

Name:

CSE 30341: Quiz 2 (5 minutes)

Individual effort. Closed books, notes, etc.

1. True or False: Critical sections are a concern in:
- a. a single threaded process running on a multi-processor machine.

Answer:

- b. a multi-threaded processes in a single-processor machine.

Answer:

2. Consider the following (potentially buggy) code segment:

| | |
|---------------------------|----------|
| Thread1 | Thread2 |
| { | { |
| // Begin critical section | count--; |
| wait(&lock); | } |
| count+=4; | |
| // End critical section | |
| signal(&lock); | |
| } | |

When executing this code segment, Linux kernel 2.6.14 will

- a) Give a "Segmentation fault" in Thread2 and exit the program
- b) Give a "Illegal data access" in Thread2" and continue running the program
- c) Prints "Critical section violation" in the console, but continues to make progress
- d) None of the above

Answer: