## **CSE 330: Operating Systems**

Class: 25 Date: 11/17

Fall 2016

Note Title

- DISK DRIVES & Ilo.

- havdwave software interfaces

- drivers

- scheduling

3 PAD/WHITE disk blocks.

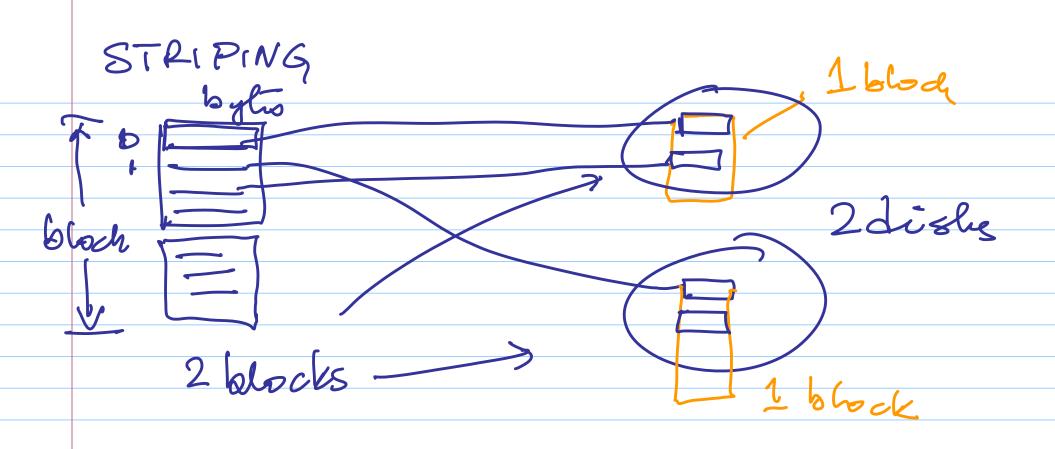
RAID

Redundant Arrays of

Inexpensive Disks

Independant

convolles Compula Standard disk interface



8 diste. ripur slower reliability

RAID-0

RAID-1 MIRRORING -) error detection 2 way mirror -> Same performance -> higher reliability

9 disks
1 byte 8600 -> RAID-2, 3, 4. -- all shiping t error detection Danity - I bit per 8 bits x 1 bit per 2 bilo ervor correcting 1 bloky Codes

File Systems

- user (human) & application
friendly introface to disks

File Concept Sequence of bytes contigous file is an unterpreted - mostly sequential.

## File Attribution

- Name
- ID (identity, a number, system uses it to identify the file)
  - location(s) -> block #5
  - 3ize
    - protection (access control)
    - timestamps (eveate, modify etc)

location where

36bods

Site (3x block size)? X -> last block contame partial data byth

| Symbol @ end of file.

Word text file, doc, PDF, IPEG executable WINDOWS NIX La fles are loglis has flo

File shuchuse

Same as file types

Shuchere is defined by
application

File Access -> Sequential. File pointer R/W pouli - direct acres x -> vandon acce > r/w pointer can

Divectories - His naures files. 0133 -> Single Level discetary

Tree directory - windows / living /05x

Acyalic Graph dir LINUX can contain same filo

MOUNTING one device Physical disks MOUNTING -> Remote mounting

Shaving

between

methodised

Computer