

8086 INSTRUCTION SET

OPCODE	DESCRIPTION	OPCODE	DESCRIPTION	OPCODE	DESCRIPTION
AAA	ASCII adjust addition	JNAE	label Jump if not above or equal	POPF	Push flags onto stack
AAD	ASCII adjust division	JNB	label Jump if not below	ROL	dr,es: Push left through carry
AMM	ASCII adjust multiply	JNBE	label Jump if below or equal	ROR	dr,es: Push right through carry
ASM	ASCII adjust subtraction	JNC	label Jump if no carry	REP	Repeat string operation
ADC	dr,es Add with carry	JNE	label Jump if not equal	REPE	Repeat while equal
ADD	dr,es Add	JNG	label Jump if not greater	REPZ	Repeat while zero
AND	dr,es Logical AND	JNGE	label Jump if not greater or equal	REPNE	Repeat while not zero
CALL	proc Call a procedure	JNL	label Jump if not less	REPNZ	Repeat while not zero
CBW	Convert byte to word	JNLE	label Jump if not less or equal	RET	(pop) Return from procedure
CLC	Clear carry flag	JNO	label Jump if not overflow	ROL	dr,es: Rotate left
CLD	Clear direction flag	JNP	label Jump if not parity	ROR	dr,es: Rotate right
CLI	Clear interrupt flag	JNS	label Jump if not sign	STC	Store All into flags
CMC	Complement carry flag	JPO	label Jump if overflow	SHL	dr,es: Shift arithmetic left
CMF	dr,es Compare	JPE	label Jump if parity odd	SHL	dr,es: Shift logical left
CMPS	[dr,es] Compare string	JPS	label Jump if parity even	SHR	dr,es: Shift arithmetic right
CMPSB	- bytes	JSC	label Jump if sign	SUB	dr,es: Subtract with borrow
CMPSW	- words	JZ	label Jump if zero	SCAS	(dr) Scan string
CWD	Convert word to double word	LAHF	Load AH from flags	SCASB	- byte
DAA	Decimal adjust addition	LDS	dr,es Load pointer using DS	SCASW	- word
DAS	Decimal adjust subtraction	LEA	dr,es Load effective address	SHR	dr,es: Shift logical right
DEC	dt Decrement	LGS	dr,es Load pointer using GS	STC	Set carry flag
DIV	es Unsigned divide	LOCK	Lock bus	STD	Set direction flag
ESC	code,es Escape	LODS [es]	Load string	STI	Set interrupt flag
HLT	Halt	LODSB	- bytes	STOS	(dt) Store string
IDIV	es Integer divide	LODSW	- words	STOVB	- byte
IMUL	es Integer multiply	LOOP	label Loop	STOVM	- word
IN	es,port Input from port	LOOPB	label Loop if equal	SUB	dr,es Subtraction
INC	dt Increment	LOOPD	label Loop if zero	TEST	dr,es Test (logical AND)
INT	Type Interrupt	LOOPNE	label Loop if not equal	WAIT	Wait for interrupt
INTO	Interrupt if overflow	LOOPNZ	label Loop if not zero	XCHG	dr,es Exchange
IRET	Return from interrupt	MOV	dr,es Move	XLAT	Table Translate
JA	label Jump if above	MOV	(dr,es) Move string	XLATB	-
JAE	label Jump if above or equal	MOV	- bytes	XOR	dr,es Logical exclusive OR
JB	label Jump if below	MOV	- words		
JBE	label Jump if below or equal	MUL	es Unsigned multiply		
JC	label Jump if carry	MOD	dr Negate		
JCXZ	label Jump if CX is zero	MOP	No operation		
JE	label Jump if equal	NOT	dr Logical NOT		
JG	label Jump if greater	OR	dr,es Logical OR		
JGE	label Jump if greater or equal	OUT	port,es Output to port		
JL	label Jump if less	POP	dr Pop word off stack		
JLE	label Jump if less or equal	POPF	dr Pop flags off stack		
JNP	label Jump	POPF	dr Push word onto stack		
JNA	label Jump if not above	POPM	es Push flags onto stack		

Notes:

dt - destination

es - source

label - may be near or far address

label - base address

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A.K. Gautam

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Table of Contents 8086 Instruction Set Machine Code

1. Understanding the eBook 8086 Instruction Set Machine Code
 - The Rise of Digital Reading 8086 Instruction Set Machine Code
 - Advantages of eBooks Over Traditional Books
2. Identifying 8086 Instruction Set Machine Code
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 8086 Instruction Set Machine Code
 - User-Friendly Interface
4. Exploring eBook Recommendations from 8086 Instruction Set Machine Code
 - Personalized Recommendations
 - 8086 Instruction Set Machine Code User Reviews and Ratings
 - 8086 Instruction Set Machine Code and Bestseller Lists
5. Accessing 8086 Instruction Set Machine Code Free and Paid eBooks

- 8086 Instruction Set Machine Code Public Domain eBooks
- 8086 Instruction Set Machine Code eBook Subscription Services
- 8086 Instruction Set Machine Code Budget-Friendly Options

6. Navigating 8086 Instruction Set Machine Code eBook Formats

- ePUB, PDF, MOBI, and More
- 8086 Instruction Set Machine Code Compatibility with Devices
- 8086 Instruction Set Machine Code Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of 8086 Instruction Set Machine Code
- Highlighting and Note-Taking 8086 Instruction Set Machine Code
- Interactive Elements 8086 Instruction Set Machine Code

8. Staying Engaged with 8086 Instruction Set Machine Code

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers 8086 Instruction Set Machine Code

9. Balancing eBooks and Physical Books 8086 Instruction Set Machine Code

- Benefits of a Digital Library
- Creating a Diverse Reading Collection 8086 Instruction Set Machine Code

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine 8086 Instruction Set Machine Code

- Setting Reading Goals 8086 Instruction Set Machine Code
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of 8086 Instruction Set Machine Code

- Fact-Checking eBook Content of 8086 Instruction Set Machine Code
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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