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

**Unit 6: Hybrid MPI + OpenMP**

**Lesson 1: Introduction to Hybrid**

**Sample Assessment**

*Developed by Roman Voronov for the Shodor Education Foundation, Inc.*

1. What is *Distributed* Memory Computing?
2. What is *Shared* Memory Computing?
3. What are the advantages and disadvantages of *Distributed* Memory Computing?
4. What are the advantages and disadvantages of *Shared* Memory Computing?
5. Why would it make sense for writing Hybrid MPI/OpenMP code?
6. What are some potential pitfalls of going Hybrid?
7. What are some strategies for writing Hybrid code?



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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)