

Complete 8086 instruction set

Quick reference:

	CMPSB	JAE	JNBE	JPO	MOV	RCR	SCASB
AAA	CMPSW	JB	JNC	JS	MOVSB	REP	SCASW
AAD	CWD	JBE	JNE	JZ	MOVSW	REPE	SHL
AAM	DAA	JC	JNG	LAHF	MUL	REPNE	SHR
AAS	DAS	JCXZ	JNGE	LDS	NEG	REPNZ	STC
ADC	DEC			LEA	NOP	REPZ	STD
ADD	DIV	JE	JNL	LES	NOT	RET	STI
AND	HLT	JG	JNLE	LODSB	OR	RETF	STOSB
CALL	IDIV	JGE	JNO	LODSW	OUT	ROL	STOSW
CBW	IMUL	JL	JNP	LOOP	POP	ROR	SUB
CLC	IN	JLE	JNS	LOOPE	POPA	SAHF	TEST
CLD	INC	JMP	JNZ	LOOPNE	POPF	SAL	XCHG
CLI	INT	JNA	JO	LOOPNZ	PUSH	SAR	XLATB
CMC	INTO	JNAE	JP	LOOPZ	PUSHA	SBB	XOR
CMP	IRET	JNB	JPE		PUSHF		
		JA			RCL		

Operand types:

REG: AX, BX, CX, DX, AH, AL, BL, BH, CH, CL, DH, DL, DI, SI, BP, SP.

SREG: DS, ES, SS, and only as second operand: CS.

memory: [BX], [BX+SI+7], variable, etc... (see [Memory Access](#)).

immediate: 5, -24, 3Fh, 10001101b, etc...

Notes:

- When two operands are required for an instruction they are separated by comma. For example:

REG, memory

- When there are two operands, both operands must have the same size (except shift and rotate instructions). For example:

AL, DL

DX, AX

m1 DB ?

AL, m1

m2 DW ?

AX, m2