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

**Unit 5: MPI**

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

**Instructor Guide**

*Developed by Widodo Samyono for the Shodor Education Foundation, Inc.*



*Except where otherwise noted, this work by The Shodor Education Foundation, Inc. is licensed under CC BY-NC 4.0. To view a copy of this license, visit*[*https://creativecommons.org/licenses/by-nc/4.0*](https://creativecommons.org/licenses/by-nc/4.0)

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

*We welcome your improvements! You can submit your proposed changes to this material and the rest of the curriculum in our GitHub repository at*[*https://github.com/shodor-education/petascale-semester-curriculum*](https://github.com/shodor-education/petascale-semester-curriculum)

*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. Prepare the students with the shared and distributed memory concepts.
2. Compare and contrast the methods in the class discussion.

**Common Pitfalls for Students and Instructors**

* By not knowing the background of the students the instructor could give too hard problems or assignments that could fail them. So, the instructor has to make sure that the students can demonstrate their understanding about the concepts of distributed memory and MPI.