

<<IPv6详解>>

图书基本信息

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前言

Back in 1994 . when the IETF accepted the proposal that is known as IPv6 today , I was convinced from that moment , such a new fundamental protocol would be difficult if not impossible to be accepted , adopted and deployed by the networking community without a high quality open source reference implementation that is freely available . This conviction stems from my close involvement with the original TCP / IPv4 protocols and UC Berkeley ' s BSD implementation of these protocols . I have seen firsthand how the BSD implementation has made enormous contribution to the success of TCP / IPv4 , commonly known as the Internet protocols . We needed a new effort that played the same role for IPv6 . It was our turn to make a contribution to the world of the Internet from a developer ' s point of view , but at that time the economic impact of the Internet boom already made my colleagues at Berkeley too busy . I understood that we had a mission and so the IPv6 working group was born in the WIDE project for this purpose , which eventually evolved into the KAME project . One of the requirements demanded of the software to be developed by the KAME project , was to demonstrate how the IPv6 protocols work and how well the protocols operate in real environments—a difficult and challenging task , With the long and very patient help from all the supporters . the KAME project members fulfilled this goal with the diligence and perseverance . The KAME implementation was adopted by all major BSD variants as the de facto IPv6 implementation . And KAME is often referred to during IPv6 discussions at IETF meetings . I strongly believe the success of the KAME project played a significant role in the wide acceptance and the continued adoption of the IPv6 technology .

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内容概要

本书全面讲解IPv6及相关协议实现的事实标准KAME，揭示了KAME IPv6协议栈的所有细节，对每行代码到底做了什么，以及为什么要这样设计都进行了解释。

全书共分6章，分别介绍IPv6单播路由选择协议、IPv6多播技术、IPv6的DNS DHCPv6、移动IPv6、IPv6与IP安全。

书中每章都包含两个主要部分，第一部分是相关规范的综述，第二部分则逐行代码地描述和分析实际的实现。

本书是IPv6的权威参考书，适合网络设计和开发人员阅读。

此外，本书还适合作为高校相关专业网络课程的教学参考书。

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作者简介

Qing Li，系统公司资深架构师，负责领导下一代支持IPv6的安全代理应用系统的设计和开发工作。他曾在风河系统公司工作8年，是风河嵌入式IPv6产品的首席架构师：他拥有多项美国专利。并著有Real-Time Concepts for Embedded Systems等畅销书。他还是FreeBSD操作系统项目活跃的开发者的。

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媒体关注与评论

“ 阅读本书是一种享受，让我想起了RichardStevens的《TCPfIP详解》，本书的技术深度完全可以与之媲美， ” ——Jim Bound，北美IPv6工作组主席 “ 在IPv6时代，本书将取代Richard Stevens的《TCP / IP详解》一书。

我强烈推荐给所有程序员阅读： ” ——Junichiro Hagino . KAME项目核心开发者

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编辑推荐

IPv6的时代即将到来！

《IPv6详解.卷1:核心协议实现》由开源的IPv6标准参考实现KAME的核心开发人员撰写，沿袭了被奉为经典的Richard Steverls的《TCP / IP详解》的写作方式和风格，覆盖了IPv6技术的全部内容，是毋庸置疑的IPv6权威参考书。

书中详尽剖析了IPv6协议及其实现的技术细节，逐行诠释了KAME每一行代码的作用，并结合阐述了弥足珍贵的设计体会，对网络研究、设计和开发人员都有极高的参考价值。

全书分为两卷，第1卷介绍核心协议的实现。

第2卷主要介绍高级协议的实现。

《IPv6详解.卷1:核心协议实现》适合网络设计和开发人员阅读，对于下一代网络产品研发人员尤其具有参考价值。

Qin9 Li 8lue Coat系统公司资深架构师，负责领导下一代支持IPv6的安全代理应用系统的设计和开发工作：他曾在风河系统公司工作8年，是风河嵌入式IPv6产品的首席架构师：他拥有多项美国专利。并著有Real-Time Concepts for Embedded Systems等畅销书。

他还是FreeBSD操作系统项目活跃的开发人员：Tatuya Jinmei（神明达哉）东芝公司研究与开发中心的科学家。

KAME项目核心开发人员。

2003年在日本庆应义塾大学获得博士学位，Keiichi Shima（岛庆一）日本Internet Initiative公司的资深研究人员。

他的研究领域是IPv6和IPv6移动性。

KAME项目核心开发人员，开发了移动IPv6 / NEMO基本支持协议栈：现在正致力于BSD操作系统中新的移动栈（SHISA栈）的研究。

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