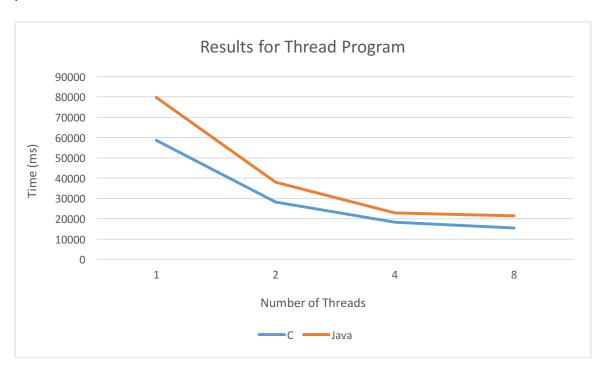
Results for Project 3 – Threads Forrest Meade

In the results, we see that by adding threads make it less time to complete the calculation. We also see that C is slightly faster, probably because of less memory being used.

Graph:



Results in C:

```
Sum: 98225301.871252
                               Sum: 98225301.731176
Wall Time: 58518 milliseconds
                               Wall Time: 18996 milliseconds
Number of Threads: 1
                               Number of Threads: 4
Upper Limit of Sum: 2000000000 Upper Limit of Sum: 2000000000
Sum: 98225301.871252
                               Sum: 98225301.731176
Wall Time: 58520 milliseconds
                               Wall Time: 18259 milliseconds
Number of Threads: 1
                               Number of Threads: 4
Upper Limit of Sum: 2000000000 Upper Limit of Sum: 2000000000
Sum: 98225301.871252
                               Sum: 98225301.731176
Wall Time: 59137 milliseconds
                               Wall Time: 17720 milliseconds
Number of Threads: 1
                               Number of Threads: 4
Upper Limit of Sum: 2000000000 Upper Limit of Sum: 2000000000
Sum: 98225301.871252
                               Sum: 98225301.544402
Wall Time: 28397 milliseconds
                               Wall Time: 15545 milliseconds
                               Number of Threads: 8
Number of Threads: 2
Upper Limit of Sum: 2000000000 Upper Limit of Sum: 2000000000
Sum: 98225301.871252
                               Sum: 98225301.544402
Wall Time: 28163 milliseconds
                               Wall Time: 15465 milliseconds
Number of Threads: 2
                               Number of Threads: 8
Upper Limit of Sum: 2000000000 Upper Limit of Sum: 2000000000
                               Sum: 98225301.544402
Sum: 98225301.871252
                               Wall Time: 15505 milliseconds
Wall Time: 28280 milliseconds
Number of Threads: 2
                               Number of Threads: 8
Upper Limit of Sum: 2000000000 Upper Limit of Sum: 2000000000
```

Results in Java:

Sum: 98225301.871252 Sum: 98225301.731176 Wall Time: 82047 milliseconds Wall Time: 22098 milliseconds Number of Threads: 1 Number of Threads: 4 Upper Limit of Sum: 2000000000 Upper Limit of Sum: 2000000000 Available Processors: 4 Available Processors: 4 Sum: 98225301.871252 Sum: 98225301.731176 Wall Time: 78257 milliseconds Wall Time: 24300 milliseconds Number of Threads: 1 Number of Threads: 4 Upper Limit of Sum: 2000000000 Upper Limit of Sum: 2000000000 Available Processors: 4 Available Processors: 4 Sum: 98225301.871252 Sum: 98225301.731176 Wall Time: 78970 milliseconds Wall Time: 22249 milliseconds Number of Threads: 1 Number of Threads: 4 Upper Limit of Sum: 2000000000 Upper Limit of Sum: 2000000000 Available Processors: 4 Available Processors: 4 Sum: 98225301.871252 Sum: 98225301.544402 Wall Time: 37506 milliseconds Wall Time: 21596 milliseconds Number of Threads: 2 Number of Threads: 8 Upper Limit of Sum: 2000000000 Upper Limit of Sum: 2000000000 Available Processors: 4 Available Processors: 4 Sum: 98225301.544402 Sum: 98225301.871252 Wall Time: 21481 milliseconds Wall Time: 37624 milliseconds Number of Threads: 2 Number of Threads: 8 Upper Limit of Sum: 2000000000 Upper Limit of Sum: 2000000000 Available Processors: 4 Available Processors: 4 Sum: 98225301.871252 Sum: 98225301.544402 Wall Time: 38755 milliseconds Wall Time: 21202 milliseconds Number of Threads: 2 Number of Threads: 8 Upper Limit of Sum: 2000000000 Upper Limit of Sum: 2000000000 Available Processors: 4 Available Processors: 4