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# MICROPROCESSOR EVOLUTON AND TYPES

Evaluation of MP is divided into five Categories

→ **4 BIT MICROPROCESSOR** : INTEL 4004 in 1971 , P-MOS MP , M- 640 BYTE
(SPEED : 6000 operations/sec , No. of Transistor 2300, clock freq 750 KHz)
INTEL: 4040 advance version of 4004 by INTEL
PPS-4, T3472 by other companies

→ **8 BIT MICROPROCESSOR** (1972 - 1976)

Intel
1) 8008 → PMOS Tech. in 1972, No. of Transistors 3500, Memory 16KB, 200KHz
2) 8080 (1974) No. of Transistors : 6000, Memory 64kB, freq 2MHz
3) 8085 (1976) " : 6500, " 64KB, " 5MHz

Other : MC6800, Zilog , Z80 & Z800

→ **16 BIT MICROPROCESSOR** (1978 - 1982)

1) 8086 in 1978, No. of transistor 29000, Memory accessed 1MB, freq = 5MHz
2) 8088 in 1979, " 29000 " 1MB " " 8MHz
3) 80286 in 1982 " 1,24000, 16MB

# MICROPROCESSOR EVOLUTON AND TYPES

Evaluation of µP is divided into five Categories

→ **4 BIT MICROPROCESSOR** : INTEL 4004 in 1971 , P-MOS MP , M- 640 Byte
(SPEED : 6000 operations/sec , No. of Transistor 2300, clock freq 750 KHz)
INTEL: 4040 advance version of 4004 by INTEL
PPS-4, T3472 by other companies

→ **8 BIT MICROPROCESSOR** (1972 - 1976)

Intel
1) 8008 → PMOS Tech. in 1972, No. of Transistors 3500, Memory 16KB, 200KHz
2) [illegible]0 (1974) No. of Transistors : 6000, Memory 64KB, freq 2MHz
3) [illegible]5 (1976) " : 6500, " 64KB, " 5MHz

Other : MC6800, Zilog , Z80 & Z800

→ **16 B[illegible] MICROPROCESSOR** (1978 - 1982)

1) 808[illegible] 1978, No. [illegible] 29000, Memory accessed 1MB, freq = 5MHz
2) 808[illegible] 1979, [illegible]9000 " 1MB " " 8MHz
3) 8020 1982 [illegible]000, 16MB

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→ **8 BIT MICROPROCESSOR** (1972 - 1976)

Intel
1) 8008 → PMOS Tech. in 1972, No. of Transistors 3500, Memory 16KB , 200KHz
2) 8[illegible] (1974) No. of Transistors : 6000, Memory 64KB, freq 2MHz
3) 8[illegible] (1976) " : 6500, " 64KB, " 5MHz

other : MC6800, Zilog , Z80 & Z800

→ 16 Bit MICROPROCESSOR (1978 - 1982)

1) 8086 1978, No. of transistor 29000, Memory accessed 1MB, freq = 5MHz
2) 8088 1979, " 29000 " 1MB " " 8MHz
3) 80286 1982 " 24000, " 16MB

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Evaluation of MP is divided into five Categories

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Other : MC6800, [illegible], Z80 & Z800

→ **16 BIT MICROPROCESSOR** (19 1982)

1) 8086 in 1978, No. of [illegible]tor 29000, Memory accessed 1MB, freq = 5MHz
2) [illegible] in 1979, " 29000 " 1MB " " 8MHz
[illegible] in 198[illegible] " 1,24000, " 16MB

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PPS-4, T3472 by other companies

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Intel
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(SPEED : 6000 operations/sec, No. of Transistor 2300, clock freq 750 KHz)
INTEL: 4040 advance version of 4004 by INTEL
PPS-4, T3472 by other companies

(1972 - 1976)
No. of Transistors 3500, Memory 16KB, 200KH
in 1972,
: 6000, emory 64kB, freq 2MHz
: 6500 " 64KB, " 5MHz
000, Zilog, Z 2800

PROCESSOR (1978 - 1982)
of transistor 00, Memory accessed 1MB, freq 5MHz
" 1MB " " 8MHz
16MB

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3) 80286 in 1982 " 1,24000, " 16MB

freq : 16MHz