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Title:

RC8000 Conversion Tables

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Abstract:

This manual describes the conversion tables used in the RC8000 computer.

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Table of Decimal Values of ISO-characters

0	NUL	32	SP	64	@	96	`
1	SOH	33	!	65	A	97	a
2	STX	34	"	66	B	98	b
3	EXT	35	£	67	C	99	c
4	EOT	36	\$	68	D	100	d
5	ENQ	37	%	69	E	101	e
6	ACK	38	&	70	F	102	f
7	BEL	39	'	71	G	103	g
8	BS	40	(	72	H	104	h
9	HT	41	)	73	I	105	i
10	NL	42	*	74	J	106	j
11	VT	43	+	75	K	107	k
12	FF	44	,	76	L	108	l
13	CR	45	-	77	M	109	m
14	SO	46	.	78	N	110	n
15	SI	47	/	79	O	111	o
16	DLE	48	0	80	P	112	p
17	DC1	49	1	81	Q	113	q
18	DC2	50	2	82	R	114	r
19	DC3	51	3	83	S	115	s
20	DC4	52	4	84	T	116	t
21	NAK	53	5	85	U	117	u
22	SYN	54	6	86	V	118	v
23	ETB	55	7	87	W	119	w
24	CAN	56	8	88	X	120	x
25	EM	57	9	89	Y	121	y
26	SUB	58	:	90	Z	122	z
27	ESC	59	;	91	Æ	123	æ
28	FS	60	<	92	Ø	124	ø
29	GS	61	=	93	Å	125	å
30	RS	62	>	94	^	126	^
31	US	63	?	95	_	127	DEL

Standard Conversion Table for Discettes

This character conversion table is used as a standard in connection with discettes written (or to be written) in EBCDIC.

The table is valid for conversion from ISO to EBCDIC as well as from EBCDIC to ISO.

Besides what is mentioned in the table, the following is valid for EBCDIC to ISO conversion:

- EBCDIC 79 (') is converted to ISO 33 (!).
- EBCDIC 250 (I) is converted to ISO 94 (^).
- EBCDIC characters, which do not correspond to ISO characters are converted to ISO 26 (SUB).

Standard Conversion Table for Discettes

ISO	EBCDIC		ISO	EBCDIC			
0	NUL	0	NUL	32	SP	64	SP
1	SOH	1	SOH	33	!	90	!
2	STX	2	STX	34	"	127	"
3	ETX	3	ETX	35	£	123	#
4	EOT	55	EOT	36	\$	91	\$
5	ENQ	45	ENQ	37	%	108	%
6	ACK	46	ACK	38	&	80	&
7	BEL	47	BEL	39	'	125	'
8	BS	22	BS	40	(	77	(
9	HT	5	HT	41	)	93)
10	NL	37	LF	42	*	92	*
11	VT	11	VT	43	+	78	+
12	FF	12	FF	44	,	107	,
13	CR	13	CR	45	-	96	-
14	SO	14	SO	46	.	75	.
15	SI	15	SI	47	/	97	/
16	DLE	16	DLE	48	0	240	0
17	DC1	17	DC1	49	1	241	1
18	DC2	18	DC2	50	2	242	2
19	DC3	19	DC3	51	3	243	3
20	DC4	60	DC4	52	4	244	4
21	NAK	61	NAK	53	5	245	5
22	SYN	50	SYN	54	6	246	6
23	ETB	38	ETB	55	7	247	7
24	CAN	24	CAN	56	8	248	8
25	EM	25	EM	57	9	249	9
26	SUB	63	SUB	58	:	122	:
27	ESC	39	ESC	59	;	94	;
28	FS	28	IFS	60	<	76	<
29	GS	29	IGS	61	=	126	=
30	RS	30	IRS	62	>	110	>
31	US	31	IUS	63	?	111	?

Standard Conversion Table for Discettes

ISO		EBCDIC		ISO		EBCDIC	
64		124		96	`	121	`
65	A	193	A	97	a	129	a
66	B	194	B	98	b	130	b
67	C	195	C	99	c	131	c
68	D	196	D	100	d	132	d
69	E	197	E	101	e	133	e
70	F	198	F	102	f	134	f
71	G	199	G	103	g	135	g
72	H	200	H	104	h	136	h
73	I	201	I	105	i	137	i
74	J	209	J	106	j	145	j
75	K	210	K	107	k	146	k
76	L	211	L	108	l	147	l
77	M	212	M	109	m	148	m
78	N	213	N	110	n	149	n
79	O	214	O	111	o	150	o
80	P	215	P	112	p	151	p
81	Q	216	Q	113	q	152	q
82	R	217	R	114	r	153	r
83	S	226	S	115	s	162	s
84	T	227	T	116	t	163	t
85	U	228	U	117	u	164	u
86	V	229	V	118	v	165	v
87	W	230	W	119	w	166	w
88	X	231	X	120	x	167	x
89	Y	232	Y	121	y	168	y
90	Z	233	Z	122	z	169	z
91	Æ	173	[	123	œ	192	{
92	Ø	224	`	124	ø	106	!
93	Å	189	]	125	å	208	}
94		95	]	126	—	161	~
95	-	109	-	127	DEL	7	DEL

Standard Conversion for Cardreaders

The standard conversion is EBCDIC to ISO, as described in the following:

holes		0	11	11	12	12	12	12			11	11	12	12	12	12
				0		0	11	0	9	9	9	9	9	9	9	9
	SP	0	-	á	&	æ	ø		9	z	r	z	i	i	r	
1	1	/	i		a	a	i				DC1		SOH			
2	2	s	k	s	b	b	k		SYN	FS	DC2		STX			
3	3	t	l	t	c	c	l				DC3		ETX			
4	4	u	m	u	d	d	m									
5	5	v	n	v	e	e	n		RS		NL		HT			
6	6	w	o	w	f	f	o			ETB	BS					
7	7	x	p	x	g	g	p		EOT	ESC	SUB		DEL			
8	8	y	q	y	h	h	q				CAN					
8	1	,	-								EM			NUL	DLE	
8	2	:	@													
8	3	æ	,	á	.								VT			
8	4	ø	%	*	<				DC4		FS		FF			
8	5	'	-	)	æ	(		á	NAK	ENQ	CS		CR			
8	6	=	>	;	+					ACK	RS		SO			
8	7	"	?	E	\$				SUB	BEL	US		SI			

Unassigned codes are converted to the SUB character.

A NL character is inserted after each card during input.

Flexowriter to ISO Conversion

In the table below, each element corresponds to a Flexowriter character in lower or upper case with a decimal value equal to the sum of the column and row numbers. To the left in the element is shown the Flexowriter character, while the corresponding ISO character is shown to the right.

As an example, the Flexowriter character \wedge is an upper case character with the decimal value $16 + 0 = 16$; it is converted to the ISO character $\&$.

	0		16		32		48		
	LC	UC	LC	UC	LC	UC	LC	UC	
0	SP SP	SP SP	0 0	\wedge &	- -	+ +	æ æ	Æ Æ	
1	1 1	v !	< <	> >	j j	J J	a a	A A	
2	2 2	x *	s s	S S	k k	K K	b b	B B	
3	3 3	/ /	t t	T T	l l	L L	c c	C C	
4	4 4	= =	u u	U U	m m	M M	d d	D D	
5	5 5	; ;	v v	V V	n n	N N	e e	E E	
6	6 6	[Æ	w w	W W	o o	O O	f f	F F	
7	7 7	] Å	x x	X X	p p	P P	g g	G G
8	8 8	( (	y y	Y Y	q q	Q Q	h h	H H
9	9 9	) )	z z	Z Z	r r	R R	i i	I I
10							LC	LC	
11	STP FF	STP FF	,	,	'	φ φ	Φ Φ	.	.
12	END EM	END EM					UC	UC	
13	ó ó	Å Å							
14	· _	· !	TAB HT	TAB HT					
15									
16							NL CAR	NL CAR	

An underline $_$ or a bar $|$ followed by a space are converted to the special characters $_$ and $!$ respectively. Multiple underlines or bars, case shifts, and unassigned codes are skipped between the first underline or bar and the space. An underline or bar followed by a graphic character are converted to the SUB character.

Unassigned codes and codes 65-127 are skipped during input.

ISO to Flexowriter Conversion

In the table below, each element corresponds to an ISO character with a decimal value equal to the sum of the column and row numbers. To the left in the element is shown the ISO character, while the corresponding Flexowriter character is shown to the right.

As an example, the ISO character & has the decimal value $32 + 6 = 38$, and is converted to the upper case Flexowriter character ^.

	0	16	32	48	64	80	96	112
0	NUL	DLE	SP SP	0 0	@	P P	`	p p
1	SOH	DC1	!	1 1	A A	Q Q	a a	q q
2	STX	DC2	"	2 2	B B	R R	b b	r r
3	ETX	DC3	#	3 3	C C	S S	c c	s s
4	EOT	DC4	\$	4 4	D D	T T	d d	t t
5	ENQ	NAK	%	5 5	E E	U U	e e	u u
6	ACK	SYN	& ^	6 6	F F	V V	f f	v v
7	BEL	ETB	' `	7 7	G G	W W	g g	w w
8	BS	CAN	( (	8 8	H H	X X	h h	x x
9	HT TAB	EM END	) )	9 9	I I	Y Y	i i	y y
10	NL CAR	SUB	* x	: :	J J	Z Z	j j	z z
11	VT	ESC	+ +	; ;	K K	Æ Æ	k k	æ æ
12	FF STP	FS	, ,	< <	L L	Ø Ø	l l	ø ø
13	CR	GS	- -	= =	M M	Å Å	m m	å å
14	SO	RS	. .	> >	N N	^	n n	—
15	SI	US	/ /	?	O O	_ .	o o	DEL

* An exclamation mark ! and an underline _ are converted to the special character | and _ followed by a space.

Unassigned codes and codes > 127 are skipped during output.

RETURN LETTER

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