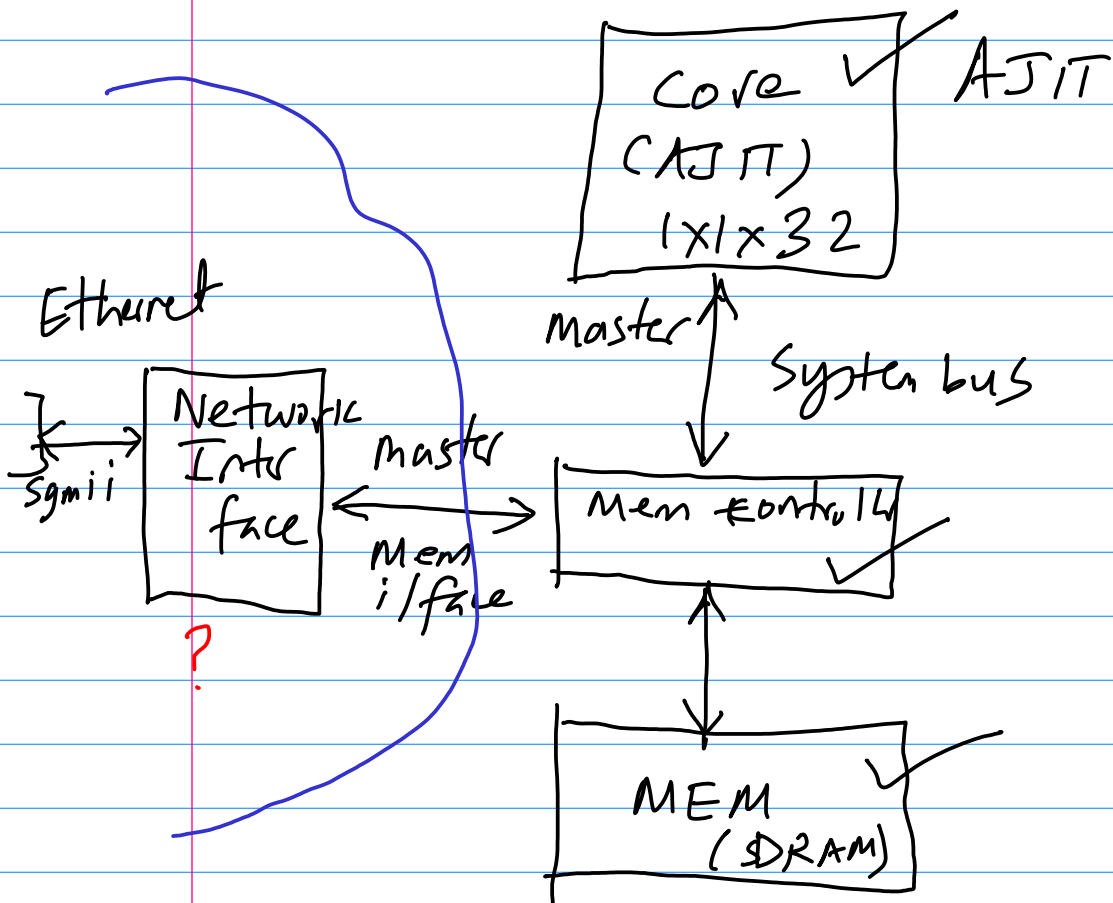
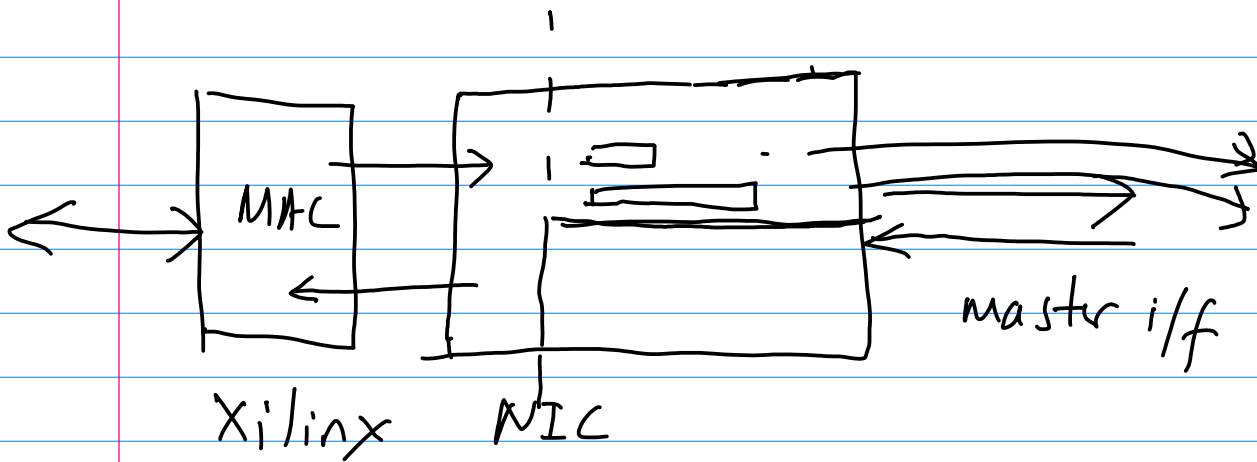


System 0



NIC_0



upper
half

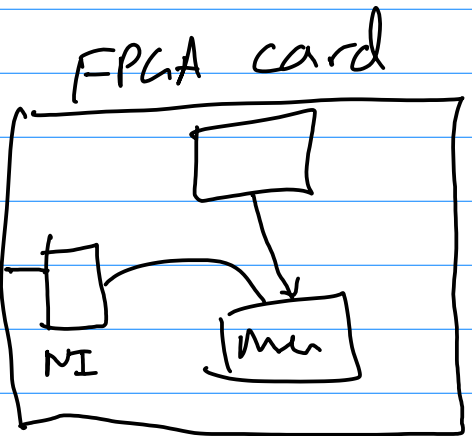
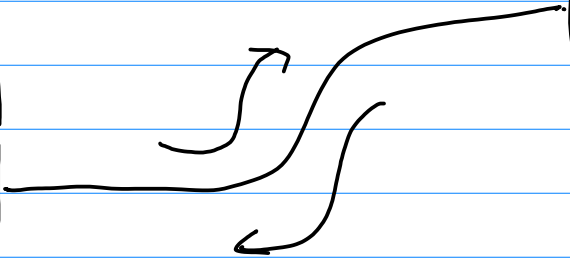
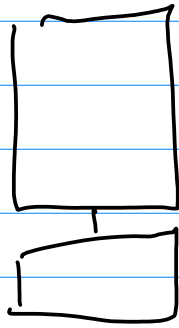
- ① WRITE HEADER
- ② set header flag
- ③ WRITE PACKET
- ④ write packet flag

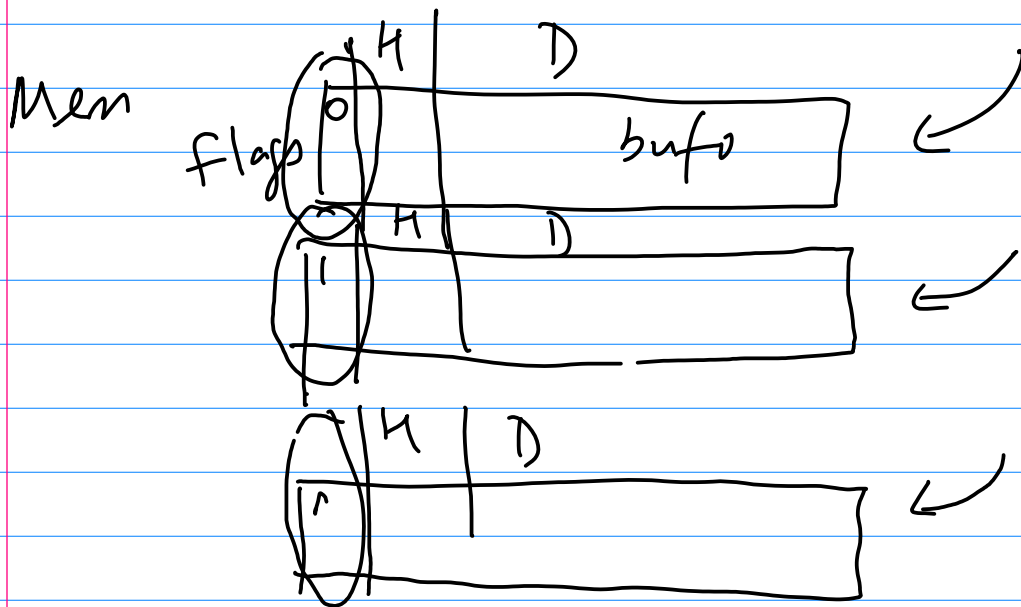
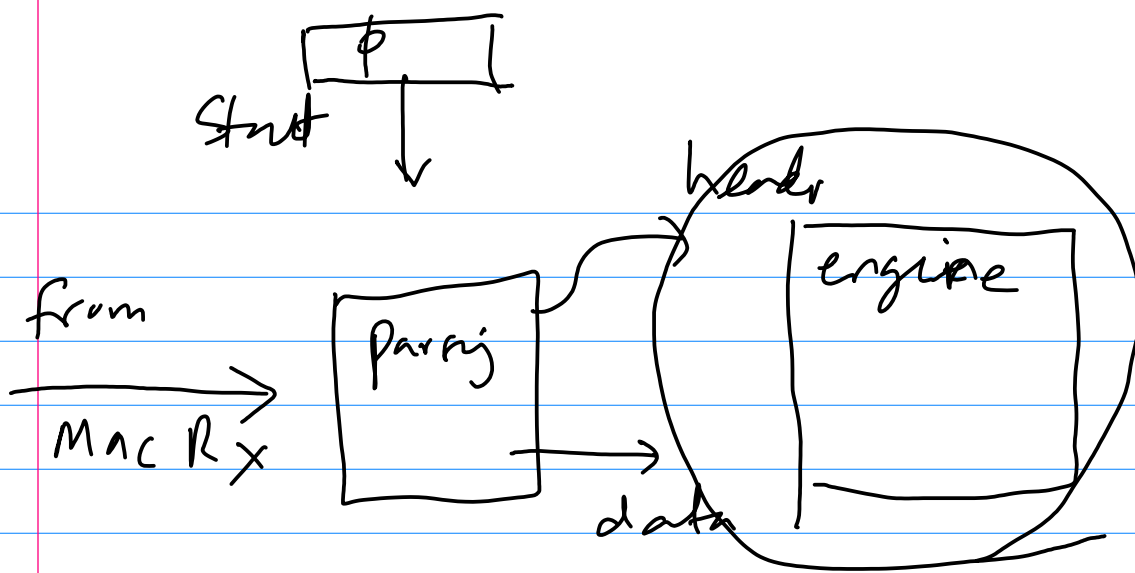
lower
half

poll cpu decision
read back packet
from mem.
send packet

GOAL - 0

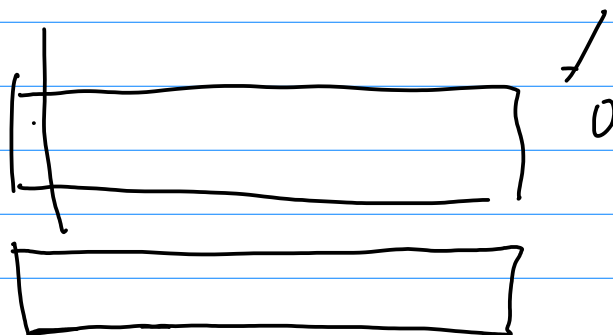
demo

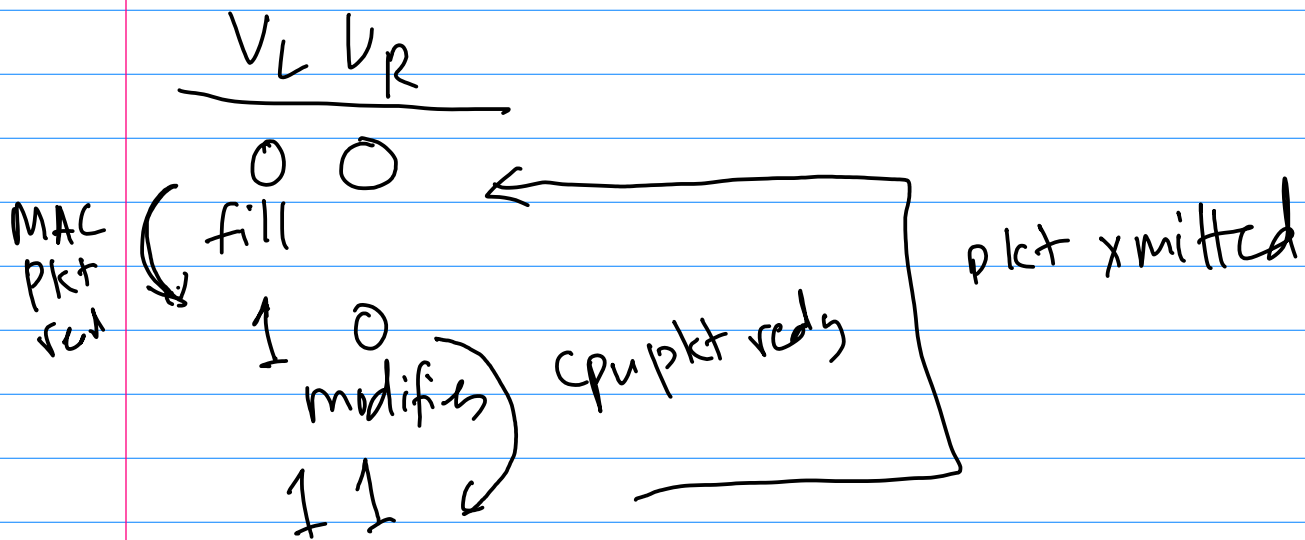
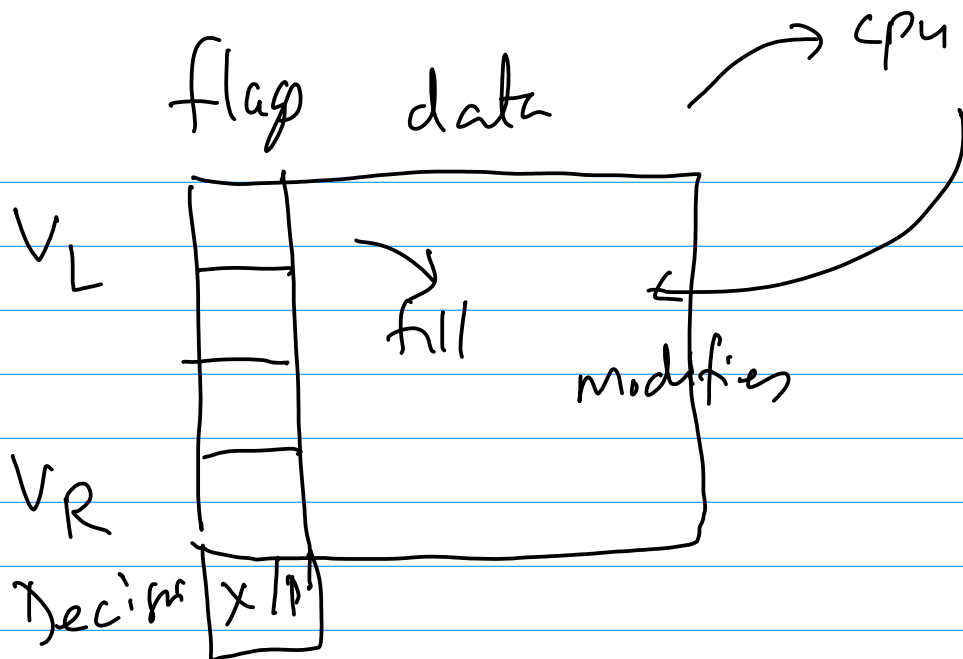


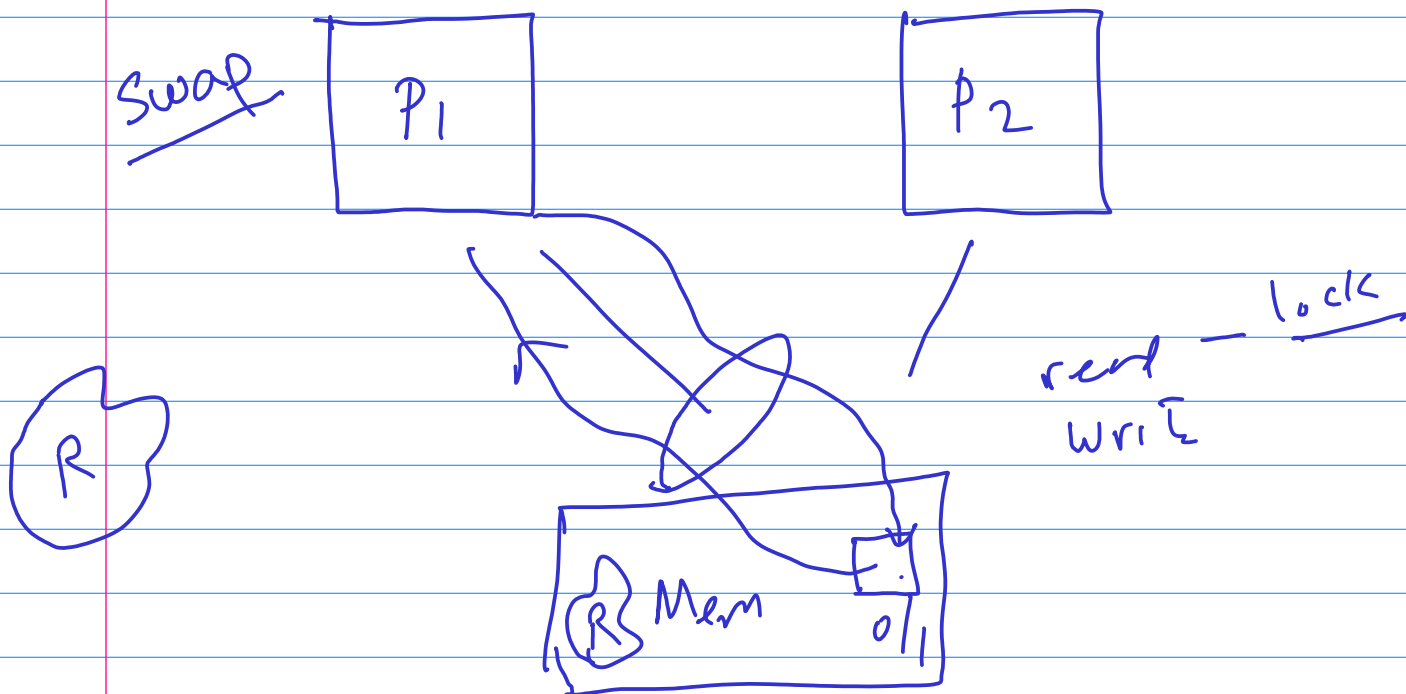


lower
eye

Mem

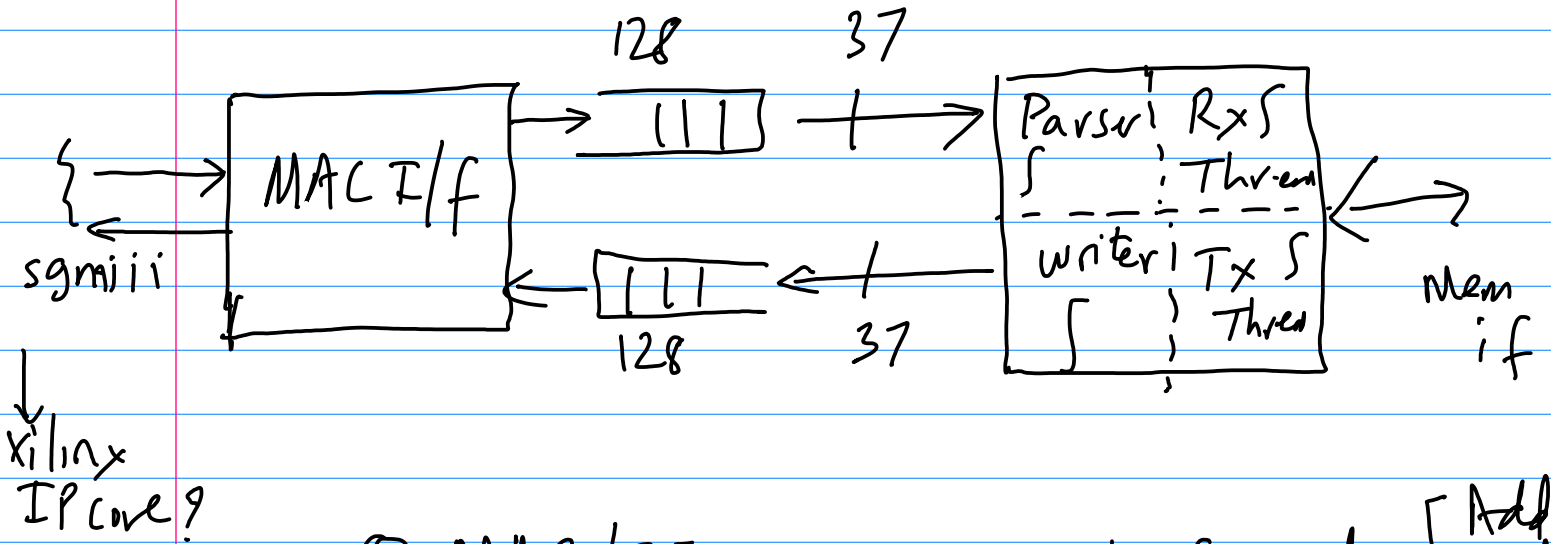






Ethernet

host



① MAC/IF

37 bit format [Add]
[Bad]

② NIC

parser: extract E-header from MAC
data payload from MAC
forward to RxS

RxS: $I \leftarrow 0$
while (1)
{
 $B \leftarrow \text{get Buffer}(I)$
 fill Buffer (h, payload)
 set flags if pkt ok
 $I++$

write {
 recv 64
 split x2
 send words
 based on last
}

TxS: $I \leftarrow 0$
while (1)
{
 check PktStatus(I)
 if xmit
 Read pkt, header
 fwd to write f
 clear flags, $I++$

swap
ldstub

