

How to check whether a Linux PC is 64-bit or 32-bit by command line

How to check if your Linux system is 32-bit or 64-bit? In this article, TipsMake.com will show you how to define it using the GUI and the command line.

When it comes to determining the performance of a computer or operating system, most of you probably have heard about 64-bit and 32-bit systems. Both refer to how a computer processor manages data. So how to check if your Linux system is 32-bit or 64-bit? In this article, **TipsMake.com** will show you how to define it using the GUI and the command line.

What are the differences between 64-bit and 32-bit Linux systems?

64-bit systems can handle more data than 32-bit systems. But for efficient management, a supported operating system can communicate with the hardware. Therefore, there are 32-bit and 64-bit Linux distro versions. A 32-bit Linux distribution can be installed on a 64-bit version, but the opposite is not possible. Most modern computers are usually 64-bit systems.

Check CPU version on Linux PC

Step 1 : Launch the Terminal.

Step 2 : Type the following command and press Enter .

```
lscpu
```

The **'ls'** in the above command stands for 'list' and **cpu** is the CPU. Therefore, the command can be interpreted as 'listing CPU details'.

You should see output similar to the following:

```
kiran@fossilinux:~$ lscpu Architecture: x86_64 CPU op-mode(s): 32-bit, 64-bit Byt
```

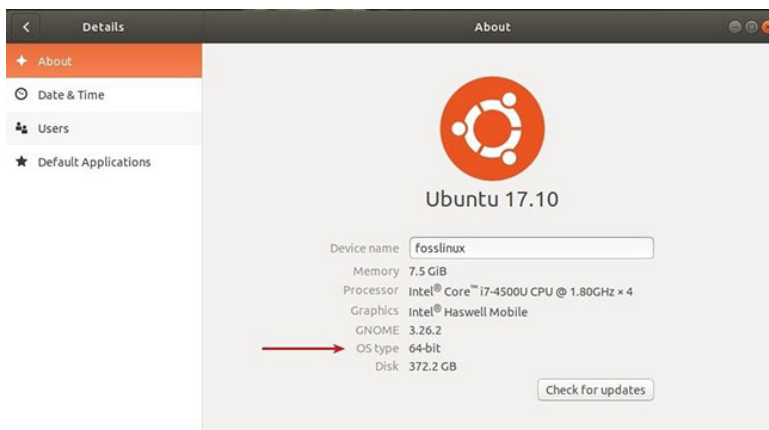
Note the **CPU op-mode (s)** , this value indicates whether the hardware supports 32-bit and 64-bit.

Check the Linux distro version

Now that you know the type of hardware, you might want to know whether the current Linux distribution on your system is 32-bit or 64-bit. We will determine using both the command line and the GUI.

GUI

In the search box for Linux distribution programs, look for '**About**', '**System Info**' or '**Details**'. Below is an example from Ubuntu 17.10, showing the type of operating system.



Tested by GUI

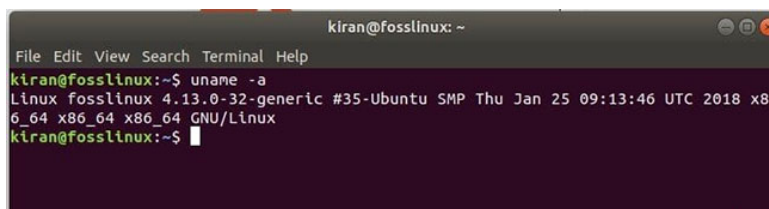
Command line

Launch Terminal and use the `uname` command as follows:

```
uname -a
```

Output:

```
kiran@fosslinux:~$ uname -a Linux fosslinux 4.13.0-32-generic #35-Ubuntu SMP Thu
```



Check with the command line

If you see **x86_64**, it means that the currently running distribution is 64-bit. In addition, it will list the computer name and the Linux Kernel version.

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