



***Note:** Ngspice will automatically be installed if you have already installed Oscad. So, one can directly start practising ngspice tutorials.*

1 The procedure to install ngspice in Linux OS

To follow the installation procedure, you are required to be connected to the Internet. You can install ngspice in two ways:

1. Through Synaptic Package Manager. For this you must have Synaptic Package Manager installed on your machine.
2. Through the Terminal.

1.1 The procedure to install ngspice using Synaptic Package Manager

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 ngspice.
5. Click on the ngspice check box >> click on Mark for Installation.
6. Click on Apply.
7. The installation will take a few minutes to complete, depending on your Internet speed.
8. After the installation completes, open the terminal and type ngspice -v.
9. This will display ngspice version number.
10. This message shows that the installation is successfully done.

1.2 The procedure to install ngspice through Terminal

1. To install ngspice, open the terminal.
2. To do so, press Ctrl + Alt + T keys together.
3. Type `sudo apt-get install ngspice` and press Enter.
4. It will prompt for the admin 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 to complete.
9. Ngspice will be installed.
10. To check the installation, type `ngspice -v`. This will display ngspice version number.
11. This shows that the installation is successfully done.

2 The procedure to install ngspice in Windows OS

1. To follow the installation procedure, you should be required to be connected to the Internet.
2. Go to <https://sourceforge.net/projects/ngspice/files/ng-spice-rework/26/>
3. From the list, download `ngspice-26-140112.zip` .
4. Unzip the zip folder to your desired directory. This zip file contains MS Windows executable files for `ngspice`.
5. To launch `ngspice`, locate `spice/bin` in this directory.
6. Double click on `ngspice.exe` file.
7. The successful installation will open the ngspice terminal window.