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How To Find Out Maximum Supported RAM Or Number Of Available DIMM Slots In Linux

- 6- Webographie -

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[Dmidecode ubuntu](#)

If you need a quick way to find out how much RAM your Linux system supports or to determine the number of DIMM slots available, you can use a command line tool called "[dmidecode](#)".

To find out the maximum RAM capacity and the number of RAM slots available, use the following command :

```
sudo dmidecode -t 16
```

The output should look something like this :

```
# dmidecode 2.11
SMBIOS 2.6 present.

Handle 0x0032, DMI type 16, 15 bytes
Physical Memory Array
  Location: System Board Or Motherboard
  Use: System Memory
  Error Correction Type: None
Maximum Capacity: 16 GB
  Error Information Handle: Not Provided
Number Of Devices: 4
```

The "Maximum Capacity" is the maximum RAM supported by your system, while "Number of Devices" is the number of memory (DIMM) slots available on your computer.

To see **complete memory information**, including the info above along with **currently installed memory** information (RAM speed, size, etc.), use :

```
sudo dmidecode -t memory
```

Here's an example output for the command above :

```
# dmidecode 2.11
SMBIOS 2.6 present.

Handle 0x0032, DMI type 16, 15 bytes
Physical Memory Array
  Location: System Board Or Motherboard
  Use: System Memory
  Error Correction Type: None
  Maximum Capacity: 16 GB
  Error Information Handle: Not Provided
  Number Of Devices: 4

Handle 0x0033, DMI type 17, 28 bytes
Memory Device
  Array Handle: 0x0032
  Error Information Handle: Not Provided
  Total Width: 64 bits
  Data Width: 64 bits
```

Size: 2048 MB

Form Factor: SODIMM

Set: None

Locator: ChannelA-DIMM0

Bank Locator: BANK 0

Type: DDR3

Type Detail: Synchronous

Speed: 1333 MHz

Manufacturer: Samsung

Serial Number: 7732E9D6

Asset Tag: 9876543210

Part Number: M471B5773DH0-CH9

Rank: Unknown

Handle 0x0035, DMI type 17, 28 bytes

Memory Device

Array Handle: 0x0032

Error Information Handle: Not Provided

Total Width: Unknown

Data Width: Unknown

Size: No Module Installed

Form Factor: DIMM

Set: None

Locator: ChannelA-DIMM1

Bank Locator: BANK 1

Type: Unknown

Type Detail: None

Speed: Unknown

Manufacturer: Not Specified

Serial Number: Not Specified

Asset Tag: 9876543210

Part Number: Not Specified

Rank: Unknown

Handle 0x0036, DMI type 17, 28 bytes

Memory Device

Array Handle: 0x0032

Error Information Handle: Not Provided

Total Width: 64 bits

Data Width: 64 bits

Size: 4096 MB

Form Factor: SODIMM

Set: None

Locator: ChannelB-DIMM0

Bank Locator: BANK 2

Type: DDR3

Type Detail: Synchronous

Speed: 1333 MHz

Manufacturer: 830B

Serial Number: A74D1715

Asset Tag: 9876543210

Part Number: NT4GC64B8HG0NS-CG

Rank: Unknown

Handle 0x0038, DMI type 17, 28 bytes

Memory Device

Array Handle: 0x0032

Error Information Handle: Not Provided

Total Width: Unknown

Data Width: Unknown

Size: No Module Installed

Form Factor: DIMM

Set: None

Locator: ChannelB-DIMM1

Bank Locator: BANK 3

Type: Unknown

Type Detail: None

Speed: Unknown

Manufacturer: Not Specified

Serial Number: Not Specified

Asset Tag: 9876543210

Part Number: Not Specified

Rank: Unknown

You can also use lshw (among others) for this (firstly, install it ; in Ubuntu : "sudo apt-get install lshw") :

```
sudo lshw -C memory
```

It's **important** to note that Dmidecode reports system hardware information as described in the BIOS and does not scan your hardware, so in some cases the output can be wrong. Running *dmidecode* on my Dell XPS L702X non-3D laptop, the output says my system should have 4 RAM slots but in fact there are only 2 and only the 3D version of my laptop can have 4 RAM slots (and by the way, there are some Windows applications reporting the same thing).

Also see : [How To Get Hardware Information In Linux](#)

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