

网络、通信、安全

多链路时延反馈共享令牌流量拥塞控制

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摘要 流量调度的目标是提高网络资源的利用率, 改善网络应用的性能, 针对多链路环境下流量控制机制存在的问题, 设计了一种多链路共享令牌缓冲池流量调度模型, 分析了链路中数据传输时延特点, 提出一种基于时延反馈信息的共享令牌流量拥塞控制算法, 根据链路时延选择函数对多链路进行反馈流量调度。实验结果表明, 该算法可以有效地减少数据在链路访问延时, 而且链路流量的平滑性、带宽利用率等都比其他传统调度算法要好, 适合于高性能宽带接入链路流量控制的应用。

关键词 [流量调度](#) [令牌缓冲](#) [时延反馈](#) [负载均衡](#)

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Sharing token traffic congestion control of multi-link based on delay feedback

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Abstract

Traffic scheduling which aims at improving network resource utilization and network application performance. Considering the problem of traffic control mechanism in multi-link, a model of sharing token buffer traffic scheduling in multi-link is designed, the feature of data transmission delay is also discussed. A sharing token traffic congestion control algorithm of multi-link based on delay feedback is presented. In this algorithm, the traffic scheduling of links according to the delay-based multi-link select function. Experimental results demonstrate that the algorithm diminishes latency, the shape of traffic and utilization of bandwidth is better than other traditional algorithms. The algorithm presented in this paper is more suitable for the application of link traffic control in high performance broadband network access.

Key words [traffic scheduling](#) [token buffer](#) [delay feedback](#) [load balancing](#)

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