## Parallel Huffman Coding

Francesco Bozzo
DISI, University of Trento
Trento, Italy
francesco.bozzo@studenti.unitn.it
229312

Michele Yin
DISI, University of Trento
Trento, Italy
michele.yin@studenti.unitn.it
229359

Abstract—This report aims to explain the design of a parallel encoding and decoding Huffman algorithm. The application is developed with the C99 programming language, using MPI for multiprocessing and OpenMP for multithreading to scale horizontally with increasing hardware resources. [?]

Index Terms—Huffman, MPI, OpenMP, High Performance Computing

## I. Introduction

To implement the priority queue also a parallel approach has been considered [1].

## II. Conclusions

To conclude.

## References

[1] G. S. Brodal, J. L. Träff, and C. D. Zaroliagis, "A parallel priority queue with constant time operations," Journal of Parallel and Distributed Computing, vol. 49, no. 1, pp. 4–21, 1998. [Online]. Available: https://www.sciencedirect.com/science/article/pii/S0743731598914253