|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **n** | **degree** | **GPU (time)** | **CPU (time)** | **Speedup** |
| 1000000000 | 1 | 0.465392 | 0.187812 | 0.4035 |
| 10 | 0.775269 | 0.653801 | 0.8433 |
| 100 | 1.57542 | 8.0663 | 5.1200 |
| 1000 | 6.50834 | 90.5244 | 13.9089 |

As the degree increases GPU’s performance also increases exponentially.

But lower values of degrees, CPU does better than GPU. We get these results because sending data to GPU and getting results back takes time than computing. But as the degree increases, GPU performs better since sending data and getting results overhead is overshadowed by computations.