

~

Domo

DomU

- vdevice-blk
- ~~device-id~~

} disk

hypercall

setup vdevice state
for devid = abcd
devtype = blk

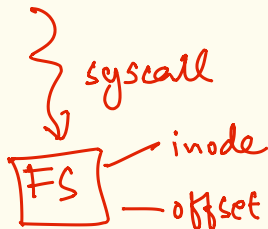
- ^{vmm} setup memory region
for ioring & shared
data region

~ mapped into Dom0.

- initialize
devid (hypercall)
- vmm looks
up config state
for devid
- maps shared
regions into
vm

Guest program

Process → read(fd, buf, size)



blk num.
R/w
memory addr.

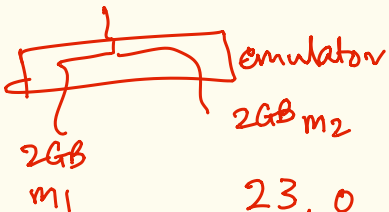
Full virtualization

write to a reg
— u —
— r — } 3 traps

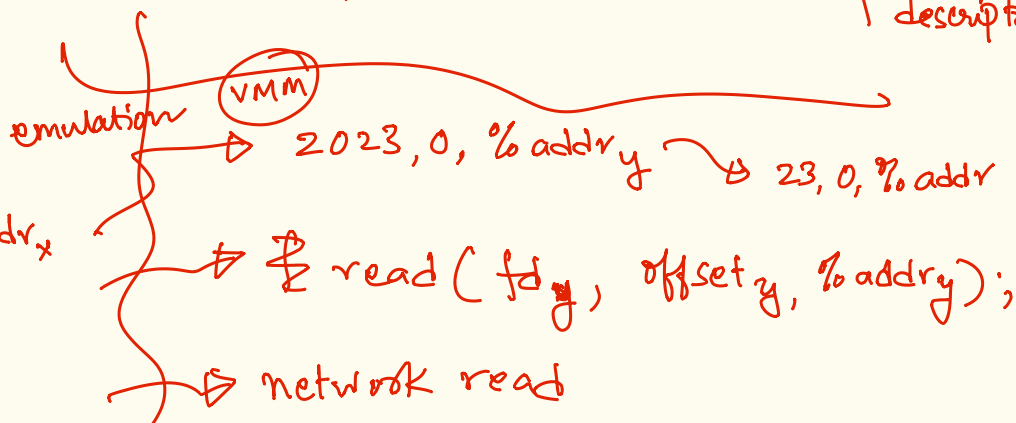
PV

single
copy
to a
ring
descriptor

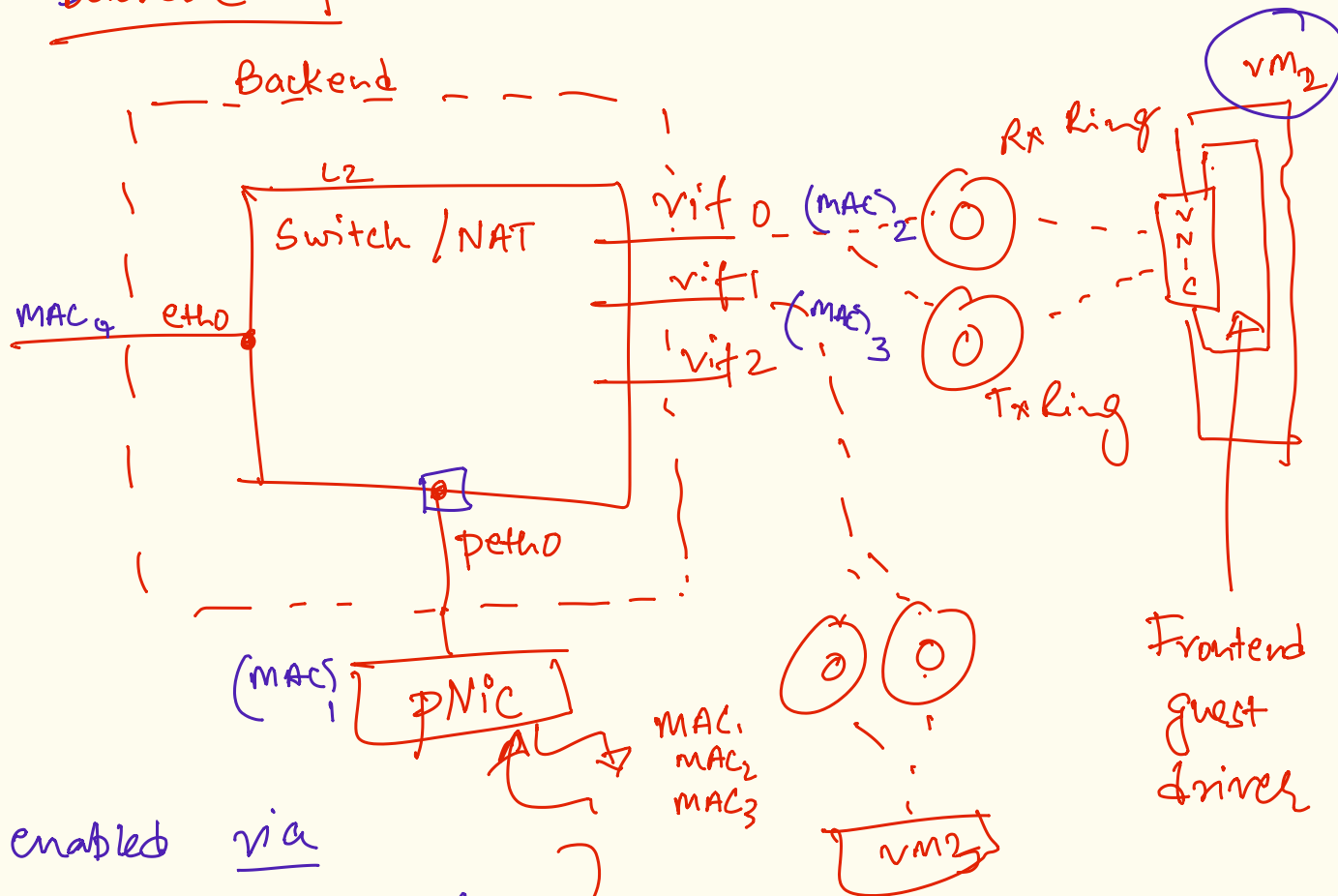
vdevice - 4GB storage



23, 0, %addr_x

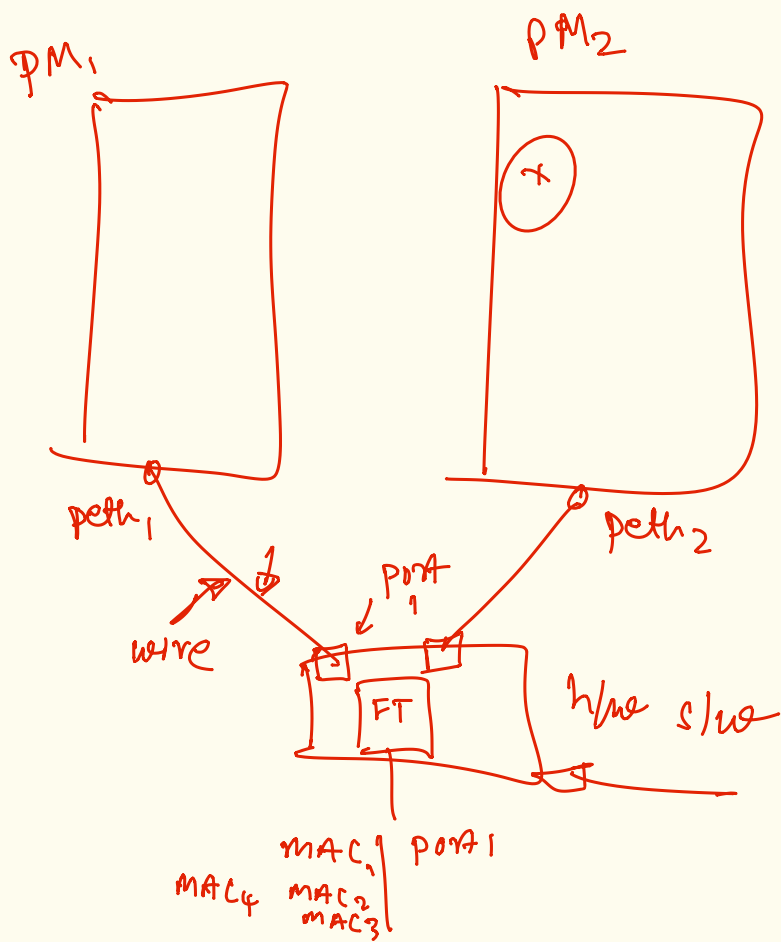


Backend for network 10



(*) enabled via
promiscuous mode
of the NIC.

for L2 switching
to get PKTs w/ all MAC addrs.



3 H/w - assisted IO

~ multiplexing / sharing / setup is h/w assisted.

