Example 2. This example gives a sample output where two packet switches are started, and the input file does not specify delays (so the switch that started later may miss receiving some packets). Here, we open three terminal windows on the same lab workstation. On the first window, we invoke a2w22 as a master switch. On the second and third windows, we invoke a2w22 as switches psw1 and psw2, respectively, as described in the data file below:

```
# Data file for a2w22

# a2w22 master 2

# a2w22 psw1 ex2.dat null psw2 100-110

# a2w22 psw2 ex2.dat psw1 null 200-210

psw1 100 102

psw1 100 300

psw1 100 300

psw2 200 300

psw3 200 300

psw2 200 100

psw2 200 100

psw2 200 100

psw1 100 103

psw1 100 104
```

Sample output (edited for clarity):

• An info command to the master switch produces the following output:

```
Switch information:
[psw1] port1= -1, port2= 2, port3= 100-110
[psw2] port1= 1, port2= -1, port3= 200-210

Packet Stats:
    Received: HELLO:2, ASK:4
    Transmitted: HELLO_ACK:2, ADD:4
```

• An info command to switch psw1 produces the following output:

```
Forwarding table:

[0] (srcIP= 0-1000, destIP= 100-110, action= FORWARD:3, pktCount= 3)

[1] (srcIP= 0-1000, destIP= 200-200, action= DROP:0, pktCount= 1)

[2] (srcIP= 0-1000, destIP= 300-300, action= DROP:0, pktCount= 1)

Packet Stats:

Received: ADMIT:5, HELLO_ACK:1, ADD:2, RELAYIN:2

Transmitted: HELLO:1, ASK:2, RELAYOUT:0
```

Note that rule [1] in the forwarding table drops a packet with destIP= 200 instead of forwarding the packet to psw2. This can happen if psw1 asks the master switch before the start of psw2. The master switch then instructs psw1 to drop the packet.

• An info command to switch psw2 produces the following output:

```
Forwarding table:

[0] (srcIP= 0-1000, destIP= 200-210, action= FORWARD:3, pktCount= 0)

[1] (srcIP= 0-1000, destIP= 300-300, action= DROP:0, pktCount= 1)

[2] (srcIP= 0-1000, destIP= 100-110, action= FORWARD:1, pktCount= 2)

Packet Stats:

Received: ADMIT:3, HELLO_ACK:1, ADD:2, RELAYIN:0

Transmitted: HELLO:1, ASK:2, RELAYOUT:2
```