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

**Unit 3: Using a Cluster**

**Lesson 6: Running Code on a Cluster 2**

**Sample Assessment**

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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)

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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. What are some of the common job schedulers used on supercomputers and cluster computers?
2. What kind of file systems are used on supercomputers for running jobs?
3. Understanding how schedulers schedule different jobs based on the resources requirements is very helpful for running big applications on supercomputers. Explain in detail how a scheduler schedules and runs jobs on supercomputers? What could we do to limit the queue wait time, and maximise resource usage?