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The Motorola 68000 ("sixty-eight-thousand"; also called the "Texas Cockroach", the m68k or Motorola 68k, "sixty-eight-kay") is a 16/32-bit CISC microprocessor, introduced in 1979 by Motorola Semiconductor Products Sector. The

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design implements a 32-bit instruction set, with 32-bit registers and a 32-bit internal data bus.

Motorola 68000 - Wikipedia

The Motorola 68000 series (also known as 680x0, m68000, m68k, or 68k) is a family of 32-bit CISC microprocessors.

During the 1980s and early 1990s, they were popular in personal

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computers and workstations and were the primary competitors of Intel 's x86 microprocessors.

Motorola 68000 series - Wikipedia

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

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applications and then guides them through the construction and programming of their own working single-board 68000 system.

The 68000 Microprocessor (5th Edition): Antonakos, James L ...

Motorola 68000 (MC68000) is the first member of 680x0 line of microprocessors. Internally the 68000 is a 32-bit microprocessor

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- it has 32-bit data and address registers.

Externally the processor has 16-bit data bus and 24-bit address bus, which limits the size of addressable memory to 16 MB.

Motorola 68000 microprocessor family - CPU World

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MOTOROLA 68000 INSTRUCTION SET Pdf Download | ManualsLib

The Motorola 68000 Instruction Set can directly access up to 16 Mbytes of memory with its 24-bit Address Bus. The memory space may be expanded to 64 Mbytes by using the function code lines (FC0-FC3).

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To interface 16 Mbytes of memory 68000 provides A1 to A23 (23) address lines along with UDS and LDS signals. The interface is shown in the Fig. 11.7.

Motorola 68000 Instruction Set | Memory Interface

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Pinouts - 68000 family - CPU-World: Microprocessor news

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The educational kit using a 32-bit computing power, the Motorola 68008 microprocessor. The design is simple with minimum components, however providing a large amount of memory space, 128kB RAM and 128kB ROM. The keyboard and hex display allow us to

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enter 68000 code to the memory and test run with single step and break point.

Build your own 68008 Microprocessor kit

4 The 68000's
Instruction Set
Application: To add to the contents of an address register and not update the CCR.
Note that ADDA.W D0,A0 is the same as
LEA (A0,D0.W),A0.

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Condition codes: X N Z
V C An ADDA operation
does not affect the
state of the CCR.
Source operand
addressing modes

The 68000's Instruction Set

©MOTOROLA INC.,
1993 M68000
8-/16-/32-Bit

Microprocessors User's
Manual μ Motorola
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μ MOTOROLA M68000

From the Publisher
Covers both the hardware and software aspects of the popular 68000 Microprocessor and its more enhanced versions--the 68020, 68030 and 68040. Students will also be introduced to common microprocessor interfacing techniques used in industry today.

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From the Back Cover

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Microprocessor:

MacKenzie, I. Scott:

9780023736544 ...

MOTOROLA INC., 1992

MOTOROLA M68000

FAMILY Programmer's

Reference Manual

(Includes CPU32

Instructions)

MOTOROLA - NXP

Semiconductors

Designed to demystify

the Motorola 68000

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microprocessor — its hardware and software — this text leads students 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.

**Antonakos, 68000
Microprocessor, The:
Hardware and ...**

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Microprocessor 5th edition

(9780130195616 ...

Covering both the hardware and software aspects of the popular 68000 microprocessor and its more enhanced versions - the 68020, the 68030, and 68040, this book introduces the common microprocessor interfacing techniques used in industry today.

The 68000
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Microprocessor by I. Scott MacKenzie

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.

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68000 Microprocessor / Edition 5 by James L. Antonakos ...

The Sega Mega Drive (Genesis in the U.S.) used a 68000 as its main processor. Its successor, the Saturn, used one as its sound processor. The Sequential Circuits Prophet VS, Ensoniq EPS, and several other synthesizers used the 68000 in the late 80's.

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The Atari Jaguar had a 68000 as the central CPU among many dedicated processors.

68000 Assembly - Wikibooks, open books for an open world

Designed to demystify the Motorola 68000 microprocessor — its hardware and software — this text leads students on an in-depth, hands-on exploration of more

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than 75 different applications and then guides them through the construction and programming of their own working single-board 68000 system.

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