Database Systems

Assignment 2

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1) System Configuration

Processor: Intel® Core™ i5-6200U CPU @ 2.30GHz × 4
Memory : 7.7 GiB
Hard Disk: 86.0 GB
Base System: Ubuntu 18.04.3 LTS 64-bit
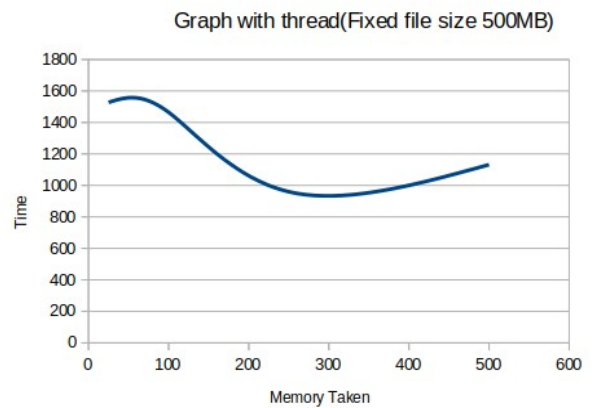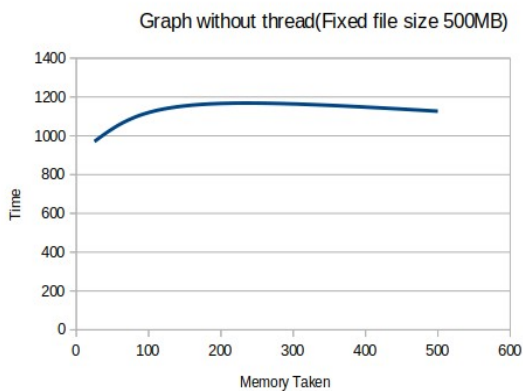
1)Results

1.) Main Memory (MB) vs Time (s)

Fixed File Size – 500 MB(without thread)

Memory	Time
25	970.601
100	1120.05
250	1168.47
500	1126.97

Fixed File Size – 500 MB(with thread)

Memory	Time
25	1527.38
100	1464.59
250	959.618
500	1131.69

2.) Graphs

Graph without thread(Fixed file size 500MB)

Graph with thread(Fixed file size 500MB)

2)Results

1) File Size (MB) vs Time (s)
Fixed Memory allocated – 100 MB

Memory	Time
5	6.04
50	75.33
500	192.478
1024	623.78
2048	1523.22
3072	2566.25

2.) Graphs

Graph without thread(Fixed file size 500MB)