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

**Unit 7: CUDA**

**Lesson 9: Heat Diffusion in 1-2 D**

**References / Further Reading**

*Developed by David A. Joiner for the Shodor Education Foundation, Inc.*

[https://en.wikipedia.org/wiki/Relaxation\_(iterative\_method)](https://en.wikipedia.org/wiki/Relaxation_(iterative_method)#:~:text=In%20numerical%20mathematics%2C%20relaxation%20methods,of%20equations%2C%20including%20nonlinear%20systems.&text=Relaxation%20methods%20are%20used%20to,for%20example%20by%20finite%20differences.)

<https://en.wikipedia.org/wiki/Heat_equation>



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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)