LAB 1 REPORT

LUKE JUNG
904982644
CS 111 EGGERT WINTER 2019

TEST CASES

	Bash/Dash	**Simpsh**

1	`cat pg98.txt | \`
	`sort | \`
	`tr A-Z a-z | \`
	`wc > out.txt \`
	`2>err.txt; times`
		`./simpsh \`
		`--rdonly pg98.txt \`
		`--pipe --pipe --pipe \`
		`--wronly out.txt \`
		`--wronly err.txt \`
		`--command 0 2 8 cat \`
		`--command 1 4 8 sort \`
		`--command 3 6 8 tr A-Z a-z \`
		`--command 5 7 8 wc \`
		`--close 1 --close 2 --close 3 \`
		`--close 4 --close 5 --close 6 \`
		`--wait --profile`

2	`cat pg98.txt | \`
	`sed -n '/a/d' | \`
	`sed -n '/b/d' | \`
	`cat >out.txt \`
	`2>err.txt; times`
		`./simpsh \`
		`--rdonly pg98.txt \`
		`--pipe --pipe --pipe \`
		`--creat --excl --wronly out.txt \`
		`--creat --excl --wronly err.txt \`
		`--command 0 2 8 cat \`
		`--command 1 4 8 sed -n '/a/d' \`
		`--command 3 6 8 sed -n '/b/d' \`
		`--command 5 7 8 cat \`
		`--close 1 --close 2 \`
		`--close 3 --close 4 \`
		`--close 5 --close 6 \`
		`--wait --profile`

3	`cat pg98.txt | \`
	`cat > 1.txt | \`
	`cat 1.txt > 2.txt | \`
	`cat 2.txt > 3.txt | \`
	`cat 3.txt > out.txt \`
	`2>err.txt; times`
		`./simpsh \`
		`--rdonly pg98.txt \`
		`--rdwr 1.txt \`
		`--rdwr 2.txt \`
		`--rdwr 3.txt \`
		`--wronly out.txt \`
		`--wronly err.txt \`
		`--command 0 1 5 cat \`
		`--command 1 2 5 cat 1.txt \`
		`--command 2 3 5 cat 2.txt \`
		`--command 3 4 5 cat 3.txt \`
		`--wait --profile`

RESULTS

	Dash	**Bash**	**Simpsh**
Test 1			
Kernel			
-User Time	**0m0.000s**	0m0.001s	**0m0.000s**
-Sys Time	**0m0.000s**	0m0.001s	0m0.780s
Child			
-User Time	**0m0.100s**	0m0.112s	0m0.532s
-Sys Time	**0m0.010s**	0m0.014s	0m0.107s
Test 2			
Kernel			
-User Time	**0m0.000s**	0m0.003s	**0m0.000s**
-Sys Time	**0m0.000s**	0m0.001s	0m0.723s
Child			
-User Time	**0m0.120s**	0m0.128s	0m0.198s
-Sys Time	**0m0.020s**	0m0.025s	0m0.258s
Test 3			
Kernel			
-User Time	**0m0.000s**	0m0.004s	0m0.375s
-Sys Time	**0m0.000s**	0m0.002s	0m0.412s
Child			
-User Time	**0m0.120s**	0m0.133s	0m0.164s
-Sys Time	**0m0.030s**	0m0.039s	0m0.610s

Bold is best time for each category.
****Tests were taken by putting each command in a separate script file and running script file.**

CONCLUSION

1. Simpsh performed either worse or the same as bash and dash. I got some pretty slow results compared to Bash and Dash on most tests though.
2. Dash preformed the best, getting quick results in every benchmark and only tying with Simpsh for some of the Kernel user times.
3. Bash performed well, as in being close to dash's times and beating simpsh by a large margin.