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

**Unit 1: Computation Across the Curriculum**

**Sample Assessment**

*Developed for the Shodor Education Foundation, Inc.*

1. Describe the differences between single-core and multicore programming.
2. Describe Parallel programming and performance modeling basics
3. Describe program running and job submission.
4. Name two areas of application where HPC is useful.
5. What was the power requirement for the BW System?



*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>*

*Browse and search the full collection 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 collection 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)