

STANDARD SOFTWARE SWITCH SETTINGS

BINARY BOOTSTRAP LOADER

ASSEMBLER:
 SSO SET .
 1 SET - NO LISTING; RESET - LISTING OUTPUT
 2 SET - NO OBJECT; RESET - OBJECT OUTPUT
 3 SET - ERROR LIST ONLY
 4 SET - LIST ON ASR; RESET - LIST ON LINE PRINTER
 5 SET - PAPER TAPE SOURCE; RESET - CARD SOURCE
 6 SET - OBJECT ON ASR; RESET - OBJECT ON H.S. PAPER TAPE
 7 SET - LIST SYMBOL TABLE
 8 SET - SOURCE ON ASR (READER); RESET - SOURCE ON H.S. PAPER TAPE
 9 SET - SOURCE ON KEYBOARD
 10 SET - PASS 2 AFTER PASS 2
 11 SET - SOURCE ON MAG. TAPE 1
 12 SET - OBJECT ON MAG. TAPE 2
 13 SET - LIST ON MAG. TAPE 3

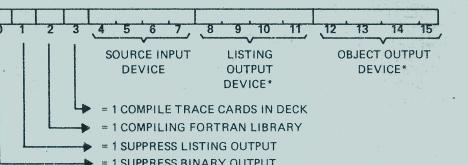
LOADER (REL):
 SSO SET - LOAD ON H.S. PAPER TAPE; RESET - LOAD ON ASR
 1 SET - LIST ALL SUBROUTINES
 2 SET - LIST UNLOADED SUBROUTINES ONLY
 3 SET - LOAD FROM MAG. TAPE

LOADER (ABS):
 SSO SET - LOAD ON H.S. PAPER TAPE; RESET - LOAD ON ASR
 1 SET - LOAD INTERMAP. REF. AT END

DUMP (ABS):
 SSO SET - DUMP ON H.S. PAPER TAPE; RESET - LOAD ON ASR
 1 SET - DUMP INTERMAP. REF. AT END

DEBUG:
 SSO SET - LOAD & DUMP ON H.S. PAPER TAPE; RESET - LOAD & DUMP ON ASR

*NOTE: TO OBTAIN ERROR LIST ONLY, SWITCHES 1 AND 3 MUST BE SET.

COMPILER SETTINGS
(A ACCUMULATOR ENTRIES)

- *LOGICAL DEVICE NUMBERS:
 NOTE: SENSE SWITCH 0 MUST BE SET FOR COMPILER - GENERATED
 1. ASR KEYBOARD/PRINTER
 2. H.S. PAPER TAPE READER/PUNCH
 3. CARD READER/PUNCH
 4. LINE PRINTER
 5. ASR PAPER TAPE READER/PUNCH
 6. MAGNETIC TAPE 0
 7. MAGNETIC TAPE 1
- OBJECT CODING TO BE LISTED WITH SOURCE STATEMENTS

MNEMONIC INSTRUCTIONS

ASSEMBLER:	SSO	SET .	MNEMONIC	OP CODE	FUNCTION	TIMING (CYCLES)	MNEMONIC	OP CODE	FUNCTION	TIMING (CYCLES)	SYM. LOC.	OPER.	ADDRESS-INDEX	OCTAL LOC.	CODING
	1	SET - NO LISTING; RESET - LISTING OUTPUT	ABA'	00-27	AND A AND B	1	SAZ'	00-22	SKIP IF A IS ZERO	1	STR	CEU	U,W	0	130100
	2	SET - NO OBJECT; RESET - OBJECT OUTPUT	AIP'	1702	ACCUMULATOR WORD IN FROM UNIT	Note e	SMA	06	SUBTRACT MEMORY FROM A	2	DATA	AIP	U,W	1	00X000
	3	SET - ERROR LIST ONLY	AMA'	05	ADD MEMORY TO A	2	SNO'	00-32	SKIP IF A IS NORMALIZED	1	SAZ	SAZ		2	17030U
	4	SET - LIST ON ASR; RESET - LIST ON LINE PRINTER	AMB'	16	ADD MEMORY TO B	2	SOF'	00-25	SKIP IF CONTROL SWITCH NOT SET	1	BRU	*	+2	000022	
	5	SET - PAPER TAPE SOURCE; RESET - CARD SOURCE	AOP'	1700	ACCUMULATOR WORD OUT TO UNIT	Note e	SPB	12	SKIP NO OVERFLOW	1	BRU	*	+3	111006	
	6	SET - OBJECT ON ASR; RESET - OBJECT ON H.S. PAPER TAPE	ASC'	00-20	COMPLEMENT A SIGN	1	STA	03	STORE PLACE AND BRANCH	2	BRU	*	+5	111002	
	7	SET - LIST SYMBOL TABLE	BRU	1CY	UNCONDITIONAL BRANCH	1	STB	04	STORE B IN MEMORY	2	BRU	*	+6	17030U	
	8	SET - SOURCE ON ASR (READER); RESET - SOURCE ON H.S. PAPER TAPE	CEU'	13.0IM.0	COMMAND EXTERNAL UNIT	Note e	• STX'	00-44	STORE INDEX REGISTER	2	AIP	U,W,R	10	001016	
	9	SET - SOURCE ON KEYBOARD	CLA'	00-03	CLEAR A	1	• SXB'	00-50	SKIP IF INDEX POINTER IS SET TO B	1	STA*	DAC 1	11	033016	
	10	SET - PASS 2 AFTER PASS 2	CMA	3CY	COMPARE MEMORY AND A (3 WAY)	3	• TAX'	00-52	TRANSFER A TO B	1	SAZ	DAC 2	12	000022	
	11	SET - SOURCE ON MAG. TAPE 1	CNS'	00-34	CONVERT NUMBER SYSTEM	1	TAB'	00-05	TRANSFER A-ACCUMULATOR TO HARDWARE	1	IBS	DAC 1	13	000026	
	12	SET - OBJECT ON MAG. TAPE 2	CSB'	00-07	TRANSFER B SIGN TO CARRY AND SET B SIGN POSITIVE	1	TBA'	00-04	TRANSFER B TO A	1	BRU*	DAC 2	14	113017	
	13	SET - LIST ON MAG. TAPE 3	DIV	10	DIVIDE A AND B BY MEMORY	Note g	• TBP'	00-40	TRANSFER B-ACCUMULATOR TO PROTECT REGISTER	1	BRU	READ	15	111006	
			FLA'	00-17	LEFT SHIFT A AND B	Note f	TBV'	00-42	TRANSFER B-ACCUMULATOR TO VBR	1	DAC 1	CHAN 2, 1	16	107671	
			FLL'	00-13	LEFT LOGICAL SHIFT A AND B	Note f	TEU'	13.0IM.2	TEST EXTERNAL UNIT	Note e	DAC 2	CHAN	17	007673	
			FRA'	00-12	RIGHT SHIFT A AND B	Note f	TOI'	00-35	TURN OFF INTERRUPT	1					
			FRL'	00-14	FULL ROTATE LOGICAL A AND B LEFT	Note f	• TXA'	00-41	TRANSFER PROTECT REGISTER TO B-ACCUMULATOR	1					
			HLT'	00-00	HALT	1			TRANSFER VBR TO B-ACCUMULATOR	1					
			IAB'	00-06	INTERCHANGE A AND B	1			TRANSFER HARDWARE INDEX REGISTER TO A-ACCUMULATOR	1					
			IBS'	00-26	INCREMENT B (INDEX) AND SKIP IF 0	1									
			IMS	3CY	INCREMENT MEMORY AND SKIP IF 0	3									
			• IXS'	00-51	INCREMENT INDEX AND SKIP IF 0	1-2									
			LAA	01	LOAD A FROM MEMORY	2									
			LBA	02	LOAD B FROM MEMORY	2									
			LCS'	00-31	LOAD CONTROL SWITCHES IN A	1									
			• LIX'	00-45	LOAD INDEX REGISTER	2									
			LOB'	00-36	LONG BRANCH	2									
			LSA'	00-11	LEFT SHIFT A	Note f									
			LSL'	00-16	LEFT LOGICAL SHIFT A	Note f									
			MIP'	17.0IM.6	MEMORY WORD IN FROM UNIT	Note e									
			MOP'	17.0IM.4	MEMORY WORD OUT TO UNIT	Note e									
			MPY'	07	MULTIPLY B TIMES MEMORY	Note h									
			NEG'	00-02	NEGATE A	1									
			NOP'	00-33	NO OPERATION	1									
			OBA'	00-30	OR A AND B	1									
			• OVS'	00-37	SET OVERFLOW	1									
			PID'	130601	DISABLE INTERRUPT	2									
			PIE'	130600	ENABLE INTERRUPT	2									
			• POF'	002041	PROTECT BIT OFF	2									
			• PON'	002040	PROTECT BIT ON	2									
			RNA'	00-01	ROUND A BY MSB IN B	1									
			RSR'	00-10	RIGHT SHIFT A	Note f									
			RSL'	00-15	RIGHT LOGICAL SHIFT A	Note f									
			SAN'	00-23	SKIP IF A IS NEGATIVE	1									
			SAP'	00-24	SKIP IF A IS POSITIVE	1									
			SAS'	00-21	SKIP ON A SIGN (3 WAY)	1									
					n + 1(+), n + 2(0), n + 3(+)										

TELETYPE CODES (OCTAL)	ALPHABETIC CHARACTERS	OCTAL CODES ASR-33/ASR-35	NUMERIC CHARACTERS	OCTAL CODES ASR-33/ASR-35	SPECIAL SYMBOLS	OCTAL CODES ASR-33/ASR-35
	A	301	0	260	@	300
	B	302	1	261	[333
	C	303	2	262	\Form	334
	D	304	3	263]	335
	E	305	4	264	^	336
	F	306	5	265	↓	337
	G	307	6	266	Space	240
	H	310	7	267	!	241
	I	311	8	270	"	242
	J	312	9	271	#	243
	K	313			\$	244
	L	314			%	245
	M	315			&	246
	N	316			~	247
	O	317			Carriage Return	215
	P	320			Line Feed	212
	Q	321			Bell	207
	R	322			Delete	253
	S	323			+	254
	T	324			,	255
	U	325			.	256
	V	326			/	257
	W	327			:	272
	X	330			:	273
	Y	331			<	274
	Z	332			>	275
					?	276
						277

CHAN 37673-ABSL
CHAN 36017-REL LOADER
CHAN 37561-ABSD