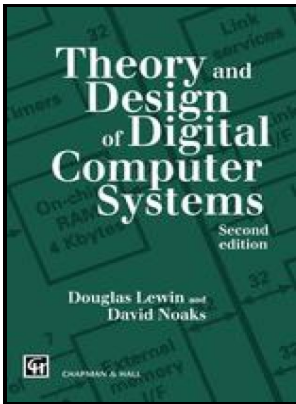# Computer organization and the MC68000

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L A7 +,D1 load low-order product Binary-Coded Decimal Arithmetic The final type of arithmetic instructions handles decimal digits. This month I'll describe the data-movement, arithmetic, and logic instructions of the MC68000.

Design Philosophy Behind Motorola's MC68000 (1)

The 68k and 8088 pushed other designs, like the and , into niche markets, and made Motorola a major player in the CPU space. Logic Instructions The MC68000 logic instructions are simple but powerful. The remaining blue text on the line is comment.

Design Philosophy Behind Motorola's MC68000 (2)

Simplicity of expression is a fundamental theme throughout the MC68000's instruction set: all similar operations should perform similarly in a number of respects. To have this operation modify the condition codes most of the time will foul up the data operation in progress, and so is undesirable.

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