TABLE I Command and Address Equivalences

TABLE Ia Command Equivalences

Symbol	Command	Binary	Hexadecimal	Decimal
Z	Stop, Sense and Transfer	0000	0	1
B	Bring	0001	1	2
Y	Store Address	0010	2	3
R	Set Return Address	0011	3	4
I	Input, Shift Left	0100	4	5
D	Divide	0101	5	6
N	Multiply: Save Right	0110	6	7
M	Multiply: Save Left	0111	7	8
P	Print	1000	8	9
E	Extract	1001	9	10
U	Unconditional Transfer	1010	F	11
T	Conditional Transfer	1011	G	12
H	Hold	1100	J	13
C	Clear	1101	K	14
A	Add	1110	Q	15
S	Subtract	1111	W	16

TABLE Ib Address Equivalences

DECIMAL	HEXADECIMAL		DECIMAL	HEXADECIMAL	
	Track	Sector		Track	Sector
0	00	00	32	20	80
1	01	04	33	21	84
2	02	08	34	22	88
3	03	0j	35	23	8j
4	04	10	36	24	90
5	05	14	37	25	94
6	06	18	38	26	98
7	07	1j	39	27	9j
8	08	20	40	28	f0
9	09	24	41	29	f4
10	0f	28	42	2f	f8
11	0g	2j	43	2g	fj
12	0j	30	44	2j	g0
13	0k	34	45	2k	g4
14	0q	38	46	2q	g8
15	ow	3j	47	2w	gj
16	10	40	48	30	j0
17	11	44	49	31	j4
18	12	48	50	32	j8
19	13	4j	51	33	jj
20	14	50	52	34	k0
21	15	54	53	35	k4
22	16	58	54	36	k8
23	17	5j	55	37	kj
24	18	60	56	38	q0
25	19	64	57	39	q4
26	1f	68	58	3f	q8
27	1g	6j	59	3g	qj
28	1j	70	60	3j	wo
29	1k	74	61	3k	w4
30	1q	78	62	3q	w8
31	1w	7j	63	3w	wj

TABLE II Powers of 2

2^n	n	2^{-n}
1	0	1.0
2	1	0.5
4	2	0.25
8	3	0.125
16	4	0.062 5
32	5	0.031 25
64	6	0.015 625
128	7	0.007 812 5
256	8	0.003 906 25
512	9	0.001 953 125
1 024	10	0.000 976 562 5
2 048	11	0.000 488 281 25
4 096	12	0.000 244 140 625
8 192	13	0.000 122 070 312 5
16 384	14	0.000 061 035 156 25
32 786	15	0.000 030 517 578 125
65 536	16	0.000 015 258 789 062 5
131 072	17	0.000 007 629 394 531 25
262 144	18	0.000 003 814 697 265 625
524 288	19	0.000 001 907 348 632 812 5
1 048 576	20	0.000 000 953 674 316 406 25
2 097 152	21	0.000 000 476 837 158 203 125
4 194 304	22	0.000 000 238 418 579 101 562 5
8 388 608	23	0.000 000 119 209 289 550 781 25
16 777 216	24	0.000 000 059 604 644 775 390 625
33 554 432	25	0.000 000 029 802 322 387 695 312 5
67 108 864	26	0.000 000 014 901 161 193 847 656 25
134 217 728	27	0.000 000 007 450 580 596 923 828 125
268 435 456	28	0.000 000 003 725 290 298 461 914 062 5
536 870 912	29	0.000 000 001 862 645 149 230 957 031 25
1 073 741 824	30	0.000 000 000 931 322 574 615 478 515 625
2 147 483 648	31	0.000 000 000 465 661 287 307 739 257 812 5

TABLE III Input/Output Codes

TABLE IIIa Input/Output Codes for the 121 Typewriter

Character Codes			Tape Codes			Input Codes		Output Codes	
			6	1234	5	1234	56	1234	56
Tape	Feed		0	0000	0	*oooo	00		
)	0		0	0000	1	0000	10	0000	10
L	1		0	0001	1	0001	10	0001	10
*	2		0	0010	1	0010	10	0010	10
"	3								
Δ %	4		00	0011 0100	11	0011 0100	10 10	0011 0100	10 10
$ π	5	6	00	0101 0110	11	0101 0110	10 10	0101 0110	10 10
Σ	7	8	00	0111 1000	11	0111 1000	10 10	0111 1000	10 10
(	9		0	1001	1	1001	10	1001	10
F	f		0	1010	1	1010	10	1010	10
G	g		0	1011	1	1011	10	1011	10
J	.		0	1100	1	1100	10	1100	10
K	j								
Q k	q		00	1101 1110	11	1101 1110	10 10	1101 1110	10 10
W	w		0	1111	1	1111	10	1111	10
Z	z		1	0000	0	0000	01	0000	01
B	b		1	0001	0	0001	01	0001	01
Y	y		1	0010	0	0010	01	0010	01
R	r		1	0011	0	0011	01	0011	01
I	ι		1	0100	0	0100	01	0100	01
D	d		1	0101	0	0101	01	0101	01
N	n		1	0110	0	0110	01	0110	01
M	m		1	0111	0	0111	01	0111	01
P	p		1	1000	0	1000	01	1000	01
E	e		1	1001	0	1001	01	1001	01
U	∪		1	1010	0	1010	01	1010	01
T	t		1	1011	0	1011	01	1011	01
H	h		1	1100	0	1100	01	1100	01
C	c		1	1101	0	1101	01	1101	01
A	a		1	1110	0	1110	01	1110	01
S	s		1	1111	0	1111	01	1111	01
Lower	Case		0	0001	0	"0001	00	0001	00
Upper	Case		0	0010	0	*0010	00	0010	00
Color	Shift		0	0011	0	*0011	00	0011	00
Car.	Return		0	0100	0	*0100	00	0100	00
Back	Space		0	0101	0	*0101	00	0101	00
Tab	00		0	0110	0	*0110	00	0110	00
Cond.	Stop		0	1000	0			1000	00
Space			1	0000	1	0000	11	0000	11
—			1	0001	1	0001	11	0001	11
=	+		1	0010	1	0010	11	0010	11
			1	0011	1	0011	11	0011	11
? ‖	; /	' ·	1		1	0110	111		
ν	v		1	0111	1	0111	11	0111	11
0	o		1	1000	1	1000	11	1000	11
X	x		1	1001	1	1001	11	1001	11
Delete			1	1111	1				

*6-bit input only

TABLE IIIb Additional Input/Output Codes

In addition to the codes in Table IIIa, the following codes can be output by the computer through the 151 Punch and input through the 141 Reader. They cannot be input or output via the 121 Typewriter.

	Tape Code	Input Code	Output Code
	6 12345	1234 56	1234 56
Tape Feed	0 00000	*0000 00	0000 00
	0 01110	*0111 00	0111 00
	0 10010	*1001 00	1001 00
	0 10100	*1010 00	1010 00
	0 10110	'1011 00	1011 00
	0 11000	*1100 00	1100 00
	0 11010	*1101 00	1101 00
	0 11100	*1110 00	1110 00
	0 11110	*1111 00	1111 00
	1 10101	1010 11	1010 11
	1 10111	1011 11	1011 11
	1 11001	1100 11	1100 11
	1 11011	1101 11	1101 11
	1 11101	1110 11	1110 11
Code Delete	1 11111		1111 11

*6-bit input only