Lab 1C Report

Test Number	Simpsh	Bash/dash
1	./simpshprofilecreatappendrdwr i.txtcreatwronly e.txtpipecommand 0 0 1 echo lolcommand 0 3 1 factor 100command 2 0 1 catcreatwronly o.txtcommand 0 4 1 wc -l > t1.txt;	echo "lol" > i.txt factor 100 >> i.txt wc -l < i.txt > o.txt
2	./simpshprofilecreatappendrdwr o.txtcreatwronly e.txtpipepipecommand 0 3 1 echo cs 111command 2 0 1 wc -ccommand 0 0 1 date > t2.txt	echo "cs 111" wc -c > o.txt date >> o.txt wc -l < o.txt > line.txt
3	./simpshprofilecreatrdwr o.txtcreatwronly err.txtpipepipepipecommand 0 3 1 lscommand 2 5 1 sortcommand 4 7 1 tr [:lower:] [:upper:]command 6 0 1 grep '8' > t3.txt	Is sort tr [:lower:] [:upper:] grep '8' > o.txt

Performance

Simpsh	Bash	Dash
User Sys	User Sys	User Sys
0m0.001s 0m0.001s	0m0.001s 0m0.005s	0.00s 0.00s
0m0.002s 0m0.001s	0m0.000s 0m0.005s	0.00s 0.00s
0m0.000s 0m0.002s	0m0.001s 0m0.004s	0.00s 0.00s
Avg:	Avg:	Avg:
.0010s .0013s	.0007s .0047s	0.00s 0.00s
User Sys	User Sys	User Sys
0m0.002s 0m0.001s	0m0.001s 0m0.006s	0.00s 0.00s
0m0.000s 0m0.002s	0m0.001s 0m0.006s	0.00s 0.00s
0m0.000s 0m0.002s	0m0.002s 0m0.004s	0.00s 0.00s
Avg:	Avg:	Avg:

.0007s .0017s	.0013s .0053s	0.00s 0.00s
User Sys	User Sys	User Sys
0m0.000s 0m0.003s	0m0.003s 0m0.007s	0.00s 0.00s
0m0.003s 0m0.000s	0m0.001s 0m0.008s	0.00s 0.00s
0m0.002s 0m0.001s	0m0.003s 0m0.006s	0.00s 0.00s
Avg:	Avg:	Avg:
.0017s .0013s	.00023s .0070s	0.00s 0.00s

Conclusion:

Using dash, I was unable to get higher precision for timing so according to the data i have collected, dash provides the smallest average user and system data, making dash the fastest shell out of the three. Next after that would be the simpleton shell I have created. This shell almost always takes 50% or less time than than the bash shell. The exception for this is test 1 where the simpleton shell take .0003 seconds on average of user time longer than the bash shell. However for the most part, using three different test cases,