

INTERLAB

Tel: +331 3971 7337 – Fax: +331 3928 9008

ISSUE: Ethernet config

OS : Linux Fedora Core2 Kernel 2.6.x

Vernouillet, 29.07.05

Issue:

Ability to manage ETH configuration

To see your ETH status type : **ifconfig -a**
-a attribut will show all ETH ressources even those not attributed.

Ifconfig is a multiple purpose command, it can be used to stop and start ETH for this type:

To stop : **Ifconfig eth[x] down**

To start : **Ifconfig eth[x] up**

Find in “/etc/sysconfig/network-scripts/”

Some examples:

```
[root@vidserver network-scripts]# cat ifcfg-eth0
# Unknown vendor|Generic r8169 device
DEVICE=eth0
ONBOOT=yes
BOOTPROTO=none
IPADDR=192.168.1.115
NETMASK=255.255.255.0
GATEWAY=192.168.1.1
HWADDR=00:0F:1F:64:14:0B
TYPE=Ethernet
USERCTL=no
PEERDNS=no
IPV6INIT=no
```

```
[root@vidserver network-scripts]# cat ifcfg-eth1
# D-Link System Inc|DL2000-based Gigabit Ethernet
DEVICE=eth1
HWADDR=00:0D:88:7F:C2:70  #(this is the Hardware MAC address)
TYPE=Ethernet
ONBOOT=yes
IPADDR=192.168.1.111
NETMASK=255.255.255.0
GATEWAY=192.168.1.1
```

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USERCTL=no
PEERDNS=no
IPV6INIT=no

Example of ifconfig -a:

```
[root@vidserver network-scripts]# ifconfig -a
eth0      Link encap:Ethernet  HWaddr 00:0F:1F:64:14:0B
          inet addr:192.168.1.115  Bcast:192.168.1.255  Mask:255.255.255.0
          inet6 addr: fe80::20f:1fff:fe64:140b/64 Scope:Link
          UP BROADCAST MULTICAST  MTU:1500  Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)
          Base address:0xece0 Memory:fdfe0000-fe000000

eth1      Link encap:Ethernet  HWaddr 00:0D:88:7F:C2:70
          inet addr:192.168.1.111  Bcast:192.168.1.255  Mask:255.255.255.0
          inet6 addr: fe80::20d:88ff:fe7f:c270/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:12850 errors:0 dropped:0 overruns:0 frame:0
          TX packets:7920 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:11537852 (11.0 Mb)  TX bytes:896863 (875.8 Kb)
          Interrupt:233 Base address:0xa800

eth2      Link encap:Ethernet  HWaddr 00:0D:88:7F:C1:22
          inet addr:192.168.2.111  Bcast:192.168.2.255  Mask:255.255.255.0
          inet6 addr: fe80::20d:88ff:fe7f:c122/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)
          Interrupt:225 Base address:0xac00

eth3      Link encap:Ethernet  HWaddr 00:11:95:25:C8:15
          inet addr:192.168.3.111  Bcast:192.168.3.255  Mask:255.255.255.0
          inet6 addr: fe80::211:95ff:fe25:c815/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:1667 errors:0 dropped:0 overruns:0 frame:0
          TX packets:239 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:192280 (187.7 Kb)  TX bytes:53242 (51.9 Kb)
          Interrupt:217 Base address:0x8c00

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:16436  Metric:1
          RX packets:149 errors:0 dropped:0 overruns:0 frame:0
          TX packets:149 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:526319 (513.9 Kb)  TX bytes:526319 (513.9 Kb)
```

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```
sit0      Link encap:IPv6-in-IPv4
          NOARP  MTU:1480  Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)
```

Pls. send us your feel back.
Rev.1.1 – David