

Pyung Lee

Pkl4fr

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InLab06 Report

The implementation of this lab was difficult and arduous. In the end I was able to produce the correct results but the order of the outputs were in the wrong order. By using the diff and sort outputs through shell, I was able to compare my outputs and the expected output and they were almost the same (excluding the output time). Through the averagetime shell script, I was able to compare how -O2 affected the runtime. For a 4x7 grid with words.txt: without -O2 it took 8.4 milliseconds whereas with -O2, 8.3 milliseconds. So it was a little faster. The speed of my hash script is too slow, both my 250x250 and 300x300 grid took too long (greater than 5 minutes) to load so the operation was cancelled.

The big-theta running speed of the word-search component in terms of rows, columns, and words is when you have the maximum number of words, possible with maximum collisions and when the program is searching at the last row and columns.

One of the biggest issues I had with this lab was understanding the non-lecture material. I had trouble comprehending the getWord methods that was given. Another problem I had while implementing this lab was how to implement linear probing into the program.

Shell script writing was difficult because the syntax is very specific. It took me a very long time to fix the syntax.