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## How to: Find Out Hard Disk Specs / Details on Linux

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[1]

**Q.** Can you tell me Linux command to find out information about my hard disk such as description, product name, bus type, size, cache memory size etc under Linux?

**A.** There are many tools to get this information. I recommend `hdparm` command which provides a command line interface to various hard disk ioctls supported by the stock Linux ATA/IDE device driver subsystem.

This command read / request identification information such as disk size, description and much more directly from the drive, which is displayed in a new expanded format.

Open the terminal and type the command:

```
# hdparm -I /dev/sda
```

OR

```
$ sudo hdparm -I /dev/sda
```

Output:

```
/dev/sda:

ATA device, with non-removable media
   Model Number:      ST3500630AS
   Serial Number:     9XXYZ845YZ
   Firmware Revision: 3.AAK
Standards:
   Supported: 7 6 5 4
   Likely used: 7
Configuration:
   Logical             max      current
   cylinders           16383    16383
   heads               16       16
   sectors/track       63       63
   --
   CHS current addressable sectors: 16514064
   LBA  user addressable sectors: 268435455
   LBA48 user addressable sectors: 976773168
   device size with M = 1024*1024: 476940 MBytes
   device size with M = 1000*1000: 500107 MBytes (500 GB)
Capabilities:
   LBA, IORDY(can be disabled)
   Queue depth: 32
   Standby timer values: spec'd by Standard, no device specific minimum
   R/W multiple sector transfer: Max = 16 Current = 16
   Recommended acoustic management value: 254, current value: 0
   DMA: mdma0 mdma1 mdma2 udma0 udma1 udma2 udma3 udma4 udma5 *udma6
        Cycle time: min=120ns recommended=120ns
   PIO: pio0 pio1 pio2 pio3 pio4
        Cycle time: no flow control=120ns IORDY flow control=120ns
Commands/features:
   Enabled Supported:
   * SMART feature set
   Security Mode feature set
   * Power Management feature set
   * Write cache
   * Look-ahead
```

```

* Host Protected Area feature set
* WRITE_BUFFER command
* READ_BUFFER command
* DOWNLOAD_MICROCODE
  SET_MAX security extension
* 48-bit Address feature set
* Device Configuration Overlay feature set
* Mandatory FLUSH_CACHE
* FLUSH_CACHE_EXT
* SMART error logging
* SMART self-test
* General Purpose Logging feature set
* SATA-I signaling speed (1.5Gb/s)
* SATA-II signaling speed (3.0Gb/s)
* Native Command Queueing (NCQ)
* Phy event counters
  Device-initiated interface power management
* Software settings preservation

Security:
  Master password revision code = 65534
    supported
  not enabled
  not locked
    frozen
  not expired: security count
  not supported: enhanced erase
Checksum: correct

```

To get more information about your hard disk, refer to our other articles:

- [Howto find out or Learn hddisk size in Linux or UNIX](#) <sup>[2]</sup>
- [How to: Linux check IDE / SATA hard disk transfer speed](#) <sup>[3]</sup>
- [Linux: Monitor hard disks temperature with hddtemp](#) <sup>[4]</sup>
- [How do I test if my Linux server SCSI / SATA hard disk going bad?](#) <sup>[5]</sup>
- [Linux: How to backup hard disk partition table \(MBR\)](#)

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[3] How to: Linux check IDE / SATA hard disk transfer speed: <http://www.cyberciti.biz/tips/how-fast-is-linux-sata-hard-disk.html>

[4] Linux: Monitor hard disks temperature with hddtemp: <http://www.cyberciti.biz/tips/howto-monitor-hard-drive-temperature.html>

[5] How do I test if my Linux server SCSI / SATA hard disk going bad?: <http://www.cyberciti.biz/tips/linux-find-out-if-harddisk-failing.html>