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HowTo: Change Speed and Duplex of Ethernet card in Linux

Posted on Tuesday December 27th, 2016 (https://www.shellhacks.com/change-speed-duplex-ethernet-card-linux/) by admin (https://www.shellhacks.com/author/admin/)

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To change Speed and Duplex of an ethernet card, we can use **ethtool** – a Linux utility for Displaying or Changing ethernet card settings.

1. Install ethtool

You can install **ethtool** by typing one of the following commands, depending upon your Linux distribution.

Install ethtool in **Fedora**, **CentOS**, **RHEL** etc.:

yum install ethtool

Install ethtool in **Ubuntu**, **Debian** etc.:

sudo apt-get install ethtool

2. Get the Speed, Duplex and other information for the interface eth0

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following command as root.

Ok

ethtool eth0

Sample output:

Settings for eth0:

Supported ports: [MII]

Supported link modes: 10baseT/Half 10baseT/Full

100baseT/Half 100baseT/Full 1000baseT/Half 1000baseT/Full

Supports auto-negotiation: Yes

Advertised link modes: 10baseT/Half 10baseT/Full

100baseT/Half 100baseT/Full 1000baseT/Half 1000baseT/Full

Advertised auto-negotiation: Yes

Speed: 100Mb/s Duplex: Half

Port: Twisted Pair

PHYAD: 1

Transceiver: internal Auto-negotiation: on Supports Wake-on: g

Wake-on: d

Current message level: 0x000000ff (255)

Link detected: yes

3. Change the Speed and Duplex settings

The following changes are temporary and they'll stop working after reboot. Read the next section, to make settings permanent.

The next command enables Auto-Negotiate feature:

```
# ethtool -s eth0 autoneg on
```

The next command disables Auto-Negotiation, enables Half Duplex and sets up Speed to 10 Mb/s:

```
# ethtool -s eth0 speed 10 duplex half autoneg off
```

Whenextorenmend disables Auton Negotiation renables for Webuplery and setisus pospecidistate we will assume that you are happy with it.

100 Mb/s:

Ok

ethtool -s eth0 speed 100 duplex full autoneg off

4. Change the Speed and Duplex settings Permanently on CentOS/RHEL

To make settings permanent, you need to edit /etc/sysconfig/network-scripts/ifcfg-eth0 file for eth0 interface. This file is used by RHEL, CentOS, Fedora etc.

vi /etc/sysconfig/network-scripts/ifcfg-eth0

Append the line as follows to disable Auto-Negotiation, enable Full Duplex and set up Speed to 100 Mb/s:

ETHTOOL_OPTS="speed 100 duplex full autoneg off"

Restart the interface to apply changes:

ifdown eth0 && ifup eth0

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3 REPLIES TO "HOWTO: CHANGE SPEED AND DUPLEX OF ETHERNET CARD IN LINUX"



NAMELESSSS REPLY

Monday July 23rd, 2018 at 11:44 PM (https://www.shellhacks.com/change-speed-duplex-ethernet-card-linux/#comment-5987)

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Settings for eth0:

Cannot get device settings: No such device

Cannot get wake-on-lan settings: No such device

Cannot get message level: No such device

Cannot get link status: No such device

What I have to do now



PAUL JENSEN REPLY

Saturday July 28th, 2018 at 08:34 AM (https://www.shellhacks.com/change-speed-duplex-ethernet-cardlinux/#comment-6068)

ifconfig for adapter information. on my ubuntu 18.04 it is enp1s0 yours may not be eth0 as well



PAUL JENSEN REPLY

Saturday July 28th, 2018 at 08:33 AM (https://www.shellhacks.com/change-speed-duplex-ethernet-cardlinux/#comment-6067)

ifconfig and check for your adapter name. I know for ubuntu 18.04 mine is enp1s0 and not eth0 \bigcirc

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