Assignment2 30053278 Juwei wang

Complier: g++ -O2 subset.cpp -lpthread -o subset

1. For starters, the running time decreases N times as the times that the threads increase. But when the threads are beyond a certain limitation, the running time is no longer to decrease.
2. Because every machine has limited cores(CPU), every CPU can only hold one process of thread once time. So when the threads are too many, they have to jump into the queue and wait for the CPU to deal with.

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| 1 | 2 | 3 | 4 | 6 | 8 | 12 | 16 | 24 | 32 |
| 10.659 | 5.356 | 3.584 | 2.991 | 2.720 | 2.722 | 2.696 | 2.689 | 2.677 | 2.703 |

