192.168.0.1 /24

010 000 00 0.

enp9s0:

192.168.50.148/24

tun0:

10.0.3.0/24

PC1: 192.168.50.148

PC3: 10.0.3.50 | Implementation here.

Incoming

While true:

~~tun_read~~ → skb ~~data~~

The calculated checksum ≠ 0

net_dev_transmit ...

② tun_read → skb → data

0 checksum only used for ~~calc~~ verification!

~~...~~

Frag offset 0x40

0100|0000|0000|0000

0x4 | 0 | 0 | 0

Cast skb from head (skb→head) to eth_hdr

~~Check~~. ethertype big endian → small endian

Interp ethertype, call respective ~~func to~~ func (ARP/IP)

else: err.

PC1

ARP ~~...~~ receive

PC3 → PC1 mac

PC1 IP — ARP reply — PC3 IP

010
& 010
010

enp9s0

192.168.50.148

GATEWAY dest: 0 / gateway 10.0.3.0 / mask 255.255.255.0

tun0

dest 10.0.3.50 / gateway: 0 / mask 255.255.255.0