an executable .exe file inside of it.

5. You can now run the compiled program by clicking the icon of the green circle with the arrow inside of it. In the console window at the bottom, the message "Hello World" should appear.

Troubleshooting

In case nothing appears after you run the compiled code (assuming youhave done everything above with the Control Panel and rebooting), try to add linker flags to your builder.

Go to

Project -> Proprieties -> C/C++ Build/ Settings -> Miscellaneous -> Linker flags

and add to linker options a line

-static-libgcc -static-libstdc++

