

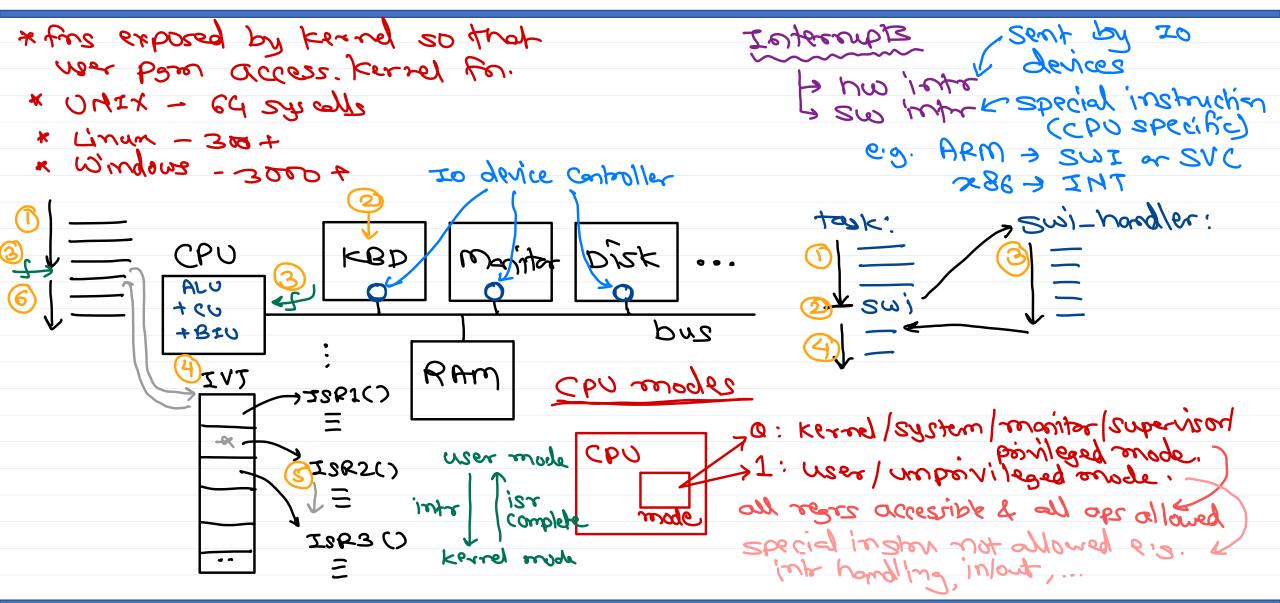


Operating System Concepts

Sunbeam Infotech

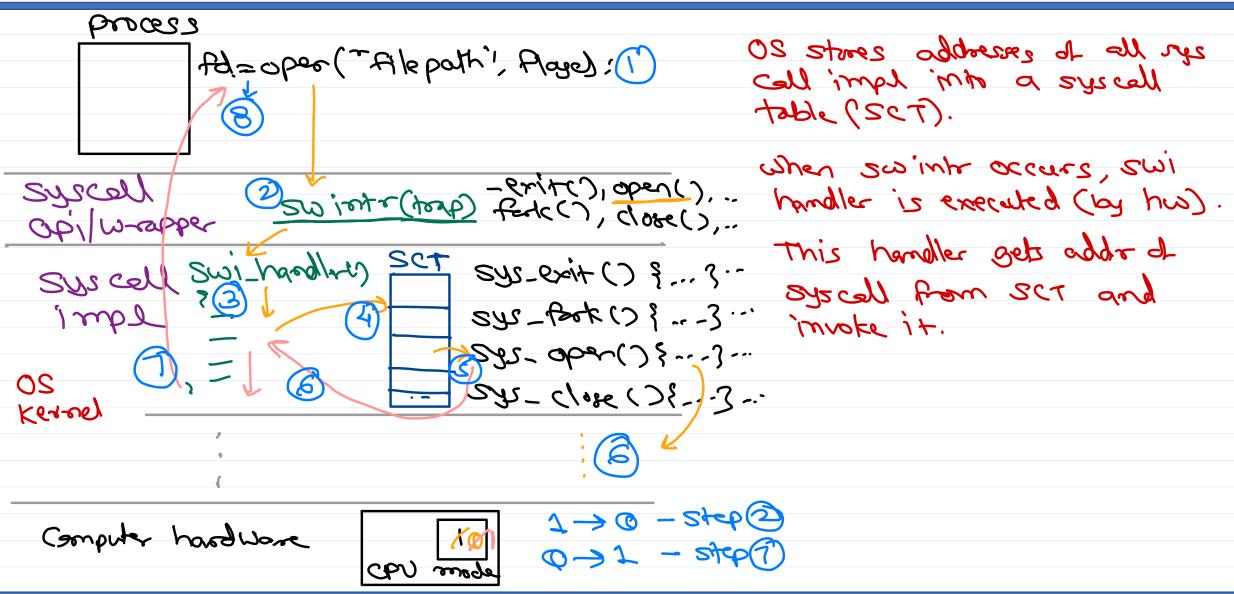


Interrupts and CPU modes



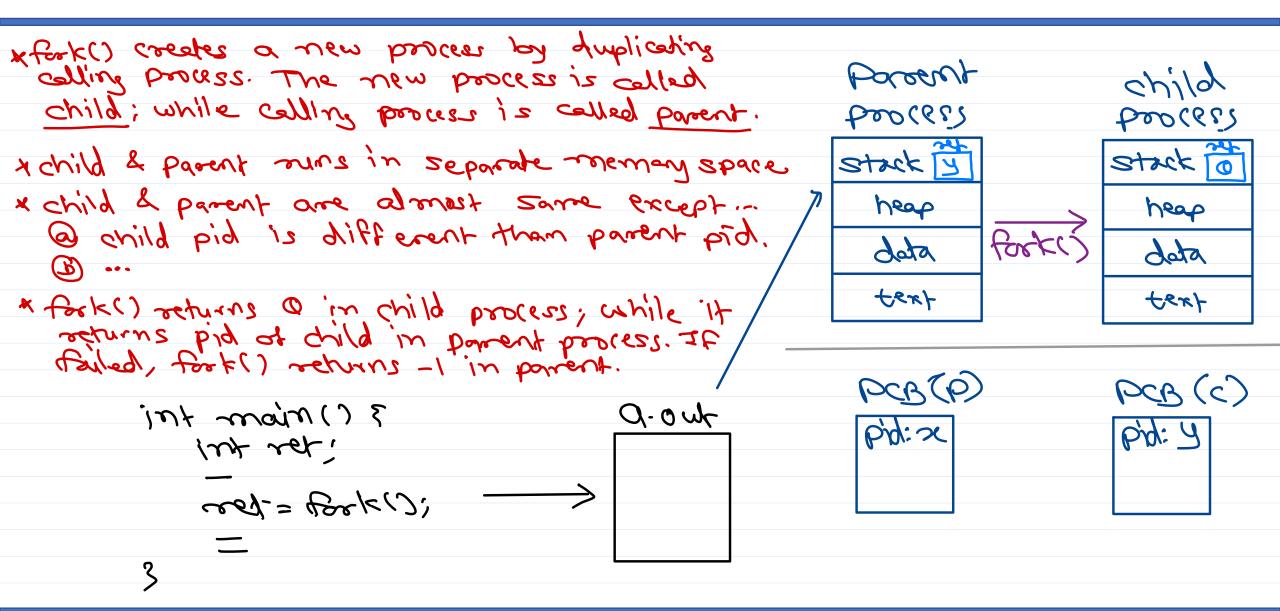


System calls





fork() syscall

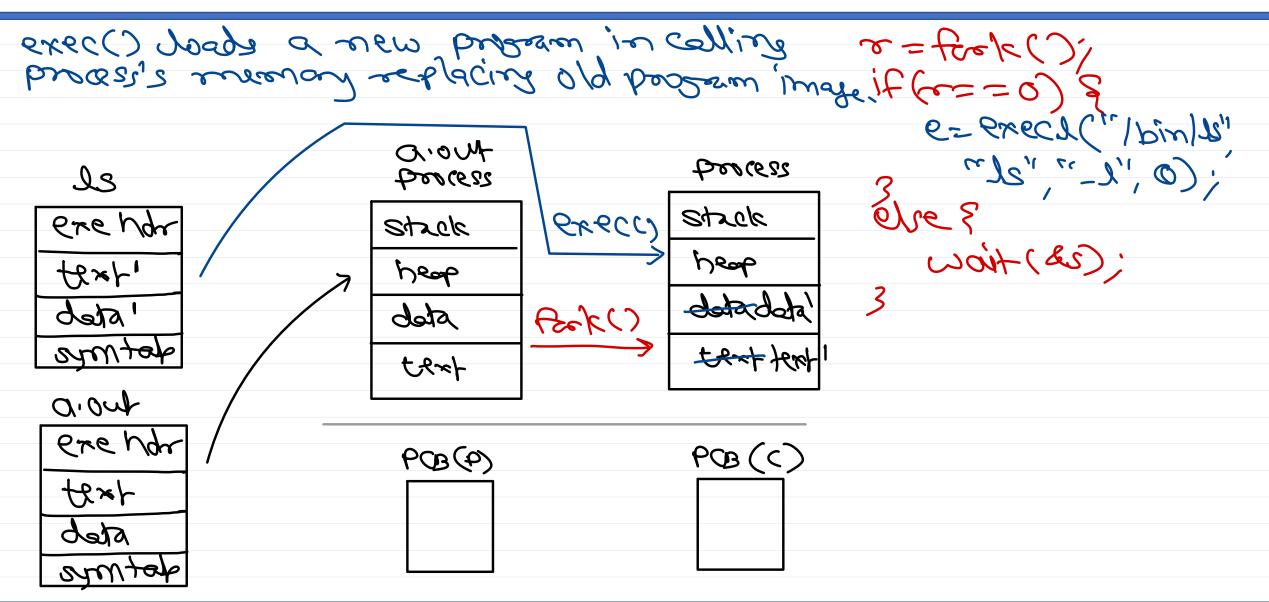




Orphan and Zombie process

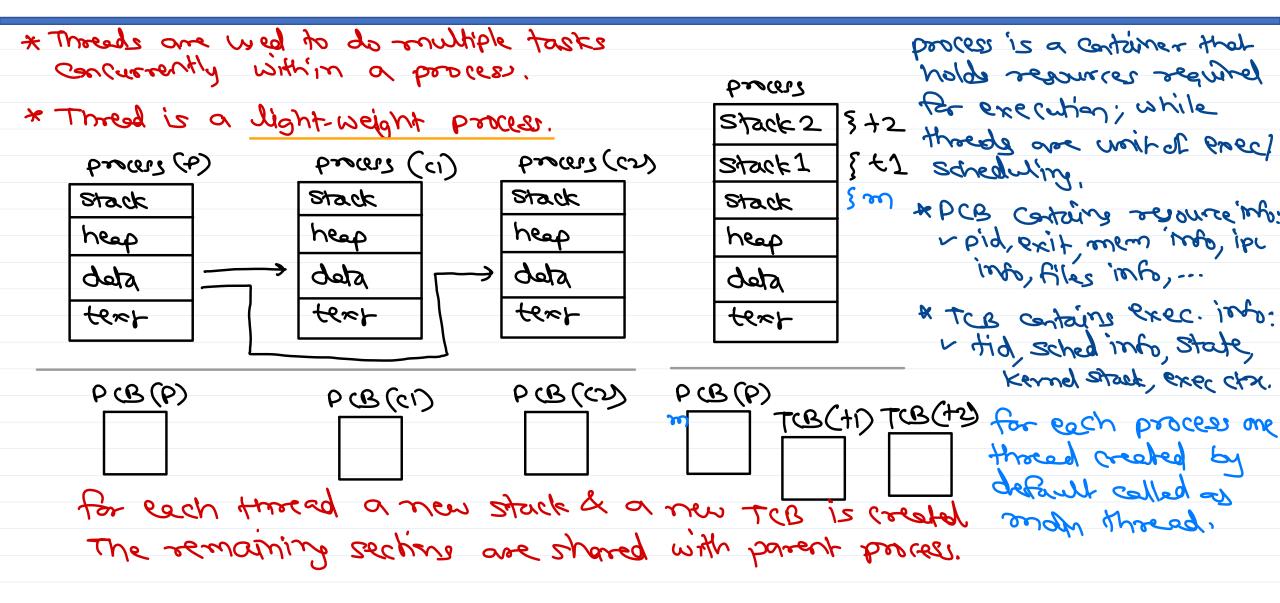
runen parent is terminated before child process, the child is said to be perphan. Le handed over to mit bystemd (pid=1). child basses, BOOLESS -when child is terminated before parent Stack Stack and powert is not reading exit status of heap the child, the child process is in somble state near - In this state all recources of child are deta Delta released except the PCB. text FRAL " The parent must read exit status of child from that PCB, to make process dead(x). ~ This is done wing wat () sys cell. DCB (P) 1) pause ene cutien et parent until ane et @ read exit status of child from its PCB. X 3 release PCB of child





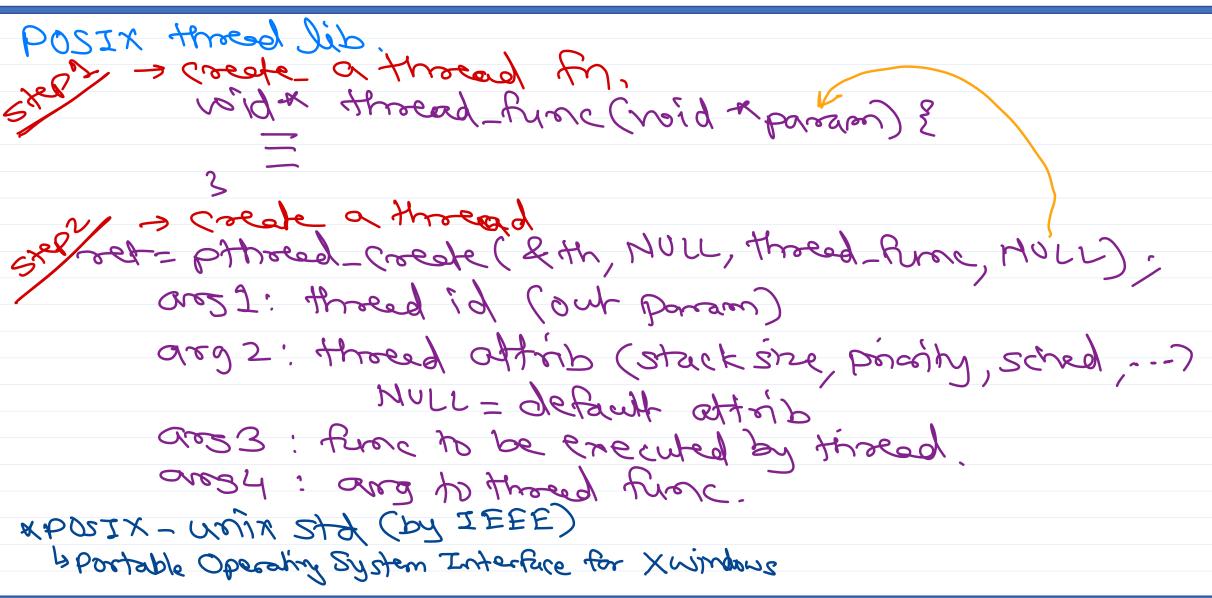


Multi-threading



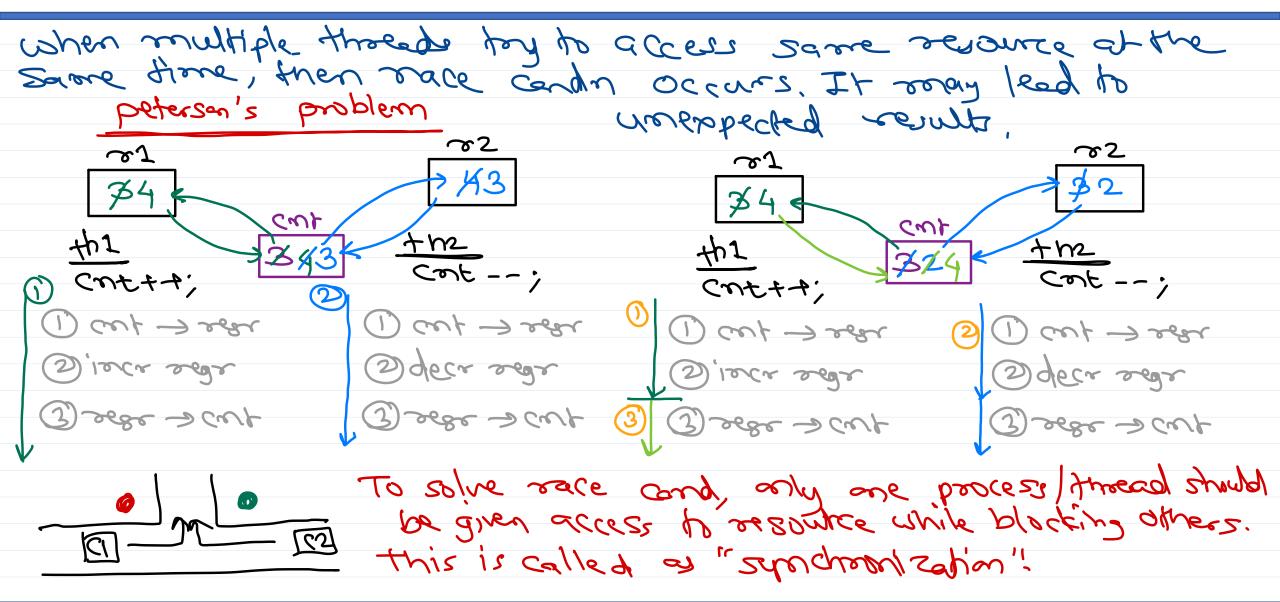


Thread



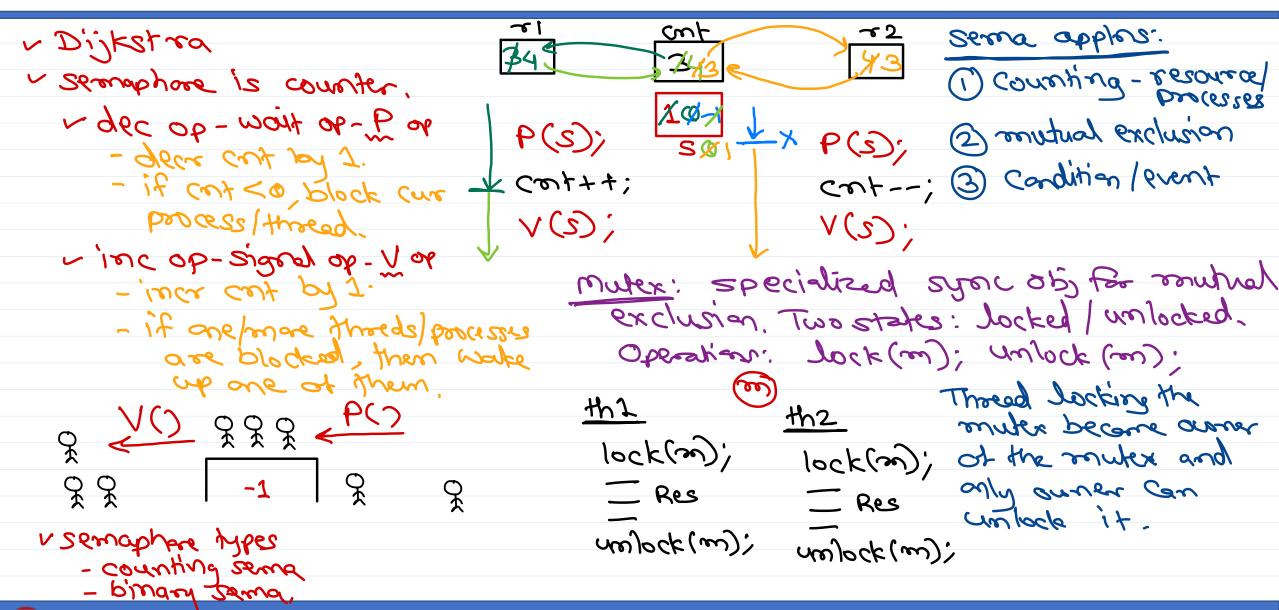


Race condition and Synchronization



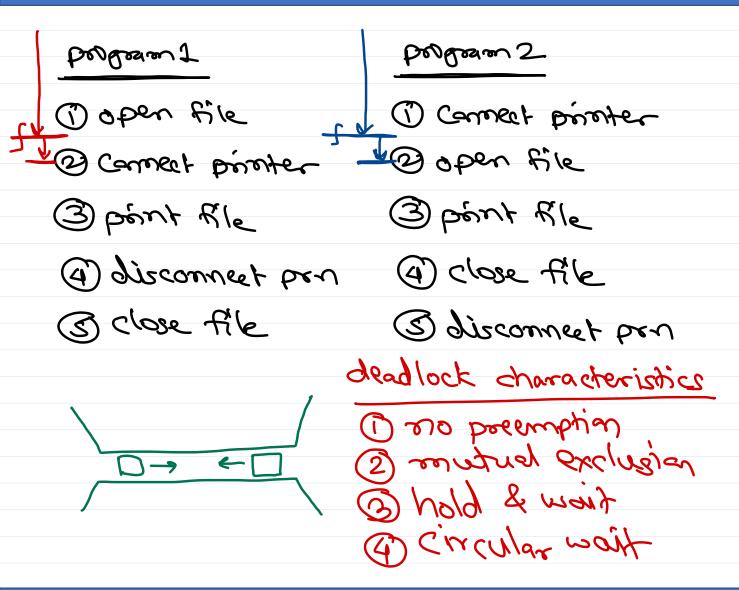


Semaphore vs Mutex





Deadlock







Thank you!

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