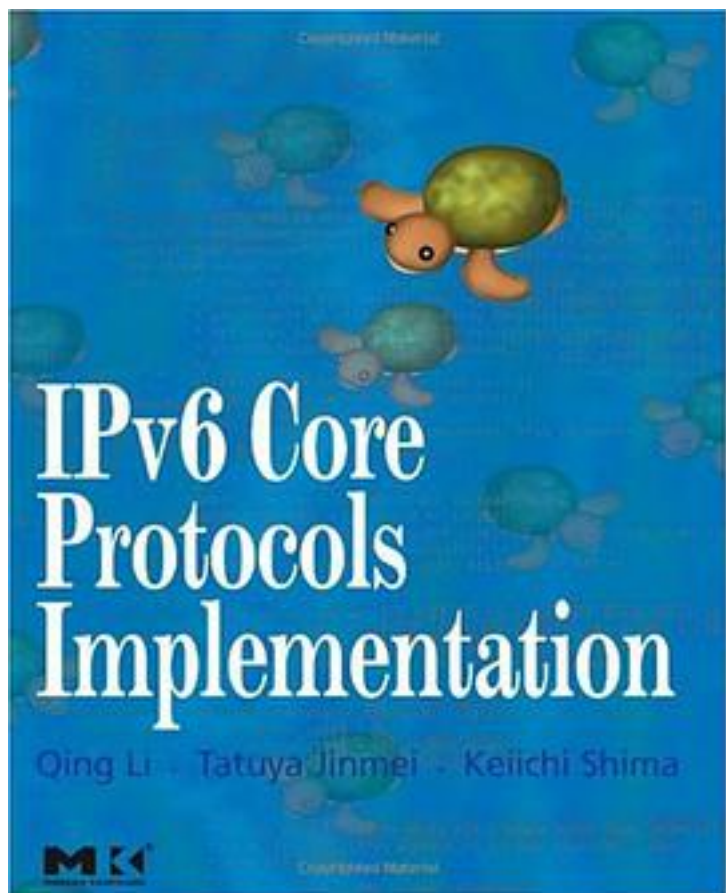


# IPv6 Core Protocols Implementation



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This is the authoritative reference text on KAME and IPv6! IPv6 was introduced in 1994 and has been in development at the IETF for over 10 years. It has now reached the deployment stage. KAME, the de-facto open-source reference implementation of the IPv6 standards, played a significant role in the acceptance and the adoption of the IPv6

technology. The adoption of KAME by key companies in a wide spectrum of commercial products is a testimonial to the success of the KAME project, which concluded not long ago. This book is the first and the only one of its kind, which reveals all of the details of the KAME IPv6 protocol stack, explaining exactly what every line of code does and why it was designed that way. Through the dissection of both the code and its design, the authors illustrate how IPv6 and its related protocols have been interpreted and implemented from the specifications. This reference will demystify those ambiguous areas in the standards, which are open to interpretation and problematic in deployment, and presents solutions offered by KAME in dealing with these implementation challenges. About the Authors: Qing Li is a senior architect at Blue Coat Systems, Inc. leading the design and development efforts of the next-generation IPv6 enabled secure proxy appliances. Qing holds multiple US patents. Qing is a contributing author of the book titled "Handbook of Networked and Embedded Control Systems" published in June 2005. He is the author of the embedded systems development book titled "Real-Time Concepts for Embedded Systems" published in April 2003. Tatuya Jinmei Ph.D. is a research scientist at Corporate Research & Development Center, Toshiba Corporation. He had been a core developer of the KAME project since the launch of the project through its conclusion. In 2003, he received the Ph.D. degree from Keio University, Japan, based on his work at KAME. Keiichi Shima is a senior researcher at Internet Initiative Japan Inc. He was a core developer of the KAME project from 2001 to the end of the project and developed Mobile IPv6/NEMO Basic Support protocol stack. He is now working on the new mobility stack (the SHISA stack) for BSD operating systems. "IPv6 Core Protocols Implementation" addresses with technical depth and clarity an IPv6 implementation on University California Berkeley Source Code Distribution (BSD), from the KAME project that was based in Japan, which is both a commercial and academic success in the world wide networking implementation market. The book begins with an overview of the KAME project and source code distribution, and then provides a concise, but thorough overview of the BSD network implementation. Then the book provides the architecture and an implementation code base component for IPv6 added to the current BSD TCP/IP Internet Protocol layer code base, the implications of the changes to the Transport Layer, and then provides a review of the BSD Socket Application Interface changes for IPv6. The authors did a very good job of representing the source code implementation and it was easy to read and comprehend, with discussion for each programmatic presentation of the code base functions and data structures. This book will be valuable to both networking architects and programmers that have to absorb and understand the implementation of IPv6 within the TCP/IP network implementation and reference model. The book was a pleasure to read and reminded me of the TCP/IP technical books by the late Dr. Richard Stevens, and afforded me the same technical depth. Covering a snapshot version of KAME dated April 2003 based on Free BSD 4.8, this title features: extensive line-by-line code listings with meticulous explanation of their rationale and use for the KAME snapshot implementation, which is generally applicable to most recent versions of the KAME IPv6 stack including those in recent releases of BSD variants; numerous diagrams and illustrations help in visualizing the implementation; in-depth discussion of the standards provides intrinsic understanding of the specifications; and, two CD-ROMs filled with the complete KAME IPv6 protocol stack and Free BSD software.

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