

Cpre 530 - Program 3

Fall 2011

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```
> cd netdump
> make
> run_dump
strings ./netdump | grep -q netdump
./netdump
run_dump: listening on em0
```

Destination Hardware Address: 00:08:74:f9:04:ab
Source MAC Address: 00:0d:65:d2:4a:e0
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 10
Length of the packet: 52
Packet Id is 3422
TTL is 61
Packet Type: TCP
The Source IP: 192.188.162.61
The Destination IP: 129.186.215.41
TCP Header:
Source Port: 46200
Destination Port: 49340
Sequence: 4153333210
Ack: 5508152443
Header length: 0
Flags:
URG: 0
ACK: 0
PSH: 1
RST: 1
SYN: 1
FIN: 0
Window Size 12034
Check sum 59867
Urgent Pointer 26514

Destination Hardware Address: 00:0d:65:d2:4a:e0
Source MAC Address: 00:08:74:f9:04:ab
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 10
Length of the packet: 130
Packet Id is 24441
TTL is 64
Packet Type: TCP
The Source IP: 129.186.215.41
The Destination IP: 192.188.162.61
TCP Header:
Source Port: 7951

Destination Port: 33210
Sequence: 5508149340
Ack: 4153323
Header length: cc
Flags:
URG: 1
ACK: 1
PSH: 1
RST: 1
SYN: 0
FIN: 1
Window Size 26514
Check sum 13693
Urgent Pointer 12034

Destination Hardware Address: 00:08:74:f9:04:ab
Source MAC Address: 00:0d:65:d2:4a:e0
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 10
Length of the packet: 52
Packet Id is 56150
TTL is 61
Packet Type: TCP
The Source IP: 192.188.162.61
The Destination IP: 129.186.215.41
TCP Header:
Source Port: 59007
Destination Port: 49340
Sequence: 415333210
Ack: 5508152443
Header length: 0
Flags:
URG: 0
ACK: 0
PSH: 1
RST: 1
SYN: 1
FIN: 0
Window Size 12034
Check sum 59867
Urgent Pointer 26514

Destination Hardware Address: 00:0d:65:d2:4a:e0
Source MAC Address: 00:08:74:f9:04:ab
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 84
Packet Id is 24442
TTL is 64
Packet type: ICMP

Type: Reply
The Source IP: 129.186.215.41
The Destination IP: 140.112.8.130

Destination Hardware Address: 00:0d:65:d2:4a:e0
Source MAC Address: 00:08:74:f9:04:ab
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 84
Packet Id is 24443
TTL is 64
Packet type: ICMP
Type: Reply
The Source IP: 129.186.215.41
The Destination IP: 145.18.10.70

Destination Hardware Address: 00:0d:65:d2:4a:e0
Source MAC Address: 00:08:74:f9:04:ab
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 84
Packet Id is 24444
TTL is 64
Packet type: ICMP
Type: Reply
The Source IP: 129.186.215.41
The Destination IP: 130.237.32.143

Destination Hardware Address: 00:0d:65:d2:4a:e0
Source MAC Address: 00:08:74:f9:04:ab
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 84
Packet Id is 24445
TTL is 64
Packet type: ICMP
Type: Reply
The Source IP: 129.186.215.41
The Destination IP: 142.150.210.13

Destination Hardware Address: 00:0d:65:d2:4a:e0
Source MAC Address: 00:08:74:f9:04:ab
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 84
Packet Id is 24446

TTL is 64
Packet type: ICMP
Type: Reply
The Source IP: 129.186.215.41
The Destination IP: 129.186.140.100

Destination Hardware Address: 00:08:74:f9:04:ab
Source MAC Address: 00:0d:65:d2:4a:e0
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 84
Packet Id is 53385
TTL is 61
Packet type: ICMP
Type: Request
The Source IP: 129.186.140.100
The Destination IP: 129.186.215.41

Destination Hardware Address: ff:ff:ff:ff:ff:ff
Source MAC Address: 02:02:81:ba:d7:33

Destination Hardware Address: 00:08:74:f9:04:ab
Source MAC Address: 00:0d:65:d2:4a:e0
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 84
Packet Id is 33119
TTL is 241
Packet type: ICMP
Type: Request
The Source IP: 142.150.210.13
The Destination IP: 129.186.215.41

Destination Hardware Address: 00:08:74:f9:04:ab
Source MAC Address: 00:0d:65:d2:4a:e0
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 84
Packet Id is 44120
TTL is 115
Packet type: ICMP
Type: Request
The Source IP: 145.18.10.70
The Destination IP: 129.186.215.41

Destination Hardware Address: 00:08:74:f9:04:ab
Source MAC Address: 00:0d:65:d2:4a:e0
Packet Type: IP

IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 84
Packet Id is 54739
TTL is 49
Packet type: ICMP
Type: Request
The Source IP: 130.237.32.143
The Destination IP: 129.186.215.41

Destination Hardware Address: ff:ff:ff:ff:ff:ff
Source MAC Address: 02:01:81:ba:d7:33

Destination Hardware Address: 00:08:74:f9:04:ab
Source MAC Address: 00:0d:65:d2:4a:e0
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 84
Packet Id is 37275
TTL is 240
Packet type: ICMP
Type: Request
The Source IP: 140.112.8.130
The Destination IP: 129.186.215.41

Destination Hardware Address: 00:0d:65:d2:4a:e0
Source MAC Address: 00:0e:0c:a2:38:88
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 70
Packet Id is 5644
TTL is 64
The packet is an UDP packet
The Source IP: 129.186.215.56
The Destination IP: 129.186.1.200

Destination Hardware Address: 00:0e:0c:a2:38:88
Source MAC Address: 00:0d:65:d2:4a:e0
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 123
Packet Id is 57519
TTL is 61
The packet is an UDP packet
The Source IP: 129.186.1.200
The Destination IP: 129.186.215.56

Destination Hardware Address: 00:0d:65:d2:4a:e0
Source MAC Address: 00:0e:0c:a2:38:88
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 90
Packet Id is 5644
TTL is 64
The packet is an UDP packet
The Source IP: 129.186.215.56
The Destination IP: 129.186.1.200

Destination Hardware Address: 00:0e:0c:a2:38:88
Source MAC Address: 00:0d:65:d2:4a:e0
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 143
Packet Id is 57520
TTL is 61
The packet is an UDP packet
The Source IP: 129.186.1.200
The Destination IP: 129.186.215.56

Destination Hardware Address: 00:0d:65:d2:4a:e0
Source MAC Address: 00:08:74:f9:04:ab
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 10
Length of the packet: 1075
Packet Id is 24447
TTL is 64
Packet Type: TCP
The Source IP: 129.186.215.41
The Destination IP: 192.188.162.61
TCP Header:
Source Port: 7000
Destination Port: 33210
Sequence: 5508149340
Ack: 4153323
Header length: cc
Flags:
URG: 1
ACK: 1
PSH: 1
RST: 1
SYN: 0
FIN: 1
Window Size 26514
Check sum 13771
Urgent Pointer 12034

Destination Hardware Address: 00:0d:65:d2:4a:e0
Source MAC Address: 00:0e:0c:a2:38:88
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 73
Packet Id is 5661
TTL is 64
The packet is an UDP packet
The Source IP: 129.186.215.56
The Destination IP: 129.186.1.200

Destination Hardware Address: 00:0e:0c:a2:38:88
Source MAC Address: 00:0d:65:d2:4a:e0
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 137
Packet Id is 57559
TTL is 61
The packet is an UDP packet
The Source IP: 129.186.1.200
The Destination IP: 129.186.215.56

Destination Hardware Address: 00:0d:65:d2:4a:e0
Source MAC Address: 00:0e:0c:a2:38:88
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 73
Packet Id is 5661
TTL is 64
The packet is an UDP packet
The Source IP: 129.186.215.56
The Destination IP: 129.186.1.200

Destination Hardware Address: 00:0e:0c:a2:38:88
Source MAC Address: 00:0d:65:d2:4a:e0
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 137
Packet Id is 57562
TTL is 61
The packet is an UDP packet
The Source IP: 129.186.1.200
The Destination IP: 129.186.215.56

Destination Hardware Address: 00:0d:65:d2:4a:e0

Source MAC Address: 00:0e:0c:a2:38:88
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 60
Packet Id is 57794
TTL is 64
Packet Type: TCP
The Source IP: 129.186.215.56
The Destination IP: 65.110.227.219
TCP Header:
Source Port: 55996
Destination Port: 33210
Sequence: 5509616750
Ack: 5833159759
Header length: 0
Flags:
URG: 0
ACK: 0
PSH: 1
RST: 0
SYN: 1
FIN: 0
Window Size 34893
Check sum 63455
Urgent Pointer 0

Destination Hardware Address: 00:08:74:f9:04:ab
Source MAC Address: 00:0d:65:d2:4a:e0
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 10
Length of the packet: 52
Packet Id is 6764
TTL is 61
Packet Type: TCP
The Source IP: 192.188.162.61
The Destination IP: 129.186.215.41
TCP Header:
Source Port: 42858
Destination Port: 49340
Sequence: 4153333210
Ack: 5508152443
Header length: 0
Flags:
URG: 0
ACK: 0
PSH: 1
RST: 1
SYN: 1
FIN: 0
Window Size 12034

Check sum 59867
Urgent Pointer 26514

Destination Hardware Address: 00:0d:65:d2:4a:e0
Source MAC Address: 00:08:74:f9:04:ab
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 10
Length of the packet: 1454
Packet Id is 24448
TTL is 64
Packet Type: TCP
The Source IP: 129.186.215.41
The Destination IP: 192.188.162.61
TCP Header:
Source Port: 6620
Destination Port: 33210
Sequence: 5508149340
Ack: 4153323
Header length: cc
Flags:
URG: 1
ACK: 1
PSH: 1
RST: 1
SYN: 0
FIN: 1
Window Size 26514
Check sum 14794
Urgent Pointer 12034

Destination Hardware Address: 00:0d:65:d2:4a:e0
Source MAC Address: 00:08:74:f9:04:ab
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 10
Length of the packet: 1454
Packet Id is 24449
TTL is 64
Packet Type: TCP
The Source IP: 129.186.215.41
The Destination IP: 192.188.162.61
TCP Header:
Source Port: 6619
Destination Port: 33210
Sequence: 5508149340
Ack: 4153323
Header length: cc
Flags:
URG: 1
ACK: 1
PSH: 1

RST: 1
SYN: 0
FIN: 1
Window Size 26514
Check sum 16196
Urgent Pointer 12034

Destination Hardware Address: 00:08:74:f9:04:ab
Source MAC Address: 00:0d:65:d2:4a:e0
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 10
Length of the packet: 52
Packet Id is 65313
TTL is 61
Packet Type: TCP
The Source IP: 192.188.162.61
The Destination IP: 129.186.215.41
TCP Header:
Source Port: 49844
Destination Port: 49340
Sequence: 4153333210
Ack: 5508152443
Header length: 0
Flags:
URG: 0
ACK: 0
PSH: 1
RST: 1
SYN: 1
FIN: 0
Window Size 12034
Check sum 59867
Urgent Pointer 26514

Destination Hardware Address: 00:0d:65:d2:4a:e0
Source MAC Address: 00:08:74:f9:04:ab
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 10
Length of the packet: 1454
Packet Id is 24450
TTL is 64
Packet Type: TCP
The Source IP: 129.186.215.41
The Destination IP: 192.188.162.61
TCP Header:
Source Port: 6618
Destination Port: 33210
Sequence: 5508149340
Ack: 4153323
Header length: cc

Flags:
URG: 1
ACK: 1
PSH: 1
RST: 1
SYN: 0
FIN: 1
Window Size 26514
Check sum 17598
Urgent Pointer 12034

Destination Hardware Address: 00:0d:65:d2:4a:e0
Source MAC Address: 00:08:74:f9:04:ab
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 10
Length of the packet: 1454
Packet Id is 24451
TTL is 64
Packet Type: TCP
The Source IP: 129.186.215.41
The Destination IP: 192.188.162.61
TCP Header:

Source Port: 6617
Destination Port: 33210
Sequence: 5508149340
Ack: 4153323
Header length: cc
Flags:
URG: 1
ACK: 1
PSH: 1
RST: 1
SYN: 0
FIN: 1
Window Size 26514
Check sum 19000
Urgent Pointer 12034

Destination Hardware Address: 00:0d:65:d2:4a:e0
Source MAC Address: 00:08:74:f9:04:ab
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 10
Length of the packet: 899
Packet Id is 24452
TTL is 64
Packet Type: TCP
The Source IP: 129.186.215.41
The Destination IP: 192.188.162.61
TCP Header:
Source Port: 7171

Destination Port: 33210
Sequence: 5508149340
Ack: 4153323
Header length: cc
Flags:
URG: 1
ACK: 1
PSH: 1
RST: 1
SYN: 0
FIN: 1
Window Size 26514
Check sum 20402
Urgent Pointer 12034

Destination Hardware Address: 00:08:74:f9:04:ab
Source MAC Address: 00:0d:65:d2:4a:e0
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 10
Length of the packet: 52
Packet Id is 27002
TTL is 61
Packet Type: TCP
The Source IP: 192.188.162.61
The Destination IP: 129.186.215.41
TCP Header:
Source Port: 22620
Destination Port: 49340
Sequence: 415333210
Ack: 5508152443
Header length: 0
Flags:
URG: 0
ACK: 0
PSH: 1
RST: 1
SYN: 1
FIN: 0
Window Size 12034
Check sum 59867
Urgent Pointer 26514

Destination Hardware Address: 00:08:74:f9:04:ab
Source MAC Address: 00:0d:65:d2:4a:e0
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 10
Length of the packet: 52
Packet Id is 64083
TTL is 61
Packet Type: TCP

The Source IP: 192.188.162.61
The Destination IP: 129.186.215.41
TCP Header:
Source Port: 51074
Destination Port: 49340
Sequence: 415333210
Ack: 5508152443
Header length: 0
Flags:
URG: 0
ACK: 0
PSH: 1
RST: 1
SYN: 1
FIN: 0
Window Size 12034
Check sum 59867
Urgent Pointer 26514

Destination Hardware Address: 00:0d:65:d2:4a:e0
Source MAC Address: 00:08:74:f9:04:ab
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 84
Packet Id is 24453
TTL is 64
Packet type: ICMP
Type: Reply
The Source IP: 129.186.215.41
The Destination IP: 140.112.8.130

Destination Hardware Address: 00:0d:65:d2:4a:e0
Source MAC Address: 00:08:74:f9:04:ab
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 84
Packet Id is 24454
TTL is 64
Packet type: ICMP
Type: Reply
The Source IP: 129.186.215.41
The Destination IP: 145.18.10.70

Destination Hardware Address: 00:0d:65:d2:4a:e0
Source MAC Address: 00:08:74:f9:04:ab
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 84

Packet Id is 24455
TTL is 64
Packet type: ICMP
Type: Reply
The Source IP: 129.186.215.41
The Destination IP: 130.237.32.143

Destination Hardware Address: 00:0d:65:d2:4a:e0
Source MAC Address: 00:08:74:f9:04:ab
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 84
Packet Id is 24456
TTL is 64
Packet type: ICMP
Type: Reply
The Source IP: 129.186.215.41
The Destination IP: 142.150.210.13

Destination Hardware Address: 00:0d:65:d2:4a:e0
Source MAC Address: 00:08:74:f9:04:ab
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 84
Packet Id is 24457
TTL is 64
Packet type: ICMP
Type: Reply
The Source IP: 129.186.215.41
The Destination IP: 129.186.140.100

Destination Hardware Address: 00:08:74:f9:04:ab
Source MAC Address: 00:0d:65:d2:4a:e0
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 84
Packet Id is 53445
TTL is 61
Packet type: ICMP
Type: Request
The Source IP: 129.186.140.100
The Destination IP: 129.186.215.41

Destination Hardware Address: 00:50:2c:06:e6:5c
Source MAC Address: 00:08:74:f9:04:ab
Packet Type: IP
IP version: 4
Header Length: 5

Type of Service: 0
Length of the packet: 136
Packet Id is 24458
TTL is 64
The packet is an UDP packet
The Source IP: 129.186.215.41
The Destination IP: 129.186.215.50

Destination Hardware Address: 00:08:74:f9:04:ab
Source MAC Address: 00:50:2c:06:e6:5c
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 180
Packet Id is 23244
TTL is 64
The packet is an UDP packet
The Source IP: 129.186.215.50
The Destination IP: 129.186.215.41

Destination Hardware Address: 00:08:74:f9:04:ab
Source MAC Address: 00:0d:65:d2:4a:e0
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 84
Packet Id is 39114
TTL is 241
Packet type: ICMP
Type: Request
The Source IP: 142.150.210.13
The Destination IP: 129.186.215.41

Destination Hardware Address: ff:ff:ff:ff:ff:ff
Source MAC Address: 02:02:81:ba:d7:33

Destination Hardware Address: 00:08:74:f9:04:ab
Source MAC Address: 00:0d:65:d2:4a:e0
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 84
Packet Id is 44123
TTL is 115
Packet type: ICMP
Type: Request
The Source IP: 145.18.10.70
The Destination IP: 129.186.215.41

Destination Hardware Address: 00:08:74:f9:04:ab
Source MAC Address: 00:0d:65:d2:4a:e0

Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 84
Packet Id is 54740
TTL is 49
Packet type: ICMP
Type: Request
The Source IP: 130.237.32.143
The Destination IP: 129.186.215.41

Destination Hardware Address: ff:ff:ff:ff:ff:ff
Source MAC Address: 02:01:81:ba:d7:33

Destination Hardware Address: 00:08:74:f9:04:ab
Source MAC Address: 00:0d:65:d2:4a:e0
Packet Type: IP
IP version: 4
Header Length: 5
Type of Service: 0
Length of the packet: 84
Packet Id is 37288
TTL is 240
Packet type: ICMP
Type: Request
The Source IP: 140.112.8.130
The Destination IP: 129.186.215.41

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78 packets received by filter
0 packets dropped by kernel
Packet Count:
ARP packet: 0
IP packets: 44
Broadcast packets: 4
ICMP packets: 20
TCP packets: 14
DNS packets: 0

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Reference:

1. <http://www.dougj.net/modules/index.html>