Chapter 5 - Part 1

Process synchronization is only needed when multiple processes share data

◉ True

○ False

Clear selection

Process synchronization is not an issue on "single-core" systems

○ True (since only one process can run at a time)

◉ False (since context switches can still interleave process execution)

Clear selection

Solution to the critical section problem only allows a single process in the critical section at a time, even on multi-core systems

◉ True

○ False

Clear selection

With non-preemptive kernels, processes will typically spend more time executing in kernel mode

🔘 True

⚪ False

Clear selection

In Peterson's solution, if Process-0 is already executing in its critical section, then Process-1 that wants to enter the critical section will wait in the "while" loop because:

☑ flag[0] is true

☐ flag[1] is true

☑ turn = 0

☐ turn = 1

Peterson's solution to the critical section problem satisfies the criteria of "bounded waiting"

🔘 True

⚪ False

Clear selection

What is the value returned by "TestAndSet(mutex)" if mutex=FALSE?

○ true

◉ false

Clear selection

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