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CIS 625 Homework 3 Performance Analysis

To begin, we were given the task of increasing performance by running code in parallel using Open MPI. The code runs through four for loops and two do while loops. The code also reads in a dictionary of 50,000 words and stores them. Then it reads in 100,000 words from a word list in and stores that as well. The goal of the code is to loop through the two word lists and match words in the dictionary to words from the word list and output matches with their line number in the larger word list.

I ran everything on the elf nodes. The current bash version is: GNU bash, version 4.2.46(2)-release (x86\_64-redhat-linux-gnu). The current Linux version is: 