**INTEL 8085 VS 8086 Microprocessors**

**1.Size:-**  
 8085 is 8 bit microprocessor whereas 8086 is 16 bit microprocessor.

**2.Address Bus:-**  
8085 has 16 bit address bus and 8086 has 20 bit addres bus.

**3.Memory:-**  
8085 can access upto 2^16 = 64 Kb of memory whereas 8086 can access upto  
 2^20 = 1 MB of memory.

**4.Instruction Queue:-**  
8085 doesn't have an instruction queue whereas 8086 has instruction queue.

**5.Pipelining:-**  
8085 does not support pipelined architechture whereas 8086 supports pipelined architechture.

**6.Multiprocessing Support:-**  
8085 does not support multiprocessing support whereas 8086 supports.

**7.I/O:-**  
8085 can address 2^8 = 256 I/O's and 8086 can access 2^16 = 65,536 I/O's

**8.Airthmetic Support:-**  
8085 only supports integer and decimal whereas 8086 supports integer, decimal and ASCII arithmetic.

**9.Multiplication and Division:-**  
8085 doesn't support whereas 8086 supports.

**10. Operating Modes:-**  
8085 supports only single operating mode whereas 8086 operates in two modes.

**11.External Hardware:-**  
8085 requires less external hardware whereas 8086 requires more external hardware.

**12.Cost:-**  
The cost of 8085 is low and 8086 is high.

**13.Memory Segmentation:-**In 8085, memory space is not segmented but in 8086, memory space is segmented.

**14.Clock Speed:-**  
clock speed of 8085 microprocessor is 3 MHz whereas clock speed of 8086 microprocessor vary between 5,8 and 10 MHz for different versions.

**15.Flags:-**  
8085 has 5 flags & 8086 has 9 flags