



# 68000 Family Microprocessor

**James L. Antonakos**



## **68000 Family Microprocessor:**

**The Motorola MC68000 Microprocessor Family** Thomas L. Harman, Barbara Lawson, 1985 This revision introduces the characteristics of the Motorola 68000 family of processors

**Microcomputer Architecture and Programming** John F. Wakerly, 1981 Teaches General Principles of Computer Programming Using Seven Microprocessors as Examples

**The 68000 Microprocessor** Michael A. Miller, 1988

**The 68000 Microprocessor** Andrew M. Veronis, 2012-12-06 The Motorola MC68000 family of microprocessors is undoubtedly a revolutionary set of devices The MC68000 is the first advanced 16 bit microprocessor with a 32 bit internal architecture and the first with 16 megabyte nonsegmented direct memory addressing The processor's six basic addressing modes are equivalent to 14 when one considers all of the variations among these modes Combined with the device's data and instruction types the modes provide more than 1000 useful instructions The book you are about to study has been developed as an aid to the hardware designer and as a supplement to the Motorola seminars on the 68000 microprocessor The text includes a detailed description of the MC68000 and two complete systems that show how this processor can be interfaced to the outside world The book follows a top down approach A brief history of microprocessors is provided first Chapter 2 details the MC68000 by describing its registers control lines and capabilities Chapter 3 introduces a small MC68000 based system Although this system is characterized in the book as hypothetical it is indeed the Educational Computer Board used in the various Motorola seminars The addressing modes and instructions are explained in Chapter 4 which includes helpful hints on how instructions can be used Chapter 5 provides an in depth description of additional instructions and numerous examples Chapter 6 discusses exception handling and interrupts

**The M68000 Microprocessor Family** Yu-Cheng Liu, Youzheng Liu, 1991 In the past several years microprocessors have emerged as a major force in the computer industry and the Motorola MC68000 family is regarded as an industry standard The focus of this book is the Motorola MC68000 microprocessor family Many of the design practices and fundamental concepts can apply to other modern microprocessors as well This guide covers both the software and hardware of the M68000 family and is designed as a text for a one semester junior level microprocessor course that covers both programming and system design using the MC68000 microprocessor

The 68000 Microprocessor James L. Antonakos, 2004 Designed to demystify the Motorola 68000 microprocessor its hardware and software this detailed reference leads users on an in depth hands on exploration of more than 75 different applications and then guides them through the construction and programming of their own working single board 68000 system Chapter topics cover microprocessor based systems the 68000 microprocessor software details of the 68000 exception processing an introduction to data structures and programming the 68000 hardware details of the 68000 memory system design I/O system design advanced programming using 68000 peripherals building a working 68000 system an introduction to the advanced 680x0 series microprocessors and microcontrollers For programmers and microcomputer network technicians and engineers

The 68000 Microprocessor

James L. Antonakos,1993      **The Motorola Microprocessor Family** Barry B. Brey,1992      **The 68000 Microprocessor**  
I. Scott MacKenzie,1995      **The 68000 Microprocessor Family** Michael A. Miller,1992      MC68000 16-bit  
Microprocessor ,1982      **The Motorola MC68000 Microprocessor Family** Thomas L. Harman,David T. Hein,1996 ndice  
Introduction to the Motorola Microprocessors and Controllers Microcomputer and Microprocessor Characteristics  
Representation of Numbers and Characters Introduction to the M68000 Family MC68000 Assembly Language and Basic  
Instructions Data Transfer Program Control and Subroutines Arithmetic Operations Logical and Bit Operations Programming  
Techniques System Operation Exception Processing Interfacing and I O Programming System Design and Hardware  
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Appendix III Assembly Language Set Appendix IV Machine Language Characteristics of the MC68000 MC68008 and  
MC68010 Appendix V Comparison of 68000 Family Processors Answers to Selected Exercises Index      **The 68000 and**  
**68020 Microprocessors** Walter A. Triebel,Avtar Singh,1991 M CREATED      Programming and Designing with the 68000  
Family Tibet Mimar,1991 The purpose of this book is to provide a complete and in depth coverage of both hardware and  
software aspects of designing with the popular 68000 family of processors This book introduces the 68000 architecture and  
gives an overview and comprehensive comparison of the 68000 family of processors discusses the assembly language  
programming and discusses the hardware design using a 68000 family processor To fully employ the 68000 family of  
processors this book includes information about the family with numerous illustrations about the architecture concepts and th  
operation of instructions      **Assembly and Assemblers** G. W. Gorsline,1988      **68000 Microprocessor Handbook**  
William D. Cramer,Gerry Kane,1986      **Library of Congress Subject Headings** Library of Congress,Library of Congress.  
Subject Cataloging Division,Library of Congress. Office for Subject Cataloging Policy,2013      *Library of Congress Subject*  
*Headings* Library of Congress. Cataloging Policy and Support Office,2013      The M68000 Microprocessor Family Youzheng  
Liu,1991 Incorporating practical examples the text illustrates concepts and principles of assembly language programming  
and I O interface discusses a large variety of I O interfacing devices and LSI system components that support the M68000  
microprocessor family      **The M68000 Family: Applications and the M68000 devices** Werner Hilf,1990

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