

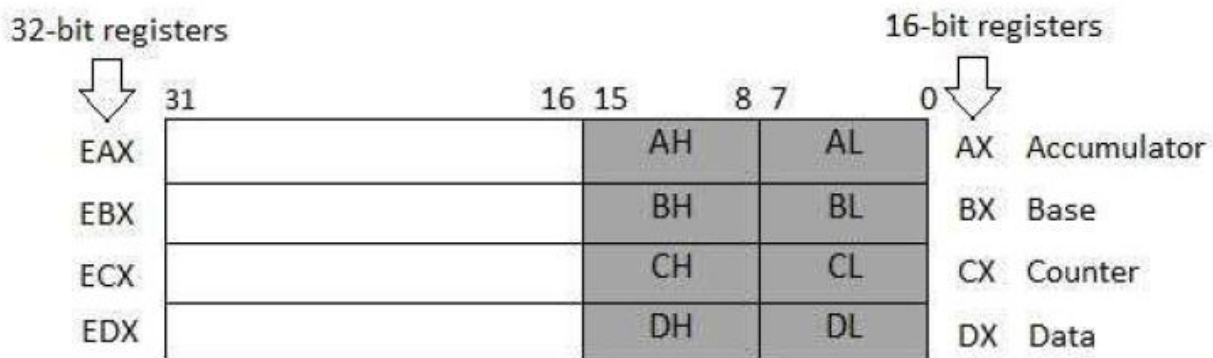
Registers

1. General registers
2. Control registers
3. Segment registers

General registers

1. Data registers
2. Pointer registers
3. Index registers

Data registers



Ax input/output and most arithmetic instructions

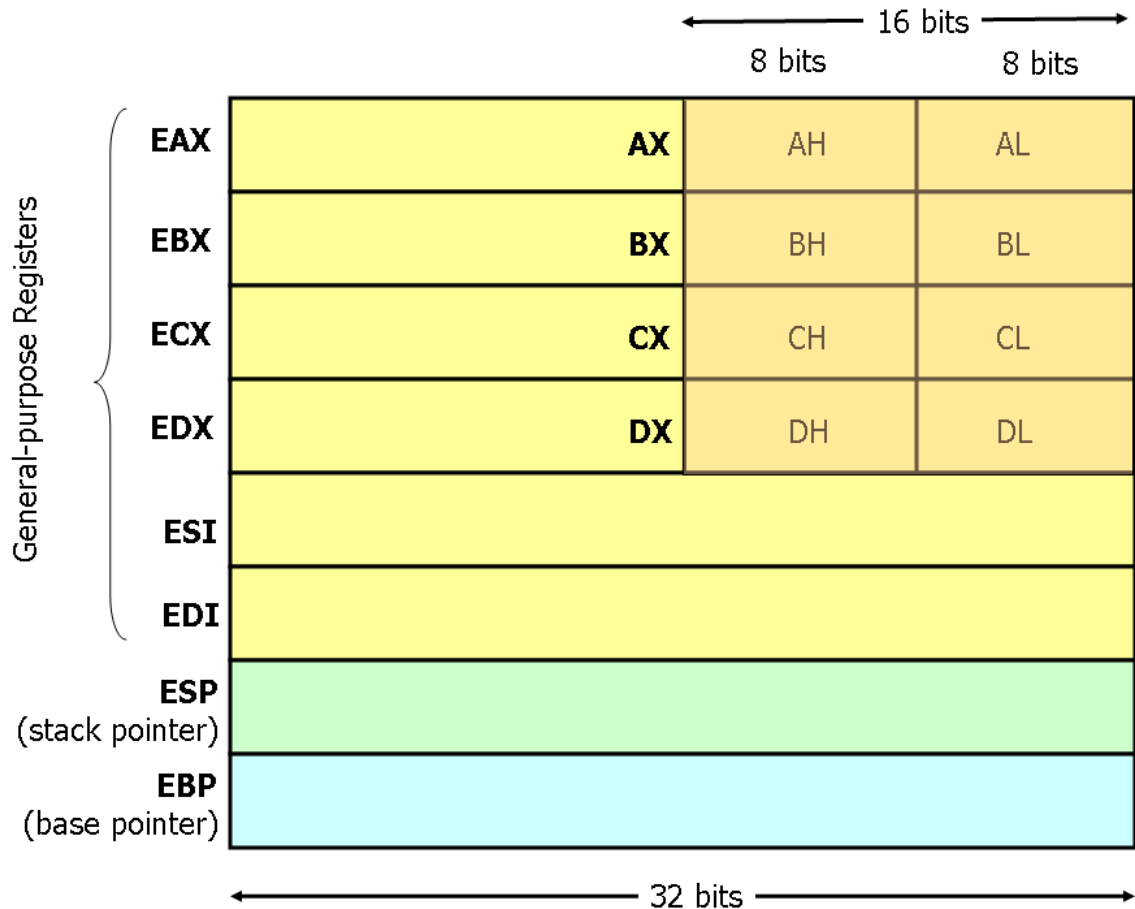
Bx indexed addressing

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<https://www.youtube.com/watch?v=6hkKb4hOZmQ&list=PLiceGnDCE4XZdGymw66QH3o1tp2JbXLGA>

Cx loop count in iterative operations

Dx multiply and divide operations involving large value It is also used with AX register



8 bit (AH, AL, BH, BL, CH, CL, DH, and DL.)

16 bit (AX, BX, CX and DX.)

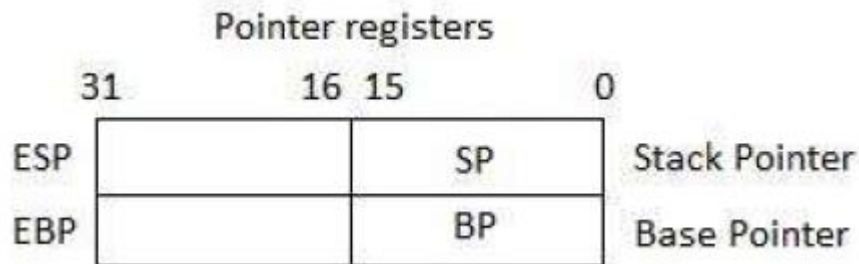
32bit (EAX, EBX, ECX, EDX.)

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Pointer registers

1. Instruction Pointer (IP) ; next instruction to be executed.
2. Stack Pointer (SP) ; current position of data or address
3. Base Pointer (BP) ; referencing the parameter variables passed to a subroutine

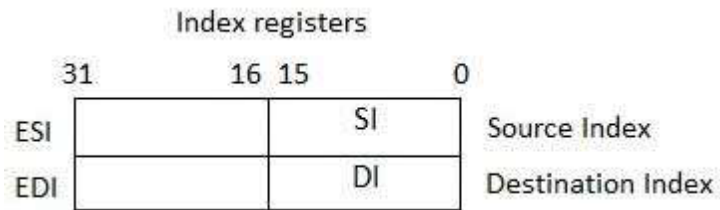


Index registers

1. **Source Index (SI)** - source index for string operations
2. **Destination Index (DI)** - destination index for string operations.

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1. Pointer registers
3. Index registers

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