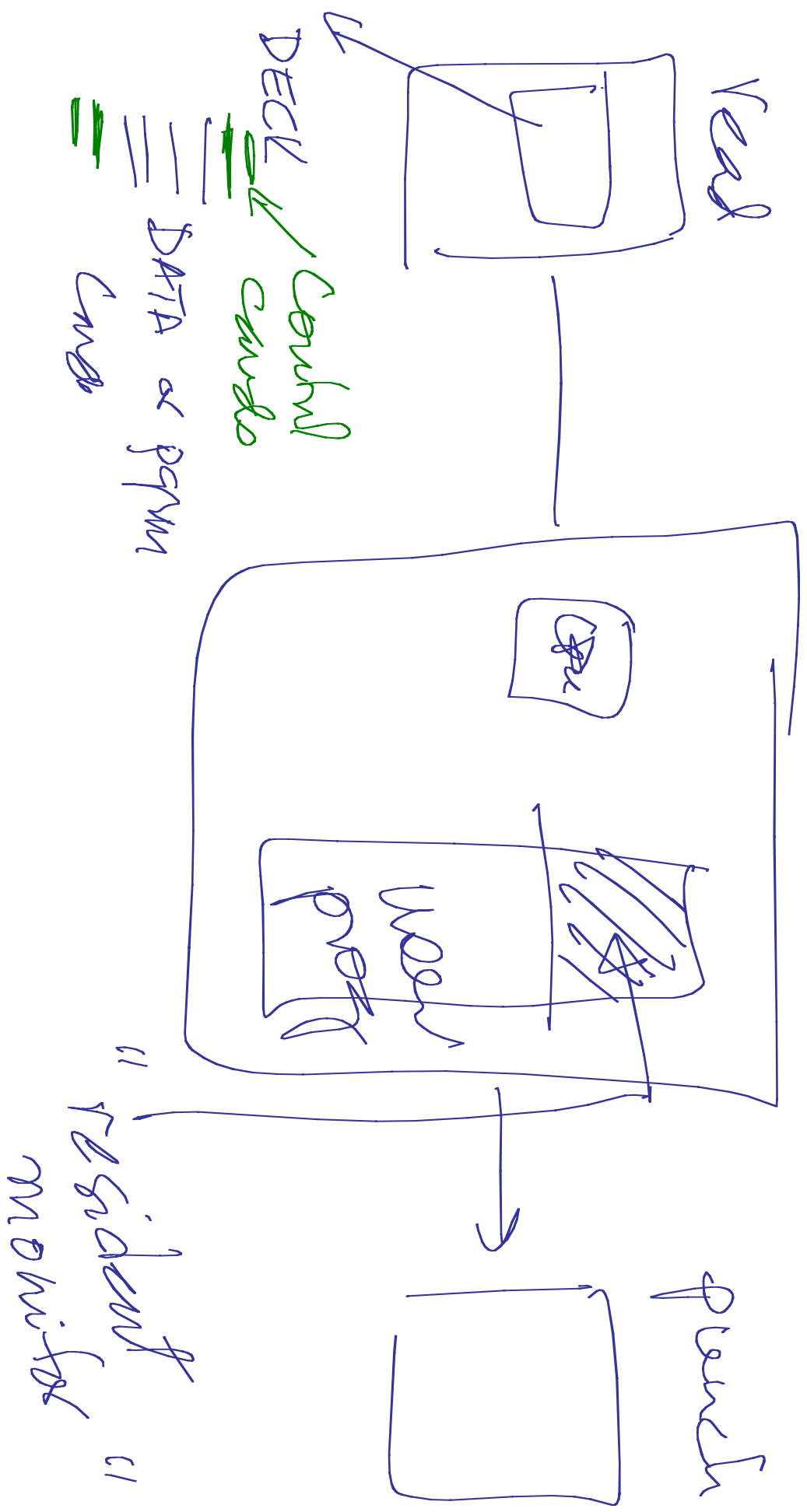
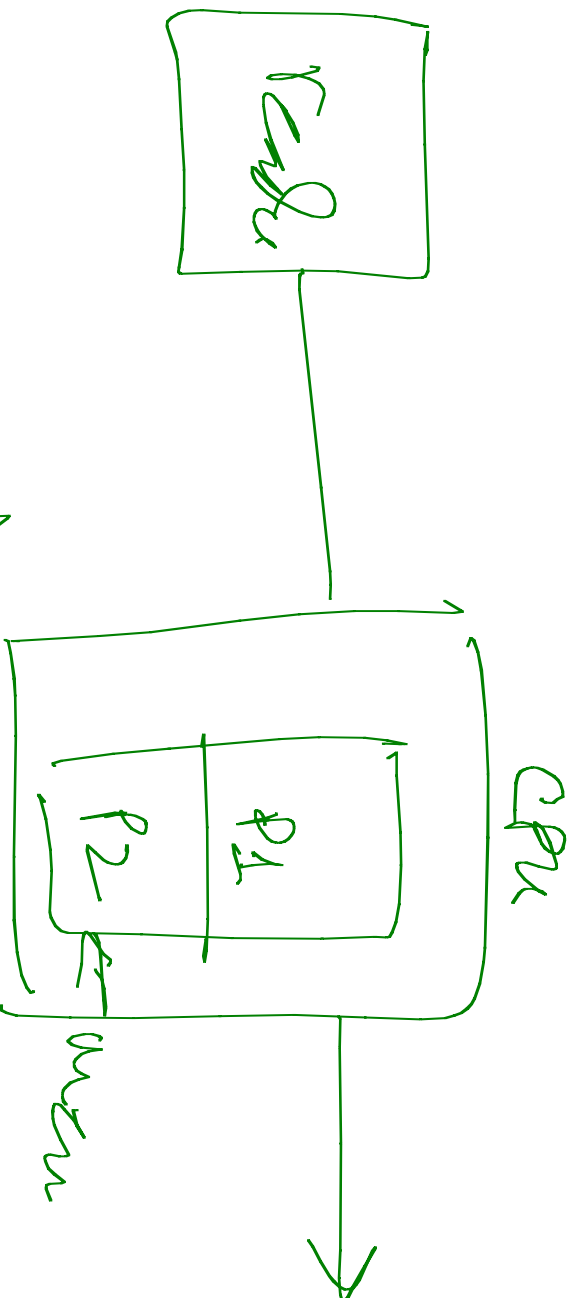


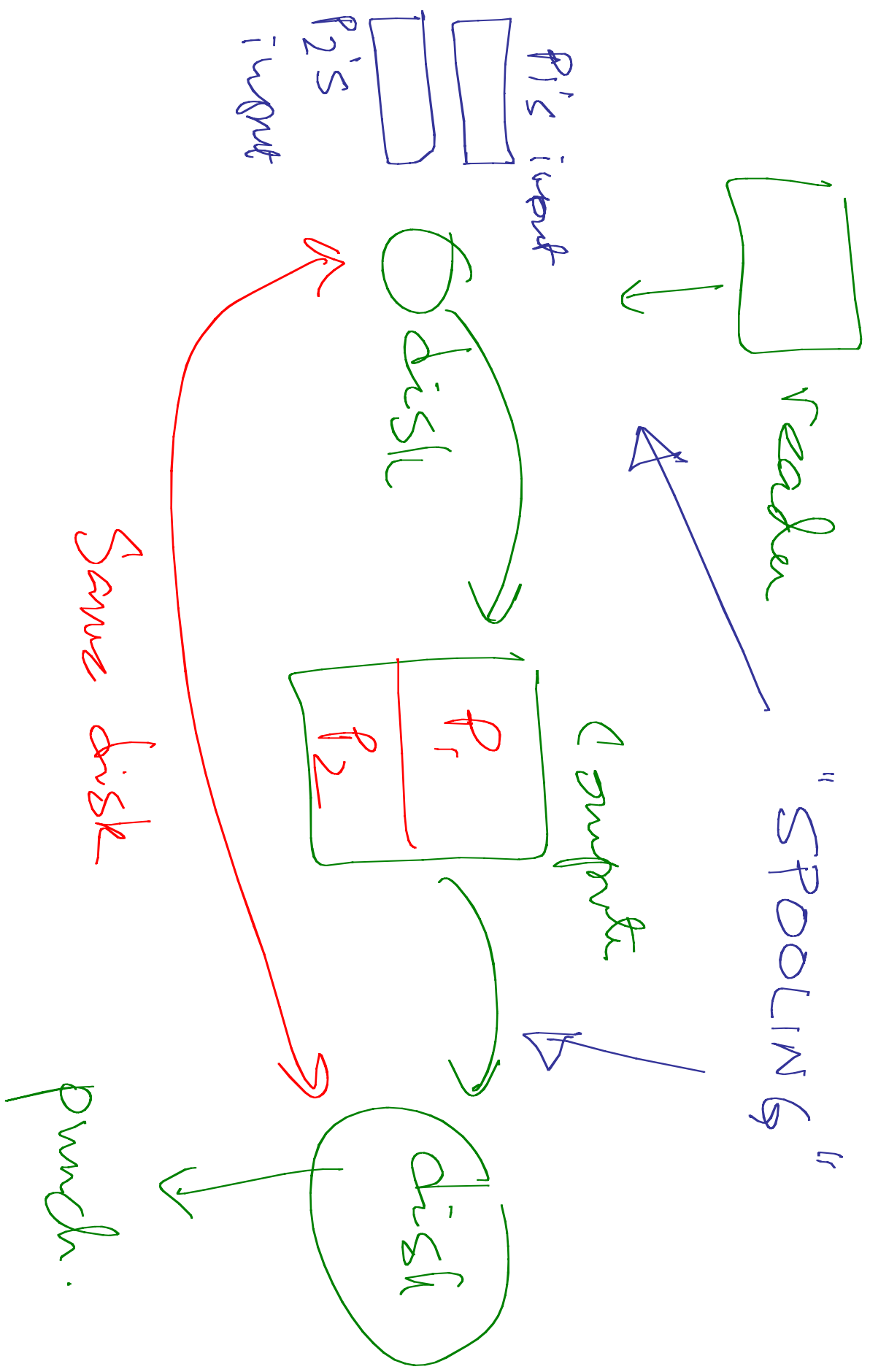
Operator + automated machine



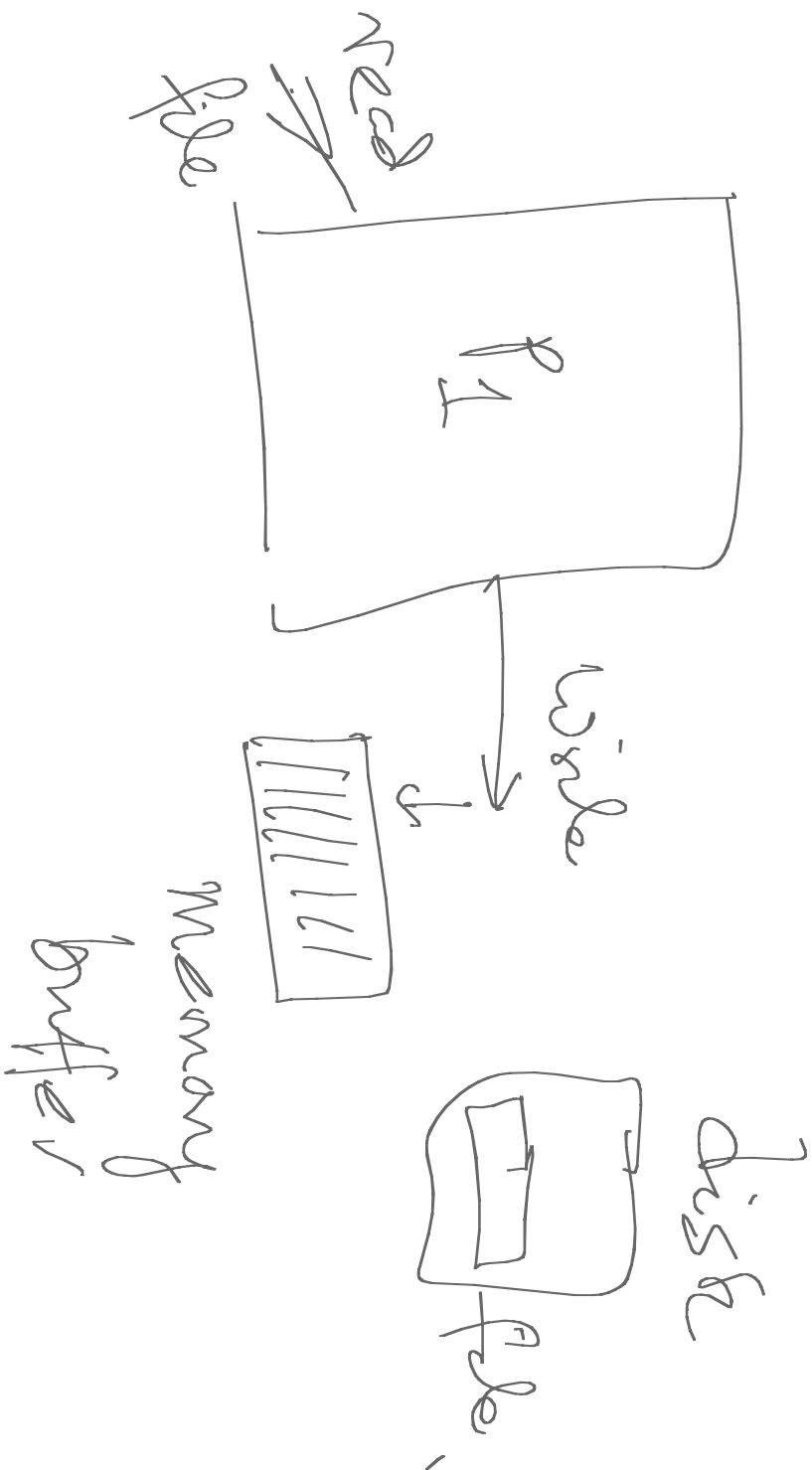
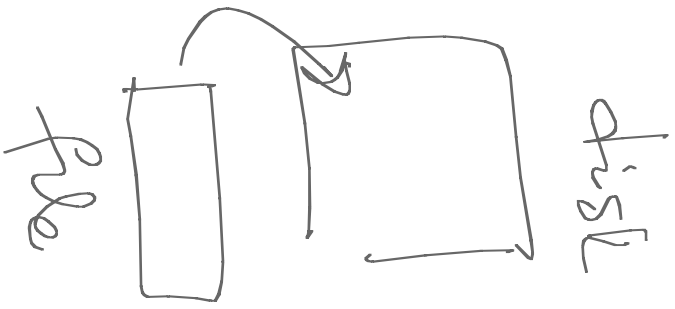
Dierasp I/O operations with
CPU processing



works with virtual
input & output dev



Buffering



— A management program

→ RESIDENT monitor

— Protection
↳ operating system

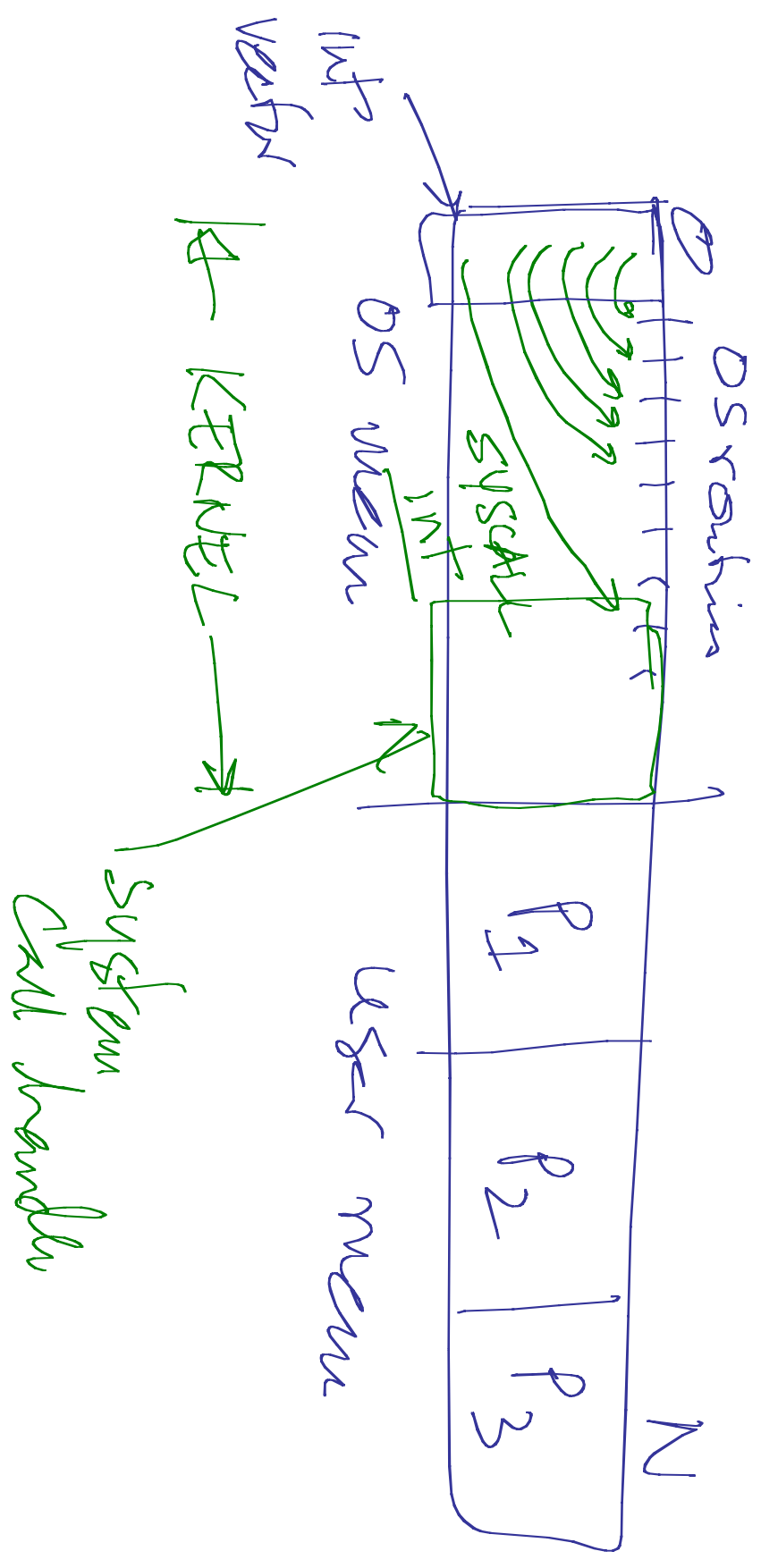
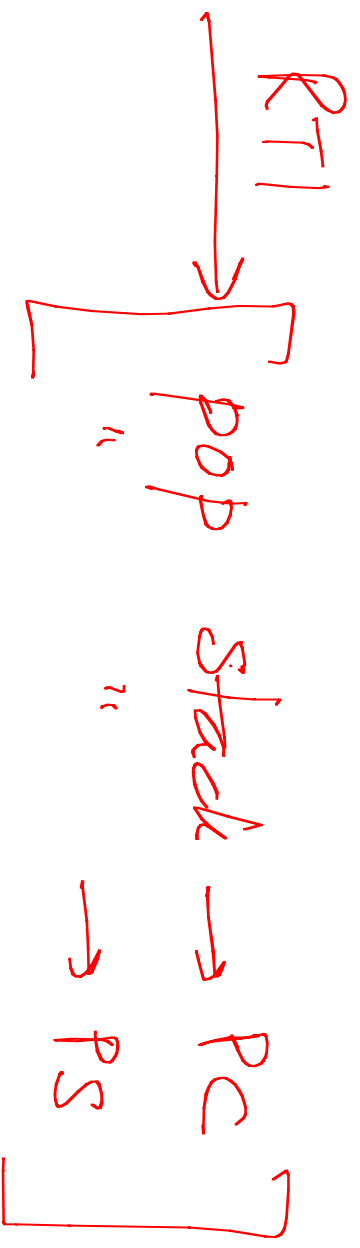
→ multi-processing support
tasking

→ memory management

→ input output

Operating System

- User view
 - commands
 - tools
 - programming interface
(libraries & system calls)
- System view
 - Resource management
 - ↳ CPU/memory/devices
 - interrupts / exceptions
 - services



SYSTEM CALL

handle for 80

{ check R0

if R0 == 0 →

R0 == 25 →

write(R1, R2, R3)

Mem for write

User prog

write (fd, buf, n)

LOAD fd → R1

LOAD buf → R2

load n → R3

load SYSCALL# → R0

INT 80

25

Types of Operating Systems

- Windows
- Linux
- Macintosh

- Mainframe
- Multiprogrammed
- Timeshared

Multicore
desktop
Server
Embedded
Real time