



Analysis of TCP Performance in Data Center Networks (SpringerBriefs in Electrical and Computer Engineering)

Santosh Kulkarni, Prathima Agrawal

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This book addresses the need to improve TCP's performance inside data centers by providing solutions that are both practical and backward compatible with standard TCP versions. The authors approach this challenge first by deriving an analytical model for TCP's performance under typical data center workload traffic. They then discuss some solutions that are designed to improve TCP performance by either proactively detecting network congestion through probabilistic retransmission or by avoiding timeout penalty through dynamic resizing of TCP segments. Experimental results show that each of techniques discussed outperforms standard TCP inside a data center.

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