
Solutions Manual

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PART I

LECTURE SLIDES

CHAPTER 9

MONITORS AND CONDITION VARIABLES

WHAT'S WRONG WITH *semaphors*?

- are shared global variables
- no linguistic connection between semaphores and data they control
- can be accessed from anywhere
- dual purposed (mutex and sched constraints)
- no guarantee of proper usage

Solution: use a higher level construct

MONITORS

A monitor is similar to a class that ties data/operations and synchronization together.

They differ from classes by guaranteeing mutual exclusion and requiring all data to be private.

- Definition.**
1. (From Wikipedia) A *monitor* is a synchronization construct that allows threads to have both mutual exclusion and the ability to wait (block) for a certain condition to become true.
 2. (From slides) A *monitor* is a defines a *lock* and zero or more *condition variables* for managing concurrent access to shared data.

PART II

NOTES FROM TEXT

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