



# Software Optimization Cookbook: High-Performance Recipes for the Intel Architecture

*Richard Gerber*

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Revealing the secrets of the software tuning process, *The Software Optimization Cookbook* provides recipes for high-performance applications on the Intel® Pentium® III and Pentium® 4 processors. Simple explanations and C language examples show you how to address performance issues with algorithms, memory access, branching, SIMD instructions, multiple threads, and floating-point calculations. With this book, you need not be a processor architect or assembly language expert to get the full power out of your software on the 32-bit Intel Architecture.

Learn how to:

- Use performance tools and tested concepts to analyze and improve applications.
- Determine which portions of an application should be given highest priority for optimizations.
- Identify the reasons that certain portions of your application are slower than they should be.
- Improve an application by working directly on the root cause of a software bottleneck.
- Design an application from the ground up for maximum performance.

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