

Comparison of Huffman Fair Queuing and Weighted Fair Queuing Scheduling Algorithms

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ABSTRACT:

The Huffman Fair Queuing is a scheduling algorithm based on Huffman coding and Weighted Fair Queuing. The aim of this scheduler is to provide and smooth output traffic, while remaining simple in operation. This scheduler is implemented by applying WFQ [Weighted Fair Queuing] on the adjacent nodes of the Huffman Binary tree. The HuFQ [Huffman Fair Queuing] is intended to overcome the short coming of WFQ by securing a worst case fairness result.

This scholarly paper presentation mainly focuses on explaining the operation of both HuFQ and WFQ, the scenario in which the WFQ scheduler fails to provide a fair output queue and how HuFQ overcomes this situation. Also, both the scheduling algorithms are compared based on their 'Average delays' and 'Worst case delays' results.