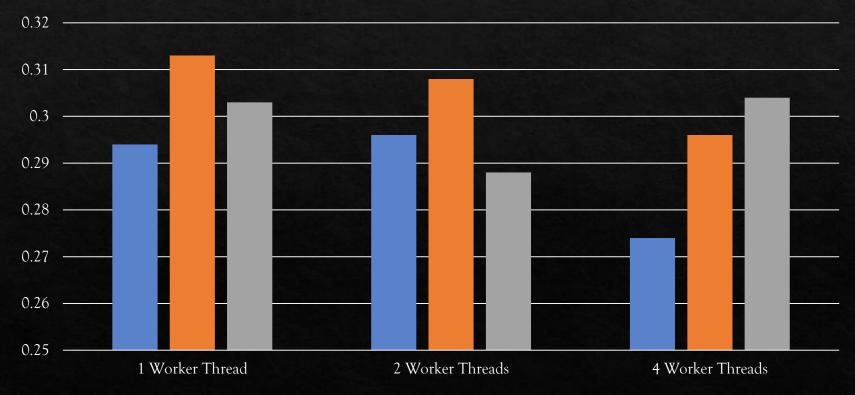


♦ In this problem, we are presented with a list of files and should iterate over the data to count the number of vowels per word, categorized by the word length.

♦ The function that does this is called "processing".

♦ The performance, using the target files provided, is as follows:

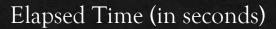


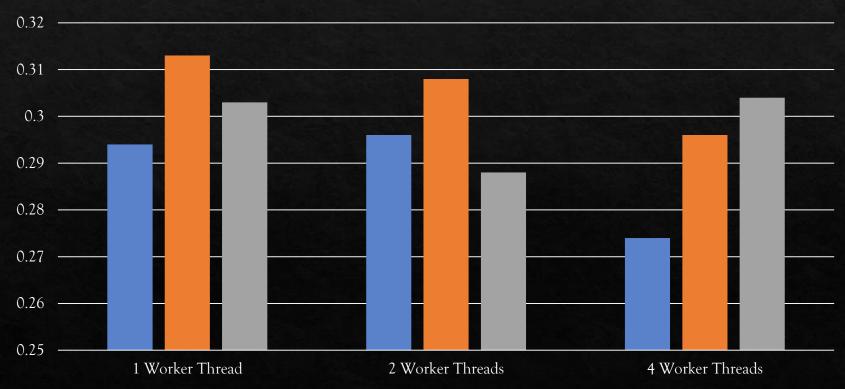


♦ In this problem, we are presented with a list of files containing signals. The goal is to retrieve the signals, pair them and calculate the circular cross-correlation of the pair. This result shall be compared to the ones saved in the same file and the differences pointed out.

♦ The function that produces the results is called "circularCrossCorrelation" and the one that finds differences is called "printResults".

♦ The performance, using the target files provided, is as follows:





#### Conclusions

♦ The use of multithreading may not always be beneficial. Of course, on the flip side, some jobs gain a lot when it is well implemented.

♦ There should be a previous analysis, accounting the expected processing times and the time lost in transmission of data, to evaluate the use of multithreading.