CS 342 OPERATING SYSTEMS PROJECT 1: PROCESSES, IPC, AND THREADS

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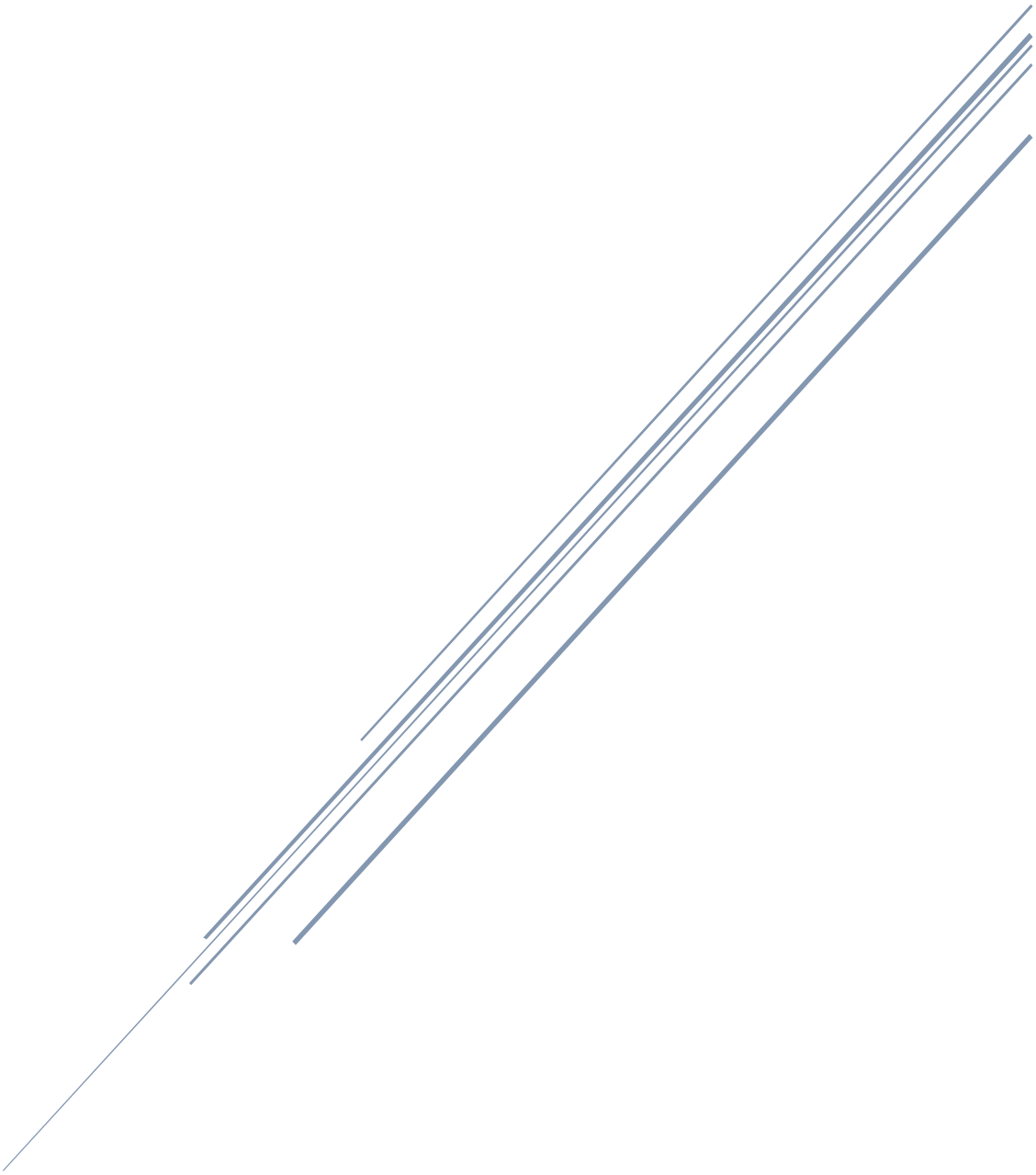

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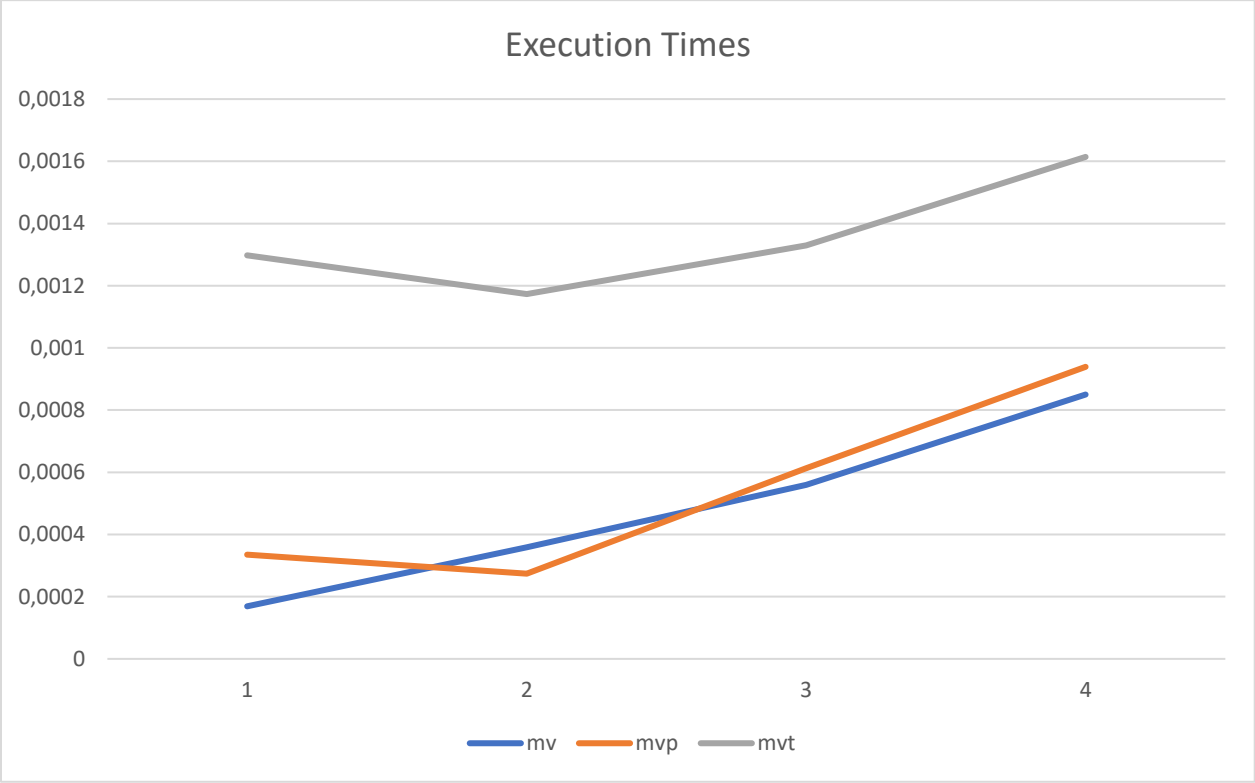
Section 2

	mv	mvp	mvt
K = 1	0,000169	0,000335	0,001298
K = 2	0,000359	0,000274	0,001173
K = 4	0,00056	0,000613	0,001329
K = 8	0,00085	0,000939	0,001614



During the project I have learnt that efficiency depends on the processor used and its design. From what I have read, I expected threads and pipes to be faster than multiple child process creation.

The results were surprising at first. I expected thread program to be much faster, however I noticed that it probably caused because of the reducer thread. It waits for all other threads to be finished.

Another noticeable thing was the situation where the K is equal to 1. For that case, since there is no need to create pipes or threads for that much straight program, “mv” was faster. The other results where K is greater than were expected.