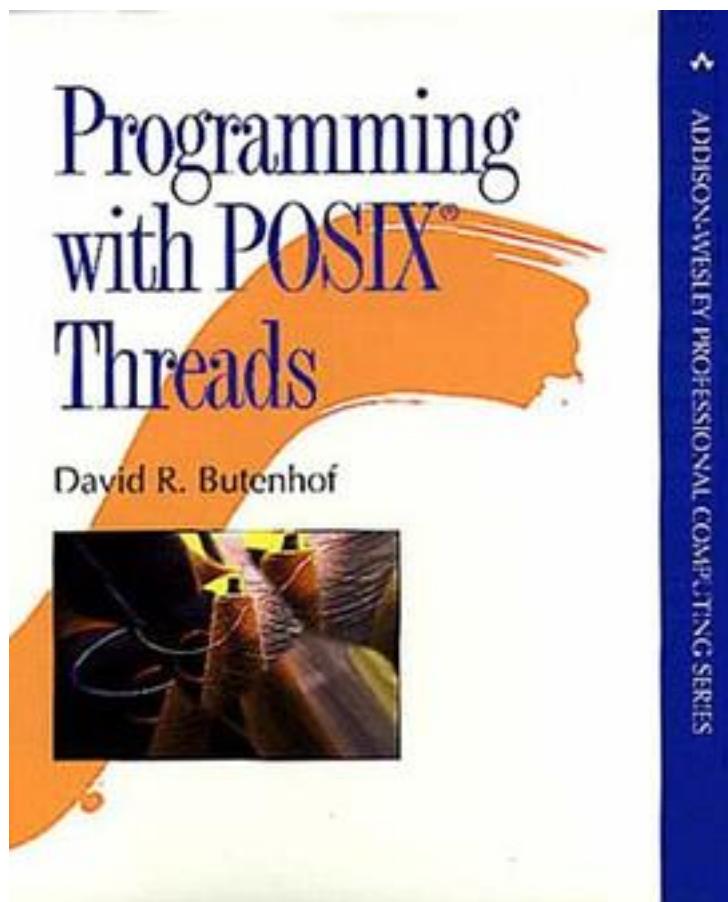


# Programming with POSIX® Threads



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著者:David R. Butenhof

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With this practical book, you will attain a solid understanding of threads and will discover how to put this powerful mode of programming to work in real-world applications. The primary advantage of threaded programming is that it enables your applications to accomplish more than one task at the same time by using the

number-crunching power of multiprocessor parallelism and by automatically exploiting I/O concurrency in your code, even on a single processor machine. The result: applications that are faster, more responsive to users, and often easier to maintain. Threaded programming is particularly well suited to network programming where it helps alleviate the bottleneck of slow network I/O. This book offers an in-depth description of the IEEE operating system interface standard, POSIXAE (Portable Operating System Interface) threads, commonly called Pthreads. Written for experienced C programmers, but assuming no previous knowledge of threads, the book explains basic concepts such as asynchronous programming, the lifecycle of a thread, and synchronization. You then move to more advanced topics such as attributes objects, thread-specific data, and realtime scheduling. An entire chapter is devoted to "real code," with a look at barriers, read/write locks, the work queue manager, and how to utilize existing libraries. In addition, the book tackles one of the thorniest problems faced by thread programmers—debugging—with valuable suggestions on how to avoid code errors and performance problems from the outset. Numerous annotated examples are used to illustrate real-world concepts. A Pthreads mini-reference and a look at future standardization are also included.

作者介绍:

David

R.Butenhof, 是一个公认的Pthreads权威人士, 深入参与过IEEE的POSIX标准和X/OPEN线程扩展的制订。作为DEC公司的工程师, 他还是Digital的线程体系的主要构架师和开发者, 在Digital UNIX 4.0上设计并实现了大量的Pthreads接口。

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标签

threads

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评论

字典式样的书，适合入门了解

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必读经典，可以参考web上的相关网站

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未读完，不作评。

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This book is informative and accurate, should be a must-read for pthread programmers. But there's one thing I don't like: too many implications. The author should spell his claims more loudly and explicitly.

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unp引荐的书，书中介绍了各种线程同步技术，及多线程使用场景举例。再结合《unp2》看，功效更好

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故事作为例子讲得挺好

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## 书评

POSIX多线程程序设计：总体上讲的不错，翻译有些地方不太通顺。代码还是挺多的，部分还是有难度的。但是书中对代码讲解的不够，必须自己多琢磨才能看明白。这本书线程部分的知识讲的很全面。四星评价也很符合

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