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

**Unit 5: MPI**

**Lesson 10: Hello World**

**Instructor Guide**

*Developed by Michael N. Groves for the Shodor Education Foundation, Inc.*

* Instructors are encouraged to give a brief overview of MPI from Unit 5 Lessons 1 and 9 as well as distributed computing.
* The slides are meant to walk the students through querying how the system keeps track of each process through ranks. Discuss that first and then have the students write and run the code. Then work on the variations outlined in the Student Assessments.

**Common Pitfalls for Students and Instructors**

* Students may not be familiar with Python. The code is written such that it should be straightforward to get started.



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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)

*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)