

# ENSC 351 - Lab 3: MapReduce

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## 1 Explanation of workload

The workload invented to fit the MapReduce framework better than word counts was [matrix multiplication | distributed sorting?]

### 1.1 Conception

[Matrix multiplication | distributed sorting] was chosen as a better alternative to word counts because...

### 1.2 Speed: Single-threaded implementation

### 1.3 Speed: MapReduce implementation

### 1.4 Comparison

## 2 Word count efficiency

Both implementations of the program counted the instances of words in the first five paragraphs (516 words) of Lorem Ipsum.

### 2.1 Single-threaded implementation

### 2.2 MapReduce implementation

### 2.3 Comparison

## 3 Most appropriate workload for MapReduce

## 4 Impact of using multiple machines on execution speed