CSE 330 – Devyash Lodha – Project 2 Milestone

Data Structures for Map

For the map phase of my program, I am using a 256-way trie to perform the computations. When inserting a word into the trie, I consider the trie as a linked list. For each character in the trie, I set the current pointer to the pointer in the pointer list in the tree for the character. If a pointer encountered in this traversal is NULL, it is initialized from the heap.

To traverse the trie, I perform a DFS on the trie. Whenever a char is encountered, it is the end of the current string. I only print this string if its count is nonzero.

Program Status

Nearly Complete. I need to create the reduce function to merge the output from each map thread.

Collaboration

I received no help in my code. I helped a few students use GDB to find segfaults. Thankfully, I haven't had a single one of those in this project. I guess bug spray really helps!

External References

I treated this project as a coding interview so the only resource used was your documentation.