



CS4513 Distributed Computer Systems

Review




Review

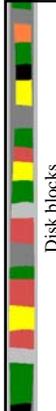
- What is a file descriptor?
 - What information must it contain?
 - What information might it contain?




Linked-List with Index

Physical Block	
0	
1	
2	null
3	null
4	7
5	
6	3
7	2

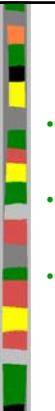
- How many files are there?
- How large are they?
- How many free blocks are there?

I-Node

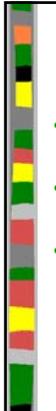
Disk blocks	
	i-node
	→
	62
	77
	null

- How many data blocks are there?
- If you added 3 more data blocks to the file, what would happen?

Review

- Directories:
 - In what way is a directory different than a file?
 - In what way is a directory similar to a file?
- Aliases:
 - Describe a hard-link
 - Describe a soft-link
- Free space management:
 - What are two common methods of keeping track of free blocks?

FloO

- What is an extent?
- What is a B+tree?
- What are they used for?



Flo00

- What is *journaling*? How is it used in modern file systems?
- How do large disks cause problems for some file systems? How are those problems addressed in modern file systems?

