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In subsequent chapters, we will cover in greater detail the interaction between the hardware and the software. 8051 Microcontroller Hardware The 8051 microcontroller actually includes a whole

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family of microcontrollers that have numbers ranging from 8031 to 8751 and are available in N-Channel Metal Oxide Silicon (NMOS) and Complementary Metal Oxide Silicon (CMOS) construction in a variety of package types.

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There are 6 total interrupts in 8051 microcontroller. First is Reset, two hardware external interrupt INT0 and INT1, two Timer interrupt TF0 and TF1 and last one is serial com interrupt that is for both receiver and transmitter.

hardware and software interrupt of 8051 microcontroller

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Atmel 8051 Microcontrollers Hardware Manual 1-1 Rev. 4316E-8051-01/07
Section 1 The 8051 Instruction Set The 8051 instruction set is optimized for 8-bit control applications. It provides a variety of fast addressing modes for accessing the internal RAM to facilitate byte operations on small data structures.

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and enhanced binary
compatiblederivatives remain popular
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Intel MCS-51 - Wikipedia

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