Q29 Results for Mualla Argin

Score for this attempt: **5** out of 5

Submitted Apr 20 at 1:51pm

This attempt took 6 minutes.

Question 1   1 / 1 pts

Which of the following directly speak to efficiency requirements of file allocation? Mark all correct answers.

Correct!

☑ Direct access to data in the file

☐ Space utilization

Correct!

☑ Append/Insert/Delete file data operations

Correct!

☑ Sequential access of file data

Question 2   1 / 1 pts

What is the one main disadvantage of indexed file allocation?

◯ Random access

◯ External fragmentation

Correct!

🔘 Internal Fragmentation

Question 3   1 / 1 pts

In the below picture of linked index blocks, a file as large as 12KB can be represented assuming each data block is 1KB. If each index block was limited to containing 5 pointers as shown in the picture, how many levels of linked index blocks will be needed to represent a 4MB file?

Correct!

○ 256

○ 512

◉ 1024

○ 2048

Question 4   2 / 2 pts

Consider a UNIX file system with 12 direct pointers, 1 indirect pointer, 1 double-indirect pointer, and 1 triple-indirect pointer in the Inode. Assume that disk blocks are 8K bytes and that each pointer to a disk block requires 4 bytes. How many pointers can be accommodated in a disk block and what is the max file size if only the direct pointers could be utilized to hold file data?

Correct!

○ Number of pointers = 2K and Max File Size = 72KB

◉ Number of pointers = 2K and Max File Size = 96KB

○ Number of pointers = 1K and Max File Size = 72KB

○ Number of pointers = 1K and Max File Size = 36KB

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