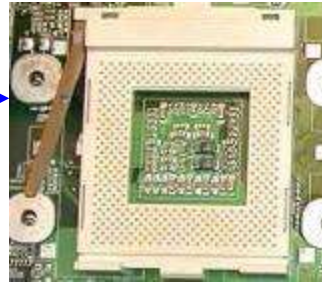


MICROPROCESSOR HISTORY

DIFFERENT PROCESSORS AVAILABLE

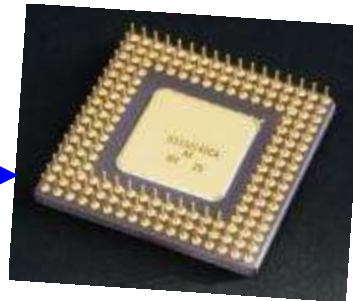
Socket



Pinless
Processor



Processor



Slot
Processor



Processor
Slot



Development of Intel Microprocessors

- **8086 - 1979**
- **286 - 1982**
- **386 - 1985**
- **486 - 1989**
- **Pentium - 1993**
- **Pentium Pro - 1995**
- **Pentium MMX -1997**
- **Pentium II - 1997**
- **Pentium II Celeron - 1998**
- **Pentium II Zeon - 1998**
- **Pentium III - 1999**
- **Pentium III Zeon - 1999**
- **Pentium IV - 2000**
- **Pentium IV Zeon - 2001**

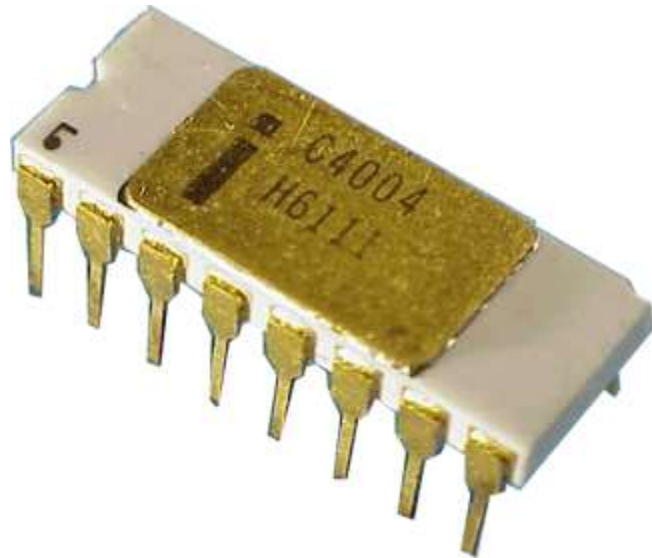
GENERATION OF PROCESSORS

Processor	Bits	Speed
8080	8	2 MHz
8086	16	4.5 – 10 MHz
8088	16	4.5 – 10 MHz
80286	16	10 – 20 MHz
80386	32	20 – 40 MHz
80486	32	40 – 133 MHz

GENERATION OF PROCESSORS

Processor	Bits	Speed
Pentium	32	60 – 233 MHz
Pentium Pro	32	150 – 200 MHz
Pentium II, Celeron , Xeon	32	233 – 450 MHz
Pentium III, Celeron , Xeon	32	450 MHz – 1.4 GHz
Pentium IV, Celeron , Xeon	32	1.3 GHz – 3.8 GHz
Itanium	64	800 MHz – 3.0 GHz

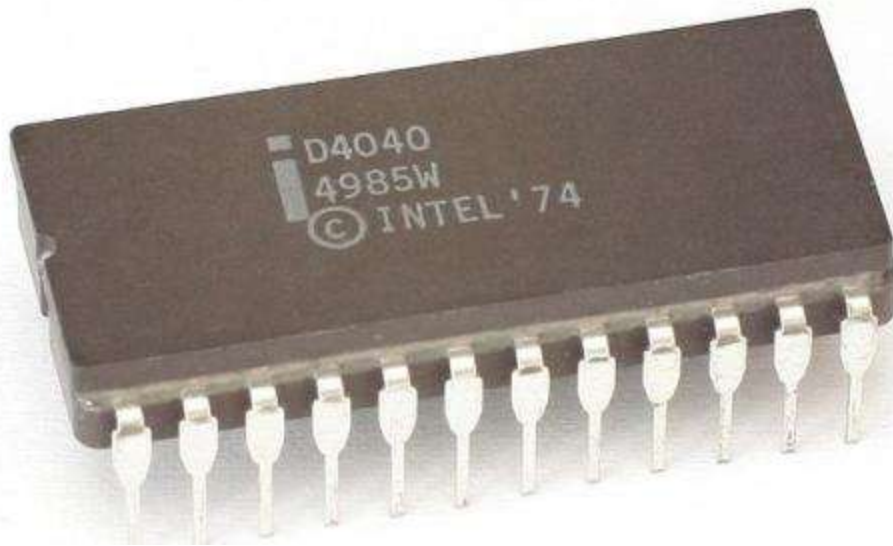
Intel 4004



- Introduced in 1971.
- It was the first microprocessor by Intel.
- It was a 4-bit μ P.
- Its clock speed was 740KHz.
- It had 2,300 transistors.
- It could execute around 60,000 instructions per second.

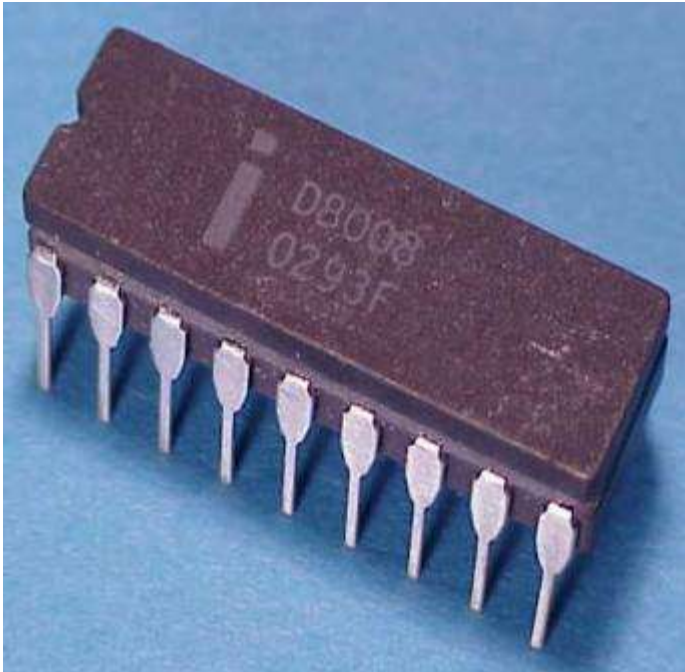
Intel 4040

- Introduced in 1971.
- It was also 4-bit μ P.



8-bit Microprocessors

Intel 8008



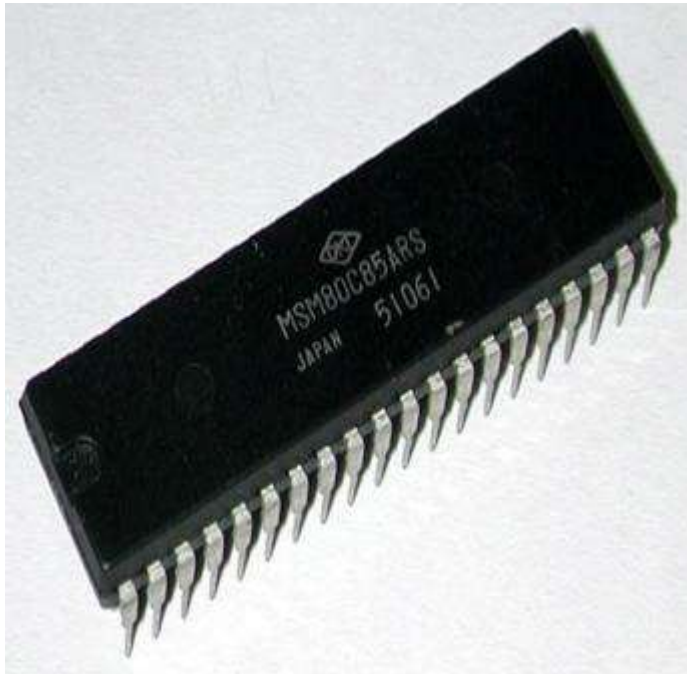
- Introduced in 1972.
- It was first 8-bit μ P.
- Its clock speed was 500 KHz.
- Could execute 50,000 instructions per second.

Intel 8080



- Introduced in 1974.
- It was also 8-bit μ P.
- Its clock speed was 2 MHz.
- It had 6,000 transistors.

Intel 8085

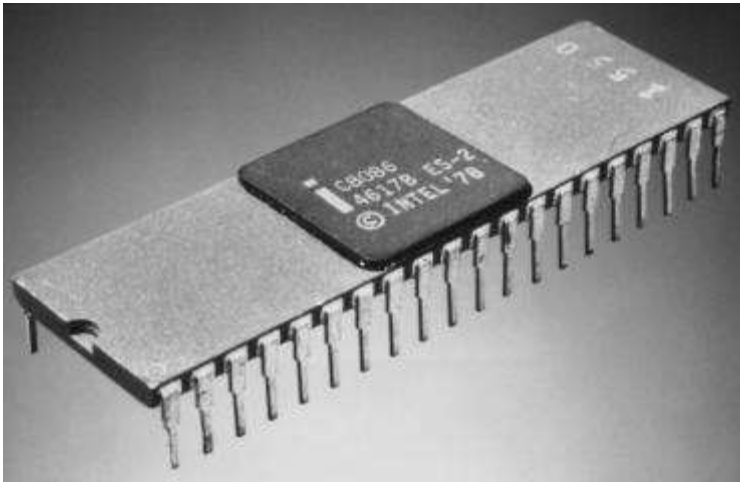


- Introduced in 1976.
- It was also 8-bit μ P.
- Its clock speed was 3 MHz.
- Its data bus is 8-bit and address bus is 16-bit.
- It had 6,500 transistors.
- Could execute 7,69,230 instructions per second.
- It could access 64 KB of memory.
- It had 246 instructions.

16-bit Microprocessors

Intel 8086

- Introduced in 1978.
- It was first 16-bit μ P.



- Its clock speed is 4.77 MHz, 8 MHz and 10 MHz, depending on the version.
- Its data bus is 16-bit and address bus is 20-bit.
- It had 29,000 transistors.
- Could execute 2.5 million instructions per second.
- It could access 1 MB of memory.
- It had 22,000 instructions.

- It had ***Multiply*** and ***Divide***