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70-691

Microsoft
TS- Windows HPC Server 2008 Developing

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QUESTION: 1
You plan to develop a parallel application by using Windows HPC Server 2008. You plan to use a method to control the calculations performed by each individual process. You need to ensure that different commands can be sent to each process. Which function should you use?

A. MPI_Send
B. MPI_Bcast
C. MPI_Gather
D. MPI_Reduce

Answer: A

QUESTION: 2
You plan to develop a parallel application by using Windows HPC Server 2008. You need to implement a method that will send different data to each process in a communicator by using a single call. Which function should you use?

A. MPI_Send
B. MPI_Gather
C. MPI_Reduce
D. MPI_Scatter

Answer: D

QUESTION: 3
You plan to develop a parallel application by using Windows HPC Server 2008. The application performs the following tasks: •Performs multistep calculations •Processes data by using the same code segment that runs on each compute node You need to ensure that each compute process executes the same step simultaneously. Which type of communication should you use?

A. Buffered
B. Collective
C. Non-blocking
D. Point-to-point

Answer: B

QUESTION: 4
You plan to develop a parallel application by using Windows HPC Server 2008. You need to ensure that when the application starts, a parameter value is communicated to each process in the cluster by using a single call. Which function should you use?

A. MPI_Send
B. MPI_Bcast
C. MPI_Gather
D. MPI_Reduce

Answer: B

QUESTION: 5
You plan to develop a single program multiple data (SPMD) application by using Windows HPC Server 2008. You use multiple processes to perform intermediate calculations and to provide the results as a single number. You need to ensure that the intermediate results are collected and added together by using a single MPI function. Which function should you use?

A. MPI_Send
B. MPI_Bcast
C. MPI_Gather
D. MPI_Reduce

Answer: D

QUESTION: 6
You develop a parallel application that will be deployed on a Windows HPC Server 2008 cluster. You write the following code segment. (Line numbers are included for reference only.)
01 int rank
02 MPI_Comm_rank(MPI_COMM_WORLD, &rank)
03 // declaration of variable hostName
04 // code to execute
05
06 std::cout << "hostname of rank " << rank
07 std::cout << ": " << hostName << "\n"

You need to ensure that a variable named hostName contains the name of the cluster node that the code runs on. Which code segment should you add at line 05?

A. char *hostName = getenv("MPI_HOSTNAME")
B. char hostName[MPI_MAX_PROCESSOR_NAME] int resultlen
MPI_Get_processor_name(&resultlen, hostName)
C. char hostName[MPI_MAX_NAME_STRING] int resultlen
MPI_Comm_get_name(MPI_COMM_WORLD, hostName, &resultlen)
D. char hostName[256] int resultlen = sizeof(hostName) if (rank == 0) { gethostname(hostName, resultlen) }

Answer: B

QUESTION: 7
You develop a parallel application that will be deployed on a Windows HPC Server 2008 cluster. You write the following code segment. (Line numbers are included for reference only.)
01 MPI_Init(&argc, &argv)
02
03 {
04 // program part for rank 0
05 06 }
06 else
07 {
08 // program part for all other ranks
09 } 10 MPI_Finalize()
You need to ensure that the code in the rank 0 section only executes on the process that has a rank of 0. Which code segment should you insert at line 02?

A. int size MPI_Comm_size(MPI_COMM_WORLD, &size) if (size > 0)
B. int size MPI_Comm_size(MPI_COMM_WORLD, &size) if (size == 0)
C. int rank MPI_Comm_rank(MPI_COMM_WORLD, &rank)if (rank == 0)
D. char hostName[MPI_MAX_PROCESSOR_NAME] int resultlen
MPI_Get_processor_name(hostName, &resultlen) char masterName[] = "rank0" if (strcmp(masterName, hostName) != 0)

Answer: C

QUESTION: 8

You develop a parallel application that will be deployed on a Windows HPC Server 2008 cluster. The application uses Point-to-point communication. The process that has a rank 0 sends an array of integer values to the rank 1 process by using the following code segment. (Line numbers are included for reference only.) 01 int values[5] 02 MPI_Send(values, 5, MPI_INT, 1, 42, 03 MPI_COMM_WORLD) You need to ensure that each receiving process is able to correctly receive the values in the most efficient manner possible. Which code segment should you use?

A. int values[5] int buffer[5] MPI_Reduce(buffer, values, 5, MPI_INT, MPI_SUM, 1, MPI_COMM_WORLD)
B. int values[5] MPI_Status status MPI_Recv(values, 5, MPI_INT, 0, 42, MPI_COMM_WORLD, &status)
C. int value MPI_Status status MPI_Recv(&value, 1, MPI_INT, 0, 42, MPI_COMM_WORLD, &status)
D. int values[5] MPI_Status status MPI_Recv(values, sizeof(int), MPI_INT, 0, 42, MPI_COMM_WORLD, &status)

Answer: B

QUESTION: 9
You develop a parallel application that will be deployed on a Windows HPC Server 2008 cluster. You write the following code segment that computes an approximation to Pi. (Line numbers are included for reference only.)
01 static int totDarts = 10000
02 int numDarts = 0
03
04 MPI_Comm_size(MPI_COMM_WORLD, &commSize)
05 MPI_Comm_rank(MPI_COMM_WORLD, &commRank)
06
07 for(i = 0 i < totDarts i++) {
08 x = 2 * (randomNr() 0.5)
09 y = 2 * (randomNr() 0.5)
10 if (x*x + y*y <= 1.0)
11 ++numDarts
12 }
13
14 if(commRank == 0) {
15 pi = 4 * total/(commSize * totDarts)
16 printf("Pi = %d\n", pi)
17 } You need to ensure that the total number of numDarts is only available on the process that has a rank 0. Which code segment should you insert at line 13?

A. MPI_Reduce(&numDarts, &total, 1, MPI_INT, MPI_SUM, 0, MPI_COMM_WORLD)
B. MPI_Allreduce(&total, &numDarts, 1, MPI_INT, MPI_SUM, MPI_COMM_WORLD)
C. MPI_Gather(&numDarts, 1, MPI_INT, &total, 1, MPI_INT, 0, MPI_COMM_WORLD)
D. MPI_Allgather(&numDarts, 1, MPI_INT, &total, 1, MPI_INT, MPI_COMM_WORLD)

Answer: A

QUESTION: 10
You plan to develop a Microsoft Message Passing Interface (MPI) application by using Microsoft Visual Studio. You have installed the Microsoft HPC Pack 2008 SDK at C:\Program Files\Microsoft HPC Pack 2008 SDK. You create a new console application. You need to ensure that the application compiles for a 64bit architecture. Which two tasks should you perform? (Each correct answer presents part of the solution. Choose two.)

A. Set the Import Library property to msmpi.lib.
B. Set the Additional Dependencies property to msmpi.lib.
C. Set the Additional Library Directories property to C:\Program Files\Microsoft HPC Pack 2008 SDK\lib\amd64.
D. Set the Additional Manifest Dependencies property to C:\Program Files\Microsoft HPC Pack 2008 SDK\lib\amd64.

Answer: B, C

QUESTION: 11
You develop a parallel application by using Microsoft Visual Studio 2008. You have installed the Microsoft HPC Pack 2008 SDK at C:\Program Files\Microsoft HPC Pack 2008 SDK. You create a new console application based on Microsoft Message Passing Interface (MPI). You set the Debugger to Launch property to MPI Cluster Debugger. You need to ensure that five processes are launched when the application is run in debug mode in Visual Studio 2008. Which two tasks should you perform? (Each correct answer presents part of the solution. Choose two.)

A. Set the MPIRun Arguments property to n 5.
B. Set the Application Arguments property to n 5.
C. Set the MPIRun Working Directory property to C:\Program Files\Microsoft HPC Pack 2008 SDK\bin.
D. Set the MPIRun Command property to C:\Program Files\Microsoft HPC Pack 2008 SDK\bin\MPIExec.

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