

Quiz 3

Which of the following benefits go to multithreaded programming?

1. responsiveness
2. resource sharing
3. economy
4. scalability
- 5. all of the rest**

If a web server runs as a single-threaded process, only one client can be serviced at a time. This could result in potentially enormous wait times for a busy server. True or False?

- 1. True**
2. False

Which of the following items are shared across multiple threads belonging to the same process?

- 1. code, data, files**
2. registers
3. stack
4. all of the rest

Thread pool has overhead and thus is usually slower to service requests compared with creating a new thread each time.

1. True
- 2. False**

Which of the following refers to the capability to allow multiple tasks make progress on a single processor system?

- 1. concurrency**
2. parallelism
3. data parallelism
4. task parallelism

Which of the following is true regarding differences between threads, processes and programs:

1. A program can become one or more processes.
2. A process can contain one or more threads.
3. Threads are more vulnerable to problems caused by other threads in the same process
- 4. All of the rest.**

The _____ model multiplexes many user-level threads to a smaller or equal number of kernel threads.

- 1. many-to-many**
2. two-level
3. one-to-one
4. many-to-one

A deferred thread cancellation means that the target thread has an opportunity to decide when is a good time to exit.

- 1. True**
2. False

The difference between parallelism and concurrency is that a parallel system can perform more than one task simultaneously while a concurrent system supports more than one task by allowing multiple tasks to make progress.

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1. **True**
2. False

Which are included in the context of a thread?

1. register set
2. stacks
3. private storage area
4. **all of the rest**