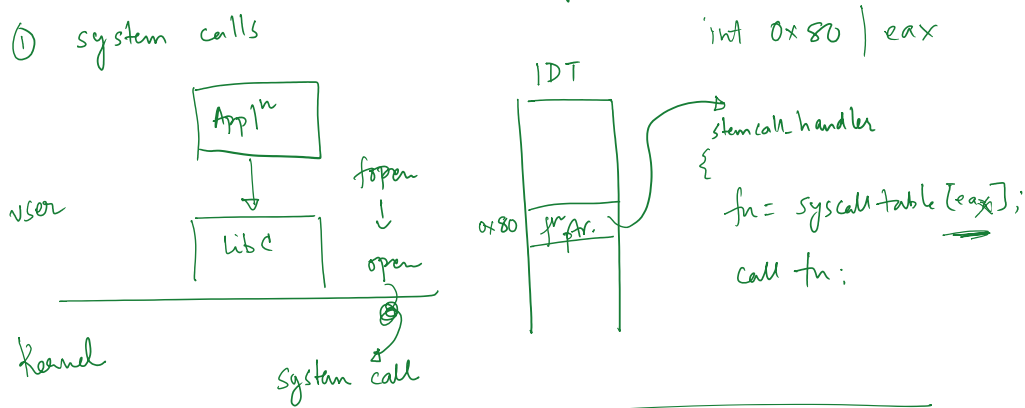


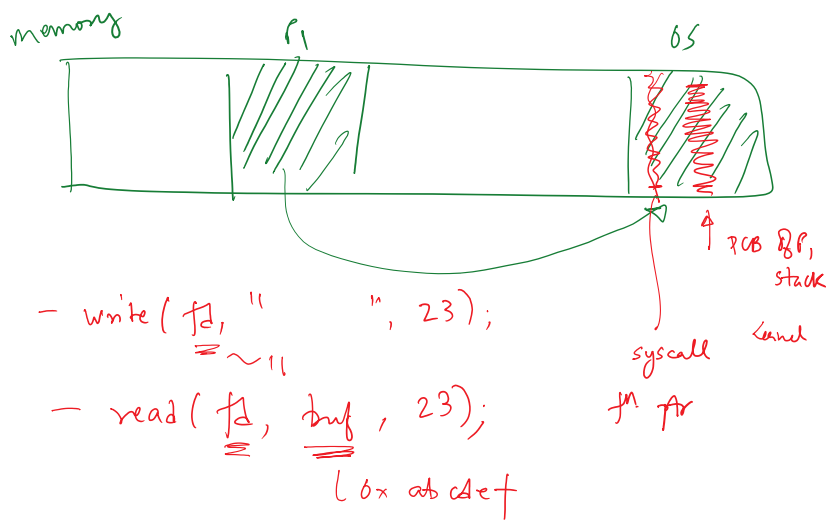
① system calls



* process context for system calls.

- "system calls execute in a process context."

interrupt context



② Recap.

- Goal of an OS is to provide abstractions

(for general purpose computing)

to save the world! — need resources

- tasks

resources mgmt.

isolation / protection

- transparent / interface-driven

- efficiency!

} perf. / execution

③ two building blocks (under R execution / limited direct execution || assisted

- ⑦ two building blocks (
- modes of execution / limited direct execution || assisted
 - interrupt-driven execution.

↳ principle: let user programs run ^{directly} on the CPU as far as possible.

↓

- only intervene when required.

bad stuff interrupts

⇒ OS still paranoid about regaining control of the CPU.

③ process

- execution entity
- memory, files, variables etc.
- implicit assumption of CPU(s).

process view

abstraction

virtualization / multiplexing

↙

hardware / resource