

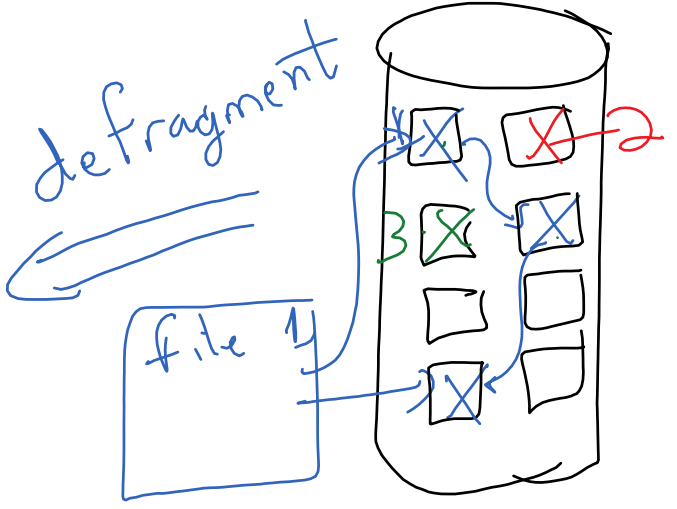
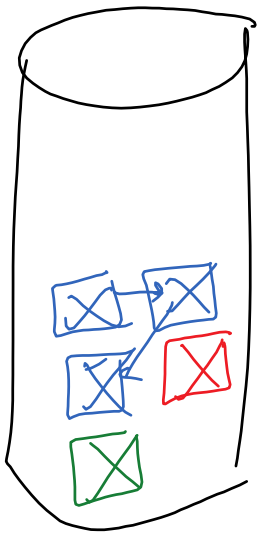
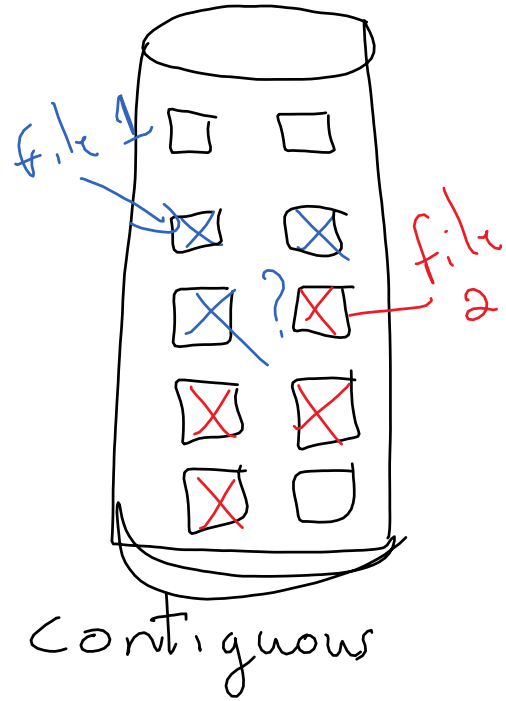
File Storage

file formats

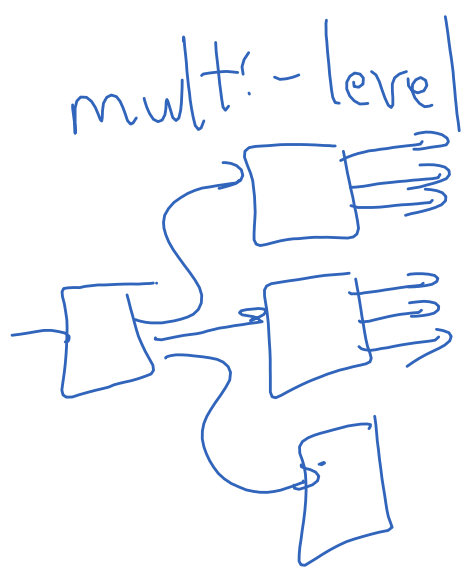
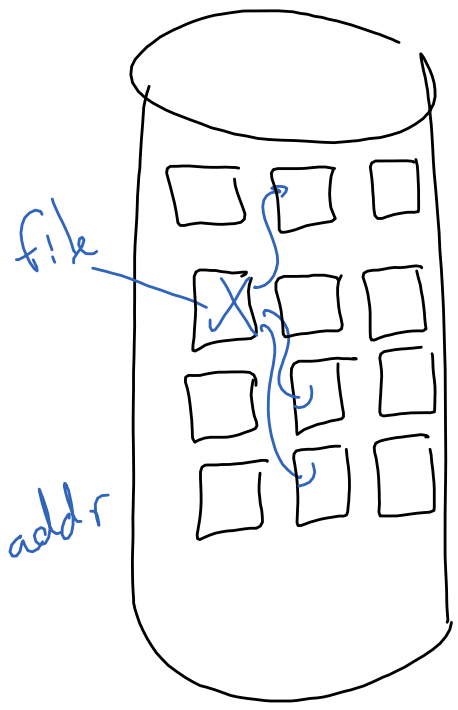
user/program view

File Allocation

- contiguous
- linked
- indexed



Index
locations,
disk addr



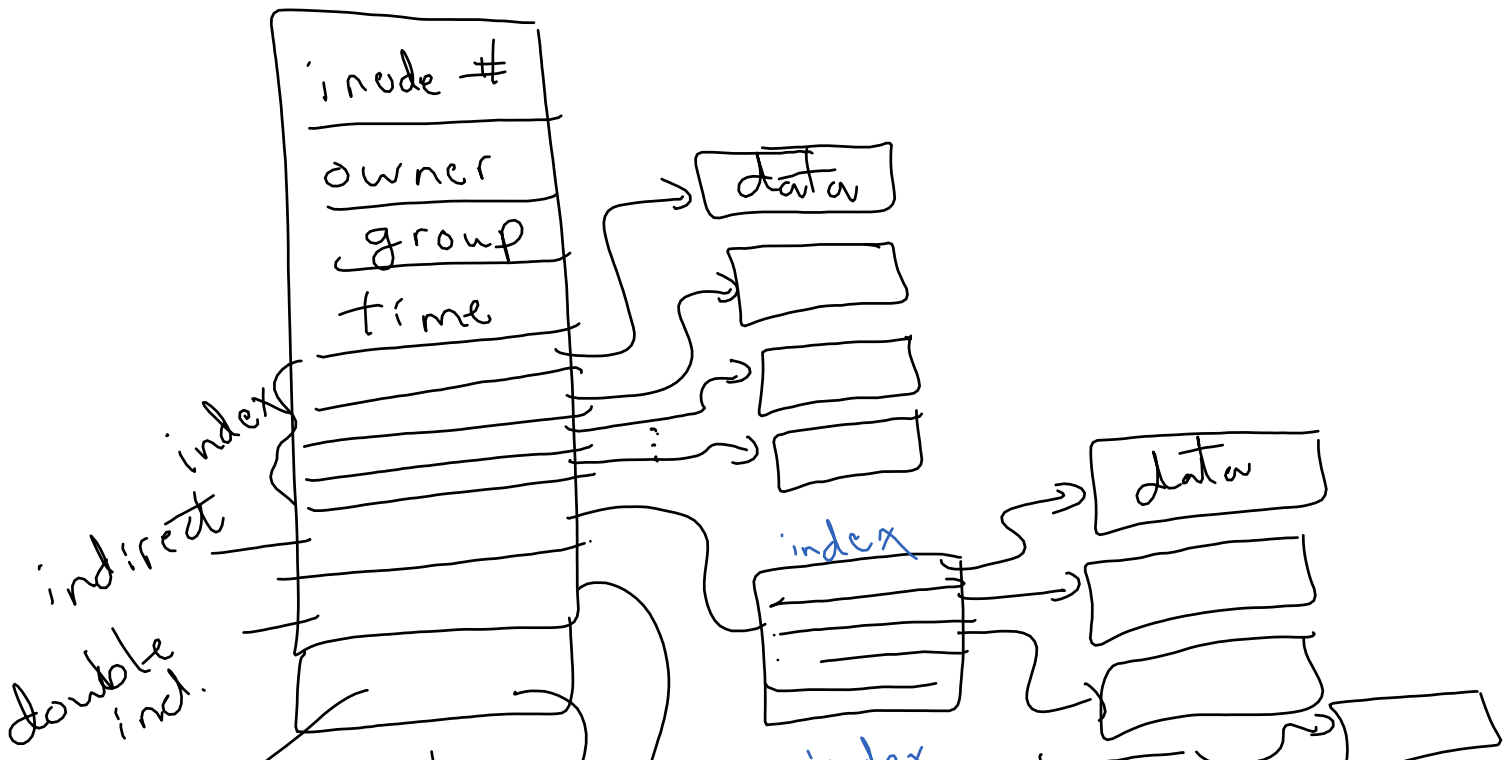
inode (Unix)

- file control block

"metadata"

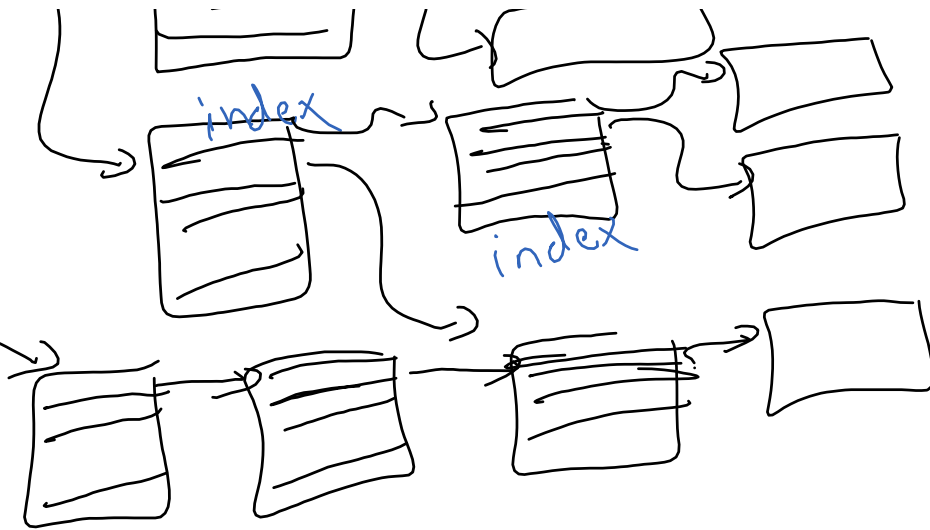
- creation/mod
- access

- id: integer (inode #)

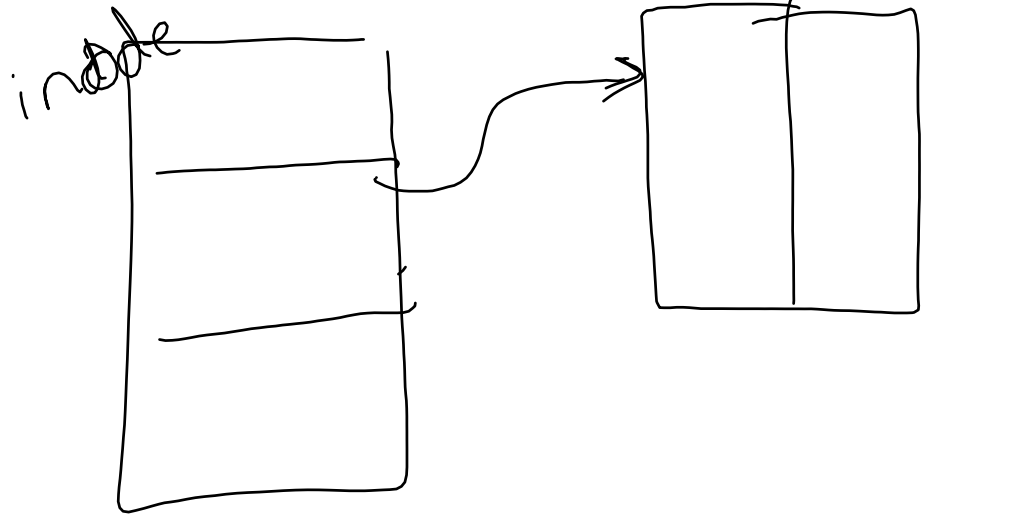


double
ind.

triple
indirect



Directories



Others

windows: FAT32 (indexed)
NTFS

NTFS logging (journaling)

- changes written to a log
- update storage (perform write)
- remove entries from log

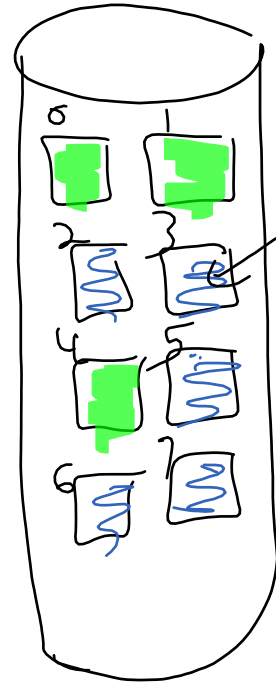
free space

bit map

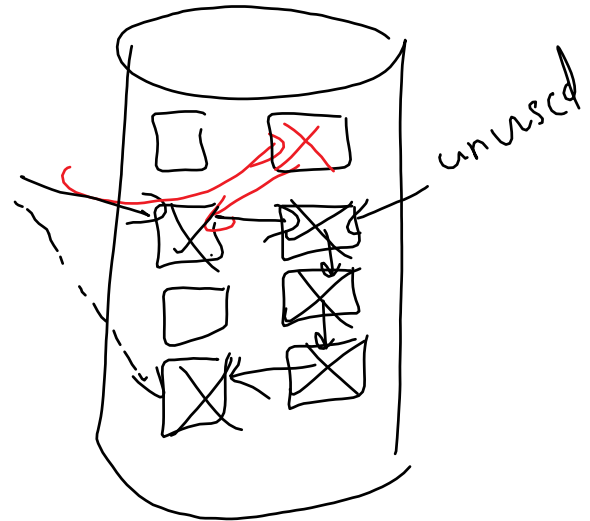
1 bit per block



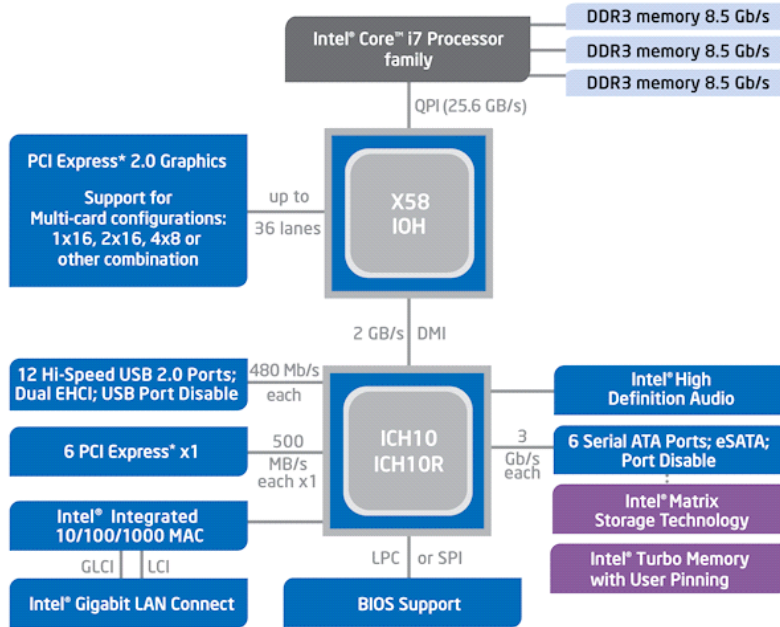
CPU - figure out value of a single bit



Linked free space



I/O



<http://www.pcstats.com/articleview.cfm?articleid=2582&page=2>

