**Cesar Marin**

**CSE 420 Assignment 4 Report**

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| --- | --- | --- | --- | --- | --- |
| **Matrix Size** | **Reference C implementation (single thread)** | **OpenCL on CPU** | | **OpenCL on GPU** | |
| **Naïve Kernel** | **Tiled Kernel** | **Naïve Kernel** | **Tiled Kernel** |
| **512x512** | 0.669596 sec | 0.0653383 sec | 0.240263 sec | 0.00229952 sec | 0.00104752 sec |
| **1024x1024** | 5.79927 sec | 0.803438 sec | 1.76536 sec | 0.0165136 sec | 0.0089696 sec |
| **2048x2048** | 137.771 sec | 21.9007 sec | 14.5937 sec | 0.138283 sec | 0.085751 sec |