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benchmarks:

1.

Simpsh:

```
./simpsh --pipe --pipe --rdwr pg98.txt --creat --wronly err.txt --command 4 1 5 cat --command \
0 3 5 sort --command 2 4 5 tr 'A' 'B' --close 0 --close 1 --close 2 --close 3 --profile --wait
```

Bash:

```
cat pg98.txt | sort | tr 'A' 'B' >pg98.txt 2>err.txt
```

2.

Simpsh:

```
./simpsh --pipe --pipe --rdwr pg98.txt --creat --wronly err.txt --command 4 1 5 cat --command \
0 3 5 grep -q "England" --command 2 4 5 sort --close 0 --close 1 --close 2 --close 3 --profile --wait
```

Bash

```
cat pg98.txt | grep -q "England" | sort >pg98.txt 2>err.txt
```

3.

Simpsh:

```
./simpsh --pipe --pipe --rdonly pg98.txt --creat --wronly output3.txt --creat --wronly err.txt \
--command 4 1 6 cat command 0 3 6 tr A-Z a-z --command 2 5 6 cat --close 0 --close 1 --close 2 \
--close 3 --profile --wait
```

Bash

```
cat pg98.txt | tr A-Z a-z | cat > output3.txt 2> err.txt
```

performance:

1.

User

	Simpsh	bash	dash
Children	0.002	0.003	0.003
Shell	0.000	0.000	0.000

System

	Simpsh	bash	dash
Children	0.008	0.015	0.015
Shell	0.001	0.000	0.000

2.

User

	Simpsh	bash	dash
Children	0.001	0.003	0.002
Shell	0.000	0.000	0.000

System

	Simpsh	bash	dash
Children	0.002	0.003	0.004
Shell	0.001	0.000	0.000

3.

user

	Simpsh	bash	dash
Children	0.000	0.004	0.005
Shell	0.000	0.000	0.000

System

	Simpsh	bash	dash
Children	0.000	0.004	0.002
Shell	0.001	0.000	0.000

Observation: dash and bash always uses longer run time than simpsh

There really is no significant difference in term of run time between bash and dash