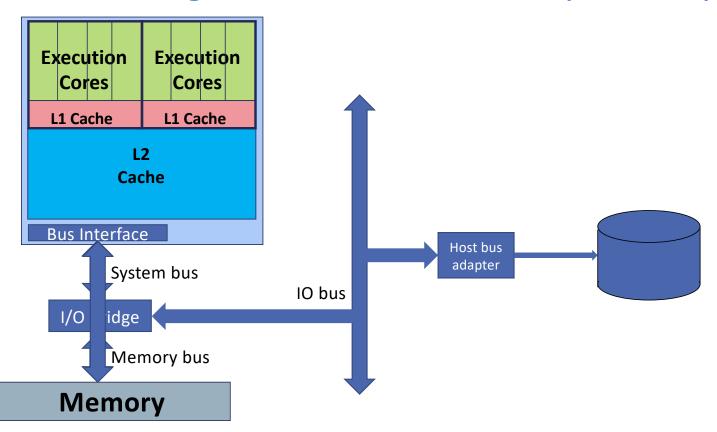
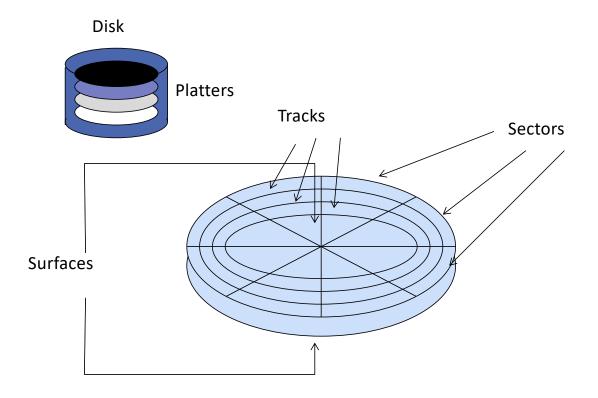
Today

- Learning Outcomes
 - Describe how a disk works
 - Given how disks work, identify the key design criteria that file systems might use to maximize performance of the disk system.
- Reading
 - 6.1.2, 6.1.3, 6.1.4

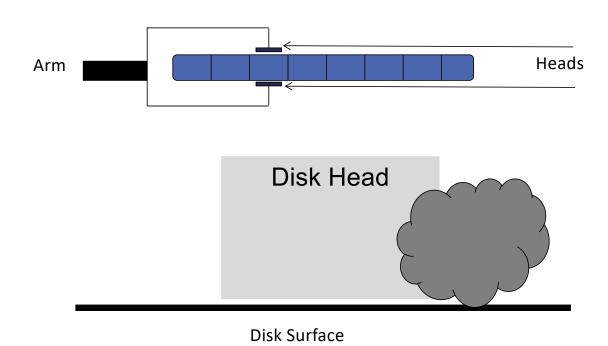
Extending our View of a Computer System



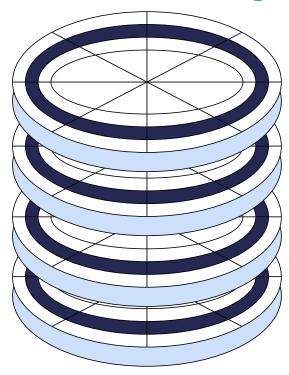
Modern Disk Drives



Disk Heads



Disk Sector Numbering



Disk Drive Performance

- Speed of a disk drive is a function of:
 - RPM (7200 10,000)
 - Size of the device (1.8" 3.5")
 - Density (bits per track; tracks per inch) 500-600Gbit/in²

