1	MIX Alphan	Co	de	s					INSTR.	/AT	OPERATION					
SYMBOL		CODE								±		F	С			NAME
	Computer	Paper Tape						±		L:R	00	NOP		NO OPERATION		
MIX	and	Н	_		an	<u> </u>			Punch	±	aaaa i	L:R	01	ADD	0:5	ADD
and	Magnetic		Г	<u> </u>			П	Н		±		06 L:R	01 02	FADD SUB	0.5	FLOATING ADD
_Printer	Tape	Х	0	С	8	4	2	1	Card	$\frac{\pm}{\pm}$		06	02	FSUB	0:5	SUBTRACT IFLOATING SUBTRACT
(Space)	00								(Blank)	÷		L:R	03	MUL	0:5	MULTIPLY
A	01	Χ	0		Г	П	П	1	12 1	±	aaaa i	06	03	FMUL	0.0	FLOATING MULTIPLY
В	02	Χ					2		12 2	±	aaaa i	L:R	04	DIV	0:5	DIVIDE
С	03	Х	0				2	1	12 3	±		06	04	FDIV		FLOATING DIVIDE
D	04	Χ	0	T		4	П		12 4	±		00	05 05	NUM CHAR		CONVERT TO NUMERIC ICONVERT TO CHARACTERS
E	05	Χ	0			4		1	12 5	<u>±</u>	aaaa i aaaa i	01	05	HLT		HALT
F	06	Χ	0			4	2		12 6	±		03	05	AND		LOGICAL PRODUCT
G	07	Χ	0		Г	4	2	1	12 7	±	aaaa i	04	05	OR		LOGICAL SUM
Н	10	Χ	0		8				12 8	±		05	05	XOR		LOGICAL DIFFERENCE
	11	Χ	0		8			1	12 9	<u>±</u>		06	05	FLOT		FIXED TO FLOAT
Δ	12	Х	0				П		12	<u>±</u>		07 10	05 05	FIX NEG		FLOATING TO FIXED
J	13	Х						1	11 1	÷		11	05	INT		INTERRUPT
K	14	Χ					2		11 2	±	aaaa i	12	05	XCH		EXCHANGE A AND X
	15	Х	T			Г	2	1	11 3	±	aaaa i	13	05	XEQ		EXECUTE
	16	X			П	4	П		11 4	±		00	06	SLA		SHIFT LEFT A
N	17	X	T	Ė	H	4	П	1	11 5	<u>±</u>		01	06	SRA		SHIFT RIGHT A
0	20	X		t		4	2	Ē	11 6	<u>±</u>	aaaa i aaaa i	02	06 06	SLAX SRAX		SHIFT LEFT AX ISHIFT RIGHT AX
P	21	X				4	2	1	11 7	÷		03	06	SLC		SHIFT LEFT AX CIRCULARLY
Q	22	X	H	V	8	Ė	H	Ē	11 8	$\pm$		05	06	SRC		SHIFT RIGHT AX CIRCULARLY
R	23	X	H	Ė	8	Н	Н	1	11 9	±	aaaa i	06	06	SLB		SHIFT LEFT LOGICAL AX
Σ	24	X	Н	H	Ť		Н	Ť	11	±		07	06	SRB		SHIFT RIGHT LOGICAL AX
<u> </u>	25	$\stackrel{\wedge}{=}$	0	V			Н	1	0 1	<u>±</u>		N	07	MOVE	1	MOVE WORDS
S	26		0	V	Н	Н	2	÷	0 2	± ±		L:R L:R	10+[r] 20+[r]		0:5	LOAD LOAD r NEGATIVE
	27		0	Ť			2	1	0 3	<u>+</u>		L:R	30+[r]	ST[r]	0.5	ISTORE
<del>'</del>	30	Н	0	V	Н	4	۲	÷	0 4	$\pm$		L:R	40	STJ	0:2	STORE J
$\frac{V}{V}$	31		0	· ·		4	Н	1	0 5	±	aaaa i	L:R	41	STZ	0:5	STORE ZERO
W	32		0	H		4	2	÷	0 6	±		U	42	JBUS	0	JUMP BUSY
X	33	-	0	1		4	2	1	0 7	<u></u>		U	43	IOC	0	I/O CONTROL
$\frac{\lambda}{Y}$	34	H	0	V	8	H	H	÷	0 8	<u>±</u>		U	44 45	IN OUT	0	INPUT IOUTPUT
	35		0	ľ	8		H	1	0 9	÷		Ü	46	JRED	0	JUMP READY
0 (Zero)	36	Н	۲		8	Н	2	∸	0 3	$\pm$		00	47	JMP	Ť	JUMP
1	37	H	H	Ľ	۲	Н	۲	1	1	±	aaaa i	01	47	JSJ		JUMP SAVE J
2	40			┢			2	_	2	<u>±</u>		02	47	JOV		JUMP ON OVERFLOW
3	41	Н	H		Н	Н	2	1			aaaa i	03 04	47 47	JNOV		JUMP ON NO OVERFLOW JUMP ON LESS
4	42		H	Ľ	H	4	H	_	4	<u>±</u>			47	JL JE		JUMP ON EQUAL
5	43			1		4		1	5		aaaa i	06	47	ĴĠ		JUMP ON GREATER
6	44	Н	H	V	Н		2	÷	6	±	aaaa i	07	47	JGE		JUMP ON GREATER-OR-EQUAL
7	45	Н	H	Ľ	H		2	1	7	±		10	47	JNE		JUMP ON UNEQUAL
8	46		H	┢	8	_	۲	$^{\perp}$	8	<u></u>		11	47	JLE		JUMP ON LESS-OR-EQUAL
9	47	Н	H		8	Н	Н	1	9	±	aaaa i aaaa i	00	50+[r] 50+[r]			JUMP r NEGATIVE JUMP r ZERO
	50	Х	0	ľ	8	Н	2	1		±		02	50+[r]			JUMP r POSITIVE
	51	X	_		8	4	H	H	0	±	aaaa i	03	50+[r]			JUMP r NONNEGATIVE
, (	52	X		ľ	8	4	Н	1	12 5-8	±	aaaa i	04	50+[r]	J[r]NZ		JUMP r NONZERO
	53	X		┢	8		2	_	12 6-8		aaaa i	05	50+[r]			JUMP r NONPOSITIVE
+	54	X	۲	1			2	1	11 3-8	Ξ		06 07	50+[r] 50+[r]			JUMP r EVEN JUMP r ODD
<del>-</del>	55	X	┝	<u>٠</u>	8	4	-	⊢	11 4-8				60+[r]			INCREASE r
*	56	<u>^</u> X		1	_	4	H	1			aaaa i	01		DEC[r]		DECREASE r
	57	$\hat{x}$	$\vdash$		8		7	H	11 6-8	_	aaaa i	02	60+[r]	ENT[r]		ENTER r
=	60	ŕ	0	_	-	+	2	1		±	aaaa i	03	60+[r]	ENN[r]		ENTER NEGATIVE r
<u>-</u> \$	61	H	0		8	4	$\vdash$	ㅂ	0 3-8			04	60+[r]			COMPARE r WITH M
<del></del>		H	0	_	8	4	Н	1		±			70+[r]	CMP[r] FCMP		COMPARE r FLOATING COMPARE
>	62 63	H	0	_	8	4	7	븨			aaaa i rA=0 rl		70 rl3 rl4			i: I1:I2, 7 is indirect addressing
		H	۲	٧	8	4	2	1	3-8	f. 1.	, .–∪, 11	۰, ۱۱∠,	. 10, 114,	, 110, 110, 1	,,-ı,	
<u>@</u>	64 65	$\vdash$	$\vdash$	1	8	1	H	븨	3-8 4-8							
,		$\vdash$	$\vdash$	۲	_	4	Н	1								
:	66		┖	_	8	4	Ш	1	5-8							

6-8

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