K2H RTM 10GbE works fine. Below are the logs from K2H 10GbE exercise. I have eth4 configured with 192.168.1.44. My desktop PC 10GbE port configured as 192.168.1.22. tcpdump on EVM when pinging from my desktop to the EVM is also shown at the end of the logs.

When you configure the 10GbE, you need to use MAC-to-MAC link interface option in the user’s guide.

[ 14.375666] keystone-netcp 2090000.netcp: Created interface "eth1"

[ 14.381820] keystone-netcp 2090000.netcp: dma\_chan\_name nettx1

[ 14.388418] keystone-netcp 2090000.netcp: Created interface "eth2"

[ 14.394583] keystone-netcp 2090000.netcp: dma\_chan\_name nettx2

[ 14.401175] keystone-netcp 2090000.netcp: Created interface "eth3"

[ 14.407339] keystone-netcp 2090000.netcp: dma\_chan\_name nettx3

[ 14.413328] XGE serdes config:

[ 14.416364] ref\_clk=156.25MHz, link\_rate=10.3125G, lanes=2

[ 14.421994] c1=2, c2=0, cm=2, tx\_att=12, tx\_vreg=4

[ 14.426939] eq flags: vreg=1, cdfe=1, offset=1

[ 14.431533] XGE: serdes reset

[ 15.565457] XGE: timeout waiting for serdes link up

[ 15.570686] keystone-netcp 2f00000.netcp: Created interface "eth4"

[ 15.576853] keystone-netcp 2f00000.netcp: dma\_chan\_name xgetx0

[ 15.582669] XGE: serdes reset

[ 16.716628] XGE: timeout waiting for serdes link up

[ 16.721855] keystone-netcp 2f00000.netcp: Created interface "eth5"

[ 16.728010] keystone-netcp 2f00000.netcp: dma\_chan\_name xgetx1

[ 16.733832] XGE: serdes reset

[ 17.867778] XGE: timeout waiting for serdes link up

[ 17.872681] keystone-netcp 2090000.netcp: pdsp 0 firmware: keystone/pa\_pdsp0\_classify1.fw

[ 17.880831] keystone-netcp 2090000.netcp: pdsp 1 firmware: keystone/pa\_pdsp1\_classify1.fw

[ 17.888971] keystone-netcp 2090000.netcp: pdsp 2 firmware: keystone/pa\_pdsp2\_classify1.fw

[ 17.897117] keystone-netcp 2090000.netcp: pdsp 3 firmware: keystone/pa\_pdsp3\_classify2.fw

[ 17.905262] keystone-netcp 2090000.netcp: pdsp 4 firmware: keystone/pa\_pdsp45\_pam.fw

[ 17.912975] keystone-netcp 2090000.netcp: pdsp 5 firmware: keystone/pa\_pdsp45\_pam.fw

[ 17.920764] keystone-netcp 2090000.netcp: could not find interface 2 node in device tree

[ 17.928818] keystone-netcp 2090000.netcp: Attach of module keystone-qos declined with -19

[ 17.936966] keystone-netcp 2090000.netcp: could not find interface 3 node in device tree

[ 17.945025] keystone-netcp 2090000.netcp: Attach of module keystone-qos declined with -19

[ 17.953185] keystone-netcp 2090000.netcp: Attach of module keystone-sa declined with -19

[ 17.961244] keystone-netcp 2090000.netcp: Attach of module keystone-sa declined with -19

[ 17.970173] dwc3 2690000.dwc3: no usb2 phy configured

[ 17.975220] platform 2690000.dwc3: Driver dwc3 requests probe deferral

[ 17.982155] usbcore: registered new interface driver usb-storage

[ 17.988558] mousedev: PS/2 mouse device common for all mice

[ 17.994305] i2c /dev entries driver

[ 17.998369] watchdog 22f0080.wdt: heartbeat 60 sec

[ 18.018434] keystone-crypto 20c0000.crypto: crypto accelerator enabled

[ 18.025242] usbcore: registered new interface driver usbhid

[ 18.030794] usbhid: USB HID core driver

[ 18.034911] remoteproc0: 2620040.dsp0 is available

[ 18.039763] remoteproc0: Note: remoteproc is still under development and considered experimental.

[ 18.048688] remoteproc0: THE BINARY FORMAT IS NOT YET FINALIZED, and backward compatibility isn't yet guaranteed.

[ 18.059014] remoteproc0: no firmware found

[ 18.063297] rproc-user 2620040.dsp0: registered misc device dsp0

[ 18.069488] remoteproc1: 2620044.dsp1 is available

[ 18.074352] remoteproc1: Note: remoteproc is still under development and considered experimental.

[ 18.083291] remoteproc1: THE BINARY FORMAT IS NOT YET FINALIZED, and backward compatibility isn't yet guaranteed.

[ 18.093622] remoteproc1: no firmware found

[ 18.097904] rproc-user 2620044.dsp1: registered misc device dsp1

[ 18.104109] remoteproc2: 2620048.dsp2 is available

[ 18.108961] remoteproc2: Note: remoteproc is still under development and considered experimental.

[ 18.117885] remoteproc2: THE BINARY FORMAT IS NOT YET FINALIZED, and backward compatibility isn't yet guaranteed.

[ 18.128208] remoteproc2: no firmware found

[ 18.132489] rproc-user 2620048.dsp2: registered misc device dsp2

[ 18.138677] remoteproc3: 262004c.dsp3 is available

[ 18.143541] remoteproc3: Note: remoteproc is still under development and considered experimental.

[ 18.152468] remoteproc3: THE BINARY FORMAT IS NOT YET FINALIZED, and backward compatibility isn't yet guaranteed.

[ 18.162791] remoteproc3: no firmware found

[ 18.167066] rproc-user 262004c.dsp3: registered misc device dsp3

[ 18.173266] remoteproc4: 2620050.dsp4 is available

[ 18.178118] remoteproc4: Note: remoteproc is still under development and considered experimental.

[ 18.187043] remoteproc4: THE BINARY FORMAT IS NOT YET FINALIZED, and backward compatibility isn't yet guaranteed.

[ 18.197367] remoteproc4: no firmware found

[ 18.201652] rproc-user 2620050.dsp4: registered misc device dsp4

[ 18.207839] remoteproc5: 2620054.dsp5 is available

[ 18.212702] remoteproc5: Note: remoteproc is still under development and considered experimental.

[ 18.221624] remoteproc5: THE BINARY FORMAT IS NOT YET FINALIZED, and backward compatibility isn't yet guaranteed.

[ 18.231948] remoteproc5: no firmware found

[ 18.236223] rproc-user 2620054.dsp5: registered misc device dsp5

[ 18.242425] remoteproc6: 2620058.dsp6 is available

[ 18.247278] remoteproc6: Note: remoteproc is still under development and considered experimental.

[ 18.256203] remoteproc6: THE BINARY FORMAT IS NOT YET FINALIZED, and backward compatibility isn't yet guaranteed.

[ 18.266526] remoteproc6: no firmware found

[ 18.270806] rproc-user 2620058.dsp6: registered misc device dsp6

[ 18.276995] remoteproc7: 262005c.dsp7 is available

[ 18.281861] remoteproc7: Note: remoteproc is still under development and considered experimental.

[ 18.290784] remoteproc7: THE BINARY FORMAT IS NOT YET FINALIZED, and backward compatibility isn't yet guaranteed.

[ 18.301117] remoteproc7: no firmware found

[ 18.305398] rproc-user 262005c.dsp7: registered misc device dsp7

[ 18.311402] rproc-user dspmem.14: kick gpio

[ 18.315689] rproc-user dspmem.14: registered misc device dspmem

[ 18.321888] oprofile: using arm/armv7-ca15

[ 18.326081] ipip: IPv4 over IPv4 tunneling driver

[ 18.331150] gre: GRE over IPv4 demultiplexor driver

[ 18.336003] ip\_gre: GRE over IPv4 tunneling driver

[ 18.341516] TCP: cubic registered

[ 18.344811] Initializing XFRM netlink socket

[ 18.349485] NET: Registered protocol family 10

[ 18.355056] NET: Registered protocol family 17

[ 18.359490] NET: Registered protocol family 15

[ 18.363968] Bridge firewalling registered

[ 18.367959] 8021q: 802.1Q VLAN Support v1.8

[ 18.373815] sctp: Hash tables configured (established 65536 bind 65536)

[ 18.380614] NET: Registered protocol family 41

[ 18.385163] VFP support v0.3: implementor 41 architecture 4 part 30 variant f rev 0

[ 18.392809] Registering SWP/SWPB emulation handler

[ 18.599535] xhci-hcd xhci-hcd.0.auto: xHCI Host Controller

[ 18.605018] xhci-hcd xhci-hcd.0.auto: new USB bus registered, assigned bus number 1

[ 18.613189] xhci-hcd xhci-hcd.0.auto: irq 425, io mem 0x02690000

[ 18.619232] usb usb1: New USB device found, idVendor=1d6b, idProduct=0002

[ 18.626001] usb usb1: New USB device strings: Mfr=3, Product=2, SerialNumber=1

[ 18.633198] usb usb1: Product: xHCI Host Controller

[ 18.638050] usb usb1: Manufacturer: Linux 3.10.61 xhci-hcd

[ 18.643514] usb usb1: SerialNumber: xhci-hcd.0.auto

[ 18.648772] hub 1-0:1.0: USB hub found

[ 18.652524] hub 1-0:1.0: 1 port detected

[ 18.656601] xhci-hcd xhci-hcd.0.auto: xHCI Host Controller

[ 18.662077] xhci-hcd xhci-hcd.0.auto: new USB bus registered, assigned bus number 2

[ 18.669768] usb usb2: New USB device found, idVendor=1d6b, idProduct=0003

[ 18.676531] usb usb2: New USB device strings: Mfr=3, Product=2, SerialNumber=1

[ 18.683725] usb usb2: Product: xHCI Host Controller

[ 18.688577] usb usb2: Manufacturer: Linux 3.10.61 xhci-hcd

[ 18.694041] usb usb2: SerialNumber: xhci-hcd.0.auto

[ 18.699274] hub 2-0:1.0: USB hub found

[ 18.703024] hub 2-0:1.0: 1 port detected

[ 18.710721] keystone-netcp 2090000.netcp: initializing cpsw version 1.3 (1) SGMII identification value 0x4ed1

[ 18.720721] keystone-netcp 2090000.netcp: Created a cpsw ale engine

[ 18.820456] pps pps0: new PPS source ptp0

[ 18.824456] cpts rftclk rate(399360000 HZ),mult(2560),shift(10),div(1)

[ 18.879953] keystone-netcp 2090000.netcp: Using Packet Accelerator Firmware version 0x03000104

[ 18.888536] keystone-netcp 2090000.netcp: pa\_clk\_rate(163840000 HZ),mult(25000),shift(12)

[ 19.180276] net eth0: netcp device eth0 opened

[ 19.187519] 8021q: adding VLAN 0 to HW filter on device eth0

[ 19.193661] keystone-netcp 2090000.netcp: initializing cpsw version 1.3 (1) SGMII identification value 0x4ed1

[ 19.610038] net eth1: netcp device eth1 opened

[ 19.615945] 8021q: adding VLAN 0 to HW filter on device eth1

[ 19.622106] keystone-netcp 2090000.netcp: initializing cpsw version 1.3 (1) SGMII identification value 0x4ed1

[ 19.839891] net eth2: netcp device eth2 opened

[ 19.845059] IPv6: ADDRCONF(NETDEV\_UP): eth2: link is not ready

[ 19.850870] 8021q: adding VLAN 0 to HW filter on device eth2

[ 19.856988] keystone-netcp 2090000.netcp: initializing cpsw version 1.3 (1) SGMII identification value 0x4ed1

[ 20.089759] net eth3: netcp device eth3 opened

[ 20.094929] IPv6: ADDRCONF(NETDEV\_UP): eth3: link is not ready

[ 20.100767] 8021q: adding VLAN 0 to HW filter on device eth3

[ 20.106890] keystone-netcp 2f00000.netcp: initialize cpsw version 1.1 (0) CPSW identification value 0x4ee3

[ 20.116687] keystone-netcp 2f00000.netcp: Created a cpsw ale engine

[ 20.179709] net eth4: netcp device eth4 opened

[ 20.185825] IPv6: ADDRCONF(NETDEV\_UP): eth4: link is not ready

[ 20.191635] 8021q: adding VLAN 0 to HW filter on device eth4

[ 20.197736] keystone-netcp 2f00000.netcp: initialize cpsw version 1.1 (0) CPSW identification value 0x4ee3

[ 20.259681] net eth5: netcp device eth5 opened

[ 20.264702] IPv6: ADDRCONF(NETDEV\_UP): eth5: link is not ready

[ 20.270513] 8021q: adding VLAN 0 to HW filter on device eth5

[ 20.276192] IP-Config: Failed to open gretap0

[ 20.280544] IPv6: ADDRCONF(NETDEV\_CHANGE): eth4: link becomes ready

[ 20.299370] IPv6: ADDRCONF(NETDEV\_CHANGE): eth5: link becomes ready

[ 20.306273] Sending DHCP requests ., OK

[ 20.409228] IP-Config: Got DHCP answer from 158.218.109.4, my address is 158.218.109.234

[ 25.176868] IP-Config: Complete:

[ 25.180084] device=eth0, hwaddr=b4:99:4c:9f:7f:90, ipaddr=158.218.109.234, mask=255.255.255.0, gw=158.218.109.1

[ 25.190568] host=dhcp-158-218-109-234, domain=am.dhcp.ti.com, nis-domain=(none)

[ 25.198280] bootserver=0.0.0.0, rootserver=158.218.109.197, rootpath=

[ 25.204948] nameserver0=192.0.2.2, nameserver1=192.0.2.3

[ 25.228957] VFS: Mounted root (nfs filesystem) on device 0:12.

[ 25.234973] devtmpfs: mounted

[ 25.238090] Freeing unused kernel memory: 328K (c072d000 - c077f000)

INIT: version 2.88 booting

Starting udev

[ 25.618111] udevd[1352]: starting version 182

[ 25.939166] uio\_module\_drv mpax.4: registered misc device mpax

[ 25.947089] uio\_module\_drv edma3.5: registered misc device edma3

[ 25.955149] uio\_module\_drv secmgr.6: registered misc device secmgr

[ 25.961593] uio\_module\_drv qmss.7: registered misc device qmss

[ 25.968417] uio\_module\_drv hyperlink0.17: registered misc device hyperlink0

[ 25.975593] uio\_module\_drv hyperlink1.18: registered misc device hyperlink1

[ 25.982834] uio\_module\_drv srio.19: registered misc device srio

Starting Bootlog daemon: bootlogd.

NOT configuring network interfaces: / is an NFS mount

net.ipv4.conf.default.rp\_filter = 1

net.ipv4.conf.all.rp\_filter = 1

Fri Mar 27 05:53:00 UTC 2015

INIT: Entering runlevel: 5

Starting system message bus: dbus.

Starting Dropbear SSH server: dropbear.

cppi library link established for device : k2hk

hyplnk library link established for device : k2hk

qmss library link established for device : k2hk

Starting mpmsrv daemon.

platform: k2hk-evm

Starting softhsm daemon.

Starting telnet daemon.

#>>>>> LCD 12

IP Address:

158.218.109.234

Starting tiipclad daemon

Opened log file: lad.txt

Setting base cluster id to 0

id = 0 baseId= 0

Spawned daemon: /usr/bin/lad\_66ak2e

.

Starting syslog-ng:.

Starting thttpd.

Starting Lighttpd Web Server: lighttpd.

2015-03-27 05:53:02: (log.c.166) server started

\* starting FTP Server: vsftpd... done.

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NOTICE: This file system contains the followin GPLv3 packages:

 autoconf

 binutils-symlinks

 binutils

 coreutils

 cpp-symlinks

 cpp

 g++-symlinks

 g++

 gcc-symlinks

 gcc

 gdb

 gdbserver

 libgmp10

 libmpfr4

 m4

 make

If you do not wish to distribute GPLv3 components please remove

the above packages prior to distribution. This can be done using

the opkg remove command. i.e.:

 opkg remove <package>

Where <package> is the name printed in the list above

NOTE: If the package is a dependency of another package you

 will be notified of the dependent packages. You should

 use the --force-removal-of-dependent-packages option to

 also remove the dependent packages as well

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Stopping Bootlog daemon: bootlogd.

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Arago Project http://arago-project.org k2e-evm ttyS0

Arago 2013.12 k2e-evm ttyS0

k2e-evm login: root

root@k2e-evm:~# ifconfig -a

eth0 Link encap:Ethernet HWaddr B4:99:4C:9F:7F:90

 inet addr:158.218.109.234 Bcast:158.218.109.255 Mask:255.255.255.0

 inet6 addr: fe80::b499:4c00:19f:7f90/64 Scope:Link

 UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1

 RX packets:15756 errors:0 dropped:0 overruns:0 frame:0

 TX packets:13884 errors:0 dropped:0 overruns:0 carrier:0

 collisions:0 txqueuelen:1000

 RX bytes:14247328 (13.5 MiB) TX bytes:2096556 (1.9 MiB)

eth1 Link encap:Ethernet HWaddr 02:18:31:7E:3E:6F

 BROADCAST MULTICAST MTU:1500 Metric:1

 RX packets:0 errors:0 dropped:0 overruns:0 frame:0

 TX packets:2 errors:0 dropped:0 overruns:0 carrier:0

 collisions:0 txqueuelen:1000

 RX bytes:0 (0.0 B) TX bytes:168 (168.0 B)

eth2 Link encap:Ethernet HWaddr 36:65:D1:8B:C3:E1

 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)

eth3 Link encap:Ethernet HWaddr 4A:AD:C2:8E:9A:8C

 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)

eth4 Link encap:Ethernet HWaddr 02:18:31:7E:3E:5E

 BROADCAST MULTICAST MTU:1500 Metric:1

 RX packets:0 errors:0 dropped:0 overruns:0 frame:0

 TX packets:3 errors:0 dropped:0 overruns:0 carrier:0

 collisions:0 txqueuelen:1000

 RX bytes:0 (0.0 B) TX bytes:238 (238.0 B)

eth5 Link encap:Ethernet HWaddr 02:18:31:7E:3E:5F

 BROADCAST MULTICAST MTU:1500 Metric:1

 RX packets:0 errors:0 dropped:0 overruns:0 frame:0

 TX packets:3 errors:0 dropped:0 overruns:0 carrier:0

 collisions:0 txqueuelen:1000

 RX bytes:0 (0.0 B) TX bytes:238 (238.0 B)

gre0 Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00

 NOARP MTU:1476 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)

gretap0 Link encap:Ethernet HWaddr 00:00:00:00:00:00

 BROADCAST MULTICAST MTU:1476 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)

ip6tnl0 Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00

 NOARP MTU:1452 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)

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:65536 Metric:1

 RX packets:4 errors:0 dropped:0 overruns:0 frame:0

 TX packets:4 errors:0 dropped:0 overruns:0 carrier:0

 collisions:0 txqueuelen:0

 RX bytes:268 (268.0 B) TX bytes:268 (268.0 B)

tunl0 Link encap:UNSPEC HWaddr 00-00-00-00-30-30-30-30-00-00-00-00-00-00-00-00

 NOARP MTU:0 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)

root@k2e-evm:~# ifconfig eth4 192.168.1.22 netmask 255.255.255.0 gateway 192.168.1.1 up

[ 53.935168] keystone-netcp 2f00000.netcp: initialize cpsw version 1.1 (0) CPSW identification value 0x4ee3

[ 53.944978] keystone-netcp 2f00000.netcp: Created a cpsw ale engine

[ 54.030725] net eth4: netcp device eth4 opened

[ 54.036347] IPv6: ADDRCONF(NETDEV\_UP): eth4: link is not ready

[ 54.042167] 8021q: adding VLAN 0 to HW filter on device eth4

root@k2e-evm:~# [ 54.050426] IPv6: ADDRCONF(NETDEV\_CHANGE): eth4: link becomes ready

root@k2e-evm:~# ping 192.168.1.22

PING 192.168.1.22 (192.168.1.22): 56 data bytes

64 bytes from 192.168.1.22: seq=0 ttl=64 time=0.087 ms

64 bytes from 192.168.1.22: seq=1 ttl=64 time=0.049 ms

^C

--- 192.168.1.22 ping statistics ---

2 packets transmitted, 2 packets received, 0% packet loss

round-trip min/avg/max = 0.049/0.068/0.087 ms

root@k2e-evm:~#



root@k2e-evm:~#

root@k2e-evm:~# tcpdump -i eth4

[ 1225.284134] device eth4 entered promiscuous mode

tcpdump: verbose output suppressed, use -v or -vv for full protocol decode

listening on eth4, link-type EN10MB (Ethernet), capture size 65535 bytes

06:12:59.845113 IP 192.168.1.22 > 192.168.1.44: ICMP echo request, id 8449, seq 14, length 64

06:12:59.845134 IP 192.168.1.44 > 192.168.1.22: ICMP echo reply, id 8449, seq 14, length 64

06:13:00.845104 IP 192.168.1.22 > 192.168.1.44: ICMP echo request, id 8449, seq 15, length 64

06:13:00.845122 IP 192.168.1.44 > 192.168.1.22: ICMP echo reply, id 8449, seq 15, length 64

06:13:01.845105 IP 192.168.1.22 > 192.168.1.44: ICMP echo request, id 8449, seq 16, length 64

06:13:01.845122 IP 192.168.1.44 > 192.168.1.22: ICMP echo reply, id 8449, seq 16, length 64

06:13:02.845103 IP 192.168.1.22 > 192.168.1.44: ICMP echo request, id 8449, seq 17, length 64

06:13:02.845119 IP 192.168.1.44 > 192.168.1.22: ICMP echo reply, id 8449, seq 17, length 64

06:13:03.845101 IP 192.168.1.22 > 192.168.1.44: ICMP echo request, id 8449, seq 18, length 64

06:13:03.845118 IP 192.168.1.44 > 192.168.1.22: ICMP echo reply, id 8449, seq 18, length 64

06:13:04.845097 IP 192.168.1.22 > 192.168.1.44: ICMP echo request, id 8449, seq 19, length 64

06:13:04.845114 IP 192.168.1.44 > 192.168.1.22: ICMP echo reply, id 8449, seq 19, length 64

06:13:05.845100 IP 192.168.1.22 > 192.168.1.44: ICMP echo request, id 8449, seq 20, length 64

06:13:05.845116 IP 192.168.1.44 > 192.168.1.22: ICMP echo reply, id 8449, seq 20, length 64

^C

14 packets captu[ 1234.499407] device eth4 left promiscuous mode

red

14 packets received by filter

0 packets dropped by kernel