

Synchronization Examples



Review Questions

Section 7.1

- 7.1 What are the names of the two processes associated with the bounded-buffer problem?
- 7.2 How many writers may concurrently share the database with the readers-writers problem?
- 7.3 What is the problem if all philosophers simultaneously pick up their left fork?

Section 7.2

- 7.4 What are the two states of a Windows dispatcher object?
- 7.5 What is available in Linux for updating an integer variable without having to use locks?
- 7.6 True or False? Linux uses spinlocks for both single and multiple processor systems.
- 7.7 What are the Pthreads operations for locking an unlocking a mutex lock?

Section 7.5

- 7.8 Provide at least one alternative to mutex locks, semaphores, reader-writer locks, and monitors that provide support for concurrent programming.

