File-System Implementation

Revaiew Questions

Section 12.1

12.1   True or False? Disk blocks are made up of one or more sectors.

12.2   What is the name of the standard Linux file system?

12.3   What is the UNIX term for a file control block?

Section 12.2

12.4   True or False? UNIX treats a directory exactly the same as a file.

12.5   What does the acronym VFS refer to?

Section 12.3

12.6   What are the two general approaches for implementing a directory?

Section 12.4

12.7   Provide at least two different approaches for allocating disk blocks to files.

12.8   (Section 12.4) True or False? The UNIX inode is an example of linked allocation.

Section 12.5

12.9   What would the bit vector appear as if blocks 0, 3, 4, and 6 were free?

Section 12.6

12.10   What two forms of I/O are stored in a unified buffer cache?

Section 12.7

12.11   What is the name of the consistency checker program for UNIX systems?

12.12   True or False? If a system crashes, all transactions in the log file were not completed to the file system.

Section 12.8

12.13   What are the two protocols associated with NFS?

Section 12.9

12.14   What does the acronym WAFL stand for?