

Operating System

Final Exam Question and Answer Keys

Q 1. Discuss the following four solutions for Mutual Exclusion:

- a) Lock Variables (3 points)
- b) Strict Alternation (3 points)
- c) Peterson's Solution (3 points)
- d) Semaphores (3 points)

Q 2. Consider Figure 1 mentioning the Strict Alternation solution for Mutual Exclusion with Busy Waiting. Does this solution work when the two processes are running on a shared-memory multiprocessor, i.e. two CPUs sharing a common memory? (2 points)

<pre>while (TRUE) { while (turn != 0) /* loop */; critical_region(); turn = 1; noncritical_region(); }</pre>	<pre>while (TRUE) { while (turn != 1) /* loop */; critical_region(); turn = 0; noncritical_region(); }</pre>
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Figure 1. (a) Process 0 (b) Process 1

Q 3. Discuss the Producer-Consumer Problem. (3 points)

Q 4. Differentiate between I/O bound and CPU bound processes. (3 points)

Operating System Exams

SJ Ball



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