

# Summary

Type	Instruction	Source	Address Generation	Destination
Register	MOV AX,BX	Register BX		Register AX
Immediate	MOV CH,3AH	Data 3AH		Register CH
Direct	MOV [1234H],AX	Register AX	$DS \times 10H + DISP$ 10000H + 1234H	Memory address 11234H
Register indirect	MOV [BX],CL	Register CL	$DS \times 10H + BX$ 10000H + 0300H	Memory address 10300H
Base-plus-index	MOV [BX+SI],BP	Register SP	$DS \times 10H + BX + SI$ 10000H + 0300H + 0200H	Memory address 10500H
Register relative	MOV CL,[BX+4]	Memory address 10304H	$DS \times 10H + BX + 4$ 10000H + 0300H + 4	Register CL
Base relative-plus-index	MOV ARRAY[BX+SI],DX	Register DX	$DS \times 10H + ARRAY + BX + SI$ 10000H + 1000H + 0300H + 0200H	Memory address 11500H
Scaled index	MOV [EBX+2×ESI],AX	Register AX	$DS \times 10H + EBX + 2 \times ESI$ 10000H + 00000300H + 00000400H	Memory address 10700H

Notes: EBX = 00000300H, ESI = 00000200H, ARRAY = 1000H, and DS = 1000H