## **Assignment 7 Analysis Report**

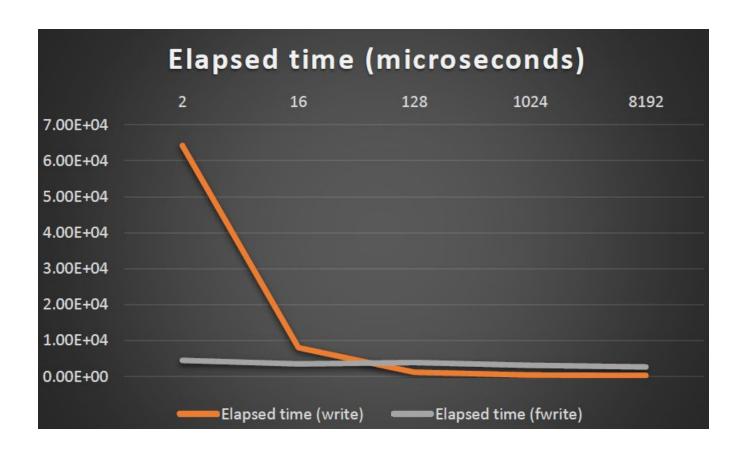
Prepared By: Krishna Tank (NetID: zy7886)

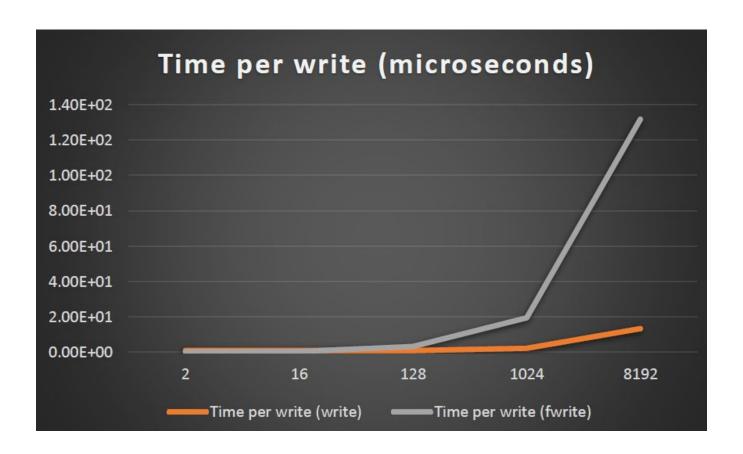
## write() results:

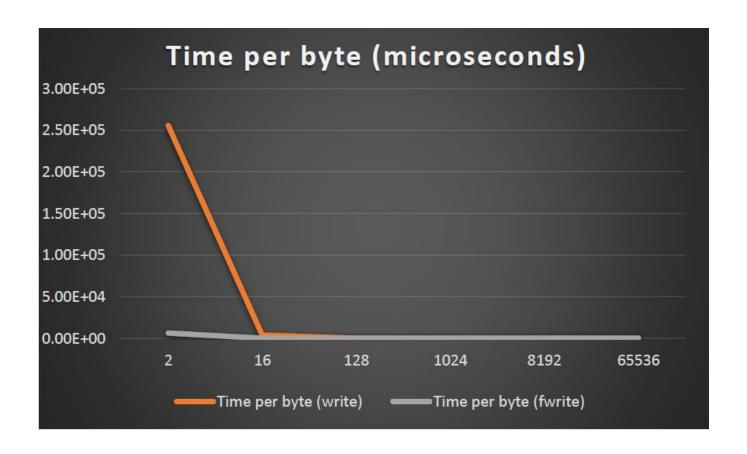
Buffer size	Elapsed time	Number of	Time per write	Time per byte
(bytes)	(micros)	function calls	(micros)	(micros)
2	5.11E+05	655360	7.80E-01	2.56E+05
16	6.42E+04	81920	7.84E-01	4.01E+03
128	8.04E+03	10240	7.85E-01	6.28E+01
1024	1.12E+03	1280	8.78E-01	1.10E+00
8192	3.45E+02	160	2.16E+00	4.21E-02
65536	2.64E+02	20	1.32E+01	4.03E-03

## fwrite() results:

Bu	ıffer size	Elapsed time	Number of function	•	Time per byte
	(bytes)	(micros)	calls	(micros)	(micros)
	2	1.25E+04	655360	1.91E-02	6.27E+03
	16	4.47E+03	81920	5.45E-02	2.79E+02
	128	3.43E+03	10240	3.35E-01	2.68E+01
	1024	3.81E+03	1280	2.97E+00	3.72E+00
	8192	3.10E+03	160	1.93E+01	3.78E-01
	65536	2.64E+03	20	1.32E+02	4.02E-02







## **Summary:**

- In this given graph, elapsed time of write() decreases as buffer size increases while elapsed time for fwrite() remains constant.
- Secondly, time per write of fwrite() grows faster than time per write of write().
- Moreover, for low buffer size, write() requires more time but it reduces as buffer size increases and time per byte of fwrite() mostly remains constant for all buffer sizes.