Assignment Report

CSCE-313-512

PA5 High Concurrency without many Threads

Video Demo – https://youtu.be/0bt_8bw-Oc

Data Transfer

Different W for Data Transfer

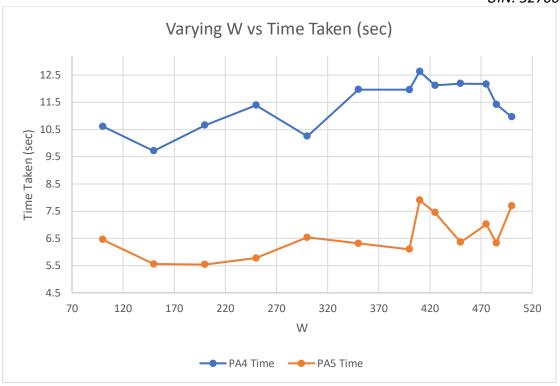
./client -n 15000 -p 15 -b 1024 -w ____ as given below

W Size	Time
	Taken
	(sec)
5	126.65
10	62.16
20	31.97
50	12.44
100	6.46
150	5.56
200	5.54
250	5.78
300	6.54
350	6.32
400	6.10
450	6.36
500	7.70

General Observation for Different W (worker thread):

The worker threads give steads results but for worker threads of around 250 to 500, it seems to be increasing in time performance. So, the DIMINISHING point is around 250 w-threads. The time difference between PA4 and PA5 is significant. As you can see from the graph below, the time difference is quite large for the running time of these functions.

Graph:



File Transfer

Varying W for Fille Transfer

./client -f 15.csv -b 1024 -w ____as shown below

Varying	Time
Worker	Taken
Threads	(sec)
50	0.38
150	0.41
250	0.82
350	0.94
450	1.2630
550	2.71
1000	1.112
2000	7.12

General Observation: As shown from the table above and graph below, the more the number of worker threads, it seems that the runtime is not varying too from PA4 and PA5 although the PA5 runtimes are a little bit faster than PA4.

Graph:

