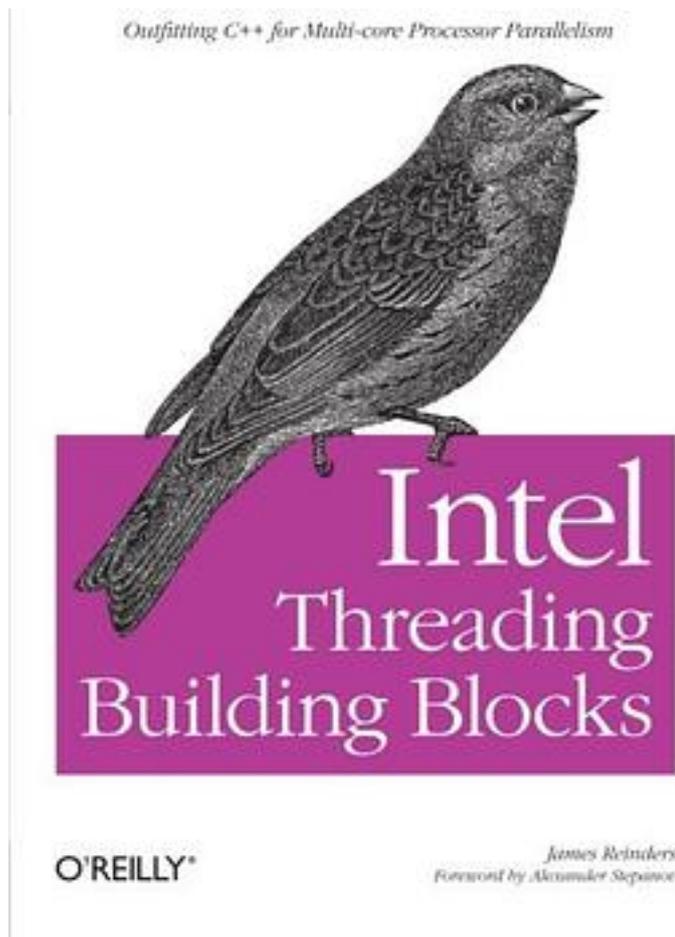# Intel Threading Building Blocks

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Multi-core chips from Intel and AMD offer a dramatic boost in speed and responsiveness, and plenty of opportunities for multiprocessing on ordinary desktop computers. But they also present a challenge: More than ever, multithreading is a

requirement for good performance. This guide explains how to maximize the benefits of these processors through a portable C++ library that works on Windows, Linux, Macintosh, and Unix systems. With it, you'll learn how to use Intel Threading Building Blocks (TBB) effectively for parallel programming -- without having to be a threading expert. Written by James Reinders, Chief Evangelist of Intel Software Products, and based on the experience of Intel's developers and customers, this book explains the key tasks in multithreading and how to accomplish them with TBB in a portable and robust manner. With plenty of examples and full reference material, the book lays out common patterns of uses, reveals the gotchas in TBB, and gives important guidelines for choosing among alternatives in order to get the best performance. You'll learn how Intel Threading Building Blocks: * Enables you to specify tasks instead of threads for better portability, easier programming, more understandable source code, and better performance and scalability in general * Focuses on the goal of parallelizing computationally intensive work to deliver high-level solutions * Is compatible with other threading packages, and doesn't force you to pick one package for your entire program * Emphasizes scalable, data-parallel programming, which allows program performance to increase as you add processors * Relies on generic programming, which enables you to write the best possible algorithms with the fewest constraints Any C++ programmer who wants to write an application to run on a multi-core system will benefit from this book. TBB is also very approachable for a C programmer or a C++ programmer without much experience with templates. Best of all, you don't need experience with parallel programming or multi-core processors to use this book.

作者介绍:

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标签

并行

计算机

Parallel.Computation

并行编程

TBB

并行程序设计

concurrent-programming

Intel

评论

比微软的那个库早，OpenMP的进化体，当然，最近早都流行APM
C++和GPU异构计算了，单机的多线程已经不够看了

这个库可用度太低

感觉是并行编程入门的好书

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书评

实际上做并行计算的人很少有用TBB的，但是TBB本身的设计还可以，可以供设计c++
库的同学参考参考。

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