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## H-8 O DIGITAL COMPUTER

				711111							1		_		:		
Exchange top of stack, I a F	>	Load immediate stack pointer	LXI SP	DARITY	1		= P, C				S, Z	<u>အ</u> ။				200	77
A Probable to the track to the	<b>Y</b> TU!	Load immediate register	LXI H	CARRY			  0 	თ <u>-</u>	(		o i			1	0	000	NCE 111
Exclusive Or immediate with	XRI	Pair D & E		SIGN	П		0		O (		-	<u>.</u> (		340	7.0X	140	04K
Exclusive Or memory with A Exclusive Or register with A	XRA M	Pair B & C Load immediate register	LXID	AUX CARRY			  0   O		O	0 = <u>AC</u>	SZ	0 =		300	485	100	욧 :
Registers	•	Load immediate register	LXI B			C	_	70	AC 0	0	Ζ	S		240	405	040	82
Exchange D & E, H & L	XCHG	Load H & L direct	LYXX			D <sub>o</sub>	D <sub>1</sub>	D <sub>2</sub>	D <sub>4</sub> D <sub>3</sub>	D <sub>5</sub>	D <sub>6</sub>	D <sub>7</sub>		OCTAL	DEC	OCTAL	DEC
Subtract register from A	SUBr	Load A indirect	LDAX B				GIOIRD	2	FRAG					CNU	T DECCAS	MEMONT	
Subtract memory from A	SUB M	Load A direct	LDA			-	П		-					2			
Set carry	STC	Jump on zero	ZZ											ected	Flags Afi	*Only Carry Flags Affected	**
Store A indirect	STAXD	Jump on parity odd	JPO										ed	y Affect	ept Carr	*All Flags Except Carry Affected	* A11
Store A direct	STAX B	Jump on positive	ה ל ח	byte)	each + indicates an extra instruction byte)	extra in:	ites an	+ indice	(each			ected	lags Af	es No F	Code Indicates No Flags Affected	k Op Cod	Blac
H & L to stack pointer	SPHL	Jump on no zero	ZNZ									ted	is affec	s all flag	Code indicates all flags affected	Red Op Code	Red
Store H & L direct	SHLD	Jump on no carry	JNC														
with borrow		Jump unconditional	JMP			CP +		1	+ +	CM			+ + ML		SPHI	RM	37 R
Subtract immediate from A	SBI	Jump on minus	M	RST 6		ORI +	PSW	PUSH		CP :				PSW	POP	RP	
with borrow		Jump on carry	JC			XRI +		I ;		CPE	XCHG	7			PCH	RPE (	
Subtract register from A	S B B F	Increment stack pointer	NX SP				I	PUSH		CPC			O	I	POP	PO	
with borrow	M	Increment D & E registers						1		CC				1	1	RC :	
Return on zero	RZ	Increment B & C registers	NX B				0	PUSH		CNC	+ TUO			0	POP	RNC	32 B
Restart	RST	Increment register	INR	RST 1		ACI +	+	CALL		CZ			JZ ++	,	RET	BZ	
Rotate A right	RRC	Increment memory	NR M	RST 0		ADI +	00	PUSH	+	CNZ	JMP ++		+ + ZNL	00	POP	BNZ	
Return on parity odd	RPO	Input	Z							311		,	1				
Return on parity even	RPE	Halt	HLT.	7		စ		Si		4		ω	N		_		0
Beturn on no zero	BRA	Enable Interrupt	<u> </u>														
Return on no carry	N C	Dischio Internation	DCX SP	CMP		_	_	CMP		CMP		0		0	CMP	CMPB	27
Return on minus	2 3	Decrement H & L	DCX EB	ORA A			_	ORA		ORA	-		-	0	ORA		
Hotate A left	REC	Decrement D & E	DCX E	XRA A			_	XRA		XRA				0	XRA		
Return	RET	Decrement B & C	DCX B	ANA A		ANA M	_	ANA	I	ANA	ANA E	D		0	ANA	ANA B	24 A
Return on carry	RC	Decrement register	DCR r	SBB A			г	SBB		SBB				O	SBB		
carry		Decrement memory	DCR M	SUB A			_	SUB		SUB				0	SUB		
Rotate A right through	RAR	Add stack pointer to H & L	DAD SP	ADC A			_	ADC		ADC				C	ADC		
Rotate A left through carry	RAL	Add H & L to H & L	DADH	ADD A		ADD N	г	ADD		ADD	ADD E		ADD	0	ADD	ADD B	
	TOOLLOW	A44 D & C 6 T & C															
	MSG HSIIG	Add B & C to H & I	DADB	7		6		OI		4		ω	N		_		0
Fush register Pair H & L on	POSH	Call on zero	0.00														
-	)	Call on parity odd	CPO	MOV A,A	A,M	MOV	A,L	MOV	A,H	MOV	MOV A,E	A,D M	MOV	A,C	MOV	MOV A,B	17 N
Push register Pair D & E on	PUSH D	Compare immediate with A	CPI				<u>₹</u>	MOV		MOV	MOV M,E	_		M,C	MOV		
		Call on parity even	CPE		, <u> </u>		<u>_</u>	MOV		MOV					MOV		
Push register Pair B & C on	PUSH B	Call on positive	CP				ĭ	MOV		MOV					MOV		
off stack	0	Call on no zero	CNZ				E,	MOV	E,H	MOV		E,D M		E,C	MOV		
Stack Box Appl Floor		Compare register with A	CMC				D,L	MOV		MOV				D,C	MOV		
Pop register pair H & L off	POP H	Compare memory with A	CMP M	MOV C,A	,		C,L	MOV	С,H	MOV	MOV C,E	C,D M		0,0	MOV	MOV C.B	11
stack		Complement carry	CMC	MOV B.A		MOV	8	MOV		MOV	MOV B.E		MOV	B.C	MOV	MOV B.B	
Pop register pair D & E off	POP D	Complement A	OMA	•				•					1				
Pop register pair B & C off	ת כד ת	Call on carry		7		on .		OI		4		ယ	N		_		0
H & L to program counter	PCHL	Call unconditional	CALL			775	;		;			25		9	;		
Output	TUO	And immediate with A	AN	CMC	+ *	enere e	>	* DCR	>	* NR	SP	++ DCX		SP !		1	07 _
Or immediate with A	ORI	And register with A	ANAT	STC	+ **		Z	* DCR	≤	* I N R		+		SP++	* ×	1	ි 
Or register with A	ORA r	And memory with A	ANA M	CMA	+		_	* DCR	_	* NR		+		I	DAD	1	5
Or memory with A	ORA M	Add immediate to A	ADI	DAA	+		I	DCR	I	· NR		+		+ +	** LXI	1	1
No-operation	Z OP	Add register to A	ADD r	RAR	+ **		ш	DCR	Ш	* INR					DAD	1	قة ا
Move register to register	MOV r1 r2	Add memory to A	ADD M	RAL	+		O	* DCR	0	* NR	NX D		STAX	D + +	* \		N I
Move memory to register	MOV S.	Add register to A with carry	ADC M	RRC	+	MVIC	C	DCR	C	* INR	X B	<b>B</b> D			DAD		01 -
Move immediate register	MONT	carry		RLC	+	MVI E	œ	* DCR	Ø	* INR		NX INX	STAX	DD + +	* LX	NOP	
Move immediate memory	MVIM	Add immediate to A with	ACI			)		,		,			,				
Description	Mnemonic	Description	Mnemonic	7		တ		U1		4		ω	N		_		0
	ON SE	INSTRUCTION SET		5					(9	lable	Code	do					
										4							-