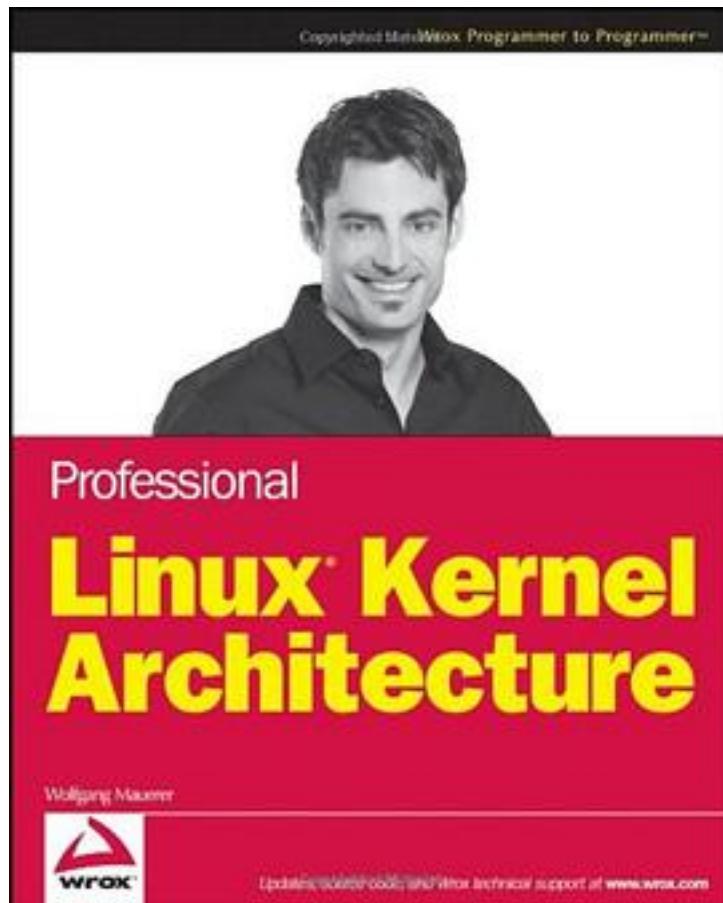


Professional Linux Kernel Architecture (Wrox Programmer to Programmer)



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著者:Wolfgang Mauerer

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Find an introduction to the architecture, concepts and algorithms of the Linux kernel in Professional Linux Kernel Architecture, a guide to the kernel sources and large number

of connections among subsystems. Find an introduction to the relevant structures and functions exported by the kernel to userland, understand the theoretical and conceptual aspects of the Linux kernel and Unix derivatives, and gain a deeper understanding of the kernel. Learn how to reduce the vast amount of information contained in the kernel sources and obtain the skills necessary to understand the kernel sources.

Professional Linux Kernel Architecture

As the Linux kernel constantly evolves, so must your understanding of the central functions of the kernel. Linux expert Wolfgang Mauerer focuses on version 2.6.24 (as well as summarizing changes to versions 2.6.25 and 2.6.26) of the kernel as he walks you through the concepts, underlying structures, and implementation of the Linux kernel. Keeping a close connection with the source code—as well as the components and subsystems of the kernel—this book reviews the VFS layer and discusses virtual filesystems and the Extended filesystem family and examines how the page and buffer cache speed up kernel operations.

You'll take a look at the peculiarities of various architectures supported by the kernel, explore the assorted tools and means of working efficiently with the kernel sources, and investigate the numerous social aspects of kernel development and the Linux kernel community. Ultimately, this insightful book will serve as an indispensable step towards understanding structure and implementation of the Linux kernel.

What you will learn from this book

- *Various ways of viewing the kernel—as an enhanced machine, a resource manager, and a library
- *How the kernel handles all time-related requirements, both with low and high resolution
- *The mechanisms required to ensure proper operation of the kernel on multiprocessor systems
- *How modules add new functionality to the kernel
- *How the kernel deals with memory management, page reclaim, and swapping
- *How the kernel deals with networks and implements TCP/IP

Who this book is for

This book is for system programmers, administrators, developers of Linux-based solutions, and overall Linux enthusiasts. A solid foundation of C programming is required.

作者介绍:

Wolfgang Mauerer is a quantum physicist whose professional interests are centered around quantum cryptography, quantum electrodynamics, and compilers for—you guessed it—quantum architectures. With the confirmed capacity of being the worst experimentalist in the known universe, he sticks to the theoretical side of his

profession, which is especially reassuring considering his constant fear of accidentally destroying the universe. Outside his research work, he is fascinated by operating systems, and for more than a decade — starting with an article series about the kernel in 1997 — he has found great pleasure in documenting and explaining Linux kernel internals. He is also the author of a book about typesetting with LaTeX and has written numerous articles that have been translated into seven languages in total.

When he's not submerged in vast Hilbert spaces or large quantities of source code, he tries to take the opposite direction, namely, upward — be this with model planes, a paraglider, or on foot with an ice axe in his hands: Mountains especially have the power to outrival even the Linux kernel. Consequently, he considers planning and accomplishing a first-ascent expedition to the vast arctic glaciers of east Greenland to be the really unique achievement in his life.

Being interested in everything that is fundamental, he is also the author of the first compiler for Plankalk „ul, the world's earliest high-level language devised in 1942–1946 by Konrad Zuse, the father of the computer. As an avid reader, he is proud that despite the two-digit number of computers present in his living room, the volume required for books still occupies a larger share.

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标签

kernel

Linux

Linux

操作系统

计算机

Unix/Linux

Kernel

Programming

评论

一定要先自己思考一下要学的内容,之后再读,否则很容易陷入书本中.

花了一个半月时间,对照着中文版纸书,啃完了这本书的电子版。十年前出版的书,很多代码在内核中已经过时,书中也有不少错误,但依然不影响它成为五星好书,内核中最关键部分的概念并不过时,而这本书把这些概念讲解得非常清晰,书中配图真是太好了。

感觉比understanding Linux kernel要好,言简意赅,架构非常清晰,适合入门。

比ULK讲的更加详细,内容也新点

个人感觉比《深入理解Linux内核》内容详细。

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书评

如果有人让我推荐linux内核书籍,我会首推这本,他既不像《深入理解Linux内核》那么枯燥,也不像《Linux内核设计与实现》泛泛而谈,这本书帮读者抓住内核代码中的核心内容,使读者不会陷入内核代码的泥潭之中。

这么好的一本书,我只看了其中几个章节:内存管理,进程调度,...

觉得是linux内核的一大作，坊间关于《深入理解linux内核》的传说，本人用自己的拙学是这么理解的。对于可以有较好的英文阅读能力的人，可以不用看毛德操的老师的书，后者已经完全可以替代了。注意现在比较的逻辑，并没有拿这本书去调戏《深入理解》，毕竟本人认为本书阅读时间...

正在读，感觉比《深入理解Linux内核》好，逻辑性强，和代码结合的好，详细。英文版上作者简介里面说沃尔夫冈（作者）是一位量子物理学家，怪不得呢。打算花几个月的时间好好读读，结合意大利人那本书，一起看看。

进入这行有几年了，对一些问题的理解一直不到位。
我是在2010年8月得到这本书的，受益匪浅，但是理解也是需要花时间的，我投入了很多精力在里面，效果不错！
PLKA是现在所能找到的同类中讲的最细的一本，而且感到逻辑性很强。

I've read many books on linux kernel before, however, this is an excellent book in such area.

任何一本linux内核的书籍，都不会是及时的没有缺陷的，代码是王道。
不过且留着看看吧，至少引起许多思考。（说我评论太短了，靠） 日期 时间 地点
配送记录 10年 12月 22日 07:20:04 AM 朝阳1(西坝河)010-84540970/18910039519
包裹在站 10年 12月 22日 04:13:54 AM 朝阳1(西...

很不错的一本书，刚读了100页
英文版本，大概用了1天的时间，从来没有感觉读书这么疲惫过，但的确有硬货在里面，估计慢慢品，才有味道。
其实学内核知识并不一定要去做内核，我觉得是一种参考和学习的过程，对以后开发其他东西都有帮助，而且要GIT Linux，时不时的看看都有什么...

两本都是讲解linux内核的非常优秀的书籍，但个人感觉二者侧重点不同。ULK侧重讲解linux内核的原理、机制，“深入Linux内核架构”描述了更多实现细节且书中使用的内核版本更新。读完ULK能够建立内核的全景图，“深入”一书则进一步完善了细节。二者都是学习内核的案头必备书，结...

如果仅仅是想要了内核的基本原理的话，没必要去挑选这么大部头的书去读，学过操作系统的可以去看看<>这本书这本书更适合那些想要知道操作系统底层如何和机器结合运作的人去读。结构更加清晰。如果看完内核注释的话在回过头来看这本书会觉得简单很多，因为...

第一次看被这个大砖头吓了一跳，但我从来没有退缩。这本书已经在我书架上两年了，我的确很走运遇到了这本书
他对于内核的关键概念还是解释的清清楚楚的，特别是内存和进程 内核活动 哪几部分
其余部分由于相对简单 所以可供参考的书还是很多
这本书关键是可以梳理平时学习的源...

里面的代码不是随便找的，而是将内核代码中的难以理解的部分和最最核心的代码部分提了出来。当你阅读源代码的时候，某些关键的函数你不知道是干什么用的，你可以从里面找到相关的说明，这些说明对于理解代码都是非常有益的。
不要说翻译的问题，当然你也可以读英...

Find an introduction to the architecture, concepts and algorithms of the Linux kernel in Professional Linux Kernel Architecture , a guide to the kernel sources and large number of connections among subsystems. Find an introduction to the relevant structure...

不能说力荐，因为这本书真的不是一般的难。这本书似乎故意跟其他书作对，一般书上讲的它几乎不讲，讲的几乎都是相当难的。对linux内核有一些功底了，看完了《linux内核设计与实现》之后，虽然没看懂，但是好歹有了基础，转看这本书的时候还是一口血喷了出来，太JB难了。《实...

rt; 前者像一个高分辨率的照相机，清晰，博大，但是缺乏“人情味”！！
后者，则非常循循善诱，且分析读代码人可能遇到的问题。。。。
前者像一个高分辨率的照相机，清晰，博大，但是缺乏“人情味”！！
后者，则非常循循善诱，且分析读代码人可能遇到的问题。。。。

首先，我不是托，听说网上最近托儿比较流行，但我不是。
这本书的翻译，怎么说呢，仔细琢磨一下，译者的确没有翻译错，但是阅读起来总让人感觉磕磕绊绊。
我阅读过LKD、ULK、LDD。翻译的质量上，大家都不相上下(LKD的确翻译的稍好点)。
内容上，这本书最好。以后我还是多看...

的确比我写得好 很不错的一本书 的确比我写得好 很不错的一本书确比我写得好
很不错的一本书 的确比我写得好 很不错的一本书确比我写得好 很不错的一本书
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