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

**Unit 4: OpenMP**

**Lesson 5: Convolution in OpenMP (Heat Transfer example)**

**References / Further Reading**

*Developed by Maria Pantoja for the Shodor Education Foundation, Inc.*



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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)

Install OpenMP (If not already on your system) <https://medium.com/swlh/openmp-on-ubuntu-1145355eeb2>

OpenMP Standard <https://www.openmp.org/wp-content/uploads/openmp-4.5.pdf>

Stencil in OpenMP <https://www.coursera.org/lecture/parallelism-ia/stencil-demonstration-RE7op>