CSE 330: Operating Systems

Class: 24

Date: 11/15

Fall 2016

Note Title

1)18K II Application blochs DISK DRIVER Disk interface > set of registers block Direct Mem Acces

11 polled I/o write a block to disk (b#, addr) Zohile (busy); // wait load 6# > 6# register load addr -> addr Set R/W bit to W > while (not done); // wait for to complete Interrupt driven IlO. Solvier starts thronge up > blods -> an interrept ger wakes it up at end of an operation States 11 1 51

Stand down

write... (6#, addu) 5 P (diskseun) - g of processes wanty Set add, 6#, Wbit, Start fr Ilo > P (disk_int) - set to 0 V (disksem) {V(disk_int)} FCFS 310 scheduling

Disk schoduling s only for mechanical -> what order should waitry I/O processes be using the disk Centr

FCFS

-> head moves "randomly"

all over the disk

-> may have too much

head movement

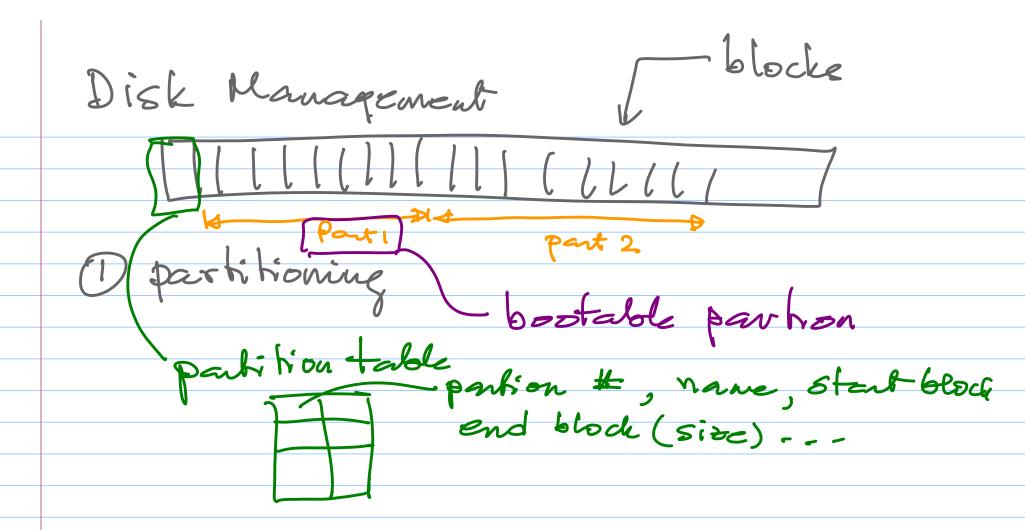
SSTF -> shortest seek time first -> low head movent, but stansation

+ ludes law load - disk access is FCFS

SCAN

SCAN -> LOOK C-LOOK C-SCAN La circular scan - edge to centre - verract - edge to center

How to do non FCFS? -P(disk sem) P(disk-int) V(disk_int) Vlousksem > FCFS due to sem_g. Ihe correct process



boot code 305 Kernel Woh - master boot record. find MBR find boot-code

fræ disk blochs partition > but weeker 2 1000 lots (contigous) blocks L) 0 = not Rec 1 = free

Swap Sweep partition sa swap (do -sa file (large) u partition -> full parliting 9) SPACE - s contigons aven in a partition