ITBU 373, Operating Systems Homework 21

Chapter 27, Operating Systems, Three Easy Pieces

Readings

Read chapter 27 in the Operating Systems, Three Easy Pieces book.

Discussion Questions

Answer the discussion questions in writing.

- 1. What are the arguments to pthread_create()? What is the return value? What does this function do?
- 2. What are the arguments to pthread_attr_init()? What is the return value? What does this function do?
- 3. What might be some of the problems when a multi-threaded program returns indeterminate results? There are at least two specific ones mentioned in this chapter. Please be specific in your answer.
- 4. What are the arguments to pthread_mutex_lock()? What is the return value? What does this function do?
- 5. What are the arguments to pthread_mutex_trylock()? What is the return value? What does this function do?
- 6. Give a simple definition of condition variable? Why do we have condition variables?
- 7. When using gcc to compile a multi-threaded program, what flag do you need to include on the command line? What header does your program need to #include?