

Write up Assignment 0: Shoulders

Testing

Shoulders, should be identical to head. (With consideration to *shoulders* limited design.

i. Comparing general command:

1. head -qn
2. ./shoulders n

Example:

1. head -qn 10 file1 > test_h.txt
2. ./shoulders 10 file1 > test_s.txt

Taking diff test_h.txt test_s.txt shows no diff

Testing Code for the spec:

Majority of tests were done using Scripts provided by Christopher Lim and Anish P.

These tests include various arguments for *shoulders* and head to compare behavior.

Outside of the behavioral comparison testing , I benchmarked performance by

ii. Comparing time general command:

1. Time head -qn
2. Time ./shoulders n

Made iterations upon *shoulder* to determine the deficiencies regarding performance.

By removing the amount of system calls and using pointers,
I significantly reduced the run time of shoulders to be closer to head.