

Report 4: k-way graph partitioning using JaBeJa

Group 150: Lorenzo Deflorian, Riccardo Fragale

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1 Introduction

This assignment aims to understand distributed graph partitioning using gossip-based peer-to-peer techniques; focusing in particular on the strategy suggested in the following paper¹. We were given the skeleton of the algorithm and we needed to implement a couple of very important features and then doing some tests and experimenting possible improvements.

2 Task 1

This first task was related to the initial implementation of the JaBeJa class. We were asked to complete the implementation of the methods **sampleAndSwap(...)** and **findPartner(...)**.

3 Task 2

4 Task 3

5 Conclusion

¹<https://publicatio.bibl.u-szeged.hu/5295/1/taas15.pdf>