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

**Unit 4: OpenMP**

**Lesson 6: When Should You Use OpenMP?**

**Sample Assessment**

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*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. Provide an explanation of how you would decide whether or not shared memory parallelism and OpenMP might be useful in parallelizing an application.

2. Is shared memory parallelism and OpenMP always useful when parallelizing an application? Is it possible that some other type of parallelism might be needed instead? Justify your answer.

3. After participating in the exercises, what do you think are some pitfalls or complications of using shared memory parallelism and OpenMP?