

## MultiPath TCP - Linux Kernel implementation

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## **Mptcp Linux Kernel Implementation Status**

Sameer Seth, M. Ajaykumar Venkatesulu

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León, Guillermo Pizarro Vásquez, Benjamin Durakovic, 2020-03-02 This thirs volume of the three volume set CCIS 1193 1194
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sections on radio communications security management protocols and performance algorithms models and simulations

Mobile Networks and Management Dirk Pesch, Andreas Timm-Giel, Ramón Agüero Calvo, Bernd-Ludwig Wenning, Kostas Pentikousis, 2013-12-17 This book constitutes the post proceedings of the 5th International ICST Conference on Mobile Networks and Management MONAMI 2013 held in Cork Ireland in September 2013 The 18 revised full papers presented were carefully reviewed and selected from numerous submissions The volume is organized thematically in five parts covering TCP multi path and coding and content centric networking mobile networks wireless sensor and vehicular networks wireless communications and traffic future research directions including cloud connectivity orchestration and SDN *Quality, Reliability, Security and Robustness in Heterogeneous Systems* Trung Q. Duong, Nguyen-Son Vo, Van Ca Phan, 2019-03-07 This book constitutes the refereed post conference proceedings of the 14th EAI International Conference on Quality Reliability Security and Robustness in Heterogeneous Networks QShine 2018 held in Ho Chi Minh City Vietnam in December 2018 The 13 revised full papers were carefully reviewed and selected from 28 submissions The papers are organized

thematically in tracks starting with security and privacy telecommunication systems and networks networks and applications Advanced Information Networking and Applications Leonard Barolli, Isaac Woungang, Tomoya Enokido, 2021-04-26 This book covers the theory design and applications of computer networks distributed computing and information systems Networks of today are going through a rapid evolution and there are many emerging areas of information networking and their applications Heterogeneous networking supported by recent technological advances in low power wireless communications along with silicon integration of various functionalities such as sensing communications intelligence and actuations is emerging as a critically important disruptive computer class based on a new platform networking structure and interface that enable novel low cost and high volume applications Several of such applications have been difficult to realize because of many interconnections problems To fulfill their large range of applications different kinds of networks need to collaborate and wired and next generation wireless systems should be integrated in order to develop high performance computing solutions to problems arising from the complexities of these networks The aim of the book Advanced Information Networking and Applications is to provide latest research findings innovative research results methods and development techniques from both theoretical and practical perspectives related to the emerging areas of information networking and applications Computer and Information Technology Prasad Yarlagadda, Seung Bok Choi, Yun Hae Kim, 2014-02-06 Selected peer reviewed papers from the International Forum on Computer and Information Technology IFCIT 2013 December 24 25 2013 Shenzhen China Multipath TCP in Wireless Networks Mijanur Rahaman Palash, 2018 Multipath TCP MPTCP is a new modification of TCP protocol which enables a client to transfer data over multiple paths simultaneously under a single TCP connection for improved throughput and fault resilience However MPTCP is susceptible to some major drawbacks when applied in a wireless network We found several cases where despite improving individual MPTCP clients throughput MPTCP reduces the capacity of the overall wireless network due to the mac level fairness and contention based access schemes Additionally even if the bandwidth improves employing Multipath TCP MPTCP in wireless networks can be energy inefficient due to additional energy consumption by multiple interfaces This creates a dilemma between bandwidth improvement and energy efficiency This thesis research aims to solve these important issues for MPTCP in the wireless environment We analyzed the root cause of these drawbacks and identified instances where they can arise Two novel schemes denoted MPWiFi and kMPTCP are developed to solve the bandwidth degradation and energy efficiency issues respectively while maintaining the promised benefits of MPTCP The MPWiFi assigns different priorities to the subflows and aggressively suppresses some of them based on some design logic Similarly kMPTCP adds an additional multipath subflow only if the bandwidth requirement can t be fulfilled by single path and the new subflow meets the data rate and signal strength condition Moreover kMPTCP keeps additional subflows as long as the signal strength remains in good range and this subflow remain mandatory to provide the necessary bandwidth to the application These two schemes have been

implemented along with Linux Kernel MPTCP implementation Extensive real world deployment and NS3 simulation show that the proposed schemes can effectively alleviate the adverse impacts of the MPTCP based multipath access in wireless Performance Improvement of Multipath TCP Over Non-uniform Paths Using Slow Path Adaptation Sabur Hassan Baidya, University of Texas at Dallas. Graduate Program in Computer Science, 2013 This thesis describes a thorough evaluation of performance of recently developed Multipath Transport Protocol namely MPTCP deals with some performance issues in specific scenarios and proposes a potential solution Multipath TCP MPTCP is an extension of TCP developed by Internet Engineering Task Force IETF to support communication between source and destination through multiple flows under a single connection session We have conducted several experiments with real hardware on flows with extreme variation in path quality and found that unless receive buffer size is increased to a much higher value the overall throughput decreases below the level of single path TCP throughput We propose a Slow Path Adaptation SPA technique to overcome this issue without affecting other performance parameters. The implementation is done on Linux kernel and experimental results TCP/IP Architecture, Design, and Implementation in Linux Sameer Seth, M. Ajaykumar are presented Venkatesulu, 2009-01-23 This book provides thorough knowledge of Linux TCP IP stack and kernel framework for its network stack including complete knowledge of design and implementation Starting with simple client server socket programs and progressing to complex design and implementation of TCP IP protocol in linux this book provides different aspects of socket programming and major TCP IP related algorithms In addition the text features netfilter hook framework a complete explanation of routing sub system IP QOS implementation and Network Soft IRQ This book further contains elements on TCP state machine implementation TCP timer implementation on Linux TCP memory management on Linux and debugging TCP IP stack using lcrash Design and Implementation of the Mobile Internet Protocol on the Linux Kernel to Support Internet TCP/IP and Linux Protocol Implementation Jon Crowcroft, Jain Phillips, 2002 A one of a Mobility Radha Thothadri, 1999 kind description about using the Linux operating system on a TCP IP network Boasting high performance high availability and open source code Linux has emerged as an optimal choice for an operating system Yet for Linux to be adopted by the mainstream of Unix based corporate and ISP networks it must be capable of supporting the TCP IP Internet protocol like any other network operating system This book provides the rapidly growing audience of Linux site managers as well as researchers and developers worldwide with the information they need on how Linux TCP IP keeps the network running Internationally recognized expert on Internetworking Jon Crowcroft walks readers through the Linux TCP IP protocol stack offering detailed explanations on how Linux implements its communications protocols Vinton Cerf co inventor of TCP IP is the technical editor for this book Implementing XTP in an IP Environment Vince Lo Faso, 2001

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