

Exam project Word Finder
Concurrent Programming
DM519



Mark Jervelund - mjerv15 - mark@jervelund.com

IMADA

April 25, 2016

Contents

Specification	1
Design	1
Implementation	1
Testing	1
Conclusion	1
Appendix	1

Specification

In the WordFinder project the task was to design and implement a program that looks for strings in .txt files using concurrency.

The program has 3 main functions.

Findall:

Find all occurrences of words and return a list with the result interface containing where they were found.

FindAny:

Find the first occurrence of a word and return its location and line using the result interface

Stats:

The stats function returns as object stats this object has 6 sub-functions

occurrences: returns how often a word occurs

foundIn: returns findall for a word

mostFrequent: returns the most occurring word in all the files scanned

leastFrequent: Returns the least occurring word in all the files scanned

words: Returns a list of all words found in the files:

wordsByOccurrences: Returns a list of all words sorted by how often they occur, with the least occurring first, and the most occurring last.

Design

Implementation

Testing

Conclusion

Appendix