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

**Unit 5: MPI**

**Lesson 1: When Should You Use MPI?**

**References / Further Reading**

*Developed by Colleen Heinemann for the Shodor Education Foundation, Inc.*

Introduction to MPI

<https://www.mcs.anl.gov/research/projects/mpi/tutorial/mpiintro/ppframe.htm>

Message Passing Interface (MPI)

<https://computing.llnl.gov/tutorials/mpi/>

When Not to Use MPI

<https://stackoverflow.com/questions/7522058/when-not-to-use-mpi>

MPI for Dummies

<https://htor.inf.ethz.ch/teaching/mpi_tutorials/ppopp13/2013-02-24-ppopp-mpi-basic.pdf>



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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)