|  |  |
| --- | --- |
| 30 frames of 250 x 250 | |
| Threads | Compute Time |
| 1 | 1.0337 s |
| 2 | 1.0340 s |
| 4 | 0.5500 s |
| 8 | 0.2752 s |
| 16 | 0.1725 s |
| 32 | 0.1105 |

Project 3 Report – fractal\_pthread.cpp

|  |  |
| --- | --- |
| 60 frames of 250 x 250 | |
| Threads | Compute Time |
| 1 | 2.0279 s |
| 2 | 2.0290 s |
| 4 | 1.0112 s |
| 8 | 0.5372 s |
| 16 | 0.3264 s |
| 32 | 0.2043 s |

|  |  |
| --- | --- |
| 30 frames of 500 x 500 | |
| Threads | Compute Time |
| 1 | 4.1152 s |
| 2 | 4.1182 s |
| 4 | 2.1913 s |
| 8 | 1.0957 s |
| 16 | 0.6651 s |
| 32 | 0.4261 s |

|  |  |
| --- | --- |
| 60 frames of 500 x 500 | |
| Threads | Compute Time |
| 1 | 8.0962 s |
| 2 | 8.1002 s |
| 4 | 4.0369 s |
| 8 | 2.1441 s |
| 16 | 1.2027 s |
| 32 | 0.8085 s |

Efficiency:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # of threads | 30 frames of 250 x 250 | 60 frames of 500 x 500 | 30 frames of 250 x 250 | 60 frames of 500 x 500 |
| 1 | 1.0025 | 0.9993 | 1.0057 | 0.9959 |
| 2 | 0.5011 | 1.9981 | 0.5026 | 1.9918 |
| 4 | 0.4710 | 4.2652 | 0.4425 | 4.5395 |
| 8 | 0.4707 | 8.0344 | 0.4698 | 8.0504 |
| 16 | 0.3755 | 16.5772 | 0.3751 | 17.9744 |
| 32 | 0.2931 | 33.9310 | 0.2861 | 35.0624 |