

File-System Implementation

CHAPTER 12

Practice Exercises

- 12.1** Consider a file currently consisting of 100 blocks. Assume that the file-control block (and the index block, in the case of indexed allocation) is already in memory. Calculate how many disk I/O operations are required for contiguous, linked, and indexed (single-level) allocation strategies, if, for one block, the following conditions hold. In the contiguous-allocation case, assume that there is no room to grow at the beginning but there is room to grow at the end. Also assume that the block information to be added is stored in memory.
- The block is added at the beginning.
 - The block is added in the middle.
 - The block is added at the end.
 - The block is removed from the beginning.
 - The block is removed from the middle.
 - The block is removed from the end.

Answer:

The results are:

	Contiguous	Linked	Indexed
a.	201	1	1
b.	101	52	1
c.	1	3	1
d.	198	1	0
e.	98	52	0
f.	0	100	0

- 12.2** What problems could occur if a system allowed a file system to be mounted simultaneously at more than one location?

Answer:

Operating System Concepts Instructors Solution Manual

S Ashworth



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Instructors Solutions Manual Mark Hanna, 2001-05-17 Operating Systems Programming Stephen J. Hartley, 1995

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Accompany Management Information Systems: Conceptual Foundations, Structure, and Development Gordon Bitter Davis, Lynn Jensen, 1974 *Cti Higher Edn* Cengage Learning Australia, Thomson Course Technology, 2001-12

Operating Systems William Stallings, 2009 For a one-semester undergraduate course in operating systems for computer science, computer engineering, and electrical engineering majors. Winner of the 2009 Textbook Excellence Award from the Text and Academic Authors Association (TAA). Operating Systems: Internals and Design Principles is a comprehensive and unified introduction to operating systems. By using several innovative tools, Stallings makes it possible to understand critical core concepts that can be fundamentally challenging. The new edition includes the implementation of web-based animations.

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