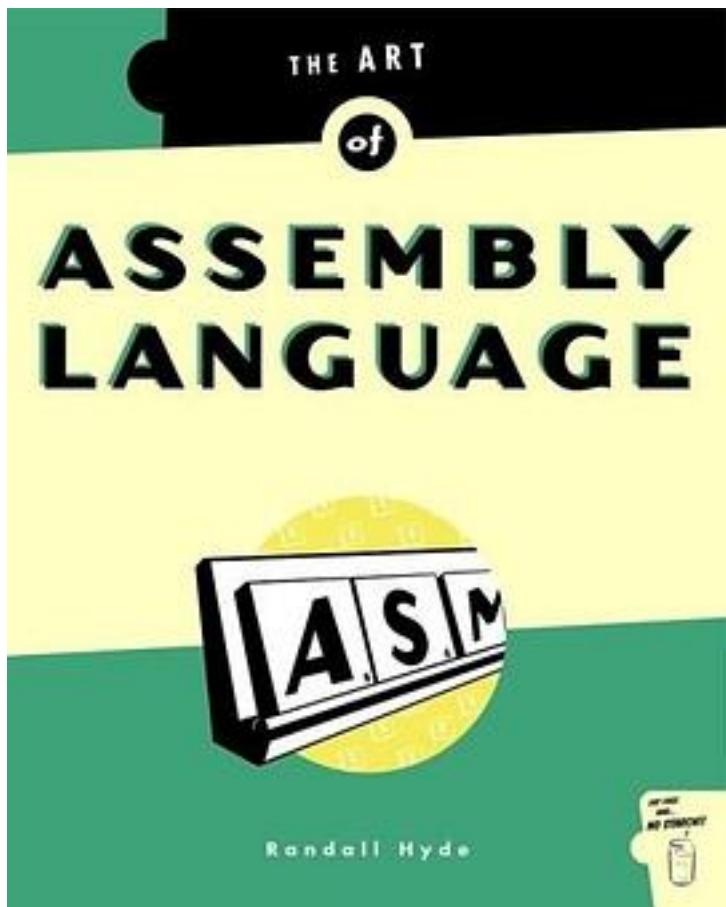


The Art of Assembly Language



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Assembly is a low-level programming language that's one step above a computer's native machine language. Although assembly language is commonly used for writing device drivers, emulators, and video games, many programmers find its somewhat unfriendly syntax intimidating to learn and use. Since 1996, Randall Hyde's *The Art of*

Assembly Language has provided a comprehensive, plain-English, and patient introduction to 32-bit x86 assembly for non-assembly programmers. Hyde's primary teaching tool, High Level Assembler (or HLA), incorporates many of the features found in high-level languages (like C, C++, and Java) to help you quickly grasp basic assembly concepts. HLA lets you write true low-level code while enjoying the benefits of high-level language programming. As you read *The Art of Assembly Language*, you'll learn the low-level theory fundamental to computer science and turn that understanding into real, functional code. You'll learn how to:

- * Edit, compile, and run an HLA program
- * Declare and use constants, scalar variables, pointers, arrays, structures, unions, and namespaces
- * Translate arithmetic expressions (integer and floating point)
- * Convert high-level control structures

This much anticipated second edition of *The Art of Assembly Language* has been updated to reflect recent changes to HLA and to support Linux, Mac OS X, and FreeBSD. Whether you're new to programming or you have experience with high-level languages, *The Art of Assembly Language*, 2nd Edition is your essential guide to learning this complex, low-level language.

作者介绍:

Randall Hyde (born 1956) is best known as the author of *The Art of Assembly Language*, a popular book on assembly language programming. He created the Lisa assembler in the late 1970s and developed the High Level Assembly (HLA) language. Randall Hyde was educated at, and became a lecturer at, the University of California at Riverside. He earned a bachelors degree in Computer Science in 1982, and a Masters degree in Computer Science in 1987 - both from UC Riverside. His area of specialization is compilers and other system software, and he has written compilers, assemblers, operating systems and control software. He was a lecturer at California State Polytechnic University, Pomona from 1988–93 and a lecturer at UC Riverside from 1989-2000. While teaching at UC-Riverside and Cal Poly, Pomona, Randy frequently taught classes pertaining to assembly programming (beginning and advanced),...

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标签

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评论

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书评

这本书应该叫汇编语言大全才对，1000多页(英文版)的大部头。我只是看了前三章。作者在前面对数据表示、存储器的结构和访问的说明很透彻，会让你感觉茅塞顿开。

写了很多年程序突然很困惑，我写的这个程序到底使用了多少CPU和内存？
操作系统是如何调用他的呢？大家常说的栈和堆到底指的是啥啊？
带着这些困惑，阅读了这边书
对于CPU到底是如何运作的，内存是如何使用的，有点明了。

现在我们学习汇编可不是想真正用汇编写出什么可以发布的程序，而是想学习计算机底层的原理。而此书中都是用高级汇编HLA来讲的，这就完全失去了学习汇编的意义，不能理解底层原理，不能理解底层原理，不能理解底层原理，不能理解底层原理，不能理解底层原理，不能理解底层原理，不能理解底层原理，...

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