I/O Systems

Revaiew Questions

Section 12.1

12.1 What are the two conflicting trends of I/O devices?

Section 12.2

12.2 What is a controller?

12.3 True or False? Most CPUs allow some interrupts to be ignored so that a critical instruction cannot be interrupted.

Section 12.3

12.4 True or False? A given device may require different drivers for different operating systems.

12.5 What is an alternative to a nonblocking system call?

Section 12.4

12.6 List at least three different services provided by the kernel I/O subsystem.

Section 12.5

12.7 True or False? The lifecycle of an I/O request does not require many CPU cycles.

Section 12.6

12.8 What operating system is the STREAMS mechanism designed for?

Section 12.7

12.9 True or False? I/O operations do not have a significant impact on performance.