
Review – Quiz #1

Question 1

Operating System is a program that manages a computer's hardware. It also provides a basis for application programs and acts as an intermediary between the computer user and the computer hardware.

Question 2

Multiprogrammed systems provide an environment in which the various system resources (for example, CPU, memory, and peripheral devices) are utilized effectively, but they do not provide for user interaction with the computer system.

Question 3

A time-shared operating system switches rapidly from one user to the next, each user is given the impression that the entire computer system is dedicated to his use, even though it is being shared among many users.

Question 4

Virtual Memory abstracts main memory into a large, uniform array of storage, separating logical memory as viewed by the user from physical memory, which enables users to run programs that are larger than actual physical memory.

Question 5

Modern operating systems are **interrupt** driven. If there are no processes to execute, no I/O devices to service, and no users to whom to respond, an operating system will sit quietly, waiting for something to happen.

Question 6

In order to ensure the proper execution of the operating system, we must be able to distinguish between the execution of operating-system code and user defined code. So we need two separate modes of operation: **user mode and kernel mode**.

Question 7

Timer can be used to prevent a user program from getting stuck in an infinite loop or to fail to call system services and never return control to the operating system.

Question 8

Which of the following would lead you to believe that a given system is an SMP-type system? **Each processor performs all tasks within the operating system.**

Question 9

What are some other terms for kernel mode? **All of the above (supervisor mode, system mode, privileged mode)**

Question 10

Which of the following statements concerning open source operating systems is true?

Source code is freely available.