COMSW4118-4-1 copies file descriptors as well!

• Last +rme: fork(), exec() - to create/fork and exec; wait()/waitpide) ► exit() - leils the process and exits w/ return code. [read, write, open, close, getpu] · Pipes - connections by different processes, created by a system call: NOTE: anomymous pipes like the each process needs to close the and it is not asing.

Another form only be used by a parent and child.

Another months and distance the complete and standards. ▶ dup() takes a file descriptor and numbers it into another one (duplicate it) Dither to the next available or, in the case of dup2() to a provided one dorsing it first, if necessing · How do the Os services provided (system calls) work behind the works? George Gack to structure, the kerne is where the system calls are implemented.

APPS

Taking a Gottom-up View:

System calls—

Registed CPV — runs instruction in sequence has program counter (PC) to

Store next instruction address HARDWARE (CPU...)

RAM

Ex. Enstructions: add, tabtract, load, ...

Programmable interrupt
Controller (PEC)

PC to sth. diff. Than ++ PC. Interrupting on interrupt? depends on honder one; To stop what ope is doing a take care of urgent regues? Some allows only 1 whenups, In hardware, E/n each instruction the CPU checks for interrupt come allows nested ones. If one is found, CPU stops, remembers, where it left off 1 CPU] (soring PC 2 Whole CFU State) and Processes the interrupt * humany Hierarchy [RAM] Joing meanwhile District of the interrupt of the in mouse move, hard drive, etc. m general (primag home) Wholi actually formands interrupts to the CPU. Interrupts get hundled by an Interrupt Handler, dade defined by the OS this is installed by the OS The a place where the hardware linears to find it. • The interrupt handler is software, hence it uses the CPU (RC, etc.)
• Most interrupt handlers are short: need to work quickly to not interrupt for long. The interrupt handler saves the state and subsequently restores it.

What if it gets interrupted while processing an interrupt? (it runs on CPU, on checkes for A lot of systems just do not allow this ...