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On May 2021, our APT repository has been suspended because it was hosted on Bintray which is no longer available.

**All packages are now available on Github Releases page only.**

<https://github.com/multipath-tcp/mptcp/releases>

Please download all **deb** packages for one specific release and install them manually, e.g.:

```
sudo dpkg -i linux*.deb  
sudo apt-get install -f
```

Feel free to click on the "Watch" button the repository to get notifications when new versions are available.

*Note:* only **386\_64** packages are available.



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# Mptcp Linux Kernel Implementation Status

**Jon Crowcroft, Iain Phillips**



## **Mptcp Linux Kernel Implementation Status:**

**Applied Technologies** Miguel Botto-Tobar, Marcelo Zambrano Vizuete, Pablo Torres-Carrión, Sergio Montes León, Guillermo Pizarro Vásquez, Benjamin Durakovic, 2020-03-02 This third volume of the three volume set CCIS 1193 1194 1195 constitutes the refereed proceedings of the First International Conference on Applied Technologies ICAT 2019 held in Quito Ecuador in December 2019 The 124 full papers were carefully reviewed and selected from 328 submissions The papers are organized according to the following topics technology trends computing intelligent systems machine vision security communication electronics e learning e government e participation

**Information and Communication Technologies** Robert Szabo, Attila Vidacs, 2012-08-07 This book constitutes the refereed proceedings of the 18th EUNICE 2012 conference on information and communication technologies held in Budapest in August 2012 The 23 oral papers demonstrated together with 15 poster presentations were carefully reviewed and selected from 48 submissions The papers are organized in topical sections on radio communications security management protocols and performance algorithms models and simulations

**Information, Communication and Computing Technology** Mahua Bhattacharya, Latika Kharb, Deepak Chahal, 2021-10-07 This book constitutes the refereed proceedings of the 6th International Conference on Information Communication and Computing Technology ICICCT 2021 held in New Delhi India in May 2021 The 16 full papers and 4 short paper presented in this volume were carefully reviewed and selected from 83 qualified submissions The papers are organized in topical sections on communication and network systems computational intelligence techniques

**Traffic Monitoring and Analysis** Moritz Steiner, Pere Barlet-Ros, Olivier Bonaventure, 2015-04-16 This book constitutes the refereed proceedings of the 7th International Workshop on Traffic Monitoring and Analysis TMA 2015 held in Barcelona Spain in April 2015 The 16 full papers presented in this volume were carefully reviewed and selected from 54 submissions The contributions are organized in topical sections on measurement tools and methods mobile and wireless Web security and new protocols

**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 networks

### **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 are presented

### **Efficient MPTCP-based Multipath Network Access for Connected Vehicles**

Imran Khan, 2020 Providing reliable and resilient network services to vehicles under fast mobility is a challenging aspect of designing next generation wireless network systems Exploiting Multipath TCP MPTCP to enable vehicles to use multiple wireless connections simultaneously denoted multipath network access is a promising solution to this challenge However the current design of MPTCP makes it susceptible to some major drawbacks when applied directly to improve the network performance of connected vehicles Particularly the fast dynamism of the characteristics e.g round trip time loss rate of wireless connections under vehicle mobility can significantly degrade the throughput This thesis aims to address the underlying reasons for such performance degradation and proposes a solution to overcome the challenges faced by connected vehicles We first analyze the reasons for the throughput degrading and verify them through in lab measurements We then model instances where MPTCP based multipath network access would perform worse than using the single path TCP over available wireless connections separately Based on the analysis we propose an efficient bandwidth aggregation scheme EBA that mitigates the performance drop of MPTCP under fast mobility scenarios by selectively duplicating packets over parallel access paths This scheme has been implemented in the Linux Kernel and tested extensively through simulated scenarios Experimental results reflect that EBA can effectively enhance the performance of MPTCP for connected vehicles

*TCP/IP Architecture, Design, and Implementation in Linux* Sameer Seth, M. Ajaykumar 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 Mobility* Radha Thothadri,1999 **Implementing DCCP in the Linux Kernel** Marek Zawadzki,2002 **TCP/IP and Linux Protocol Implementation** Jon Crowcroft,Iain Phillips,2002 A one of a 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

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