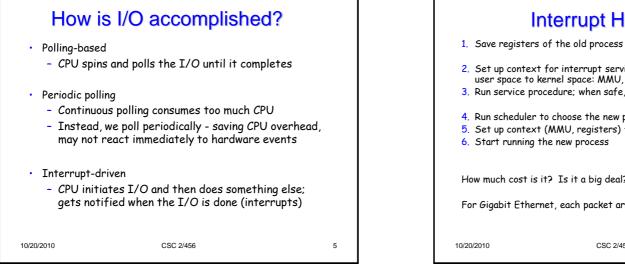
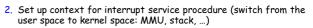


6







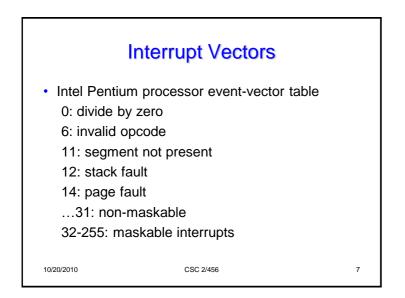
- 3. Run service procedure; when safe, re-enable interrupts
- 4. Run scheduler to choose the new process to run next
- 5. Set up context (MMU, registers) for process to run next
- 6. Start running the new process

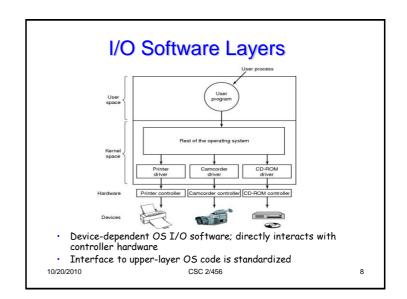
How much cost is it? Is it a big deal?

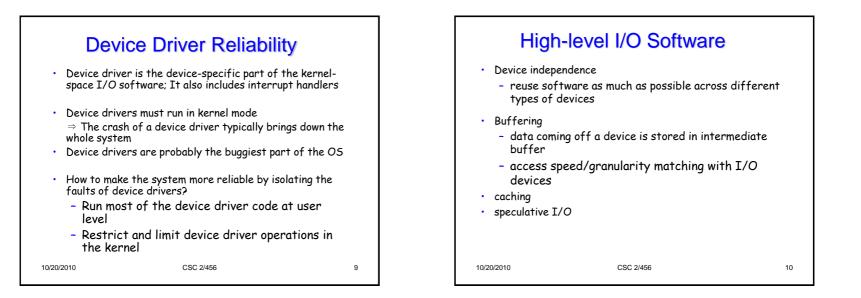
For Gigabit Ethernet, each packet arrives once every 12us.

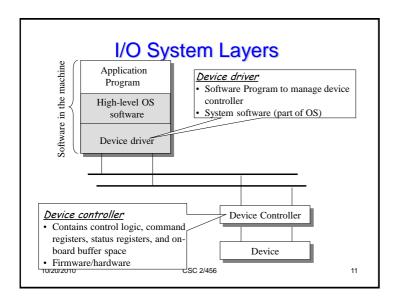
10/20/2010

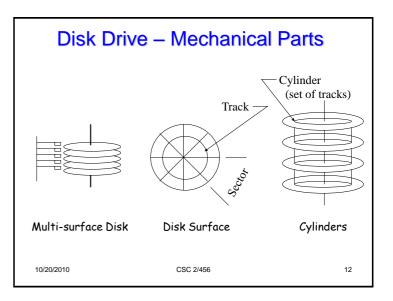
CSC 2/456



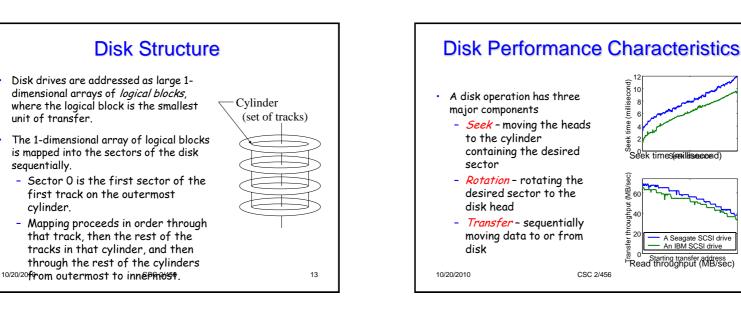


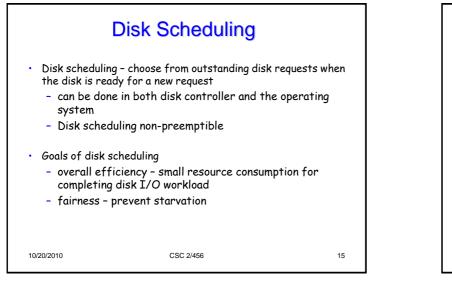


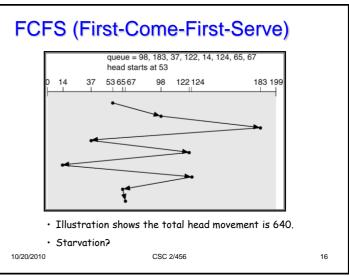


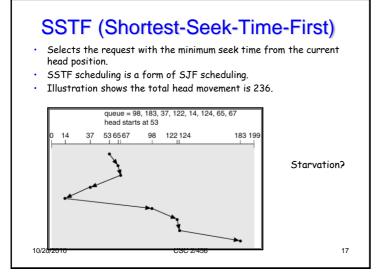


14



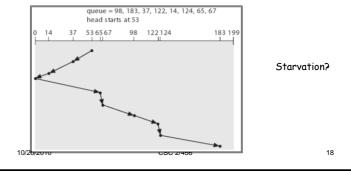






SCAN

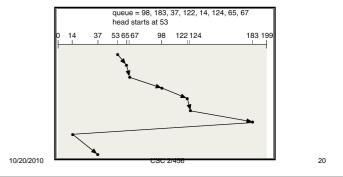
- The disk arm starts at one end of the disk, and moves toward the other end, servicing requests until it gets to the other end, where the head movement is reversed and servicing continues.
- Sometimes called the elevator algorithm.
- Illustration shows the total head movement is 208.

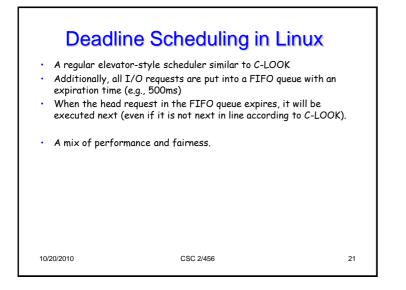


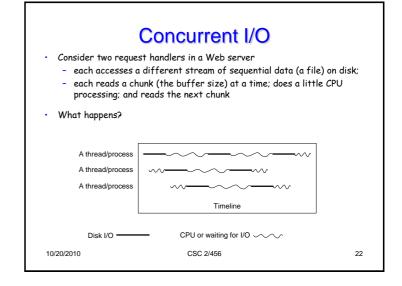
C-SCAN (Circular-SCAN) Provides a more uniform wait time than SCAN. • The head moves from one end of the disk to the other. servicing requests as it goes. When it reaches the other end, however, it immediately returns to the beginning of the disk, without servicing any requests on the return trip. queue = 98, 183, 37, 122, 14, 124, 65, 67 head starts at 53 53 65 67 122 124 183 199 37 98 Starvation? 10/20/2010 CSC 2/456 19

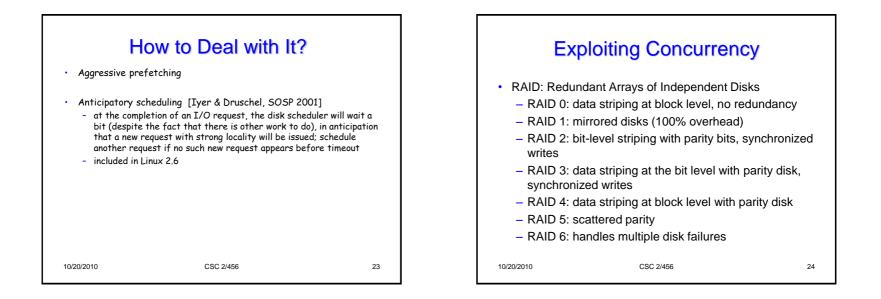
C-LOOK

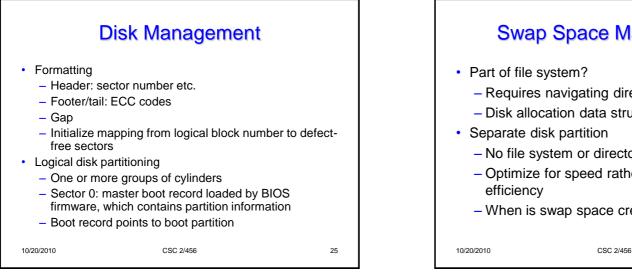
- Variation of C-SCAN
- Arm only goes as far as the last request in each direction, then reverses direction immediately, without first going all the way to the end of the disk.











Swap Space Management

- Requires navigating directory structure
- Disk allocation data structures
- Separate disk partition
 - No file system or directory structure
 - Optimize for speed rather than storage
 - When is swap space created?

26

