

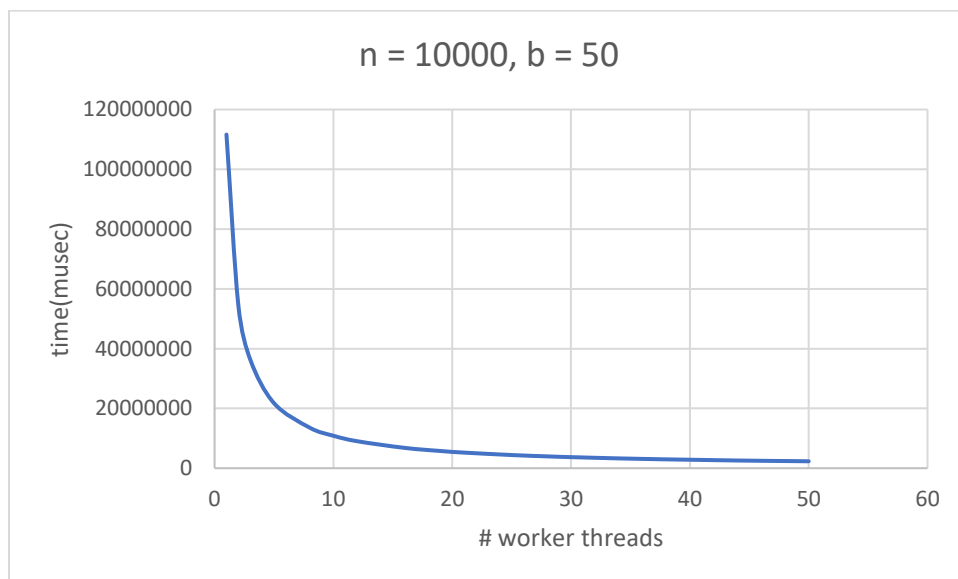
CSCE 313 – PA5

Report

Performance Analysis

The performance shows the same trend as in PA3 & PA4. As the worker threads increase the program runs faster. Buffer size does not affect the performance of the program. In comparison to PA4, the program is the same. There is only a little bit of improvement but it is only by a few microseconds. At about 30 channels($w=30$), the performance stops increasing.

n	w	b	time musc	time sec	time ms
10000	50	50	2325501	2	325501
10000	47	50	2441217	2	441217
10000	44	50	2584581	2	584581
10000	40	50	2835590	2	835590
10000	38	50	2966180	2	966180
10000	34	50	3284209	3	284209
10000	30	50	3707989	3	707989
10000	28	50	3959097	3	959097
10000	25	50	4410127	4	410127
10000	21	50	5223498	5	223498
10000	19	50	5764186	5	764186
10000	16	50	6803311	6	803311
10000	12	50	9030521	9	30521
10000	10	50	10855539	10	855539
10000	8	50	13584677	13	584677
10000	5	50	21760387	21	760387
10000	3	50	36367804	36	367804
10000	2	50	54447984	54	447984
10000	1	50	111630068	111	630068



n	w	b	time musec	time sec	time ms
10000	30	10000	3703766	3	703766
10000	30	9500	3699832	3	699832
10000	30	9000	3701093	3	701093
10000	30	8500	3693715	3	693715
10000	30	8000	3713211	3	713211
10000	30	7500	3704149	3	704149
10000	30	7000	3703483	3	703483
10000	30	6500	3687938	3	687938
10000	30	6000	3699027	3	699027
10000	30	5500	3677142	3	677142
10000	30	5000	3682381	3	682381
10000	30	4500	3671456	3	671456
10000	30	4000	3681079	3	681079
10000	30	3500	3685325	3	685325
10000	30	3000	3683506	3	683506
10000	30	2500	3701824	3	701824
10000	30	2000	3701104	3	701104
10000	30	1500	3703461	3	703461
10000	30	1	3700122	3	700122

