**Blue Waters Petascale Semester Curriculum v1.0**

**Unit 5: MPI**

**Lesson 4: Distributed Memory Concepts: Distributed Multiprocessing**

**Sample Assessment**

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*Browse and search the full curriculum at*[*http://shodor.org/petascale/materials/semester-curriculum*](http://shodor.org/petascale/materials/semester-curriculum)

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*We want to hear from you! Please let us know your experiences using this material by sending email to* [*petascale@shodor.org*](mailto:petascale@shodor.org)

1. Implement the distributed memory concept of MPI for calculating the area under the curve.
2. How the scaling of the program compares to the single core.