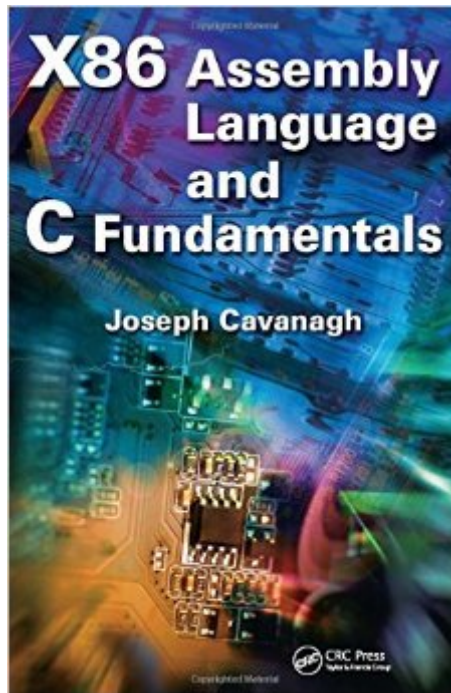


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# X86 Assembly Language And C Fundamentals



## Synopsis

The predominant language used in embedded microprocessors, assembly language lets you write programs that are typically faster and more compact than programs written in a high-level language and provide greater control over the program applications. Focusing on the languages used in X86 microprocessors, *X86 Assembly Language and C Fundamentals* explains how to write programs in the X86 assembly language, the C programming language, and X86 assembly language modules embedded in a C program. A wealth of program design examples, including the complete code and outputs, help you grasp the concepts more easily. Where needed, the book also details the theory behind the design. Learn the X86 Microprocessor Architecture and Commonly Used Instructions. Assembly language programming requires knowledge of number representations, as well as the architecture of the computer on which the language is being used. After covering the binary, octal, decimal, and hexadecimal number systems, the book presents the general architecture of the X86 microprocessor, individual addressing modes, stack operations, procedures, arrays, macros, and input/output operations. It highlights the most commonly used X86 assembly language instructions, including data transfer, branching and looping, logic, shift and rotate, and string instructions, as well as fixed-point, binary-coded decimal (BCD), and floating-point arithmetic instructions. *Get a Solid Foundation in a Language Commonly Used in Digital Hardware* Written for students in computer science and electrical, computer, and software engineering, the book assumes a basic background in C programming, digital logic design, and computer architecture. Designed as a tutorial, this comprehensive and self-contained text offers a solid foundation in assembly language for anyone working with the design of digital hardware.

## Book Information

Hardcover: 813 pages

Publisher: CRC Press (January 22, 2013)

Language: English

ISBN-10: 1466568240

ISBN-13: 978-1466568242

Product Dimensions: 7 x 1.7 x 10 inches

Shipping Weight: 3.4 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars [See all reviews](#) (3 customer reviews)

Best Sellers Rank: #1,146,824 in Books (See Top 100 in Books) #72 in [Books > Computers & Technology > Programming > Languages & Tools > Assembly Language Programming](#) #971

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#3870 inÂ Books > Textbooks > Computer Science > Programming Languages

## Customer Reviews

I found this book to be one of the best texts on the market for learning Assembly Language. I have read the books by the current two giants of Assembly Language instruction (Randall Hyde and Kip Irvine). This book is better than both of those texts. It is a big book 800+ pages but explains everything very clearly and has detailed answers to many questions in the back of the book. The two 'problems' I had with the book was that it does not provide a look inside for this text. This makes it difficult for someone to select the book as there is very little found about Professor Cavanagh's teaching methods via Google searches. The second issue is that the book is missing a link to locations from which one can download MASM, TASM, FASM or NASM (the assemblers that can be used with this book). One can always find this information via Google; but, it would have been nice to have it readily available in an appendix of the book.

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Great

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