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Linux: Check Ram Speed and Type

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How do I check RAM speed and type (line DDR or DDR2) without opening my computer? I need to purchase RAM and I need to know the exact speed and type installed. How do I find out ram information from a shell prompt?



[1]

You need to use [biosdecode](#) [2] command line utility. Dmidecode is a tool or dumping a computer's DMI (some say SMBIOS) table contents in a human-readable format. The output contains a description of the system's hardware components, as well as other useful pieces of information such as serial numbers and BIOS revision. This command works under Linux, UNIX and BSD computers.

Open a shell prompt and type the following command:

```
$ sudo dmidecode --type 17
```

OR

```
$ sudo dmidecode --type 17 | more
```

Sample output:

```
# dmidecode 2.9
SMBIOS 2.4 present.

Handle 0x0018, DMI type 17, 27 bytes
Memory Device
    Array Handle: 0x0017
    Error Information Handle: Not Provided
    Total Width: 64 bits
    Data Width: 64 bits
    Size: 2048 MB
    Form Factor: DIMM
    Set: None
    Locator: J6H1
    Bank Locator: CHAN A DIMM 0
    Type: DDR2
    Type Detail: Synchronous
    Speed: 800 MHz (1.2 ns)
    Manufacturer: 0x2CFFFFFFFFFFFFFFF
    Serial Number: 0x00000000
    Asset Tag: Unknown
    Part Number: 0x5A494F4E203830302D3247422D413131382D

Handle 0x001A, DMI type 17, 27 bytes
Memory Device
    Array Handle: 0x0017
    Error Information Handle: Not Provided
    Total Width: Unknown
    Data Width: Unknown
    Size: No Module Installed
    Form Factor: DIMM
    Set: None
    Locator: J6H2
    Bank Locator: CHAN A DIMM 1
    Type: DDR2
    Type Detail: None
    Speed: Unknown
    Manufacturer: NO DIMM
    Serial Number: NO DIMM
```

Asset Tag: NO DIMM
Part Number: NO DIMM

See also:

1. [Linux Find The Speed Of Memory Through Software Command Prompt](#)

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[1] Image: <http://www.cyberciti.biz/faq/faq/category/linux/>

[2] biosdecode: <http://www.cyberciti.biz/tips/querying-dumping-bios-from-linux-command-prompt.html>

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