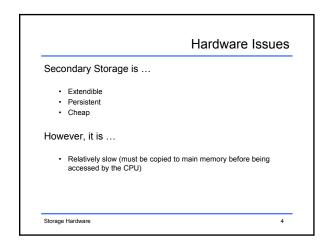
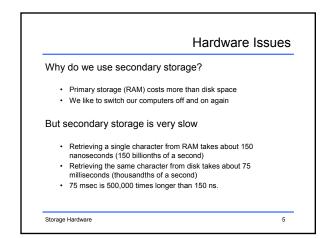
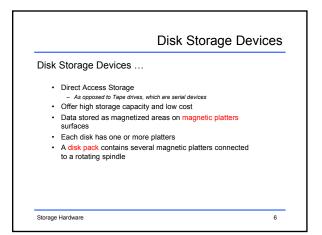
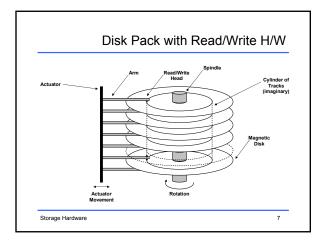


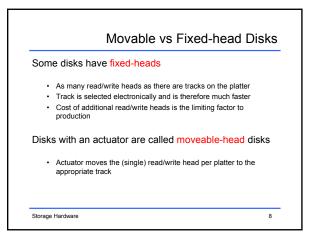
	Hardware Issues
Primary Storage is	
<ul><li>Limited</li><li>Volatile</li><li>Expensive</li></ul>	
However, it is also	
Fast (May be accessed directly f	from the CPU)
Storage Hardware	3

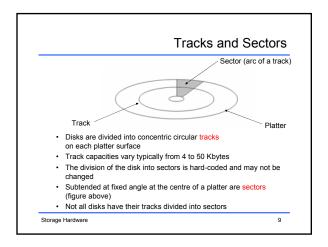


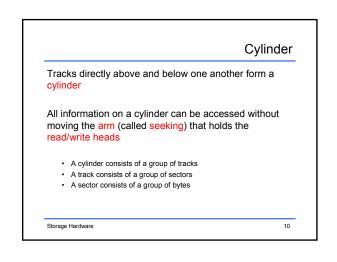


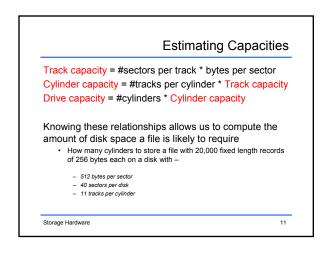


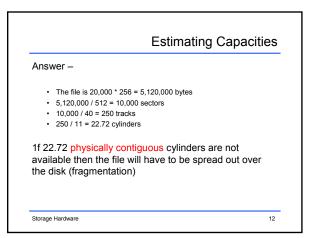


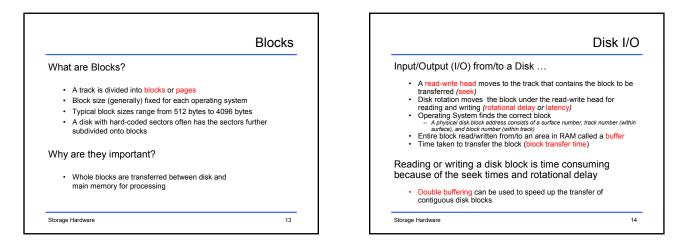


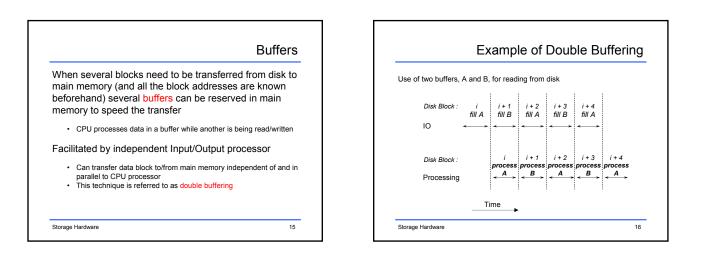


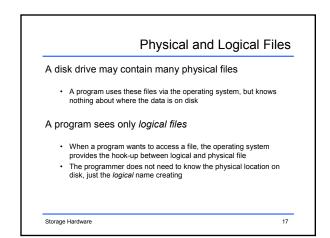


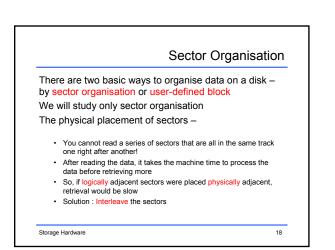












## Sector Organisation - Clusters

19

A cluster is a fixed number of contiguous sectors

All clusters on a disk are the same size
To view a file as a series of clusters and still maintain the sectored view, the file manager ties the logical sectors to the physical clusters using a file allocation table (FAT)

FAT -

- The FAT contains a linked list of all the clusters in a file, ordered according to the logical order of the sectors in a cluster
- With each entry in the FAT is an entry giving the physical location of the cluster

Storage Hardware

Review Compared to RAM disk accesses are slow, but cheap! Disks facilitate persistent storage of data Disks enable direct access Anatomy of a Disk Patters, tracks, cylinders, sectors, blocks Diskical components of a Disk Physical components of a Disk Physical components of a Disk Diskical components of a Disk Official components of a Disk Diskical components of a Diski