





# ASCII CODES

## DCT 2000 ASCII CHARACTER CODE

Bits		b <sub>7</sub>	0	0	0	0	1	1	1	1										
		b <sub>6</sub>	0	0	1	1	0	0	1	1										
		b <sub>5</sub>	0	1	0	1	0	1	0	1										
		Col.	0	1	2	3	4	5	6	7										
b <sub>4</sub>	b <sub>3</sub>	b <sub>2</sub>	b <sub>1</sub>	Row																
0	0	0	0	0	NUL	*	DLE	*	SP	Blank	0	0	\	*	P	11-7	@	4-8	p	*
0	0	0	1	1	SOH		DC1		!	11-0	1	1	A	12-1	Q	11-8	o	*	q	*
0	0	1	0	2	STX		DC2	*	⌘	12-4-8	2	2	B	12-2	R	11-9	b	*	r	*
0	0	1	1	3	ETX		DC3	*	⌘	3-8	3	3	C	12-3	S	0-2	c	*	s	*
0	1	0	0	4	EOT		DC4	*	⌘	11-3-8	4	4	D	12-4	T	0-3	d	*	t	*
0	1	0	1	5	ENQ	*	NAK		%	0-4-8	5	5	E	12-5	U	0-4	e	*	u	*
0	1	1	0	6	ACK		SYN		␣	12	6	6	F	12-6	V	0-5	f	*	v	*
0	1	1	1	7	BEL	12-11-0 7	ETB	*	'	7-8	7	7	G	12-7	W	0-6	g	*	w	*
1	0	0	0	8	BS	12-11-0 8	CAN	*	(	0-5-8	8	8	H	12-8	X	0-7	h	*	x	*
1	0	0	1	9	HT	12-11-0 9	EM	12-11-9	)	0-7-8	9	9	I	12-9	Y	0-8	i	*	y	*
1	0	1	0	10	LF	12-11-0 2-8	SS	*	*	11-4-8	:	5-8	J	11-1	Z	0-9	j	*	z	*
1	0	1	1	11	VT	12-11-0 3-8	ESC	*	+	2-8	;	11-6-8	K	11-2	[	12-5-8	k	*	{	*
1	1	0	0	12	FF	12-11-0 4-8	FS	*	'	⊕-3-8	<	12-6-8	L	11-3	\	0-6-8	l	*	⌋	*
1	1	0	1	13	CR	12-11-0 5-8	GS	*	-	11	=	12-7-8	M	11-4	]	11-5-8	m	*	}	*
1	1	1	0	14	SO	*	RS	*	'	12-3-8	>	6-8	N	11-5	Δ	11-7-8	n	*	⌌	*
1	1	1	1	15	SI	*	US	*	/	0-1	?	12-0	O	11-6	≠	0-2-8	o	*	⌍	*

CHARACTER  
80-COL. CARD CODE

- Notes: 1.\*Indicates that the character to the left is not used in the DCT 2000.  
 2. Characters in columns 6 and 7 print as characters shown in columns 4 and 5 (except @ which prints @ as shown).  
 3. DEL and characters in columns 0 and 1 are non-printable.  
 4. SYN is deleted from the Receive message during TEXT.

### ASCII PROGRAM COUNT

PC	CNTR	RECEIVE	TRANSMIT
0	0000	Rec SYN/SOH/DC/BEL/EOT	Rec SYN/ACK/NAK/BEL
1	0010		Xmit SYN
2	0011		STX SYN
3	0111		TEXT SYN
4	0110		ETX SYN
5	0100		BP SOH
6	0101	Xmit	SEL
7	0001		STX
8	1001		TEXT
9	1000		ETX
10	1010		BP
11	1110	ACK/NAK/BEL	DC/EOT
12	1111	ACK/NAK/BEL	DC/EOT
13	1011	One Bit Time (Not Used)	One Bit Time

Note: Information enclosed in the blocks involves block parity.

MH2221 8/67

MAINTENANCE  
CARD

UNIVAC  
DCT 2000

DATA  
COMMUNICATION  
TERMINAL

### ASCII AND DLT1/3 FORM CONTROL PAPER-LOOP

		4	2	1	NOTES
Start	Auto Tab	0	1	0	X: Either 1 or 0 1: Hole 0: No hole FF and VT override Auto and Overflow Tab. FF must be reset before VT can reset.
Stop	Auto Tab	X	1	1	
Start	Overflow Tab	1	0	0	
Stop	Overflow Tab	1	0	1	
Stop	Vertical Tab (VT)	1	1	0	
Stop	Form Feed (FF) and Home Paper	1	1	1	

### ASCII MESSAGE CONTROL SELECT CODE

Select Character	b <sub>7</sub>	b <sub>6</sub>	b <sub>5</sub>	b <sub>4</sub>	b <sub>3</sub>	b <sub>2</sub>	b <sub>1</sub>
Integral Printer	0	1	0/1*	0	0	0	0
Integral Punch	0	1	0/1*	0	0	0	1
Peripheral 1	0	1	0/1*	0	0	1	0
Peripheral 2	0	1	0/1*	0	0	1	1
Peripheral 3	0	1	0/1*	0	1	0	0
Peripheral 4	0	1	0/1*	0	1	0	1

\*Duplicate Block Protection

# DLT 1/3 CODES

# DLT 1/3 CODES

## DLT 1/3 CHARACTER CODE

80-Col. Card Code	Printable Characters	XS-3 Code	80-Col. Card Code	Printable Characters	XS-3 Code
12-1	A	01 0100	7	7	00 1010
12-2	B	01 0101	8	8	00 1011
12-3	C	01 0110	9	9	00 1100
12-4	D	01 0111	12	8	01 0000
12-5	E	01 1000	11	-(Minus)	00 0010
12-6	F	01 1001	12-0	?	01 0011
12-7	G	01 1010	11-0	!(Exclam)	10 0011
12-8	H	01 1011	0-1	/	11 0100
12-9	I	01 1100	2-8	+	11 0011
11-1	J	10 0100	3-8	#	01 1101
11-2	K	10 0101	4-8	@	10 1110
11-3	L	10 0110	5-8	:(Colon)	01 0001
11-4	M	10 0111	6-8	>	11 1110
11-5	N	10 1000	7-8	*(Apos)	10 0000
11-6	O	10 1001	12-3-8	*(Period)	01 0010
11-7	P	10 1010	12-4-8	□ φ	11 1101
11-8	Q	10 1011	12-5-8	[	00 1111
11-9	R	10 1100	12-6-8	<	01 1110
0-2	S	11 0101	12-7-8	=	01 1111
0-3	T	11 0110	11-3-8	‡ £	10 0010
0-4	U	11 0111	11-4-8	*	10 0001
0-5	V	11 1000	11-5-8	∩	00 0001
0-6	W	11 1001	11-6-8	;(Semi-col)	00 1110
0-7	X	11 1010	11-7-8	Δ	10 1111
0-8	Y	11 1011	0-2-8	≠	11 0000
0-9	Z	11 1100	0-3-8	,(Comma)	11 0010
0	0	00 0011	0-4-8	%	11 0001
1	1	00 0100	0-5-8	(	10 1101
2	2	00 0101	0-6-8	\ [	00 1101
3	3	00 0110	0-7-8	)	11 1111
4	4	00 0111			
5	5	00 1000	Blank	Space N.P.	00 0000
6	6	00 1001			

Note: φ, £, and □ are international code characters for DLT 1/3 and ASCII codes.

## DC VOLTAGE

Voltage	Terminal Board	Module Buss	Backboard Pin No.	Special Voltages
-12	A3TB1-4	W1	46	---
Gnd	A3TB1-11	W2	1 and 55	---
+6	A3TB1-10	W3	16 and 34	---
+12	A3TB1-6	---	22	Four Memory Chassis
+48	A3TB1-8	---	22	Many Pr and R/PU Chassis
+170	A4TB2-3 A4TB2-4	---	40	Printer Actuator Drivers

## INDICATOR TEST TERMINALS (TT)

Indicator	Location	TT
IND 1	C39	03
IND 2	C38	03

## DLT 1/3 PROGRAM COUNT

PC	CNTR	RECEIVE	TRANSMIT
0	0000	Rec	Rec
1	0001	SYN/SOM	SYN/SOM
2	0011	MC/DC/BEL/EOT	ACK/SPA/NAK/BEL
3	0010	TEXT/EOM	EOM
4	0110	BP	BP
5	0100	SYN	SYN
6	0101	SYN	SYN
7	0111	SYN	SYN
8	1111	SOM	SOM
9	1101	ACK/NAK	MC/DC/BEL/EOT
10	1100	(Not Used)	TEXT
11	1110	EOM	EOM
12	1010	BP	BP
13	1011	One Bit Time	One Bit Time

Notes: 1. Information enclosed in the blocks involves block parity.  
2. DC, BEL and EOT messages transmitted by DCT 2000 include TEXT.

## DLT 1/3 MESSAGE CONTROL CHARACTER CODES

Framing Characters	b7	b6	b5	b4	b3	b2	b1
SYNC (SYN)	0	1	1	0	1	0	1
Start of Message (SOM)	1	0	0	0	0	0	0
End of Message (EOM)	1	0	1	0	1	0	1

  

Message Control Characters (MC)							
Integral Printer	P	0/1*	N	N	0	0	0
Integral Punch	P	0/1*	N	N	0	0	1
Peripheral 3	P	0/1*	N	N	0	1	0
Peripheral 4	P	0/1*	N	N	0	1	1
Peripheral 5	P	0/1*	N	N	1	0	0
Peripheral 6	P	0/1*	N	N	1	0	1
Form Feed (FF)	P	0/1*	0	1	X	X	X
Vertical Tab (VT)	P	0/1*	1	0	X	X	X

  

Acknowledge Characters							
Negative (NAK)	0	0	0	0	1	0	0
Positive (ACK)	1	0	0	0	1	0	1
Special Positive Acknowledge (SPA)	1	0	0	0	1	1	0

  

Special Characters							
Bell (BEL)	0	1	0	0	0	0	0
Device Control (DC)	0	1	0	0	0	1	1
End of Transmission (EOT)	1	1	0	0	0	0	1
Memory Fill Character	1	0	0	0	0	0	0

\*Duplicate Block Protection P - Odd Parity  
N-b5 and b4 cannot both be zero X - Either 1 or 0

## TRAP FF TEST TERMINALS (TT)

Circuit	ASCII Location and TT	DLT 1/3 Location and TT
*Pos. And Gate	B52 02, 03, 04, 05	B53 01, 02, 03, 04
Negative Set	B52 15	B53 12
*Pos. And Reset	B52 13, 14	B53 13, 14
Inverter	B52 01, 10	B53 07, 15

\*Ground input of Pos. And Gate if gate is not used.