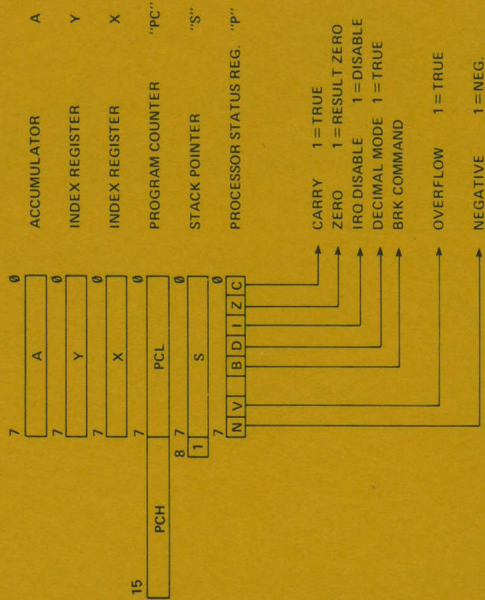


SY6500 INSTRUCTION SET SUMMARY

PROCESSOR PROGRAMMING MODEL



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MSD		LSD							
0	0000	NUL	DLE	SP	0				
1	0001	SOH	DC1	1	A	Q	a	q	
2	0010	STX	DC2	"	B	R	b	r	
3	0011	ETX	DC3	#	3	C	c	s	
4	0100	EOT	DC4	\$	4	D	d	t	
5	0101	ENG	NAK	%	5	E	U	e	v
6	0110	ACK	SYN	&	6	F	V	f	w
7	0111	BEL	ETB	.	7	G	W	g	x
8	1000	CAN	EM	(8	H	X	h	y
9	1001	HT	SUB	*	9	I	Y	i	z
10	1010	LF	ESC	+	:	J	Z	j	~
11	1011	VT	FS	/	.	K	[k	^
12	1100	FF	GS	-	<	L	\	l	_
13	1101	CR	RS	.	=	M]	m	`
14	1110	SO	VS	/	>	N	^	n	~
15	1111	SI	VS	/	?	O	_	o	DEL

ASCII CHARACTER SET (7-BIT CODE)

- OPT - SPECIFIES OPTIONS FOR ASSEMBLY
 - OPTIONS ARE: OPTIONS LISTED FIRST ARE THE DEFAULT VALUES.
 - NOC (OCC ON CNT) - DO NOT LIST ALL INSTRUCTIONS AND THEIR USAGE.
 - NOG (GEN) - DO NOT GENERATE MORE THAN ONE LINE OF CODE FOR ASCII STRINGS.
 - ERR (NOE) - CREATE AN ASSEMBLER OUTPUT FILE.
 - MEM (NOM) - CREATE AN ASSEMBLER OBJECT OUTPUT FILE.
 - LIS (NOL) - PRODUCE A FULL ASSEMBLY LISTING.
 - BYTE - PRODUCES A SINGLE BYTE IN MEMORY EQUAL TO EACH OPERAND SPECIFIED.
 - WORD - PRODUCES AN ADDRESS (2 BYTES) IN MEMORY EQUAL TO EACH OPERAND SPECIFIED.
 - DWORD - PRODUCES TWO BYTES IN MEMORY EQUAL TO EACH OPERAND SPECIFIED.
 - SKIP - GENERATE THE NUMBER OF BLANK LINES SPECIFIED BY THE OPERAND.
 - PAGE - ADVANCE THE LISTING TO THE TOP OF A NEW PAGE AND CHANGE TITLE.
 - END - DEFINES THE END OF A SOURCE PROGRAM.
 - * - DEFINES THE BEGINNING OF A NEW PROGRAM COUNTER SEQUENCE.
- LABELS ARE THE FIRST FIELD AND MUST BE FOLLOWED BY AT LEAST ONE SPACE CHARACTER.
- A,X,Y,S,P AND THE 56 OPCODES ARE RESERVED AND CANNOT BE USED AS LABELS. LABEL = EXPRESSION CAN BE USED TO EQUATE LABELS TO VALUES.
- DEL, ** +N CAN BE USED TO RESERVE AREAS IN MEMORY.
- CHARACTERS USED AS SPECIAL PREFIXES:
- INDICATES AN ASSEMBLER DIRECTIVE
 - = SPECIFIES THE IMMEDIATE MODE OF ADDRESSING
 - \$ SPECIFIES A HEXADECIMAL NUMBER
 - @ SPECIFIES AN OCTAL NUMBER
 - % SPECIFIES A BINARY NUMBER
 - / SPECIFIES AN ASCII LITERAL CHARACTER
 - () INDICATES INDIRECT ADDRESSING
 - : INDICATES FOLLOWING TEXT ARE COMMENTS
 - < SPECIFIES LOWER HALF OF A 16 BIT VALUE
 - > SPECIFIES UPPER HALF OF A 16 BIT VALUE

