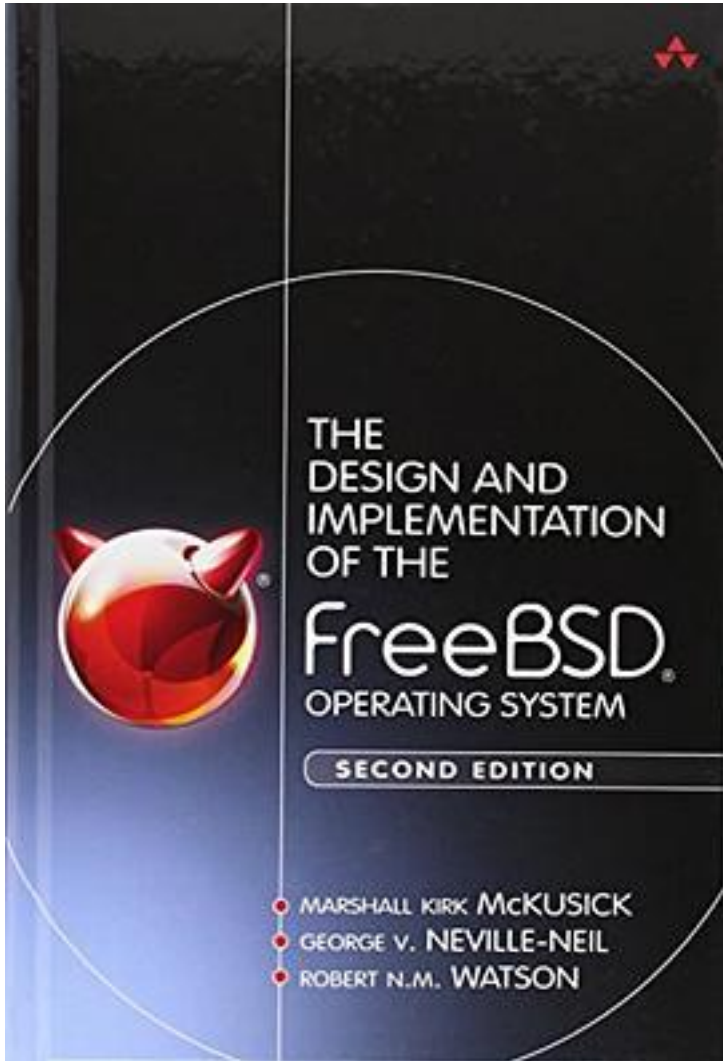


The Design and Implementation of the FreeBSD Operating System



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著者:Marshall Kirk McKusick

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As in earlier Addison-Wesley books on the UNIX-based BSD operating system, Kirk McKusick and George Neville-Neil deliver here the most comprehensive, up-to-date, and authoritative technical information on the internal structure of open source FreeBSD. Readers involved in technical and sales support can learn the capabilities and limitations of the system; applications developers can learn effectively and efficiently how to interface to the system; system administrators can learn how to maintain, tune, and configure the system; and systems programmers can learn how to extend, enhance, and interface to the system. The authors provide a concise overview of FreeBSD's design and implementation. Then, while explaining key design decisions, they detail the concepts, data structures, and algorithms used in implementing the systems facilities. As a result, readers can use this book as both a practical reference and an in-depth study of a contemporary, portable, open source operating system. This book: * Details the many performance improvements in the virtual memory system * Describes the new symmetric multiprocessor support * Includes new sections on threads and their scheduling * Introduces the new jail facility to ease the hosting of multiple domains * Updates information on networking and interprocess communication Already widely used for Internet services and firewalls, high-availability servers, and general timesharing systems, the lean quality of FreeBSD also suits the growing area of embedded systems. Unlike Linux, FreeBSD does not require users to publicize any changes they make to the source code.

作者介绍:

目录:

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标签

FreeBSD

OS

操作系统

Unix

计算机

计算机科学

BSD

软件开发

评论

匆匆翻过，涉及面很广，每个章节也写得很简单 如果不做freebsd
确实不是好的阅读选择

一本有趣的大杂烩，描述一个真的操作系统是怎么实现的，有漂亮的解决方案，也有无奈的妥协

我想这本书对于即使从来不用FreeBSD的人来说也是很有用的。

对于学习FreeBSD的人来说这本就是圣经 (2013)

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书评

BSD三兄弟中，FREEBSD是当之无愧的老大。这玩意只有搞操作系统的哥们看看。咱也是从linux正营策反过来的，鼓捣这玩意比linux有意思的多。（个人喜好而已，口下留情，不想打OS的口水仗）而在天朝BSD类的书奇缺，能看到这本已是万幸！大三那年，上操作系统的课，好好把书看了一...

我认为这本书的优点是： 1.很多地方解释了一些功能为什么要这样设计。

2.思路比较清晰

觉得结合《unix环境高级编程》和linux内核的一本书，参照着看，按照专题互相揣摩，既有理论层面的了解又有编程实践和内核对比（Freebsd和linux），我想收获会大一些吧。 ps：14年9月好像...

看下面链接给出消息，第二版有以下改进 • Explains highly scalable and lightweight virtualization using FreeBSD jails, and virtual-machine acceleration with Xen and Virtio device paravirtualization • Describes new security features such as Capsicum sandb...

the same book like as The Design and Implementation of the FreeBSD Operating System!

这本书有中文版，但是不推荐，翻译质量不好。

这本书没有讲具体的代码，而是分析了4.4

BSD内核的各个子系统的结构，因此对于初学OS的同学不太合适。但是对于已经理解基本概念的同学来说，这本书非常值得一看，仅凭虚拟内存(VM)首先在BSD上实现就不能错过本书。

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