

Initialize Headers
Set input port,
Ethernet source,
destination, and type;
set all others to zero

Eth type =
0x8100?

Set VLAN ID and
PCP. Use
encapsulated Eth
type for next Eth
type check

Eth type =
0x0806?

Set IP source,
destination from
within ARP
packet

Eth type =
0x0800?

Set IP source,
destination,
protocol, and
ToS fields

Packet Lookup
Use assigned
header fields

Not IP
Fragment?

IP Proto =
6 or 7?

Use UDP/TCP
source and
destination for
L4 fields

IP Proto =
1?

Use ICMP
type and code
for L4 fields

decision

yes

no

