Supplement I.B

Installing and Configuring C++ Compiler

For Introduction to C++ Programming Y. Daniel Liang

If you use an IDE such as Visual C++ or Dev-C++, you don't need to install a separate compiler. If you use Unix, a C++ compiler is automatically installed. This supplement introduces how to obtain a C++ compiler for Windows.

You may download a free C++ compiler from several sources. This supplement shows you how to download and install the Cygwin compiler.

1. To download the Cygwin compiler, go to www.Cygwin.com, as shown in Figure 1. Click the hyperlink on setup.exe to download setup.exe, as shown in Figure 2. After it is saved, open and run the file, as shown in Figure 3. Click the Run button to start the setup, as shown in Figure 4.



Figure 1

Download setup.exe to install a C++ compiler.

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Figure 2

You need to save setup.exe and then run it.

Open File	- Security Warning						
The pu run this	blisher could not be verified. Are you sure you want to software?						
	Name: C:\Users\Daniel\Downloads\setup.exe						
	Publisher: Unknown Publisher						
	Type: Application						
	From: C:\Users\Daniel\Downloads\setup.exe						
	<u>Run</u> Cancel						
<mark>.</mark> ✓ Al <u>w</u> a	rs ask before opening this file						
8	This file does not have a valid digital signature that verifies its publisher. You should only run software from publishers you trust. <u>How can I decide what software to run?</u>						

Figure 3

Run setup.exe to start setup.



Figure 4

The setup program will install a C++ compiler.

- Continue to click Next on each subsequent dialog box until you see the Select Packages dialog box, as shown in Figure 5. In the Search field, enter gcc-core, you
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will see gcc-core compiler appearing Package column. Select it.

Search gcc-	core Clear		Ô	<u>K</u> eep	⊚ <u>P</u> rev () <u>C</u> urr	⊙ Exp <u>V</u> iew	Category
Category	Current	New	B	S	Size	Packag	je	
🗆 All 📀 Det	fault O Default							
	3 4 4-999	A 344-3	\square	\mathbf{X}	16 634k	000-000	e: C.compiler	
	0.4.4 000	Skip	nía	nía	7.977k	minaw6	4-i686-acc-core: G	CC for MinG
		() Skip	nía	Na	8,191k	mingw6	4-x86_64-gcc-core	e: GCC for Mi
4								+

Figure 5

You need to select appropriate packages to install.

- 3. Continue to search and select the following packages
 gcc-g++: C++ compiler
 gdb: The GNU Debugger
 make: the GNU version of the `make' utility.
- 4. Click Next to install the selected packages.
- 5. After installation is completed, go to c:\cygwin\bin to verify if gcc.exe, g++.exe, gdb.exe, and make.exe are present. If not, go back to re-run setup and select these packages to install.