DATA TRANSFER GROUP

ARITHMETIC AND LOGICAL GROUP

	ABCDEHLM ABCDEHLM	7F 78 79 7A 7B 7C 7D 7E 47 40 41 42 43 44	MOV-	E,ABCDEHLM ABCHH,BC	5F 58 59 5A 5B 5C 5D 5E 67 60	MVI-	A, byte B, byte C, byte D, byte E, byte H, byte L, byte M, byte	3E 06 0E 16 1E 26 2E 36	ADD	ABCDEH	87 80 81 82 83	INR -	ABCDE	3C 04 0C 14 1C	ANA	A B C D E	A0 A1
A A A A A A B B B B B B B B B B B B B B	COLE HALL MARKET BERNE	79 7A 7B 7C 7D 7E 47 40 41 42 43		E,C E,D E,E E,H E,L E,M H,A H,B	59 5A 5B 5C 5D 5E	MVI-	B, byte C, byte D, byte E, byte H, byte L, byte	06 0E 16 1E 26 2E	ADD	CDE	81 82	INR -	CDE	0C 14	ANA	C	A1 A2
	L.H.L.M. B.B.C.D.E.H.L.	7A 7B 7C 7D 7E 47 40 41 42 43		E.D E.E E.H E.M H.A H.B	5A 5B 5C 5D 5E 67	MVI-	C, byte D, byte E, byte H, byte L, byte	0E 16 1E 26 2E	ADD	D	82	INR -	DE	14	ANA	10	A2
A A A A A B B B B B B B B B B B B B B B	1.E 1.H 1.A 3.B 3.C 3.D 3.E 3.L	7B 7C 7D 7E 47 40 41 42 43		E.D E.E E.H E.M H.A H.B	5B 5C 5D 5E 67	MVI	D, byte E, byte H, byte L, byte	16 1E 26 2E	ADD	Ε		INR -	E		ANA	1 -	
A A A B B B B B B B B B B B B B B B B B	1,H 1,L 3,A 3,B 3,C 3,D 3,E 3,H	7C 7D 7E 47 40 41 42 43	MOV-	E,E E,H E,M H,A H,B	5B 5C 5D 5E 67	1 A 1 A 8 A 1 A	E, byte H, byte L, byte	1E 26 2E			83			1C		E	A *
A A A B B B B B B B B B B B B B B B B B	1,H 1,L 3,A 3,B 3,C 3,D 3,E 3,H	7C 7D 7E 47 40 41 42 43	MOV-	E,H E,L E,M H,A H,B	5C 5D 5E 67	J A	H, byte L, byte	26 2E					1				~,
A B B B B B B B C C C C C C C C C C C C	3,A 3,B 3,C 3,D 3,E 3,H	7D 7E 47 40 41 42 43	MOV-	E.L E.M H.A H.B	5D 5E 67		L, byte	2E			84		H	24		H	A
A B B B B B B B B B B B B B B B B B B B	3,A 3,B 3,C 3,D 3,E 3,H	7E 47 40 41 42 43	MOV-	E,M H,A H,B	5E 67					L	85		L	2C		L	A5
V	3,A 3,B 3,C 3,D 3,E 3,H	47 40 41 42 43	MOV-	H,A H,B	67		- WI, DYIE			М	86		М	34		LM	A
V B B B B C C C C C C C C C C C C C C C	3.B 3.C 3.D 3.E 3.H	40 41 42 43	MOV-	H,B				•		_			Гв	03		_	
V B B B B B C C C C C C C C C C C C C C	S.C S.D S.E S.H	41 42 43	MOV-		60					A	8F	14.14	_			A	AF
V B B B B C C C C C C C C C C C C C C C	3.D 3.E 3.H	42 43	MOV-	HC	•		Load			В	88	INX -	D	13		В	A8
B B B C C C C C C C C C C C C C C C C C	3.E 3.H 3.L	43	MOV-	H,C	61		Immedi	ate		C	89		H	23		C	A9
B B C C C C C C C C	H L			H,D	62	A - A -			ADC-	D	8A		L SP	33	XRA-	D	AA
B C C C C C C C C C C C C C C C C C C C	I.L	44		H,E	63	8 8	B, dble	01		E	8B					Ε	AB
SV-CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		77		H,H	64	LXI	D, dble	. 11		Н	8C	D	ecrer	ment**		Н	AC
000000		45		H,L	65	9 -1	H, dble	21		L.	8D				V 40-1204	L	AD
00000	, M	46		H,M	66	11	SP, dble	31		LM	8E			234 (1)	14 155	М	AE
00000	Α.	4F		- A	6F	· · · · · ·							A	3D	100303	Ē.	
0 - 0	1	48		L,A	68	3 4.8	1 4/01-			Subt	ract*		В	05		A	B7
0		100		L,B			Load/Sto	ore		3001	1801		С	0D	VA 114	В	BO
0		49	14014	L.C	69		LDAX B	0A		г.	97	DCR-	D	15		С	B1
0		4A	MOV-	L,D	6A		LDAX D	1A		A	90		E	1D	ORA-	D	B 2
C	C,E	4B		L,E	6B		LHLD adr	2A		В		7.0	H	25		Ε	B 3
	C,H	4C		L,H	6C		LDA adr	3A		С	91		L	2D		Н	B4
	C,L	4D		LL	6D		CTAVD	00	SUB-	D	92	. 263	M	35	A FRA	L	B 5
Γc	C,M	4E	d Miller	L,M	6E		STAX B	02 12		Ε	93	333	В	0B	USTRU T	M	B6
٥	D.A	57		M,A	77		•			Н	94	200		1B	1	A	BF
م ا	0.8	50		M.B	70		SHLD adr			L	95	DCX-	D		48.46	В	B8
D	D.C	51	MOV-	M.C	71		STA adr	32		M	96	14.0	Н	2B	11774	C	B9
	D.D	52		M.D	72					A	9F		SP	3B	CMP-	D	BA
).E	53		M.E	73					В	98				CMF7		
-	D.H	54		M.H	74					C	99		Spec	iale	10000	E	BB
).L	55		M.L	75				SBB -	D	9A		Spec		31.02356	Н	BC
	D.M	56								E	9B	DA	A •	27	1000	L	BD
			XCHG	1	EB					Н	9C	CN		2F	1987ea e	M	BE
										L	9D	ST	., .	37			
by	yte =						valuates to a			M	9E	CM		3F			ogica
					•	5 6	instructions)			- '*'	A 1 1 5 2		01	3F	Imm	edia	16
db	Die =						valuates to								ADI	byte	C6
16-bit data quantity. (Second and Third bytes of 3-byte instructions).						De	ouble	Add t		Rotate †		ACI byte CE		CE			
ad	dr =			nd and	Third hyter	of Zhuta	instructions)		6 1		4.10				SUI	byte	D6
			(C, Z, S, P,			or o-oyie				В	09	ALI	0	07	SBI	byte	DE
		-				cention II	NX and DCX	100	DAD	D	19	RR		0F	ANI	byte	E6
	_	affect no				caption ii	AY SUG DOX			н	29	RA	_	17	XRIE	-	EE
	+ -		RRY affected	1			1			SP	39	RA		1F	ORI	•	F6

BRANCH CO	NTROL		O AND NE CON	TROL	ASSEMBLER REFERENCE (Cont.)		
Jump	1		Stack Ops		Pseud Instru		
			R	C5	Gene	oral:	
IMP au.	C3	PUSH-	D	D5	OR	G	
INZ adr	C2	P03/1	н	E5	EN		
IZ adr	CA		PSW	F5	EQ		
INC adr	D2				SE		
JC adr	DA	POP -	В	C1	DS		
JPO adr	E2	POP -	D	D1	DB		
ILC an	EA		Н	E1	DW		
JP adr	F2		L PSW.	- F1			
JM ac.	FA	XTHL	E 3		Mec	ros:	
PCHL	E9	SPHL	F9				
Call					MAC		
	00				END		
CALL adr	CD	Inpi	ut/Output		LOC		
CNZ adr	C4	Sa Sa Sa		1	REP		
CZ adr	CC	OUT by	te D3		IRP		
CNC adr	D4	IN byte	DB		IRPO		
CC adr	DC				EXIT	M	
CPO adr	E4		74. 4				
CPE adr	EC	C	ontrol		Reloc	ation:	
CP adr	F4				ASEG	NAME	
CM adr	FC	DI	F3		DSEG	STKLN	
		EI	FB		CSEG	STACK	
Retur	n	NOP	00		PUBLIC	MEMORY	
RET	C9	HLT	76		EXTRN		
	CO						
	C8				Cond	Ittonel	
RNC	D0		Instructio	ns .		mbly:	
	D8	(80	85 Only)		IF		
RPO	EO	RIM	20			SE	
RPE	E8	SIM	30			IDIF	
RP	FO	SIN					
RM	F8						

Restart

RST - 0 C7 1 CF 2 D7 3 DF 4 E7 5 EF 6 F7 7 FF

RESTART TABLE

Name	Code	Restart Address		
RST 0	C7			
RST 1	CF	000816		
RST 2	D7	001016		
RST 3	DF	001816		
RST 4	E7	002016		
TRAP	Hardware* Function	002416		
RST 5	EF	002816		
RST 5 5	Hardware* Function	002C ₁₆		
RST 6	F7	003016		
RST 65	Hardware* Function	003416		
RST 7	FF	003816		
RST 75	Hardware* Function	003C16		

*NOTE The hardware functions refer to the on-chip Interrupt feature of the 8085 only