TCP/IP Architecture, Design and Implementation in Linux

By Sameer Seth, M. Ajaykumar Venkatesulu

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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

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Editorial Review

From the Back Cover
The only single-source reference on the concept and implementation of TCP/IP in Linux

As open source software becomes a trusted part of business and research systems, it's no wonder that a combination of the Transmission Control Protocol/Internet Protocol (TCP/IP) and the Linux operating system is becoming more common. TCP/IP's prevalence allows easy communication among computers using various operating systems, whether Windows, Mac OS, Linux, or Unix. And Linux—because it is open source and thus modifiable—has become a frequent choice for developers who want a customizable operating system on which to build their applications.

This book describes the design and implementation of TCP/IP in Linux, from simple client-server applications to more complex executions. Topical coverage includes:

- Basic socket concepts and implementations
- The Linux implementation of network packets
- TCP read/write
- TCP algorithms for data transmission and congestion control
- TCP timers
- IP layer and routing tables implementation
- IP forwarding and quality of service implementation
- Netfilter hooks for the stacks
- Network Soft IRQ
- How to debug a TCP/IP stack

All topics are discussed in a concise, step-by-step manner and the book is complemented with helpful illustrations to give readers a better understanding of the subject. *TCP/IP Architecture, Design, and Implementation in Linux* is an indispensable resource for embedded-network product developers, network security product developers, IT network architects, researchers, and graduate students.

About the Author
Sameer Seth works at Juniper Networks as Senior Staff Engineer for JUNOS Kernel Team. Previously, he was a senior engineer at Sun Microsystems, where he worked on the TCP/IP stack in Solaris, sockets, streams, NFS, and related kernel framework. He has ten years of experience working with Linux in research and commercial environments. He has also worked on embedded TCP/IP Linux stack as well as on X86 architectures. Additionally, he has worked on different communication protocols on Motorola MPC8260 processors. His community work includes blogging for opensolaris technology (blogs.sun.com/sameer) and he delivers technical talks on open solaris technology. In his spare time he enjoys writing and talking on technical topics related to networking and Unix.

M. Ajaykumar Venkatesulu is currently working on networking and naming services. He has seven years of experience with Linux networking and kernel in research and commercial environments. His areas of interest include Linux kernel, embedded systems, IP routing, and IP QoS.

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