Agent based Monitoring and Scheduling Technique Framework for Backup Configurations

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Abstract

In Multi Route Configurations (MRC) protocol when failure is detected, it forwards the packets over preconfigured alternative next-hops and immediately recovers from single or multiple failures. Multipath routing provides multipath communication and improves network transmission reliability. However, when there is a huge amount of traffic in the network existing MRC follows default scheduling which results in large transmission delay for high priority packet. Hence it is a challenging problem, and highly influences the performance of MRC. In this paper, we propose an Agent based Monitoring and Scheduling Technique (AMST) algorithm which provides a generic framework for packet scheduling. The main idea of AMST algorithm is to schedule the packets based on its priority and by selecting the transmission path with lowest transmission delay.

References

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Index Terms

Computer Science Software Engineering
Keywords

Delay, Scheduling, Bandwidth, Priority, Congestion, Jitter, Reorder, Multipath TCP.