



ITCS-5145-091-Spring 2016-Parallel Computing

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You can preview this quiz, but if this were a real attempt, you would be blocked because:

This quiz is not currently available

Question 1

Not yet answered

Marked out of 1

Flag question

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Suppose x and y are shared variables and two threads both execute the code sequence:

```
lock(L1);
lock(L2);
temp = x + y;
unlock(L2);
unlock(L1);
```

Will deadlock occur?

Select one:

- a. None of the other answers
- b. Sometimes
- c. Yes
- d. No

Question 2

Not yet answered

Marked out of 1

Flag question

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Suppose x is shared variable initialized to 0 and two threads both execute the statement $x++$; What are the possible values for x afterwards taking into account all possible thread interleaving?

Select one:

- a. 3
- b. 1
- c. 2
- d. 1 and 2
- e. None of the other answers

Question 3

Not yet answered

Marked out of 1

Flag question

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Suppose x is shared variable initialized to 0 and two threads both execute the statement $x++$; both within a critical section protected by a lock. What are the possible values for x afterwards?

Select one:

- a. 3
- b. 1
- c. None of the other answers
- d. 2
- e. 1 and 2

Question 4

Not yet answered

Marked out of 1

Flag question

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What is meant by false sharing as applied to cache memory?

Select one:

- a. When variables are declared as shared but are not shared.
- b. When a block (line) in a cache is required by different processors but not the same bytes in the block.
- c. When two processors shared the main memory but have different caches
- d. When a local variable has an alias.
- e. None of the other answers

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 Moodle Docs for this page

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