



1 The procedure to install C and C++ in Linux OS

1. To follow the installation procedure, you need to be connected to the internet.
2. You must have Synaptic Package Manager installed on your machine.
3. If not installed, please install Synaptic Package Manager using Ubuntu Software Center.

2 The procedure to install gcc and g++ compiler

1. On Ubuntu 11.04 and higher,
 - (a) Press the Window key on your keyboard to open Dash Home.
 - (b) Type Synaptic Package Manager.
 - (c) Click on the Synaptic Package Manager option.
2. Enter your Admin Password.
3. Click on OK.
4. In the search box, type gcc.
5. Click on the gcc check box >> click on Mark for Installation.
6. Click on Apply.
7. Now in the search box replace gcc with g++.
8. Click on the g++ check box >> click on Mark for Installation.
9. Now click on Apply.
10. The installation will take a few minutes depending on your internet speed.
11. After the installation completes, open the terminal and type `gcc -v`
12. This will display `gcc version version-number <gcc>`
13. However, the version of gcc / g++ may possibly vary.
14. This message shows that the installation is successfully done.

3 The procedure to install gcc and g++ compiler from Terminal

1. To install g++ compiler, open the terminal.
2. To do so, press Alt + CTRL + T keys together.
3. Type `sudo apt-get install g++`
4. It will prompt for a password.
5. Type your password.
6. It will display how much has to be downloaded from the internet and how much disk space will be occupied.
7. Type y and press Enter to confirm this.
8. The installation will take a few minutes.
9. g++ will get installed.
10. To check type: `g++ -v`
11. However, the version of gcc / g++ may possibly vary.
12. This shows that the installation is successfully done.

4 The procedure to install C and C++ in Windows OS

1. To follow the installation procedure, you need to be connected to the internet.
2. For Windows OS, we will install MinGW compiler.
3. Go to <http://sourceforge.net/projects/mingw/files/Installer/>
4. Please locate the executable file `mingw-get-setup.exe`
5. Click on this `.exe` file.
6. A dialog box appears prompting you to Run the file.
7. Click on Run.
8. This opens the Installation Wizard.
9. Click on Install.
10. Then click on Continue.
11. Again click on Continue.
12. Click on the `mingw32-gcc-g++ GNU C++ Compiler` check box and click on `Mark for Installation`.
13. Now check the option for `mingw32-gcc-objc The GNU Objective-C Compiler` also and click on `Mark for Installation`.
14. Click on `Installation` option on the top left hand side corner.
15. Then click on `Apply changes`.
16. Finally, click on `Close`. This will install `gcc` and `g++` compiler on your system.
17. Close the window.
18. Next, we need to set the path for the `System Variables`.
19. Right-click on `My Computer`.
20. Click on `Properties`.
21. Then click on the `Advanced` tab or `Advanced System Settings` link.
22. Click on `Environment Variables`.
23. Then under `System Variables` select the `Path`.
24. Double-click on the `Path`.
25. This will open a dialog box `Edit System Variable`.
26. In `Variable value`, type the location where the `bin` file is present.
27. Add a `semicolon (;)` before adding the path.
For example: `;C:/MinGW/bin`
28. This will avoid overwriting the paths you have set previously.
29. Now, open the command prompt and type `gcc -v`
30. This will display the version no. of the `gcc` installed.
31. In this case, it will display `gcc version 4.6.2 <gcc>`
32. However, the version of `gcc / g++` may possibly vary.
33. This shows that the installation is successfully done.