**Lab2 Readme**

**2.1 Implementation**

Using conventional original method to implement the matrix multiplicaiton.Source file is original.cpp.

Using conventional Strassen’s algorithm to implement the matrix multiplicaiton.Source file is Strassen.cpp.

**2.2 Experiment**

Evaluate the time complexity of original multiplication and Strassen’s algorithm,the value for n is from 32 to 32\*1024,all are power of 2.Source file is validation.cpp.In theory, The Strassen’s algorithm exhibits a computational complexity of Θ(*n* 2*.*81) as opposed to original Θ(*n* 3 ).In experiment,we can see it fits the theory perfectly.Relevant datas and graph are in data.xlsx.