Moore's Law Timeline

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(môrz lâ) (n.) The observation made in 1965 by Gordon Moore, co-founder of Intel, that the number of transistors per square inch on integrated circuits had doubled every year since the integrated circuit was invented. Moore predicted that this trend would continue for the foreseeable future.
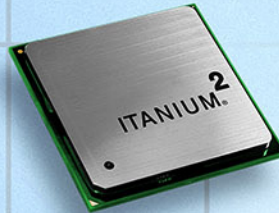
1,000,000,000 transistors

100,000,000 transistors

10,000,000 transistors

1,000,000 transistors

100,000 transistors

10,000 transistors

1,000 transistors

30 transistors

2004: Intel Itanium 2 processor (**9MB, 592 million transistors**)

2004: Intel introduces Pentium 4 processor with HT technology (**90nm, 125 million transistors**)

2002: Intel introduces Itanium 2 processor (**1.5 MB cache, 220 million transistors**)

2001: Intel introduces Intel® Itanium® processor (**25 million transistors**)

1999: Intel introduces Pentium III processor (**28 million transistors**)

2001: Intel introduces Pentium 4 processor (**42 million transistors**)

1993: Intel introduces Intel® Pentium® processor (**3.1 million transistors**)

1997: Intel introduces Pentium II processor (**7.5 million transistors**)

1995: Intel introduces Pentium Pro processor (**5.5 million transistors**)

1985: Intel introduces Intel386™ processor (**275,000 transistors**)

1989: Intel introduces Intel486™ processor (**1.2 million transistors**)

1982: Intel introduces 80286 processor (**134,000 transistors**)

1981: IBM* introduces the PC using the 8088 and ignites the trend of personal computing

1977: Apple* II personal computer introduced

1979: Intel introduces 8088 processor (**29,000 transistors**)

1975: Gordon Moore updated his prediction of the rate of growth of IC components from doubling every year to doubling every two years.
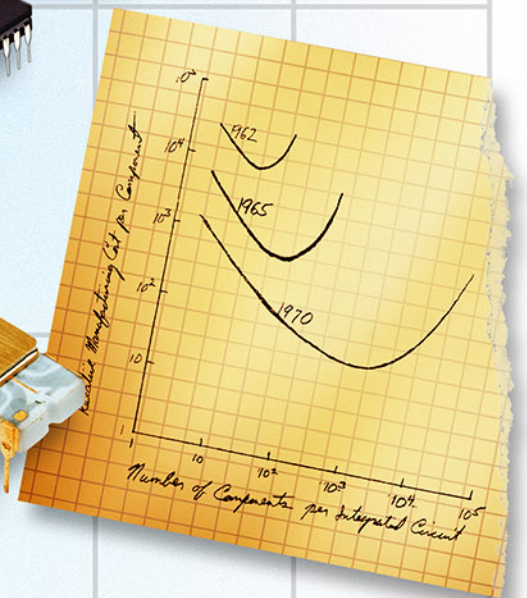
1968: Gordon Moore & Robert Noyce leave Fairchild* to form Intel Corp

1971: Intel's Tedd Hoff invents the first microprocessor (called the 4004, **2,300 transistors**)

1965: Gordon Moore authors paper predicting the rate of growth of IC components in Electronics magazine. His observation was later termed **"Moore's Law"**

1965 1970 1975 1980 1985 1990 1995 2000 2005

1959: Jack Kilby and Intel co-founder, Robert Noyce, Co-invent the integrated circuit

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