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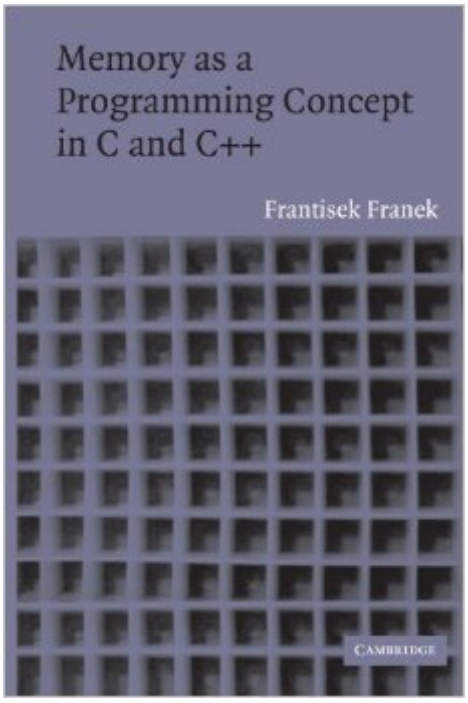
Memory As A Programming Concept In C And C++



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Synopsis

Assuming readers have a basic familiarity with C or C++, Frantisek Franek describes the techniques, methods and tools available to develop effective memory usage. The overwhelming majority of "bugs" and crashes in computer programming stem from problems of memory access, allocation, or deallocation. Such memory related errors are notoriously difficult to resolve. Moreover, the role that memory plays in C and C++ programming is a subject often overlooked in courses and in books. Most professional programmers learn about it entirely through actual experience of the problems it causes.

Book Information

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Customer Reviews

I agree with the other reviewers. In general this is good book. It bridges the gaps between many computer science disciplines. Especially OS and programming language. It also touched a little bit on computer architecture and linking process. The text was written in a a very clear way. However, I do have two complains. The author didn’t spend enough effort on the relatively more complex and advanced topics. Eg, linking process for C++, advanced topics in memory leakage detection and prevention. On the other hand, author spent too much energy describing linked data structure in terms of serialization. I personally don’t think its relevance is higher than the advanced memory leakage issues. For seasoned profressionals, this book can be used to refresh your knowledge. It is a beginner level to intermediate level book.

An older book that could be helpful to readers interested in this book is "Inside the C++ Object Model" by Stanley B. Lippman. It was written in 1996. It shows things such as the layout of C++'s organization of (pointers to) virtual and inherited methods.

This book was recommended to me by a colleague at work; I'm really glad I listened to his recommendation. While I've been programming in C/C++ since 1990 (other languages for two decades before then) I found the concepts/ideas put forward in this book to be very useful in improving my memory use habits. No matter how well you think you know memory management, you can learn something from this book. I only omit one star because some of the examples were not as clear as they could have been.

The viewpoint adopted by this book is an original one, while the insights range from the elementary to the very advanced. The material is well organized, the writing style is excellent, there are numerous examples and exercises. In a world dominated by C/C++ programming, it is a book that I think every professional programmer/computer scientist/software engineer could read with profit.

This book is far and away my favourite computer book. The author does very well at explaining memory concepts in C/C++ programs - concisely. The strength of this book is it makes clear all of those tricky questions that arise about pointers and more. Programming experts will likely know everything in this book, but everyone else should read it! Please ignore advice from other reviewers suggesting you can work all the concepts out for yourself. That's a sure way to remain confused and write buggy programs. I've owned this book for 7 years, and it well thumbed.

Some people have tremendous gifts for teaching and writing, I believe Franek is one of them, the content of the book is quite basic, but Franek's writing style and the way to ask tricky questions is way above average instructor/teacher, it simply taps your interest for more, another merit is the exercise of each chapter, all answers are published in author's website.

Excellent coverage of all the memory routines. Lucid explanation but could have added a few more illustrations. Nevertheless, a book that which must be read by all professional C & C++ programmers.

Gices great examples on how to use the memory but also describes the rationale behind it.

Recommended book for programmers.

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