



ITCS-5145-091-Spring 2016-Parallel Computing

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Question 1

Not yet answered

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What is the name of the MPI routine that combines a gather operation with an arithmetic or logical operation called?

Select one:

- a. MPI_Gather_Op()
- b. MPI_Reduce()
- c. MPI_Scatter()
- d. MPI_Gather()
- e. MPI_Combine()

Question 2

Not yet answered

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What does the MPI routine MPI_Barrier() do?

Select one:

- a. Will cause processes after calling MPI_Barrier() to wait for all processes within the specific communicator to call the routine. Then all processes are released and are allowed to continue.
- b. Will cause processes to wait for all processes within the specific communicator to call the routine. Then all processes send a message to the master process and continue.
- c. Waits for all messages to be sent and received.
- d. Makes a process execute slower to allow debugging
- e. Waits for a specified amount of time.

Question 3

Not yet answered

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Why should a barrier be implemented as reentrant code?

Select one:

- a. Because a process might leave a barrier before other processes leave the barrier.
- b. None of the other answers
- c. Because the process might enter a barrier for a second time again before other processes have left their barrier routines for the first time.
- d. To measure the time of executing a barrier.

Question 4

Not yet answered

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What is the difference between an MPI blocking send routine and an MPI non-blocking send routine?

Select one:

- a. The non-blocking routine returns immediately whereas the blocking routine returns after the local actions have been completed.
- b. Nothing
- c. The non-blocking routine returns immediately whereas the blocking routine returns after the message has been received at the destination.
- d. The non-blocking routine does not stop the programmer using variables associated with the message transfer whereas the blocking routine will stop the programmer doing so.
- e. The blocking routine will synchronize processes.

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