

MIX Alphameric Codes									
SYMBOL	CODE								
MIX and Printer	Computer and Magnetic Tape	Paper Tape						Punch Card	
		Channel							
		X	0	C	8	4	2		1
(Space)	00			✓					(Blank)
A	01	X	0					1	12 1
B	02	X	0				2		12 2
C	03	X	0	✓			2	1	12 3
D	04	X	0			4			12 4
E	05	X	0	✓		4		1	12 5
F	06	X	0	✓		4	2		12 6
G	07	X	0			4	2	1	12 7
H	10	X	0		8				12 8
I	11	X	0	✓	8			1	12 9
Δ	12	X	0	✓					12
J	13	X		✓				1	11 1
K	14	X		✓			2		11 2
L	15	X					2	1	11 3
M	16	X		✓		4			11 4
N	17	X				4		1	11 5
O	20	X				4	2		11 6
P	21	X		✓		4	2	1	11 7
Q	22	X		✓	8				11 8
R	23	X			8			1	11 9
Σ	24	X							11
Π	25		0						0 1
S	26		0	✓			2		0 2
T	27		0				2	1	0 3
U	30		0	✓		4			0 4
V	31		0			4		1	0 5
W	32		0			4	2		0 6
X	33		0	✓		4	2	1	0 7
Y	34		0	✓	8				0 8
Z	35		0		8			1	0 9
0 (Zero)	36			✓	8		2		0
1	37							1	1
2	40						2		2
3	41			✓			2	1	3
4	42					4			4
5	43			✓		4		1	5
6	44			✓		4	2		6
7	45					4	2	1	7
8	46				8				8
9	47			✓	8			1	9
.	50	X	0	✓	8		2		12 2-8
,	51	X	0		8		2	1	12 3-8
(52	X	0	✓	8	4			12 4-8
)	53	X	0		8	4		1	12 5-8
+	54	X	0		8	4	2		12 6-8
-	55	X	0		8		2	1	12 7-7
*	56	X			8		2		11 2-8
/	57	X		✓	8		2	1	11 3-8
=	60	X			8	4			11 4-8
\$	61	X		✓	8	4		1	11 5-8
<	62	X		✓	8	4	2		11 6-8
>	63	X			8	4	2	1	11 7-8
@	64		0		8		2		0 2-8
;	65		0	✓	8		2	1	0 3-8
:	66		0		8	4			0 4-8
'	67		0	✓	8	4		1	0 5-8

INSTR.FORMAT				OPERATION		
±	AA	I	F C	ABR	DF	NAME
± aaaa	i	L:R	00	NOP	0	NO OPERATION
± aaaa	i	L:R	01	ADD	0:5	ADD
± aaaa	i	06	01	FADD		FLOATING ADD
± aaaa	i	L:R	02	SUB	0:5	SUBTRACT
± aaaa	i	06	02	FSUB		FLOATING SUBTRACT
± aaaa	i	L:R	03	MUL	0:5	MULTIPLY
± aaaa	i	06	03	FMUL		FLOATING MULTIPLY
± aaaa	i	L:R	04	DIV	0:5	DIVIDE
± aaaa	i	06	04	FDIV		FLOATING DIVIDE
± aaaa	i	00	05	NUM		CONVERT TO NUMERIC
± aaaa	i	01	05	CHAR		CONVERT TO CHARACTERS
± aaaa	i	02	05	HLT		HALT
± aaaa	i	03	05	AND		LOGICAL PRODUCT
± aaaa	i	04	05	OR		LOGICAL SUM
± aaaa	i	05	05	XOR		LOGICAL DIFFERENCE
± aaaa	i	06	05	FLOT		FIXED TO FLOAT
± aaaa	i	07	05	FIX		FLOATING TO FIXED
± aaaa	i	10	05	NEG		LOGICAL NEGATION
± aaaa	i	11	05	INT		INTERRUPT
± aaaa	i	12	05	XCH		EXCHANGE A AND X
± aaaa	i	13	05	XEQ		EXECUTE
± aaaa	i	00	06	SLA		SHIFT LEFT A
± aaaa	i	01	06	SRA		SHIFT RIGHT A
± aaaa	i	02	06	SLAX		SHIFT LEFT AX
± aaaa	i	03	06	SRAX		SHIFT RIGHT AX
± aaaa	i	04	06	SLC		SHIFT LEFT AX CIRCULARLY
± aaaa	i	05	06	SRC		SHIFT RIGHT AX CIRCULARLY
± aaaa	i	06	06	SLB		SHIFT LEFT LOGICAL AX
± aaaa	i	07	06	SRB		SHIFT RIGHT LOGICAL AX
± aaaa	i	N	07	MOVE	1	MOVE WORDS
± aaaa	i	L:R	10+[r]	LD[r]	0:5	LOAD
± aaaa	i	L:R	20+[r]	LD[r]N	0:5	LOAD r NEGATIVE
± aaaa	i	L:R	30+[r]	ST[r]	0:5	STORE
± aaaa	i	L:R	40	STJ	0:2	STORE J
± aaaa	i	L:R	41	STZ	0:5	STORE ZERO
± aaaa	i	U	42	JBUS	0	JUMP BUSY
± aaaa	i	U	43	IOC	0	I/O CONTROL
± aaaa	i	U	44	IN	0	INPUT
± aaaa	i	U	45	OUT	0	OUTPUT
± aaaa	i	U	46	JRED	0	JUMP READY
± aaaa	i	00	47	JMP		JUMP
± aaaa	i	01	47	JSJ		JUMP SAVE J
± aaaa	i	02	47	JOV		JUMP ON OVERFLOW
± aaaa	i	03	47	JNOV		JUMP ON NO OVERFLOW
± aaaa	i	04	47	JL		JUMP ON LESS
± aaaa	i	05	47	JE		JUMP ON EQUAL
± aaaa	i	06	47	JG		JUMP ON GREATER
± aaaa	i	07	47	JGE		JUMP ON GREATER-OR-EQUAL
± aaaa	i	10	47	JNE		JUMP ON UNEQUAL
± aaaa	i	11	47	JLE		JUMP ON LESS-OR-EQUAL
± aaaa	i	00	50+[r]	J[r]N		JUMP r NEGATIVE
± aaaa	i	01	50+[r]	J[r]Z		JUMP r ZERO
± aaaa	i	02	50+[r]	J[r]P		JUMP r POSITIVE
± aaaa	i	03	50+[r]	J[r]NN		JUMP r NONNEGATIVE
± aaaa	i	04	50+[r]	J[r]NZ		JUMP r NONZERO
± aaaa	i	05	50+[r]	J[r]NP		JUMP r NONPOSITIVE
± aaaa	i	06	50+[r]	J[r]E		JUMP r EVEN
± aaaa	i	07	50+[r]	J[r]O		JUMP r ODD
± aaaa	i	00	60+[r]	INC[r]		INCREASE r
± aaaa	i	01	60+[r]	DEC[r]		DECREASE r
± aaaa	i	02	60+[r]	ENT[r]		ENTER r
± aaaa	i	03	60+[r]	ENN[r]		ENTER NEGATIVE r
± aaaa	i	04	60+[r]	CPM[r]		COMPARE r WITH M
± aaaa	i	L:R	70+[r]	CMP[r]	0:5	COMPARE r
± aaaa	i	06	70	FCMP		FLOATING COMPARE

[r]: rA=0, r1, r2, r3, r4, r5, r6, rX=7, i: i1:i2, 7 is indirect addressing