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

**Unit 4: OpenMP**

**Lesson 7: OpenMP Applications & Practice**

**References / Further Reading**

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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)

1. A "Hands-on" Introduction to OpenMP (Part 1) | Tim Mattson, Intel <https://www.youtube.com/embed/pRtTIW9-Nr0>  
   Last access on 09/15/2020.
2. Intro to Shared Memory and OpenMP Basics <http://shodor.org/~bplist/bwi/openmp.html>. Last access on 06/16/2020.
3. Parallel Programming Using OpenMP. <http://shodor.org/media/content//petascale/materials/UPModules/openMP/openMP_Module_pdf.pdf>. Last access on 06/16/2020.

## Parallelization: Area Under a Curve <http://www.shodor.org/petascale/materials/UPModules/AreaUnderCurve/>. Last access on 06/16/2020.

1. Computer Science Curricula 2013: Curriculum Guidelines for Undergraduate Degree Programs in Computer Science December 20, 2013. <https://www.acm.org/binaries/content/assets/education/cs2013_web_final.pdf>. Last access on 06/16/2020.
2. OpenMP. <https://www.openmp.org/>. Last access on 06/18/2020.
3. Multithreading and Multiprocessing. <http://shodor.org/petascale/materials/UPModules/sipeMultithreadingMultiprocessModule2/>. Last access on 06/18/2020.
4. Parallel Area under a curve exercises. <http://shodor.org/petascale/materials/UPModules/exercises/Area_Under_Curve/>