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Introduction to Parallel and Distributed Programming

Report Lab 4

Exercise 1   **Transformations (60%)**

For the sequential approach for this parallel image processing task we obtained an average execution time of 30.464767ms.

Exercise 2   **Asynchronous operation (40%)**

When we implemented the execution with streams in our code we were able to see a huge improvement in the average execution time. The average execution time for this approach was 5.304256ms, which is roughly 6 times faster than the first approach. This is because each image processing task will be running concurrently in our GPU. We can see this improvement in the following histogram.