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The link below demonstrates the test of my both programs with various inputs, and shows that both programs are correct.

https://drive.google.com/drive/folders/1oHNImAoXUwN-yvEJYOeBjztwAlKwSSE8?usp=sharing

(The content of the input files can be seen through the link)

Time for pwc

1.file(ex1)

real 0m0,014s user 0m0,001s sys 0m0,002s

3.file(ex1 ex2 ex3)

real 0m0,015s user 0m0,004s sys 0m0,000s

5.file(ex1 ex2 ex3 ex4 ex5)

real 0m0,016s user 0m0,004s sys 0m0,002s

Time for two

1.file(ex1)

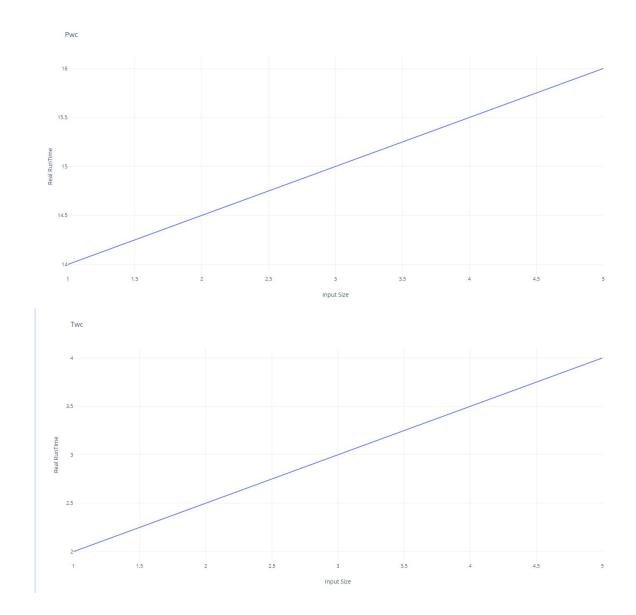
real 0m0,002s user 0m0,002s sys 0m0,000s

3.file(ex1 ex2 ex3)

real 0m0,003s user 0m0,003s sys 0m0,000s

5.file(ex1 ex2 ex3 ex4 ex5)

real 0m0,004s user 0m0,000s sys 0m0,004s



Real time of two runs faster than pwc. Threads run concurrently, share memory., Processes do not run concurrently, do not share memory, so processes have to wait a lot more than threads. In that sense, generally run times of threads may be expected to less than processes. I would expect sys time of pwc to be higher than two, since the pwc communication uses a lot of message queues. However, for computers which can run billions of instructions per second, I guess it makes sense to not the observe critical time difference by using 5 txt files as inputs and 300 line programs. Based on the graphs, real time increases with number of input files linearly.