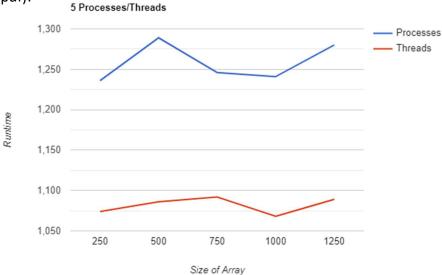
<u>Test 1:</u> variable array size, constant number of processes and threads

These tests will include 5 different sized intervals, 50, 100, 150, 200, and 250. They will be tested on the size interval * #procs/threads. This test will show that the search takes roughly the same amount of time regardless of the size of the interval and array if the number of processes is consistent. (Hopefully the threads are consistently faster)

1. 5 Processes/Threads

- ./searchtest 250 50
- ./searchtest 500 100
- ./searchtest 750 150
- ./searchtest 1000 200
- ./searchtest 1250 250

Sample Graph (not sure on the accuracy of ilab runtimes, graphs would be in results.pdf):



2. 10 Processes/Threads

- ./searchtest 500 50
- ./searchtest 1000 100
- ./searchtest 1500 150
- ./searchtest 2000 200
- ./searchtest 2500 250

3. 15 Processes/Threads

- ./searchtest 500 50
- ./searchtest 1000 100
- ./searchtest 1500 150

- ./searchtest 2000 200
- ./searchtest 2500 250
- 4. (Optional) 20 Processes/Threads
 - ./searchtest 1000 50
 - ./searchtest 2000 100
 - ./searchtest 3000 150
 - ./searchtest 4000 200
 - ./searchtest 5000 250

<u>Test 2:</u> constant array size, variable number of processes and threads