B6500 OPERATOR HEXIDECIMAL CODE

		0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F		
PRIMARY	8	ADD	SUBT	MULT	DIVD	IDIV	RDIV	NTIA	NTGR	LESS	GREQ	GRTR	LSEQ	EQUL	NEQL	CHSN	MULX	8	PRIMARY
	9	LAND	LOR	LNOT	LEQV	SAME	VARI	BSET	DBST	FLTR	DFTR	ISOL	DISO	INSR	DINS	BRST	DBRS	9	
	A	BRFL	BRTR	BRUN	EXIT	STBR	NXLN	INDX	RETN	DBFL	DBTR	DBUN	ENTR	EVAL	NXLV	MKST	STFF	A	
	B	ZERO	ONE	LT8	LT16	PUSH	DLET	EXCH	DUPL	STDD	STON	OVRD	OVRN		LOAD	LT48	MPCW	B	
	C	SCLF	DSLF	SCRT	DSRT	SCRS	DSRS	SCRF	DSRF	SCRR	DSRR	ICVD	ICVU	SNGT	SNGL	XTND	IMKS	C	
	D	TEED	PACD	EXSD	TWSD	TWOD	SISO	SXSN	ROFF	TEEU	PACU	EXSU	TWSU	TWOU	EXPU	RTFF	HALT	D	
	E	TLSD	TGED	TGTD	TLED	TEQD	TNED	TUND		TLSU	TGEU	TGTU	TLEU	TEQU	TNEU	TUNU		E	
	F	CLSD	CGED	CGTD	CLED	CEQD	CNED			CLSU	CGEU	CGTU	CLEU	CEQU	CNEU	NOOP	NVLD	F	
VARIANT	4			JOIN	SPLT	IDLE	SINT	EEXI	DEXI			SCNI	SCNO			WHOI	HEYU	4	VARIANT
	8						OCRx		NTGD				LOG2					8	
	A														IRWL	PCWL	MVST	A	
	B					STAG	RTAG	RSUP	RSDN	RPRR	SPRR	RDLK	CBON	LOOT	LLLU	SRCH		B	
	D	USND	UABD	TWFD	TWTD	SWFD	SWTD		TRNS	USNU	UABU	TWFU	TWTU	SWFU	SWTU		HALT	D	
	E																	E	
	F	SLSD	SGED	SGTD	SLED	SEQD	SNED			SLSU	SGEU	SGTU	SLEU	SEQU	SNEU	NOOP	NVLD	F	
UNDEFINED	D	MINS	MFLT	SFSC	SRSC	RSTF	ENDF	MVNU	MCHR	INOP	INSG	SFDC	SRDC	INSU	INSC	ENDE	HALT	D	UNDEFINED
	F															NOOP	NVLD	F	

FAMILY A B C D E F G H C A C D F G H E H

B6500 HEX/EBCDIC-CARD CODE

NUM	HEX	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	HEX	NUM
81	0	NUL	DLE			SP	&	-						{C	}D	\	0	0	81
1	1	SOH	DC1					/		a	j	~		A	J		1	1	1
2	2	STX	DC2		SYN					b	k	s		B	K	S	2	2	2
3	3	ETX	DC3							c	l	t		C	L	T	3	3	3
4	4									d	m	u		D	M	U	4	4	4
5	5	HT		LF						e	n	v		E	N	V	5	5	5
6	6		BS	ETB						f	o	w		F	O	W	6	6	6
7	7	DEL		ESC	EOT					g	p	x		G	P	X	7	7	7
8	8		CAN			↓				h	q	y		H	Q	Y	8	8	8
81	9		EM			↑	!	¬	`	i	r	z		I	R	Z	9	9	9
82	A					[	]	↑	:									A	82
83	B	VT				.	$	,	#									B	83
84	C	FF	FS		DC4	<	*	%	@									C	84
85	D	CR	GS	ENQ	NAK	(	)	_	>									D	85
86	E	SO	RS	ACK		+	;	>	=									E	86
87	F	SI	US	BEL	SUB	|	¬	?	"									F	87
NUM	HEX	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	HEX	NUM

ZONE: + | − | 0 | 9 | + 0 9 | + − 9 | − 0 9 | + − 0 9 | + 0 | + − | + − 0 | + − 0 | + | − | 0

00 = + 0 9 8 1 (NUL)
10 = + − 9 8 1 (DLE)
20 = − 0 9 8 1
30 = + − 0 9 8 1

40 = BLANK
50 = +
60 = −
70 = + − 0

CO = + 0 ({) (¢) 61 = 0 1 (/)
DO = − 0 (}) (¤) (¦) E1 = − 0 9 1
EO = 0 82 (\) 6A = + − (¦)
FO = 0 (0)

B6500 WORD FORMAT

SP OPERAND
DP OPERAND
DATA DESCRIPTOR
STRING DESCRIPTOR (INDX)
SEGMENT DESCRIPTOR
IRW NORMAL
IRW STUFFED
PCW
RCW
MSCW
SIW
T0SCW

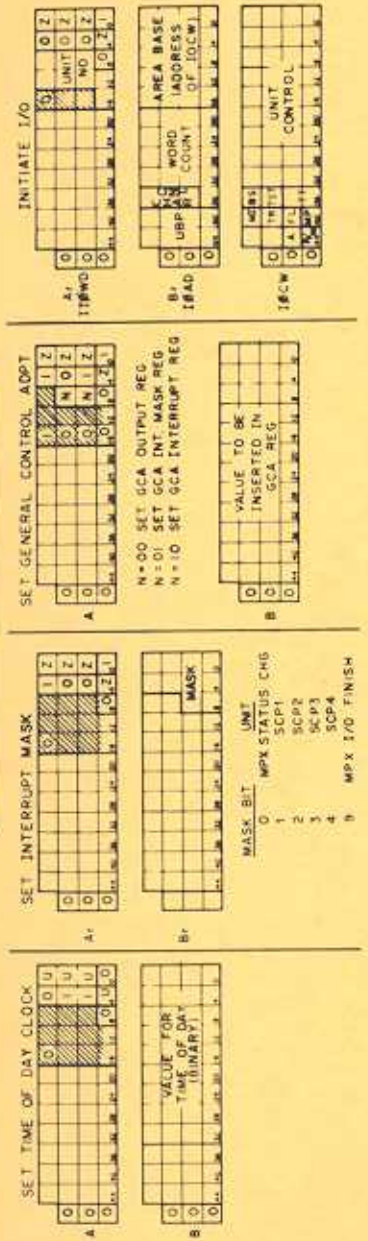
TAG = 6 USED BY SOFTWARE.

Burroughs

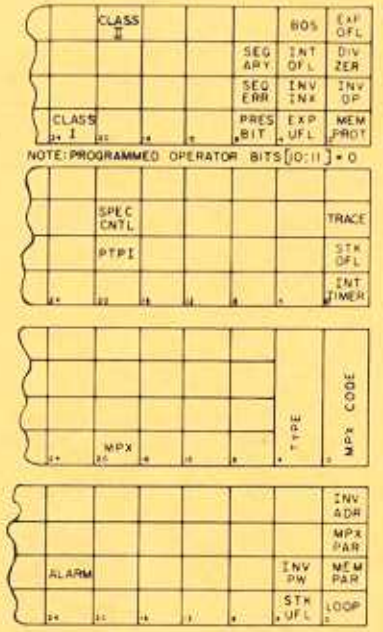
B 6500 REFERENCE CARD

Printed in U.S. America 11-69 1044849

B6500 SCAN-OUT CONTROL WORDS



B6500 INTERRUPT TYPE WORD(PI)



B6500 IC MEMORY REGISTER ADDRESSES

ADDRESS DEC	ADDRESS HEX	NAME	REGISTER USAGE	LOGIC NAME
0-31	00-1F	D0-D31	DISPLAYS	
32	20	PIR	PROGRAM INDEX	I x S0
33	21	SIR	SOURCE INDEX	I x S1
34	22	DIR	DESTINATION INDEX	I x S2
35	23	TIR	TABLE INDEX	I x S3
		BUF3	TEMPORARY STORAGE	
36	24	LØSR	LIMIT OF STACK	I x S4
37	25	BØSR	BASE OF STACK	I x S5
38	26	F	MOST RECENT MSCW ADDRESS	I x S6
39	27	BUF	TEMPORARY STORAGE	I x S7
48	30	PBR	PROGRAM BASE	B x S0
49	31	SBR	SOURCE BASE	B x S1
50	32	DBR	DESTINATION BASE	B x S2
51	33	TBR	TABLE BASE	B x S3
		BUF2	TEMPORARY STORAGE	
52	34	S	TOP-OF-STACK ADDRESS	B x S4
53	35	SNR	STACK VECTOR INDEX OF CURRENT STACK	B x S5
54	36	PDR	ADDRESS OF CURRENT SEGMENT DESCRIPTOR	B x S6
55	37	TEMP	TEMPORARY STORAGE	B x S7

x = WRITE/READ (W/R)

B6500 SCAN-IN FUNCTION CODES

READ TIME OF DAY

RETURNED
TIME OF DAY (BINARY)

READ GENERAL CONTROL ADPT

Z = 0001 GCA A TO RESPOND
Z = 0010 GCA B TO RESPOND
Z = 0100 GCA C TO RESPOND
Z = 1000 GCA D TO RESPOND
N = 00 READ GCA INPUT REGISTER
N = 01 READ GCA INTERRUPT MASK REGISTER
N = 10 READ GCA INTERRUPT REGISTER
N = 11 READ GCA OUTPUT REGISTER

READ RESULT DESCRIPTOR

READ INTERRUPT MASK

RETURNED
ZEROS
MASK

MASK BIT	UNIT
0	MPX STATUS CHG
1	SCP 1
2	SCP 2
3	SCP 3
4	SCP 4
9	MPX I/O FINISH

READ INTERRUPT REGISTER

RETURNED
ZEROS
INT REG

INT REG. BIT	UNIT
0	MPX STATUS CHG
1	SCP 1
2	SCP 2
3	SCP 3
4	SCP 4
9	MPX I/O FINISH

INTERROGATE PERIPHERAL STATUS

M = 0 ALL MPX RESPOND
M = 1 MPX BY Z RESPOND
N = 0-7 STATUS VECTOR NUMBER
N = 8 STATUS CHG VECTOR (BINARY)

RETURNED
ZEROS
STATUS BITS

NOTE STATUS CHG VECTOR IS BITS 1-30
X = 0 STATUS WORD NOT PRESENT
X = 1 STATUS WORD PRESENT

INTERROGATE PERIPHERAL UNIT TYPE

RETURNED
ZEROS
TYPE

UNIT TYPE	TYPE CODE (HEXADECIMAL)
NO UNIT	00
DISK FILE	01
SINGLE-LINE CONTROL	02
PT READER	04
PT PUNCH	05
LP (I BUFF)	06 26 IF
LP (II UNBUFF)	07 27 EBCDIC
CARD READER	09
CARD PUNCH I	0A
CARD PUNCH II	0B
MT (II)	0D ID IF
MT (III)	0E IE SERIAL
MT (V)	0F IF TAPES

INTERROGATE I/O PATH

RETURNED
ZEROS
UNIT NO

A = 1 PATH AVAILABLE
A = 0 NO PATH

READ INTERRUPT LITERAL

RETURNED
ZEROS
UT

UT = 1111 STATUS CHG
UT = 0001 SCP 1
UT = 0010 SCP 2
UT = 0011 SCP 3
UT = 0100 SCP 4
UT = 1001 I/O FIN