

Using C++ with NetBeans

For Introduction to Programming With C++

NOTE: This tutorial is for experience users to develop C++ programs using NetBeans.

To use C++ with NetBeans, you have to download and install a C++ compiler and NetBeans.

Installing a C++ Compiler

NetBeans can work with any C++ compiler. In this tutorial, we will use 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.

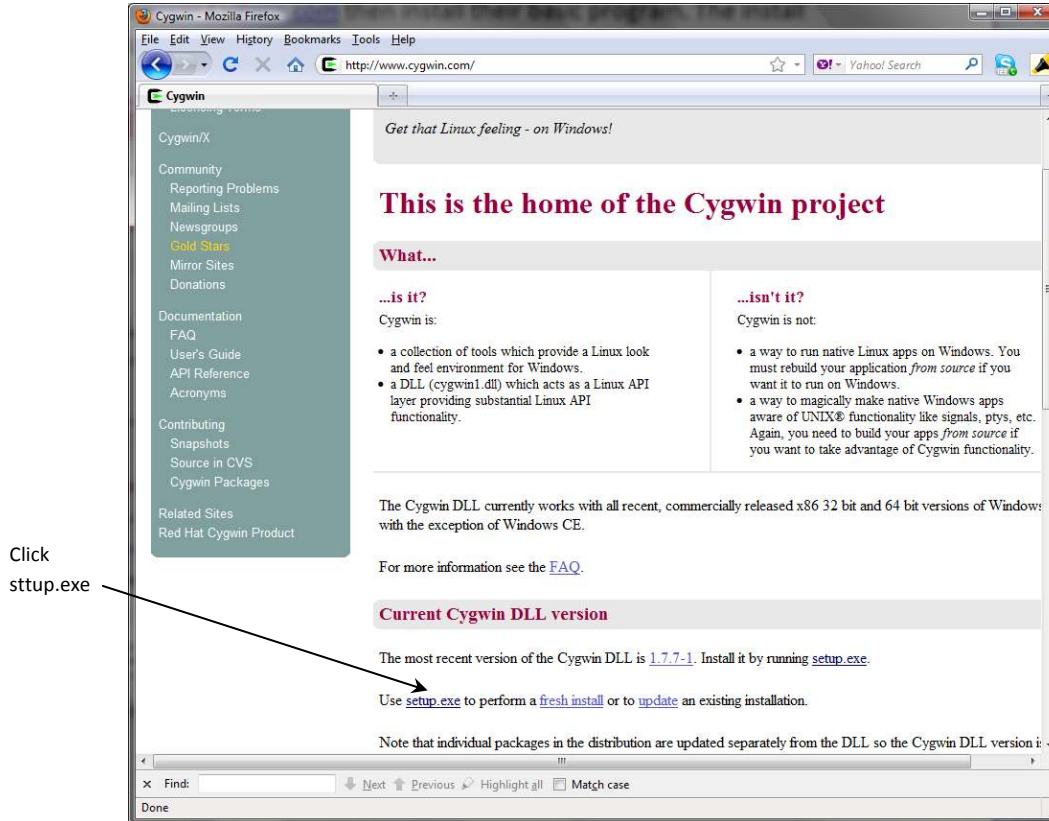


Figure 1
Download setup.exe to install a C++ compiler.

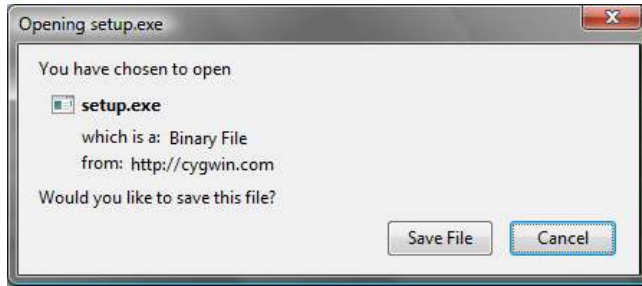


Figure 2
You need to save setup.exe and then run it.

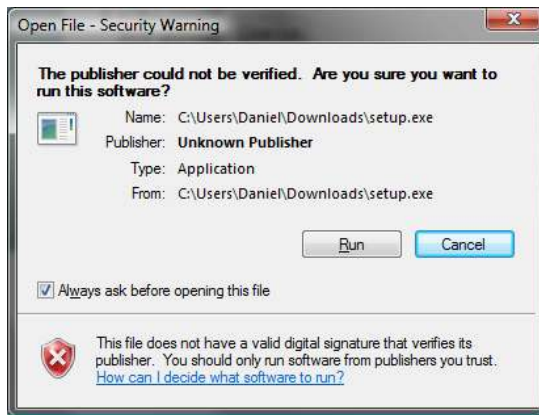


Figure 3
Run setup.exe to start setup.

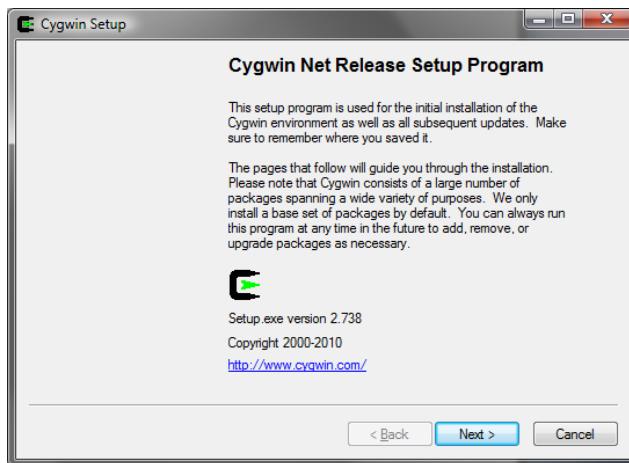


Figure 4
The setup program will install a C++ compiler.

2. 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 will see gcc-core compiler appearing Package column. Select it.

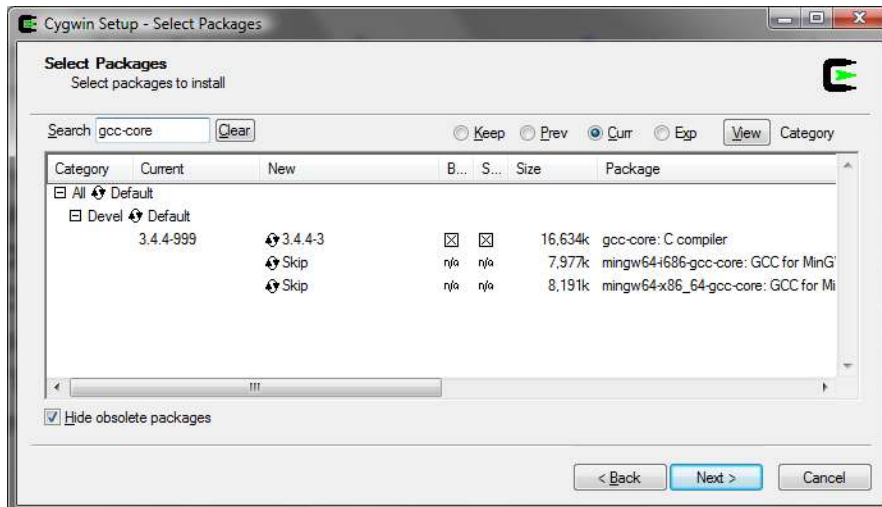


Figure 5

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.

Configuring C++ with NetBeans

1. If you are not familiar with NetBeans, go to <http://www.cs.armstrong.edu/liang/intro8e/idesupplement.html> to obtain the information on installing and using NetBeans.
2. Launch NetBeans. Go to the **Tools** menu and choose **Plugins** to display the **Plugins** window, as shown in Figure 6.
3. In the **Available Plugins** tab, choose **C/C++** and click the **Install** button. After the installation is completed, restart NetBeans.

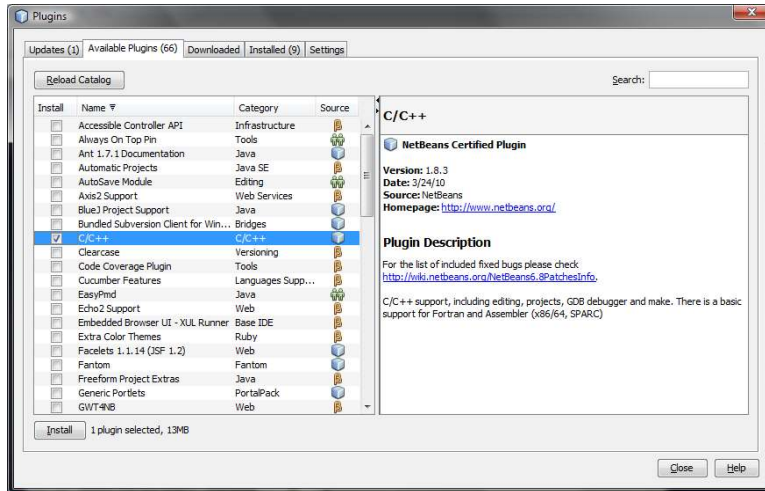


Figure 6

Choose C/C++ to install C/C++ in NetBeans.

4. From the **Tools** menu, choose Options to display the Options dialog box, as shown in Figure 7. Click C/C++. In the C/C++ page, click the Add button to display the Add New Tool Collection dialog box, as shown in Figure 8.

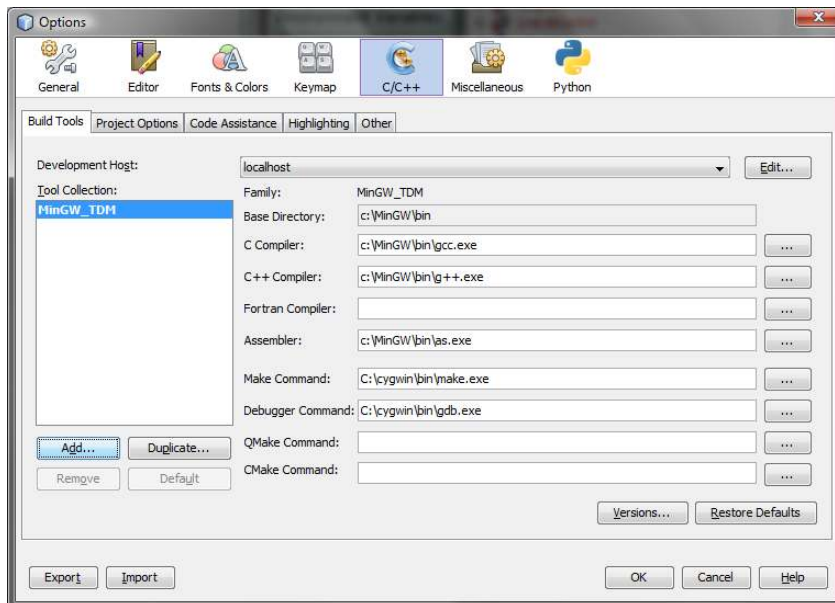


Figure 7

Click the Add button to add a new tool.

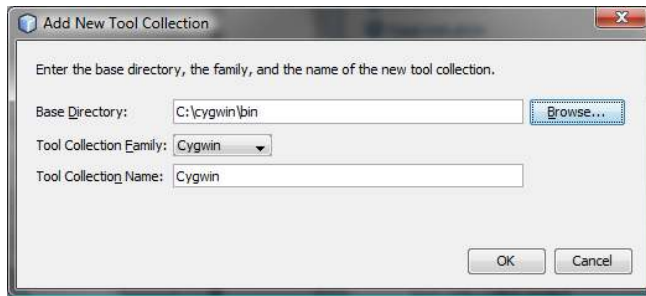


Figure 8

Browse for c:\cygwin\bin to set it as the Base Directory.

5. Browse to set c:\cygwin\bin as the Base Directory and click OK. You will see the compiler, assembler, make, and debugging commands set for the tool, as shown in Figure 9.

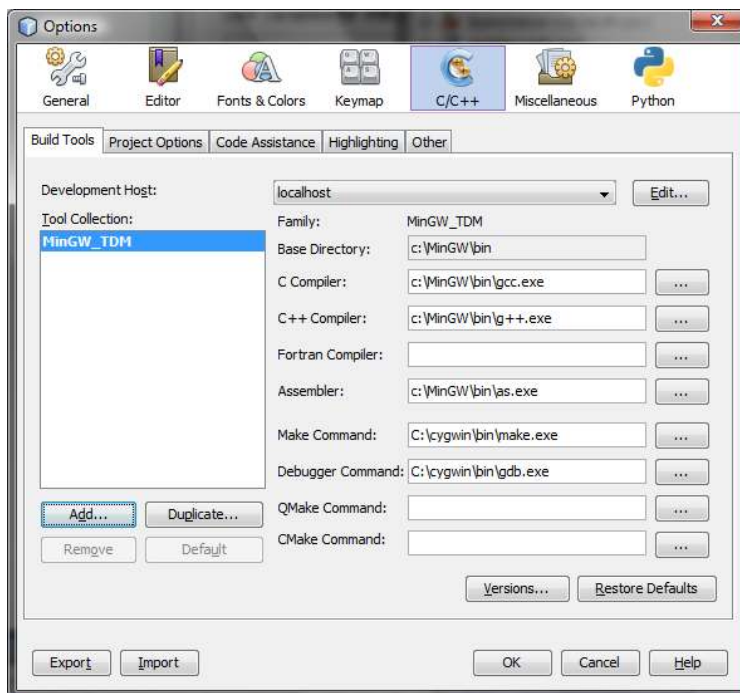


Figure 9

The compiler and other supporting commands are set in the option.

Creating a C++ Project

1. Now you can create a C++ project to hold C++ programs. Choose File, New Project to display the New Project dialog box. Choose C/C++ in the Category section and choose C/C++ Application in the Projects section and click Next to display the New C/C++ Application dialog box, as shown in Figure 10.

[Click here to download full PDF material](#)