

## Assignment 3

I have written my hashtable to be a lock table. This increases concurrency by allowing more threads access to the hash table at a time.

During recursive name lookup I have to lock the entire table which reduces concurrency to 0 until the lookup completes.

I did not do much additional testing. I added some time flags around my code and compared processing times as I increased data size to get a rough idea of how quickly my latency increased as workload increased, but by and large I relied on my design to have an acceptable outcome. Not the best policy, but my priority goal was to have a more accurately functional offering than I did for asgn2.

## Testing

I used a combination of unit testing and scripting to test the functionality of my program.