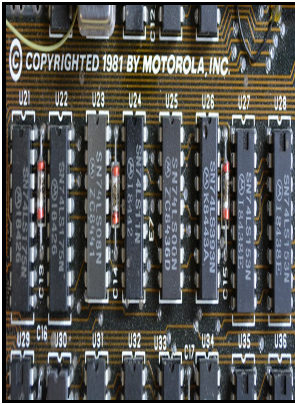# Computer organization and the MC68000

Prentice Hall - Chapter 3 Computer Organization

Description: -

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United States. Dept. of Commerce -- Officials and employees --
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Mosbacher, Robert Adam, 1927-
Talmud. Berakot -- Criticism, Textual
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Philosophy.
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Motorola 68000 (Microprocessor) -- Programming.
Assembler language (Computer program language)
Computer organization.Computer organization and the MC68000
-Computer organization and the MC68000
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The Motorola MC68000

Because it is made up of modules and is programmed, the microcoded circuit is more wasteful of transistors and therefore makes a larger circuit. Detection of a three-word looping instruction will put the microprocessor into a special mode.

Staff View: Computer organization and the MC68000 /

How will you specify the target bit? Therefore, 8- or 16-bit operations can be performed in a single pass through this unit; this takes 4 clock cycles. For each given operation instruction, interrupt condition, etc.

Motorola 68000

Simplicity of expression is a fundamental theme throughout the MC68000's instruction set: all similar operations should perform similarly in a number of respects. Encrypted variants of the 68000, being the Hitachi FD1089 and FD1094, store decryption keys for opcodes and opcode data in battery-backed memory and were used in certain Sega arcade systems including to prevent piracy and illegal bootleg games. This allows some relocation of the core address but still forces the programmer to check that the desired segment is loaded, and limits the range of any segment to only 64K bytes of memory.

[PDF] The MC68000: assembly language and systems programming

The subroutine then retrieves the parameters passed to it src and dst from the stack.

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