

Parallel Implementation of Huffman Coding

Federico Matteoni

A.A. 2022/23

1 The Alternatives

Huffman coding may be implemented in different ways. Huffman uses a table containing the number of occurrences of each symbol in the input text. The goal is to assign a unique sequence of bits to each symbol in an optimal way, meaning that the encoding of each character must have a unique prefix to unambiguously differentiate each character.

Heaps One way of storing this data is through a binary tree, placing each character in the leafs of the tree

2 Implementation

3 Evaluation

4 Discussion

5 Running the Code