Elijah Cordova 1425119 CMPE 150 Due 03/04

Lab 3:

## 1. pingall

```
*** Ping: testing ping reachability
h1 -> X X X
h2 -> X X X
h3 -> X X X
h4 -> X X X
*** Results: 100% dropped (0/12 received)
```

As expected, pingall fails for all transfers. This is because pingall is an ICMPv4 protocol while the filter only accepts TCP(/ipv4) and ARP connections.

## 2. dpctl dump-flows

After the pingall command, this is the result of dpctl dump-flows. This is the result of the entries installed by switch via of\_flow\_mod. Timeout is set to 1000 for idle and 3000 for hard timeout.

## 3. iperf

```
mininet> iperf

*** Iperf: testing TCP bandwidth between h1 and h4

*** Results: ['23.9 Gbits/sec', '23.9 Gbits/sec']
```

As expected, iperf passes for TCP connection. Similar to pingall, except we have an exception for TCP connections to go through, so we get above result with a successful transfer. The switch sees that the packet has a dl\_type of 0x800 and a nw\_proto of 6 so it lets it through.