Laboratory Report

Interpolating the elevations into a higher resolution digital elevation matrix M given a lower resolution digital elevation matrix N

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1 Introduction

2 Objectives

The goal for this exercise is the following:

- to determine the average running time and time complexity of the computer program for interpolating the elevation of an n x n square matrix.

- to figure out ways to further improve the average running time of the computer program.

3 Methodology

The computer used for this activity is running on Ubuntu 22.04.2 LTS x86_64, Intel i-7 8700 (12 cores) @ 4.6GHz, AMD ATI Radeon HD 8570 / RS 430, with 16GB memory.

4 Results and Discussion

5 Conclusion

6 References

7 Appendices