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

**Unit 7: CUDA**

**Lesson 8: CUDA Memory Model**

**Exercise Instructions for Students**

*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)

1. Follow the instructor directions
   1. Download: Slides, Video, and code
   2. Before continuing on the next exercises make sure you understand the provided code and you are able to compile and run it
2. Do answer Sample Assessment question to evaluate your basic understanding of learning objectives

Sample Exercise:

1. Change the histogram to instead of characters and print to standard output the most frequently used word on the document (can take a look at some solutions for this problem here [https://github.com/trantalaiho/Cuda-Histogram)](https://github.com/trantalaiho/Cuda-Histogram)