CRT CONTROLLER PROGRAM LISTING



JOHN BELL ENGINEERING

LDC	Cao	LINE		SOURCE	STATEMENT
		37		ASEG	
6000		38		ORG	6000H ; START OF RAM.
		39			
			RAM:		
6000			TOPDIS:		LINSIZ*NUMLIN-1
67CF			BOTDIS:	DS	1
			LAST:		t.
4 27 5		44		an a	2*((\$+1)/2) ; ALION TO EVEN ADDRESS.
6700		45	1075.	DRG DS	2*((\$+1)/2) ;ALION TO EVEN ADDRESS. 4 ;BUFFER USED TO INIT 8275,8253.
67DO		47	LD75:	ມລ	4 INOPPER OBEDE O INTI BEISTOESS.
67D4~			CURAD:	ps	2
67D4			TOPAD:	ps	2
67D8			LOCBO:	DS	2
67.DA			CURSY:	DS	1
67DB			CURSX:	DS	ī
67DC			USCHR:	DS	1
67DD			KEYDWN:	DS	1
67DE		55	KBCHR:	2a	1
67DF		56	BAUD:	DS	1
67E0			KEYOK:	DS	1
67E1		50	ESCP:	DS	1
67E2		59	SHCON:	DS	1
67E3			RETLIN:		1
67E4			SCNLIN:		i
67E5			LINCHT:	DS	1
		63			maka good a goodbala gragu
0086			STPTR	EQU	RAM+BOOH ; PROGRAM STACK.
6FD0			CS75	EQU	LD75+800H TOPDIS+1000H ; RAM + 8275 DACK
7000			DACK	EQU	TOPDIS+1000H ; RAM + 8275 DACK LD75+1800H ; RAM + 8253 CS.
7FD0 4000			BASE53 BASE55	EQU EQU	4000H ; 8255 BASE ADDRESS.
4000			PORTA	EQU	BASE55+O ;
4001			PORTB	EQU	BASE55+1 ;
4002			PORTC	EQU	BASE55+2 ;
4003			CMD55	EQU	BASE55+3 ;
2000			BASE51	EQU	2000H ;8251 BASE ADDRESS.
2000			SERDAT	EQU	BASE51+O
2001		75	SERCMD	EQU	BASE51+1
7FD0		76	CNTO	EQU	BASE53+0
7F1/1		77	CNT1	EQU	BASE53+1
7FD2			CNT2	EQU	BASE53+2
7FD3			CNTM	EQU	BASE53+3
6FD0			CRTPAR	EQU	CS75+0
6FD1			CRTCMD	EQU	CS75+1
0018			CURBOT	EQU	NUMLIN-1
8000			VRTC	EQU	OBH ; CONNECTED TO 8255A PORT C BIT 3
0800			LCL	EQU	BOH ; CONNECTED TO 8255A PORT C BIT 7
OOFO			EOR	EQU	OFOH ; END-OF-ROW CMD FOR 8275.
		86	#E/JECT		

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LOC	עמט	LINE		SOURCE	STATEMENT	
		87				
		88		ASEG		
0000		89		DRG	0	
		90	; INITIA	LIZE VA	ARIABLES.	
0000	F3	91	INIT:	DΙ		DISABLE INTERRUPTS
0001	310068	92		LXI	SP, STPTR	; LOAD STACK POINTER
0004	210060	93		LXI	H, TOPDIS	; LOAD H&L WITH TOP OF DISPLAY
0007	220667	94		SHLD	TOPAD	SET TOP = TOP OF DISPLAY
000A	220467	95		SHLD	CURAD	STORE THE CURRENT ADDRESS
OOOD	21DA67	96		LXI	H, CURSY	CLEAR VARIABLES 'CURSY' TO 'LINCHT'
0010	OEOB	97		MVI	C, LINCNT-CURSY	•
0012	3600	78	INIT1:	MVI	M, 0	
0014	23	99		INX	. Н	* · · · · · · · · · · · · · · · · · · ·
0015		100		DCR	С	
	C21200	101		JNZ	INIT1	
0019	3619	102		MVI	M, NUMLIN	; INIT LINCNT
		103				E ENTIRE SCREEN BY PUTTING
		104		; SPACE	CODES (20H) IN E	VERY LOCATION ON THE SCREEN.
		105		;		
	01D067	106		LXI	B, LAST	
	210060	107		LXI	H, TOPDIS	
	1E20	108		MVI	E, ' '	
0023			LOOPF:	MOV	M, E	
0024		110		INX	H	
0025		111		MOV	A, L	
0026	• • •	112		CMP	С	
	C55300	113		JNZ	LOOPF	
002A		114		MOV	A, H	
0058		115		CMP	В	
	000230	116		JNZ	LOOPE	
OORE	COMAED	117		JMP	INIT55	
		118				
		119	\$EJECT			

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rac ash
                  LINE
                               SOURCE STATEMENT
                   120 FRST 6.5 LINE INTERRUPT ROUTING.
                   121 ; THIS ROUTINE IS EXECUTED ONCE EVERY CHARACTER LINE.
                   122 THE PROCESSOR THEN SENDS THE NEXT LIME TO THE 8275 ROW DUFFER,
                   123 ; THEN CHECKS TO SEE IF IT IS THE LAST LINE IN THE FRAME.
0034
                   124
                                ORG
                                        34H
0034 F5
                   125 POPDAT: PUSH
                                        PSW
                                                         ; SAVE A AND FLAGS
0035 D5
                 . 126
                                PUSH
                                        g
                                                         ; SAVE D AND E
0036 E5
                   127
                                PUSH
                                        Н
                                                         ; SAVE H AND L
0037 210000
                   128
                                LXI
                                        H, 0000H
                                                         ; ZERO H AND L
003A 39
                   129
                                DAD
                                                         ; PUT STACK POINTER IN H AND L
OOBB EB
                   130
                                XCHQ
                                                         FUT STACK IN D AND E
003C 2AD467
                   131
                                LHLD
                                        CURAD
                                                         ; GET POINTER
003F 310010
                   132
                                LXI
                                        SP, DACK-TOPDIS ; ADD DACK OFFSET.
0042 39
                   133
                                DAD
0043 F9
                   134
                                SPHL
                                                         ; BUT CURRENT LINE INTO SP
                   135
                                REPT (LINSIZ/2)
                   136
                                POP
                                        Н
                   137
                                MACINE
0044 E1
                   138+
                                POP
                                        Н
0045 E1
                   139+
                                POP
                                        Н
0046 E1
                   140+
                                POP
                                        Н
0047 E1
                   141+
                                POP
0048 E1
                   142+
                                POP
                                        Н
0049 E1
                   143+
                                POP
                                        Н
004A E1
                   144+
                                POP
                                        Н
004B E1
                   145+
                                POP
                                        Н
004C E1
                   146+
                                POP
                                        Н
004D E1
                   147+
                                POP
                                        Н
004E E1
                   148+
                                POP
                                        Н
004F E1
                   149+
                                POP
                                        11
0050 E1
                   150+
                                POP
                                        Н
0051 E1
                   151+
                                POP
                                        Н
0052 E1
                   152+
                                POP
                                        Н
0053 E1
                   153+
                                POP
                                        Н
0054 E1
                   154+
                                POP
                                        Н
0055 E1
                   155+
                                POP
                                        Н
0056 E1
                   156+
                                POP
                                        Н
0057 E1
                   157+
                                POP
                                        Н
0058 E1
                   158+
                                POP
                                        Н
0059 E1
                   159+
                                POP
                                        Н
005A E1
                   160+
                                POP
                                        Н
005B E1
                   161+
                                POP
                                        Н
005C E1
                   162+
                               POP
005D E1
                   163+
                               POP
                                        Н
Q05E E1
                   164+
                               POP
                                        Н
005F E1
                   165+
                               POP
                                        Н
0060 E1
                   166+
                               POP
                                        Н
0051 E1
                   167+
                               POP
                                        H
0052 E1
                   148+
                               POP
                                        Н
0043 E1
                   169+
                                POP
                                        Н
0064 E1
                   170+
                               POP
                                        Н
0065 E1
                   171+
                               POP
                                        Н
0066 E1
                   172+
                               POP
                                        Н
0067 E1
                  173+
                               POP
                                        Н
0068 E1
                  174+
                               909
                                        Н
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LOC	เสอ	LINE	SUURCE S	TATEMENT	
0049		175+	PDP	H	
006A 8600		176+	POP	H	
	2100F0	177+ 178	POP	H TODDIE DANK	And all the second seco
006F		179	LXI DAD	H, TOPDIS-DACK	
0070		180	XCHG	ar	ADD STACK
0071		181	SPHL		;PUT STACK IN H AND L ;RESTORE STACK
00,1	1 7			LAY MEMORY WRA	
0072	213078	183	LXI	H, - (LAST)	H BIVOOTAN
0075		184	DAD	D (Zilel)	A.c.
0076		185	XCHQ	~	
	D27D00	184	JNC	NOWRAP	
	210060	187	LXI	H, TOPDIS	
0070	22D467	188 NOWRAP:	SHLD	CURAD	PUT BACK CURRENT ADDRESS
		187			
		190 ; CHECK	FOR LAST	LINE IN THE F	RANE.
0080	21E567	191	LXI	H, LINCNT	
0083	35	192	DCR	М	
0084	C54800	193	JNZ	LINE ; JMP	IF MORE LINES.
0087	3619	194	MVI	M, NUMLIN; RE-1	NIT LINE COUNT.
		195	;		
		196		ROUTINE.	
		197			THE BAUD RATE SWITCHES, RESETS THE
		198	; SCREEN	POINTERS AND	READS AND LOOKS UP THE KEYBOARD.
		199	;		
		200		THE POINTERS	
0.000	0.5	201	;	•	
0089		202 FRAME:	PUSH	B	
	2AD667	203	LHLD	TOPAD	; LOAD TOP IN H AND L
นอบบ	220467	204 205	SHLD	CURAD	STORE TOP IN CURRENT ADDRESS
		204	; .eem lie	BAUD RATE	
		207	ibel or	BHOD KAIE	
0090	3A0240	208	, LDA	PORTC	READ BAUD RATE SWITCHES
	E607	209	ANI	111B	THEND DAOD KATE BATTCHED
	21DF47	210	LXI	H, BAUD	
0098		211	CMP	M	
	C48904	212	CNZ	STB1	; IF NOT SAME, THEN CHANGE USART CLOCKS.
		213	1		, it has affile, friend binings bonner bedding.
		214	READ K	EYBOARD	
		215	j		
0090	3ADD67	216	LDA	KEYDWN	;SEE IF A KEY IS DOWN
009F	E640	217	ANI	40H	SET THE FLAGS
00A1	C2B501	218	JNZ	KYDOWN	; IF KEY IS DOWN JUMP AROUND
00A4	CDSCO1	219	CALL	RDKB	GO READ THE KEYBOARD
00A7	C1	220 EFRAME:	POP	В	
		221			•
8A00		222 LINE:	POP	Н	• •
00A9		223	POP	D	
AAOO		224	POP	PSW	
BACO		225	EI		
OOAC	U7	226	RET		
		227	er noven	ግሊኒ ገልነም ምንላ ነ ምንላ ጉግ	TONE PONTERNICO INCOM
OOAD	acan	228 ; KEST C			ION CONTINUES HERE.
พบกบ	ULUD	EET INITIOD:	1.1 A.T	A, BUH	MOVE 8255 CONTROL WORD INTO A

LOC	Cao	LINE		SOURCE	STATEMENT		
		230		STA	CMD55		. THE CONTROL LEADS THE COLL
OUAF	320340	230		SIA ;	CPIDSS		; PUT CONTROL WORD INTO 8255
		232			INITIALIZA	NOITA	
		233		;			
0085	210120	234	INIT51:	ΓXΙ	H, SERCM		; PQINT TO 8251A COMMAND REGISTER.
	3580	235		MVI	HOB IM		DUMMY STORE TO 8251
	3400	236		MVI	M, OOH		;RESET 8251
	3640	237		MVI	M, 40H		
OOBC		238 239		NOP NOP			; WAIT FOR RESET TO OCCUR.
QBOO		240		100F			
OOBE		241		NOP			
	36EA	242		MVI	M. OEAH	; 2 STOP	BITS, NO PARITY, 16X RATE, 8 DATA BITS
	3627	243		MVI	M, 27H		RTS, TX, RX.
		244		;			*
		245		: 8253	INITIALIZA	ATION	e.
		246		;			
	3E32	247		MVI	A, 32H		; CONTROL WORD FOR 8253
	32D37F	248		STA	CNTM		;PUT CONTROL WORD INTO 8253
	3E32	249		MVI	A, 32H		; LSB 8253
	32D07F	250		STA	A, 32H CNTO CNTO		; PUT IT IN 8253
	3E00 32D07F	251 252		MVI STA	A, OUH		;MSD 8253 ;PUT IT IN 8253
	CD8104	253		CALL	STBAUD		; GO DO BAUD RATE
OUL	OLDIO (254		;	aranos		TOO DO DAYD MALE
		255			INITIALIZA	ATION	
		256		;			
0005	11016F	257	IN75:	LXI	D, CRTCMI	D	
	21D167	258		LXI	H, LD75+:		
	3600	259		MVI	M, OOH		RESET AND STOP DISPLAY
ddoo		260		LDAX	D		
OODE		261		DCX	D 		- 111 + 0.0011
OODF OOEO		262 263		DCX MVI	H M, LINSI:		; HL=1000H
00ES		264		LDAX	D D	21	
00E3		265		MVI		NUMLIN-1)	; 2 ROWS/VRTC, (NUMLIN) CHARACTER ROWS
00E5		266		LDAX	D C		
00E6		267		MVI	M, 89H	; UNDERLI	(NE ROW 8, 10 HRTC/CHAR.
00E8	1A	248		LDAX	α		
00E9		259		MVI	M, ODDH; N	VON-OFFSE	ET, TRANSPARENT, BLINK UNDERLINE, HRTC=28 CCLK
COEB		270		LDAX	a		
	CD7003	271		CALL	LDCUR		; LOAD THE CURSOR
OOEF		272		INX	H		
00F0		273		INX	D CERN		- DOEGET OOLWITEIG
00F1 00F3		274 275		MVI LDAX	M, OEOH		; PRESET COUNTERS
00F4		276		MVI	M, 53H		START DISPLAY
00F6		277		LDAX	D ESIT		, alluli prolent
00.0	~**		CRT IN			COMPLETE	AT THIS POINT, AND VRTC AND HRTC ARE
		279	FREE-R	UNNING.	INTERRUP	TS WILL N	NOT BE ENABLED UNTIL THE FIRST VERTICAL
		280	RETRAC	E INTER	NVAL. THIS	WILL SYN	IC THE SOFTWARE TO THE CRT DMA REQUESTS.
		281	; VRTC I	TIMOM 2	ORED VIA I	3IT 7 OF	THE 8255A. WHEN A L-TO-H IS
					PROGRAM W	VILL DROF	THRU TO THE IDLE LOOP AND ENABLE
0.000			; INTERR				•
QOF 7	210240	284		LXI	H, PORTC		

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100	רתט	LINE	:	BOURCE :	STATEMENT			
OOFA	.71=	285	11475A.	MűU	Α, Μ			
	E608	285	1147 014.	ANI	VRTC			
	C2FA00	287		. 1117	1N75A			
	7E	288	INV5B:	1:1/11/2	A, M			
		289		ANI	VRTC			
	CA0001	290		JZ	IN75B		" ·	
0100	0110001	291		OL.	1147 511			
		292	THIS T	S THE C	RT IDIF IO	OP THE	LINE/LOCAL SWITCH IS MONI	TOREN.
		273	AND AN	Y KEY D	FPRESSIONS	ERFOM .	THE PREVIOUS FRAME INTERRU	PT ARE
					SPONDINGLY		THE THEY LOOK THINKS	
0106	3E18		SETUP:		A, 18H	•	; SEÎ MASK	
0108		296		SIM			LOAD MASK	
0109		297		ΕI			; ENABLE INTERRUPTS	
		298		j				
		299		READ	THE USART		_	
		300		j			ve:	
010A	3A0240	301	RXRDY:	LDA	PORTC	; TEST L	INE/LOCAL SWITCH.	
010D	E480	302		ANI	LCL.			
	C21A01	303		JNZ	KEYINP		;LEAVE IF IN LOCAL	
0112	0210AE	304		LDA	SERCMD		READ 8251 FLAGS	
	E905	305		ANI	OEH		LOOK AT RXRDY	
	C25701	306		JNZ	OK7		; IF HAVE CHARACTER GO TO	WORK
	3ADD67	307	KEYINP:	LDA	KEYDWN		JGET KEYBOARD CHARACTER	
		308		ANI	BOH		; IS IT THERE	
	C22D01	309 310		JNZ	KEYS		; IF KEY IS PUSHED LEAVE	
		310		MVI	A, 00H		; ZERO A	
	32E067	311		STA	KEYOK		INE/LOCAL SWITCH. ; LEAVE IF IN LOCAL ; READ 8251 FLAGS ; LOOK AT RXRDY ; IF HAVE CHARACTER GO TO ; GET KEYBOARD CHARACTER ; IS IT THERE ; IF KEY IS PUSHED LEAVE ; ZERO A ; CLEAR KEYOK	
0127	C30A01	014		HMP	RXRDY		;LOOP AGAIN	
		313			LINDTION			
			; AUTO-RI ; NOT IM					
0170	10A0E0							
OIEA	CHORDI	317	MELENT.	OH	KVKD1			
		318	: PROCRAI	M REACH	ES THIS PO	THE I	KEY DEPRESSION WAS SENSES	
		319	DURTNO	LAST KI	EYBOARD SC	AN	MET DE MEDUTON MID CENTULO	
0120	3AE067	320	KEYS:	L.DA	KEYOK		; WAS KEY DOWN	
0130	4F	321		MOV	C, A		; SAVE A IN C	
0131	3ADE47	322		LDA	KBCHR		GET KEYBOARD CHARACTER	
0134	B9	323		CMP	С		; IS IT THE SAME AS KEYOK	
0135	CA2A01	324		JZ	REPEAT		; CHECK FOR KEY REPEAT.	
0138	32E047	325		STA	KEYOK		; IF NOT SAVE IT	
	32DC67	326		STA	USCHR		; SAVE IT	
	3A0240	327		LDA	PORTC		; TEST LINE/LOCAL SWITCH.	
	E480	328		INA	LCL			
	C25F01	329		JNZ	CHREC		; JMP IF IN LOCAL MODE.	
	0210AE	330	TRANS:	LDA	SERCMD		GET USART FLAGS	_
	E601	331		ANI	RXRDY ES THIS PO EYDOARD SC KEYOK C, A KBCHR C REPEAT KEYOK USCHR PORTC LCL CHREC SERCMD 01H TRANS USCHR SETUP SERDAT O7FH USCHR		READY TO TRANSMIT?	
	CA4401	332		JZ	TRANS		LOOP IF NOT READY	
	3ADC67	333		LDA	USCHR		GET CHARACTER	1
	320020	334		SIA	SERDAT		PUT IN USART	1
	030601	335	01/7.	ONE	BETUP CEDEAT		LEAVE	
	3A0020 E67F	335 227	UK71	LUA	DEKUAI		READ USART	
	320067	337		C, J, V WIAT	U/FH Hecup		;STRIP MSB ;PUT IT IN MEMORY	
0150	JEU/0/ ,	220		SIM	VOCHK		TIOF IT IN DEPORT	
		UU 7						

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LOC	OBY	LINE	SOURCE S	TATEMENT	
0188	フロ	395	MOV	Λ M	. DUT COAN I THE TH A
	320040	396	STA	A, M PORTA	PUT SCAN LINE IN A
OIBC		377	DCX	H	OUTPUT SCAN LINE TO PORT A
	3A0140	398	LDA	PORTB	POINT AT RETURN LINE
0100		399			GET RETURN LINES
0101			ORA	М	; ARE THEY THE SAME?
0102		400	CMA		; INVERT A
		401	ORA	A	; SET FLAGS
	CA2102	402	JZ	KYCHNG	; IF DIFFERENT KEY HAS CHANGED
	GADD67	403	LDA	KEYDWN	GET KEY DOWN
	E601	404	ANI	01H	HAS THIS BEEN DONE BEFORE?
	C2A700	405	JNZ	EFRAME	;LEAVE IF IT HAS
	3A0140	406 .	LDA	PORTB	GET RETURN LINE
	06FF	407	MVI	B, OFFH	GET READY TO ZERO B
01D3		408 UP:	INR	В	; ZERO B
01D4		409	RRC		; ROTATE A
	DADGO1	410	JC	UP	;ĎO IT AGAIN
0108	23	411	INX	Н	; POINT H AT SCAN LINES
0109	7E	412	MOV	A, M	; GET SCAN LINES
O1DA	0EFF	413	MVI	C, OFFH	GET READY TO LOOP
OIDC	OC	414 UP1:	INR	С	START C COUNTING
01DD	OF	415	RRC		; ROTATE A
OIDE	DADCO1	416	JC	UP 1	JUMP TO LOOP
01E1	78	417	MOV	A, B	GET RETURN LINES
01E2	07	418	RLC		; MOVE OVER ONCE
01E3	07	419	RLC		; MOVE OVER TWICE
01E4	07	420	RLC	,	; MOVE OVER THREE TIMES
01E5	B1	421	ORA	С	OR SCAN AND RETURN LINES
01E6	47	422	VOM	В. А	SAVE A IN B
01E7	3A0240	423	LDA	PORTC	GET SHIFT CONTROL
	E640	424	ANI	40H	; IS CONTROL SET
01EC		425	MOV	C. A	; SAVE A IN C
	3AE267	426	LDA	SHCON	GET SHIFT CONTROL
01F0		427	MOV	D, A	; SAVE A IN D
	E640	428	ANI	40H	STRIP CONTROL
01F3		429	ORA	C	SET BIT
	CA3902	430	JZ	CNTDWN	; IF SET LEAVE
	3A0240	431	LDA	PORTC	; READ IT AGAIN
	E620	432	ANI		STRIP SHIFT
OIFC		433	MOV		;SAVE A
OIFD		434	MOV	A, D	
	E620	435	ANI		; CET SHIFT CONTROL
0200		436			STRIP CONTROL
	CA4202		ORA		; ARE THEY THE SAME?
0201		437	JZ	SHDWN	; IF SET LEAVE
		438 SCR:	MOV	E, B	PUT TARGET IN E
	1600	439	MVI	D, 00H	; ZERO D
	210304	440	LXI	H, KYLKUP	GET LOOKUP TABLE
020A		441	DAD	D	GET OFFSET
0208		442	MUV	A, M	GET CHARACTER
0200		443	MOV		; PUT CHARACTER IN B
	3A0240	444	LDA		GET PORTC
	E610	445	ANI		STRIP BIT
	CA2902	446	JZ		; CAPS LOCK
0215		447	MOV		JOET A BACK
	320267	448 STKEY:	STA		; SAVE CHARACTER
0219	JEC1	449	MVI	A, OC1H	; SET A

LDC OBC	LINE	:	SOURCE S	TATEMENT	
021E 32D	0067 450		STA	KEYDUN	; SAVE KEY DOWN
021E C3A			JMP	EFRAME	; LEAVE
5001 000	452		h41 1 T		
0221 3EC		KYCHNO:	STA	A, OOH KEYDWN	; ZERO O ; RESET KEY DOWN
0226 034			JMP	EFRAME) LEAVE
	456		;	National Property of the Control of	S.
	457				IS PUSHED THIS ROUTINE SEES IF
	458				FN 61H AND 7AH AND IF IT IS THIS
	459 460				HE CHARACTER IS LOWER CASE ASCII CH CONVERTS THE CHARACTER TO
	461			CASE ASCII	OF CONVENTS THE CHARACTER TO
	462		1		
0229 78		CAPLOC:		A, B	GET A BACK
OPPA FEA			CPI	40H	; HOW BIG IS IT?
022C DA1			JC CPI	STKEY 7BH	LEAVE IF IT'S TOO SMALL
0231 D21			JNC	STKEY	;IS IT TOO BIG ;LEAVE IF TOO BIG
0234 D62				20H	ADJUST A
0235 C31	602 469		JMP	STKEY	; STORE THE KEY
	470		;		
	471 472				CNTDWN SET BIT 6 AND 7 RESPECTIVLY
	473		; IN THE.	ACC.	
0239 3E8		CNTDWN:		A, 80H	SET BIT 7 IN A
023B B0	475		ORA	B	; OR WITH CHARACTER
023C EAB			ANI	OBFH	; MAKE SURE SHIFT IS NOT SET
023E 47 023F 030	·477 402 478		MOV JMP	B, A SCR	; PUT IT BACK IN B
0242 364		SHDWN:	MVI	A, 40H	SET BIT 6 IN A
0244 BO	480		ORA .	В	OR WITH CHARACTER
0245 47	481		MOV	B, A	; PUT IT BACK IN B
0246 C30	402 482 483		JMP /	SCR	; GO BACK
	484		; :THIS RI	OUTINE RESETS THE	E ESCAPE LOCATION AND DECODES
	485				40 AN ESCAPE. THE COMMANDS ARE
	486				CREDIT TEXT EDITOR
0040 000	487		;		**************************************
0249 3E0 0248 32E		ESSQ:	MVI STA	A, OOH ESCP	; ZERO A ; RESET ESCP
024E 3AD			LDA	USCHR	GET CHARACTER
0251 FE4			CPI	′B′	INDOM
0253 CA7			JZ	DOMN	; MOVE CURSOR DOWN
0256 FE4			CPI	'E' '	CLEAR SCREEN CHARACTER
0258 CA9			JZ CPI	CLEAR 'J'	CLEAR THE SCREEN CLEAR REST OF SCREEN
025D CAA			JZ	CLRST	OO CLEAR THE REST OF THE SCREEN
0240 FE4			CPI	'K'	CLEAR LINE CHARACTER
0242 CAD			JZ	CLRLIN	GO CLEAR A LINE
0265 FE4			CPI	'A'	CURSOR UP CHARACTER
0267 CAE 026A FE4			JZ CPI	UPCUR 'C'	MOVE CURSOR UP CURSOR RIGHT CHARACTER
025C CAF			JZ	RIGHT	MOVE CURSOR TO THE RIGHT
026F FE4			CFI	,D,	CURSOR LEFT CHARACTER
0271 CA2	603 504		JZ	LEFT	AMOVE CURSOR TO THE LEFT

LOC	OBA	LINE		SOURCE	STATEMEN	ıT	
0274	FE48	± ስ ጫ		CEI	′H ′		HOME CURSOR CHARACTER
	CA4F03	505		JZ	HOME		HOME THE CURSOR
		504 507		JMP	CHALLE.		
02/9	C30401				SETUP		LEAVE
		508		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	C1 (C1 1) CC T 1 1 1 CC		THE STATE OF THE S
		509		; THIS	ROUTINE	MOVES THE	CURSOR DOWN ONE CHARACTER LINE
		510		;			
027C	3ADA67	511	DOWN:		CURSY		PUT CURSOR Y IN A
	FE18	512		CPI	CURBOT	•	; SEE IF ON BOTTOM OF SCREEN
0281	CA0601	513		JZ	SETUP		; LEAVE IF ON BOTTOM
0284	3C	514		INR	Α		; INCREMENT Y CURSOR
0285	32DA67	515		ATE	CURSY		; SAVÊ NEW CURSOR
	CD7003			CALL	LDCUR		; LOAD THE CURSOR
0288	CD5CO4	517		CALL	CALCU		; CALCULATE ADDRESS
028E		518		MOV	A. M.		;CALCULATE ADDRESS ;GET FIRST LOCATION OF THE LINE ;SEE IF CLEAR SCREEN CHARACTER ;LEAVE IF IT IS NOT
	FEF0						; SEE IF CLEAR SCREEN CHARACTER
	C20601			CPI JNZ	SETUP		: LEAVE IF IT IS NOT
	220867			SHLD	LOCBO		BAVE BEGINNING OF THE LINE
	CDDOOG	522		CALL	CLLINE	•	; SAVE BEGINNING OF THE LINE ; CLEAR THE LINE
	C30601	523		JMP			LEAVE
UE IA	030801	524		j	DL 10,		
					POHENE	CI EADE TUI	CODEEN
		525		11412	KOOTINE	CLEARS TH	E BOREEN.
		524		;	al 000		. AD ALEAD THE CODERN
0540	CDAGOS	527	CLEAR:	CALL	CLSCR		160 CLEAR THE SCREEN
02A0	C30601	258		JMP	SETUP		; GO CLEAR THE SCREEN ; GO BACK
							A MARKATAN AND AND AND AND AND AND AND AND AND A
		530					L LINES BENEATH THE LOCATION
		531			HE CURSOR	₹.	
		532		j		•	
02A3	CD5C04	533	CLRST:	CALL	CALCU		;CALCULATE ADDRESS ;ADD X POSITION
02A6	CD7904	534		CALL	ADX		; ADD X POSITION
02A9	0650	535 536		MVI			; LOAD LARGEST X COORDINATE.
	0E20			MVI	C' (,		
02AD	TANDAE7	537 538		LDA	CURSY	; L.DAD C	URRENT Y COORDINATE.
				MOV	EιΑ		
0281	7ABBAE	539		LDA	CURSX	;LOAD C	URRENT X COORDINATE.
0284		540		ANA	Α		AT BEGINNING OF LINE.
0285	CAC002	541		JZ.	OVR1	; JMP IF	IT. IS.
0208	71	542	LLP:	MOV	M, C	; CLEAR	NEXT CHARACTER ON CURRENT LINE.
	23	543		INX	H		
02BA		544		INR	Α	; SEE IF	MORE TO THE LINE.
0288		545		CMP	В		
	C2B802			JNZ		;JMP IF	MORE.
02BF		547		INR			LINE COUNT.
	015000	548	OUR t.	1 X T	B. LTNS		FFSET TO NEXT LINE.
0203		549	OVR1: OVR2:	MUA	A. F		MORE LINES
	FE19		GYILE.	CPI	NUMLIN		TOTAL PARTICULAR PROPERTY OF THE PROPERTY OF T
	CA0601	551		JZ		, EXIT I	e pone
				MVI	M, EOR	; BLANK	•
	36F0	552			E EOK		LINE COUNTER.
02CB		553		INR			
0200		554		DAD	B		TO NEXT ROW. FOR DISPLAY WRAP-AROUND.
0200		555		MOV	A, L		FUR DIDELAY WRAFTAKUUNU.
	FEDO	556		CPI	LOW(LA	451)	
	020302	557		JNZ	0782		
0503		558		MOV	A, H		
02D4	FE67	559		CPI	HI ĠH (L	_AST)	
	•						

LOC	Cao	LINE	\	SOURCE	STATEMEN	IT		
0206	C2C3O2	540		JNZ	OVR2			
	210060	561		LXI		IS; CORR	ECT	FOR WRAP-AROUND.
	030305	542		JMP	OVRZ			E BLANKING REST OF SCREEN.
,,		563		j.				
		564			ROUTINE	CLEARS	THE	LINE THE CURSOR IS ON.
		545		1				
ORDE	CD5CO4		CLRLIN:	CALL	CALCU			; CALCULATE ADDRESS
	22D867	567		SHLD	LOCBO			STORE H AND L TO CLEAR LINE
	CDDOO3	548		CALL	CLLINE	:		CLEAR THE LINE
	C30401	549		JMP	SETUP	-		; GD BACK
		570		j				6
		571			ROUTINE	MOVES T	HE	CURSOR UP ONE LINE.
		572		; .				
02EB	3ADA67		UPCUR:	LDA	CURSY			; GET Y CURSOR
	FE00	574		CPI	ООН			; IS IT ZERO
	CA0601	575		JΖ	SETUP			; IF IT IS LEAVE
02F3	3D	576		DCR	Α			; MOVE CURSOR UP
	32DA67	577		STA	CURSY			; SAVE NEW CURSOR
	CD7003	578		CALL	LDCUR			; LOAD THE CURSOR
02FA	030401	579		JMP	SETUP			; LEAVE
		580		j				
		581		; THIS	ROUTINE	MOVES T	HE	CURSOR ONE LOCATION TO THE RIGHT
		582		;				
02FD	3ADB67	583	RIGHT:	LDA	CURSX			GET X CURSOR
0300	FE4F	584		CPI	LINSIZ	:-1		; IS IT ALL THE WAY OVER?
0305	C21C03	585		JNZ	NTOVER	!		; IF NOT JUMP AROUND
0305	.3ADA67	586		LDA	CURSY			; GET Y CURSOR
0308	FE18	587		CPI	CURBOT	•		; SEE IF ON DOTTOM
AOEO	CA1103	588		JZ	GD18	•		; IF WE ARE JUMP
OBOD	30	589		INR	Α			; INCREMENT Y CURSOR
030E	32DA67	590		STA	CURSY			; SAVE IT
0311	3E00	591	CD18:	MVI	A, OOH			; ZERD A
0313	32DB67	592		STA	CURSX			; ZERO X CURSOR
0316	CD7003	593		CALL	LDCUR			LOAD THE CURSOR
	C30901	594		JMP	SETUP			; LEAVE
031C			NTOVER:		Α			; INCREMENT X CURSOR
	32DB47	596		STA	CURSX			SAVE IT
	CD7003	597		CALL	LDCUR			LOAD THE CURSOR
0323	C30601	598		JMP	SETUP			; LEAVE
		599		;				
		600			ROUTINE	MOVES T	HE	CURSOR LEFT ONE CHARACTER POSITION
		601		<i>i</i>				8 H T V 0 I I O O O
	SADB67		LEFT:	LDA	CURSX			; GET X CURSOR
	FE00	603		CPI	OOH			; IS IT ALL THE WAY OVER
	C24503	604		JNZ	NOVER			; IF NOT JUMP AROUND
	BADA67	605		LDA	CURSY			GET CURSOR Y
0331		606 607		CPI	OOH			; IS IT ZERO?
	CA0501	607		JZ	SETUP			FIF IT IS JUMP
0336		608		DCR	A			MOVE CURSOR Y UP
	32DA67	609		STA	CURSY	77-4		SAVE IT
	3E4F	610		MVI	A, LINE	17-1		GET LAST X LOCATION
	32DB67	611		CALL	CURSX			;SAVE IT ;LOAD THE CURSOR
	CD7003 C30601	612 613		CALL JMP	LDCUR			FOWN THE COMPON
0342			NOVER:	DCR	A			; ADJUST X CURSOR
0245	u.r	014	MOAEU.	DON	m			ALINDRO! V CONDON

```
LOC OBJ
                  LINE
                               SOURCE STATEMENT
0346 32DB67
                   615
                                STA
                                        CURSX
                                                         ; SAVE CURSOR X
0349 CD7003
                   616
                                CALL
                                        LDCUR
                                                         ; LOAD THE CURSOR
034C C30601
                   617
                                JMP
                                        SETUP
                                                         ; LEAVE
                   618
                   619
                               ; THIS ROUTINE HOMES THE CURSOR.
                   620
                               ;
034F 3E00
                   621 HOME:
                               MVI
                                        A, 00H
                                                         ; ZERO A
0351 32DB67
                   622
                                STA
                                        CURSX
                                                         ; ZERO X CURSOR
0354 32DA67
                   623
                                STA
                                        CURSY
                                                         ; ZERO Y CURSOR
0357 CD7003
                   624
                                CALL
                                        LDCUR
                                                         ; LOAD THE CURSOR
035A C30601
                   625
                                JMP
                                        SETUP
                                                         ; LEAVE
                   626
                   627
                               ; THIS ROUTINE SETS THE ESCAPE BIT
                   628
035D 3E80
                   629 ESKAP:
                               MVI
                                        A, BOH
                                                         ¿LDAD A WITH ESCAPE BIT
035F 32E167
                   630
                                STA
                                        ESCP
                                                         ; SET ESCAPE LOCATION
                                        SETUP
0342 030401
                   156
                                JMP
                                                         ; GD BACK AND READ USART
                   632
                   EE6
                                ; THIS ROUTINE DOES A CR
                   634
0365 3E00
                   635 CGRT:
                                MVI
                                        HOO, A
                                                         ; ZERO A
0357 32DB57
                   636
                                STA
                                        CURSX
                                                         ; ZERO CURSOR X
036A CD7003
                   637
                                CALL
                                        LDCUR
                                                         :LOAD CURSOR INTO 8275
036D C30601
                                JMP
                   638
                                        SETUP
                                                         : POLL USART AGAIN
                   639
                   640
                               ; THIS ROUTINE LOADS THE CURSOR
                   641
0370 210167
                  642 LDCUR:
                               LXI
                                        H, LD75+1
0373 11D16F
                   643
                               LXI
                                        D, CRTCMD
0376 3680
                   644 LDCUR1: MVI
                                        M, 80H ; LOAD CURSOR COMMAND.
0378 1A
                   645
                               LDAX
                                        D
0379 18
                   646
                               DCX
                                        D
037A 2B
                   647
                               DCX
                                        Н
037B 3ADB67
                   648
                               LDA
                                        CURSX
037E 77
                   649
                               VOM
                                        M, A
037F 1A
                   650
                               LDAX
                                        D
0380 3ADA67
                   651
                               LDA
                                        CURSY
0363 77
                   652
                               VOM
                                        M, A
0384 1A
                   653
                               LDAX
                                        D
0385 C9
                   654
                               RET
                   655
                               ; THIS ROUTINE DOES A FORM FEED
                   656
                   657
                               j
0386 CDA003
                   658 FMFD:
                                                         ; CALL CLEAR SCREEN
                               CALL
                                        CLSCR
0389 210040
                   659
                               LXI
                                        H, TOPDIS
                                                                ; PUT TOP DISPLAY IN HL
038C 22D867
                   660
                                                         ; PUT IT IN LOCBO
                               SHLD
                                        LOC80
                                                         CLEAR TOP LINE
038F CDD003
                   661
                               CALL
                                        CLLINE
0392 3E00
                   662
                               NVI
                                        A, OOH
                                                         ; ZERO A
0394 32DB67
                   663
                               STA
                                        CURSX
                                                         ; ZERO CURSOR X
0097 32DA67
                   664
                               STA
                                        CURSY
                                                         ; ZERO CURSOR Y
039A CD7003
                   665
                               CALL
                                        LDCUR
                                                         ; LOAD THE CURSOR
039D C30601
                   ፊፊፊ
                               JMP
                                        SETUP
                                                         ; BACK TO USART
                   667
                   863
                               ; THIS ROUTINE CLEARS THE SCREEN BY WRITING END OF ROW
                   669
                               CHARACTERS INTO THE FIRST LOCATION OF ALL LINES ON
```

```
LOC OBY
                 LINE
                              SOURCE STATEMENT
                  670
                              ; THE SCREEN.
                  671
                              ;
OBAO BEFO
                  672 CLSCR:
                              MVI
                                       AJ OFOH
                                                       ; PUT EOR CHARACTER IN A
03A2 0419
                  673
                               MVI
                                       B, NUMLIN
03A4 210060
                  674
                              LXI
                                      H, TOPDIS
                                                         LOAD H AND L WITH TOP OF RAM
03A7 115000
                  675
                              LXI
                                       D. LINSIZ
                                                       ; LOAD LINE SIZE.
TT AAEO
                  676 LOADX:
                              MOV
                                       M, A
                                                       ; MOVE EOR INTO MEMORY
03AB 19
                  677
                               DAD
                                       D
                                                       CHANGE POINTER BY BOD
03AC 05
                  57B
                               DCR
                                       В
                                                       COUNT THE LOOPS
COAACO CAACO
                  679
                               JNZ
                                       L.DADX
                                                       ; CONTINUE IF NOT ZERO
03B0 C9
                  680
                              RET
                                                       ; GO ★BACK
                  681
                  682
                              ; THIS ROUTINE DOES A LINE FEED
                  683
O3B1 CDB7O3
                              CALL
                  684 LNFD:
                                      LNFD1
                                                       CALL ROUTINE
03B4 C30601
                  685
                               JMP
                                       SETUP
                                                       POLL FLAGS
                  686
                              j
                  687
                              ; LINE FEED
                  488
                              . ;
                                                       GET Y LOCATION OF CURSOR
OGB7 GADA67
                  689 LNFD1:
                              LDA
                                       CURSY
03BA FE18
                  690
                              CPI
                                       CURBOT
                                                       ; SEE IF AT BOTTOM OF SCREEN
OBBC CACEO4
                  691
                               JZ
                                       TORNO
                                                       ; IF WE ARE, LEAVE
OBBF BC
                  692
                              INR
                                       Α
                                                       ; INCREMENT A
03C0 32DA67
                  693
                              STA
                                       CURSY
                                                       ISAVE NEW CURSOR
0303 CD5C04
                  694
                         CALL
                                       CALCU
                                                       : CALCULATE ADDRESS
03C6 22D867
                  695
                              SHLD
                                       LOCBO
                                                       ; SAVE TO CLEAR LINE
0309 CDD003
                  696
                              CALL
                                       CLLINE
                                                       ; CLEAR THE LINE
0300 CD7003
                  697
                              CALL
                                       LDCUR
                                                       ; LOAD THE CURSUR
03CF C9
                  698
                              RET
                                                       ; LEAVE
                  699
                              ;
                  700
                              ; THIS ROUTINE CLEARS THE LINE WHOSE FIRST ADDRESS
                  701
                              ; IS IN LOCBO. PUSH INSTRUCTIONS ARE USED TO RAPIDLY
                  702
                              ; CLEAR THE LINE
                  703
                              j
03D0 F3
                  704 CLLINE: DI
                                                       ; NO INTERRUPTS HERE
03D1 2AD867
                  705
                                      L0C80
                              LHLD
                                                       ; GET_LOCBO
03D4 115000
                  706
                              LXI
                                       D, LINSIZ
                                                       GET OFFSET
0307 19
                  707
                              DAD
                                       n
                                                       ; ADD OFFSET
OBD8 EB
                  708
                              XCHG
                                                       ; PUT START IN DE
03D9 210000
                  709
                              LXI
                                      H20000H
                                                       ; ZERO HL
03DC 39
                  710
                              DAD
                                       SP
                                                       ; GET STACK
                  711
OBDD EB
                              XCHG
                                                       ; PUT STACK IN DE
03DE F9
                  712
                              SPHL
                                                       JPUT START IN SP
                                      H, ' '
03DF 212020
                  713
                              LXI
                                                       ; PUT SPACES IN HL
                  714
                  715
                              ; NOW DO 40 PUSH INSTRUCTIONS TO CLEAR THE LINE
                  716
                  717
                              REPT (LINSIZ/2)
                  718
                              PUSH
                                      Н
                  719
                              ENDM
03E2 E5
                  720+
                              PUSH
                                      Н
03E3 E5
                  721+
                              PUSH
                                      Н
03E4 E5
                  722+
                              PUSH
                                      Н
03E5 E5
                  723+
                              PUSH
                                      1-1
03E6 E5
                  724+
                              PUSH
                                      Η :
```

roc dea	LINE	SOURCE S	STATEMENT	
03E7 E5	725+	PUSH	н ,	
OBER E5	726+	PUSH	H	
03E9 E5	727+	PUSH	i-i	
ODEA E5	728+	PUSH	Ĥ	•
OBEB E5	729+	PUSH	Н	
OBEC E5	730+	PUSH	H	
OBED E5	731+	PUSH	Н	*
03EE E5	732+	PUSH	Н	
03EF E5	733+	PUSH	Н	
Q3F0 E5	734±	PUSH	` H	· ·
03F1 E5	735+	PUSH	Н	·
03F2 E5	736+	PUSH	H	
03F3 E5	737+	PUSH	Н	
03F4 E5	738+	PUSH	Н	
03F5 E5	739+	PUSH	H	ATT.
03F6 E5	740+	PUSH	Н	
03F7 E5	741+	PUSH	H	
OSFB E5	742+	PUSH	H	
03F9 E5	743+	PUSH	H	
03FA E5	744+	PUSH	H	
03FB E5	745+	PUSH	H	
OGFC E5	746+	PUSH	Н	
03FD E5	747+	PUSH	H	
OGFE E5	748+	PUSH	H	
03FF E5	749+	PUSH	H	
0400 E5	750+ 751+	PUSH	H	•
0401 E5	751+	PUSH	Н	
0402 E5	752+	PUSH	Н	
0403 E5 0404 E5	753+ 754+	PUSH PUSH	H H	
0405 E5	755+	PUSH	H	
0405 E5	756+	PUSH	H	
0407 E5	757+	PUSH	H	·
0408 E5	758+	PUSH	H	
0409 E5	759+	PUSH	H ·	•
040A EB	760	XCHG	,,	; PUT STACK IN HL
040B F9	761	SPHL		; PUT IT BACK IN SP
040C FB	762	EI		; ENABLE INTERRUPTS
040D C9	743	RET		; GO BACK
	764	j ·		
	7ፊ5	; IF CUF	RSOR IS ON THE I	BOTTOM OF THE SCREEN THIS ROUTING
	766	; IS USE	ED TO IMPLEMENT	THE LINE FEED
	767	;		
040E 2AD667	768 ONBOT:	LHLD	TOPAD	GET TOP ADDRESS
0411 22D867	769	SHLD	LOCGO	; SAVE IT IN LOCBO
0414 1150φ0	770	LXI	D, LINSIZ	; LINE LENGTH .
0417 19	771	DAD	D	; ADD HL + DE .
0418 EB	772	XCHO		•
0419 213098	773	LXI	H, - (LAST)	
041C 19	774	DAD	D	
041D EB	775	XCHG	4 D L IB	
041E D22404	776	JNC	ARND	ייי נאש את שתיים ומידצון ווו מאר או מוד אל האר
0421 210060	777	LXI	H, TOPDIS	; LOAD HL WITH TOP OF DISPLAY
0424 22D667	778 ARND:	SHL.D	TOPAD	; SAVE NEW TOP ADDRESS
0427 CDD003	779	CALL	CLLINE	; CLEAR LINE

LOC OBJ LINE	SOURCE	STATEMENT
042A CD7003 780 042D C9 781	CALL RET	LDCUR ; LOAD THE CURSOR
782 783	; ;THIS	ROUTINE PUTS A CHARACTER ON THE SCREEN AND
784	; INCRE	EMENTS THE X CURSOR POSITION
785 784	; AUTO ;	CR/LF MODE IS USED.
	CHRPUT: CALL	CALCU ; CALĈULATE SCREEN POSITION
0431 7E 788	MOV	A, M ; GET'FIRST CHARACTER
0432 FEF0 789	CPI	OFOH ; IS IT A CLEAR LINE
0434 22D867 790 0437 CCD003 791	SHLD CZ	LOCBO ; SAVÊ LINE TO CLEAR CLLINE ; CLEAR LINE
043A 2ADB67 792	LHLD	LOCBO ; GET LINE
043D CD7704 793	CALL	ADX ; ADD CURSOR X
0440 3ADC67 794 0443 77 795	L¤A MOV	USCHR ; GET CHARACTER N.A ; PUT IT ON SCREEN
0444 3ADB67 796		
0447 3C 797	INR	A ; INCREMENT CURSOR X
0448 FE50 798	CPI	LINSIZ ; HAS IT GONE TOO FAR?
044A C25304 799 044D CDB703 800	JNZ CALL	OK1 ; IF NOT GOOD LNFD1 ; DO A LINE FEED
0450 034503 801	AML	CURSX ; GET CURSOR X A ; INCREMENT CURSOR X LINSIZ ; HAS IT GONE TOO FAR? OK1 ; IF NOT GOOD LNFD1 ; DO A LINE FEED CGRT ; DO A CR CURSX ; SAVE CURSOR
0453 32DB67 802 C		
0456 CD7003 803 0459 C30601 804	CALL. JMP	LDCUR ; LOAD THE CURSOR SETUP : ; LEAVE : .
805	. 411	, detail
808		ROUTINE TAKES THE TOP ADDRESS AND THE Y CURSOR
807 808		TION AND CALCULATES THE ADDRESS OF THE LINE THE CURSOR IS ON. THE RESULT IS RETURNED IN H
809		L AND ALL REGISTERS ARE USED.
810	. 1	
045C 2ADA67 811 C	CALCU: LHLD	CURSY ; CALCULATE START ADDRESS OF CURRENT LINE.
0456 2800 812	MVI DAD	H
0462 119F04 B14	LXI	D, LINTAB
0465 19 815	DAD	D T
0466 5E B16 0467 23 B17	MOV INX	E, M
0468 56 818	MOV	D, M
0469 2AD667 819	LHLD	TOPAD ; GET CURRENT SCREEN START ADDRESS.
046C 19 820 046D EB 821	DAD XCHG	D ; ADD CURSOR OFFSET TO CURRENT LINE. ; SAVE.
046E 21309B 822	LXI	H, -LAST; CHECK FOR CURSOR WRAP-AROUND.
0471 19 823	DAD	α
0472 EB 824 0473 DO 825	XCHG RNC	; RETURN IF NO WRAP.
0474 1130F8 826	LXI	D, TOPDIS-LAST; OTHERWISE, CORRECT FOR WRAP.
0477 19 827	DAD	D ·
0478 C9 828 829	RET	•
630	; ;THIS	ROUTINE ADDS THE X CURSOR LOCATION TO THE ADDRESS
831	THAT ;	IS IN THE H AND L REGISTERS AND RETURNS THE RESULT
832		AND L
833 0479 3ADB67 834 A	; ADX: LDA	CURSX ; GET CURSOR

L.OC	ממח	LINE	SOURCE S	TATEMENT	
0470	0600	835	IVM	в, оон	; ZERO B
047E		836	MOV	C, A	PUT CURSOR X IN C
047F		837	DAD	В	ADD CURSOR X TO H AND L
0480		838	RET		LEAVE
		839			
		840	; THIS R	OUTINE READS THE	BAUD RATE SWITCHES FROM PORT C
		841	; OF THE	8255 AND LOOKS U	JP THE NUMBERS NEEDED TO LOAD
		842	; THE 82	53 TO PROVIDE THE	F PROPER BAUD RATE.
		843	j		
	3A0240	844 STBAUD:		PORTC	; READ~BAUD RATE SWITCHES
	E607	845	ANI	111B	
	21DF67	846	LXI	H, BAUD	
0489		847 STB1:	MOV	M, A	
048A		848	RLC	II BBLV	MOVE BITS OVER ONE PLACE
	219105	849	LXI	H, BDLK	GET BAUD RATE LOOK UP TABLE
0490	1400	850 851	MUI MOV	D, 00H E, A	;ZERO D ;PUT A IN E
0470		852	DAD	D D	GET OFFSET
	11D37F	853	LXI	D, CNTM	POINT DE TO 8253
	3EB6	854	MVI	A, OB6H	GET CONTROL WORD
0497		855	STAX	D	STORE IN 8253
0498		856	DCX	D	; POINT AT #2 COUNTER
0499		857	MOV	A, M	JOET LSB BAUD RATE
049A	12	858	STAX	D	; PUT IT IŅ 8253
049B	23	859	INX.	H 1 1 1 1 1 1 1 1 1	; POINT AT MSB BAUD RATE
049C		840	MOV	A, M	GET MSB BAUD RATE
049D		861	STAX	D	; PUT IT IN 8253
049E	C9	842	RET	GO BACK	⟨.
		863	TI.TO T	AND CONTACTO THE	- accort Annacaoro con CADIA
		864			OFFSET ADDRESSES FOR EACH
		865 866	;	25 DISPLAYED LIN	NED.
0000		867 LINTAB:		SET O	
0000		848		UMLIN+1)	
		869	DW	(LINSIZ*LINNUM)	
-		870		SET (LINNUM+1)	
		87.1	MUNE		
049F	0000	872+	DW	(LINSIZ*LINNUM)	
0001		873+	LINNUM	SET (LINNUM+1)	
04A1	5000	·874+	DW	(LINSIZ#LINNUM)	
0002		875+		SET (LINNUM+1)	
	A000	876+	DW	(LINSIZ*LINNUM)	
0003	mann.	877+		SET (LINNUM+1)	
	F000	878+	DW	(LINSIZ*LINNUM)	
0004	4001	879+ 880+	DM	SET (LINNUM+1) (LINSIZ*LINNUM)	
0005	7001	881+		SET (LINNUM+1)	•
	9001	882+	DW	(LINSIZ*LINNUM)	•
0006		883+		SET (LINNUM+1)	
	E001	884+	DW	(LINSIZ*LINNUM)	
0007		885+	LINNUM	SET (LINNUM+1)	
	3002	886+	wa	(LINSIZ*LINNUM)	
0008		887+		SET (LINNUM+1)	
	8002	888+	DW	(LINSIZ*LINNUM)	
0009		889+	LINNUM	SET (LINNUM+1)	

LDC	onJ	LINE :	BOURCE ST	ATEMENT			
0481	0002	890+	DW	(LINSIZ*LINNUM)			
000A	D002	891+		SET (LINNUM+1)			
	2003	892+	DW	(LINSIZ*LINNUM)			
0000	2000	893+		SET (LINNUM+1)			
	7003	894+	DW	(LINSIZ*LINNUM)	4	4	
0000	7000	895+		SET (LINNUM+1)	× '		
	0003	896+	DW	(LINSIZ*LINNUM)	ø		
0000	0000	897+		SET (LINNUM+1)			
	1004	898+	DW	(LINSIZ*LINNUM)	1		
000E	1004						
	4.004	899+		SET (LINNUM+1)	*		
	6004	900+	DW L Thinilles C	(LINSIZ*LINNUM)			
000F	n n n	901+		SET (LINNUM+1)			
	B004	902+	DW	(LINSIZ*LINNUM)			
0010	0005	903+		ET (LINNUM+1)			
04BF	0005	904+	DW	(LINSIZ*LINNUM)	8 5 °		
0011		905+		ET (LINNUM+1)			
	5005	906+	DW	(LINSIZ*LINNUM)			
0012		907+		SET (LINNUM+1)			
	A005		DW	(LINSIZ*LINNUM)			
0013		909+	LINNUM S	SET (LINNUM+1)			
0405	F005	910+	DW	(LINSIZ*LINNUM)			
0014		911+	LINNUM 5	SET (LINNUM+1)			
0407	4006	912+	DW	(LINSIZ*LINNUM)			
0015		913+	LINNUM S	ET (LINNUM+1)			
0409	9006	914+	DW	(LINSIZ*LINNUM)			
0016		915+	LINNUM S	SET (LINNUM+1)			
O4CB	E009	916+	DW	(LINSIZ*LINNUM)			
0017		917+	LINNUM S	SET (LINNUM+1)			
O4CD	3007	918+	DW	(LINSIZ*LINNUM)			
0018		919+	LINNUM S	BET (LINNUM+1)			
04CF	8007	920+	DW	(LINSIZ*LINNUM)			
0019		921+	LINNUM S	SET (LINNUM+1)			
04D1	D007	922+	DW	(LINSIZ*LINNUM)			
001A		923+		ET (LINNUM+1)			
		924	;				
		925		D LOOKUP TABLE			
		926		BLE CONTAINS ALL	THE AS	CTI CHARACTERS	
		927		E TRANSMITTED BY			
		728 928				SO THAT BITS 0,1 AND	9
		729				ND 5 ARE THE RETURN	
		930		S SHIFT AND BIT			L. XINLLO
		730 931	;	3 BILL HAD BIL	/ 10 CC	MINDE	
04D3	20			201 201	- D AND	D	
		932 KYLKUP:	DB.	38H, 39H	IB AND	7 .	* *
04D4		000	mn	aon abn	. A Akim		
04D5		733	DB	30H1 5DH	CIMA O:		
04D6		enet n	nn	anii Enii			•
04D7		934	BO	3DH, 5CH	;= AND	\	•
04D8					~~		•
04D9		935	DB	08H, 00H	IBS AND	DREAK .	
O4DA					1 0		
O4DB		936	DB .	75H, 69H	LUWER	CASE U AND I	
O4DC			aria tarri			M . M . M . M . M . M . M	
04DD		937	DB .	6FH, 70H	LUMER	CASE O AND P	•
04DE			*1.50	PNI PALL			
04DF	2 R	938	DB	5BH, 5CH	; [AND	Y	

CRT

LOC	OBA	LINE	SOURCE	STATEMENT	
04E0					
04E1		939	DВ	OAH, 7FH	; LF AND DELETE
04E2 04E3		940	DB	бан, бвн	; LOWER CASE J. AND K
04E4		7.10	22	27117 2211	I maked Alder a may
04E5		941	DB	6CH, ЗВН	; LOWER CASE L AND ;
04E6					
04E7		942	DB	52H, 00H	; ' AND NOTHING
04E8 04E9		943	ŊВ	ODH, 37H	CR AND 7
04EA		, , _			· ····································
04EB		944	DB	PDH' 5CH	;LOWER CASE M AND COMMA
04EC		Dan		mell pell	- DED TOD AND DI ADII
04ED 04EE		945	DB	2EH, 2FH	PERIOD AND SLASH
04EF		946	EG	00Н, 00Н	; BLANK AND NOTHING
O4FO					
04F1		947	DB	00H1 00H	; NOTHING AND NOTHING
04F2		040	r\ra	008 418	; NOTHING AND LOWER CASE A
04F3 04F4		948	DB	00H, 61H	MOTHING MAD COMER CHOE A
04F5		949	DB	7AH, 78H	;LOWER CASE Z AND X
04F6	78				
04F7		950	DB	63H, 76H	;LOWER CASE C AND V
04F8 04F9		951	DB	62H, 6EH	; LOWER CASE B AND N
04FA		701	1/15	OEITI OEIT	LOWER OFF P HAD IN
O4FB		952	DB	79H, 00H	;LOWER CASE Y AND NOTHING
04FC					
04FD		953	аа	00H1 50H	; NOTHING AND SPACE
04FE 04FF		954	DB	64H, 66H	; LOWER CASE D AND F
0500		751	22	D 1117 Da11	,
0501		955	DB	67H, 68H	; LOWER CASE G AND H
0502				000 7411	TAR AND LOURD CACE O
0503		956	DB	00Н, 71Н	TAB AND LOWER CASE G
0504 0505		957	DB	77H, 73H	; LOWER CASE W AND S
0506		*			
0507		958	DB	65H, 72H	;LOWER CASE E AND R
0508		050	nn.	744 004	; LOWER CASE T AND NOTHING
0509 050A		959	DB	74H, 00H	I LOWER CASE I AND NOTHING
050B		940	DB	1BH, 31H	; ESCAPE AND 1
0500	31				
050D		961	DB	32H, 33H	; 2 AND 3
050E 050F		962	DB	34H, 35H	; 4 AND 5
0510		702	DB	04111 GDI1	7 4 11114 G
0511		963	DB	34H, 00H	; 6 AND NOTHING
0512					
0513		964	DB	2AH, 28H	; * AND)
0514 0515		965	aa	29H, 5FH	; (AND -
~ ~ 1 ~	⊢ ′	/ La La	~ ~	/ 1 / W / 1 1	

LOC	CBJ	LINE	SOURCE	STATEMENT		
0517		966	DB .	SBH, OOH		; + AND NOTHING
0518 0519		957	DB	100 HB0		BS AND BREAK
051A		757	22	00111 0011		
051B		968	DB	55H, 49H		; U AND I
051C 051D		969	DB	4FH, 50H		; D A'ND P
051E	50					,
051F 0520		970	DB	2DH1 00H		;] AND NO CHARACTER
0521		971	BC	OAH, 7FH		;LF AND DELETE
0522		m				
0523 0524		972	BG	4АН, 4ВН	•-	JJ AND K
0525	4C	973	DB	4СН, ЗАН		¡L AND :
0526 0527		974	ВД	221 001		. H AND NO CHARACTER
0528		7/4	DB	22H, 00H		;" AND NO CHARACTER
0529		975	aa	ODH, 57H		; CR AND &
052A 052B		976	DB	4DH, 3CH		; M AND <
052C		,,,,	DD	12111 0011		/ II HAD C
052D		977	DB	зен, зғн		;> AND ?
052E 052F		978	ECC.	00H, 00H		JBLANK AND NOTHING
0530						•
0531 0532		979	BG	00H, 00H		NOTHING AND NOTHING
0533		980	DB	00H, 41H		; NOTHING AND A
0534		224	an vo			
0535 0536		781	В	5AH, 58H		; Z AND X
0537	43	982	DB	43H, 56H		; C AND V
0538 0539		983	DB	47H 45H		A TO A A DES A DE
0537 AEC0		. 700	DB	42H, 4EH		; B AND N
053B		984	DB	59H, 00H		Y AND NOTHING
053C 053D		985	DB	00H, 20H		; NO CHARACTER AND SPACE
053E	20					
053F 0540		985	аа	44H, 46H		; D AND F
0540		987	DB	47H, 48H		; G AND H
0542		000				400.00
0543 · 0544		988	DB	00H, 51H		; TAB AND Q
0545	57	989	рв	57H, 53H		; W AND S
0546 0547		990	DB	AEU EOU		· E" AND E
0548		770	DB .	45H, 52H		JE AND R
0549	54	991	ad	54H, 00H		T AND NO CONNECTION
054A 054B	00 1B	992	DB	1BH, 21H		ESCAPE AND !
054C	21		20	****** C * * * * * * * * * * * * * * *		FEGURE FIRE .
054D	40	993	DB	40H, 23H		; @ AND #

LOC	CBO	LINE	SOURCE	STATEMENT	
054E		en en	70. FD	coall mail	. de Abres W
054F		794	DB	24H, 25H	ı ⊭ AND %
0550		995	DB	5EH, 00H	; AND NO CONNECTION
0551 0552		775	LIL	OLIT OUT	A COARS LATER PROPERTY OF A PERTY
OUGE	00	996	i		¢.
		997		IS WHERE THE (CONTROL CHARACTERS ARE LOCKED UP
		778	;		
0553	00	999	DB	00H, 00H	; NOTHĮNG
0554	00				•
0555	00	1000	DB	00H100H	; NOTHING
0555	00				
0557		1001	DB	00H1 0'0H	: NOTHING
0558					118-11-119
0559		1002	DB	00H1 00H	; NÕTHING
055A		4000	77.77	150 000	CONTROL II AND Y
0558		1003	DB	15H, 09H	CONTROL U AND I
055C		1004	aa	OFH, 10H	CONTROL O AND P
055D 055E		1004	מט	OFFIT TON	TOUTHOL O HID I
055E		1005	DB	овн, осн	; CONTROL C AND \
0560		1000	22	02117 0011	
0561		1006	DB	OAH, 7FH	; LF AND DELETE
0562					
0563		1007	DB	OAH, OBH	; CONTROL J AND K
0564	OB				
0545	OC	1008	DB	OCH, OOH	CONTROL L AND NOTHING
0555					HOTHELD
0567		1009	DB	00H, 00H	; NOTHING
0548		1010	. DB	орн, оон	CR AND NOTHING
0569 056A		1010		מטהו טטה	TOTAL HOLLING
056B		1011	DB	HOO HOO	; CONTROL M AND COMMA
055C		1011	44	02/1/ 00/1	, , , , , , , , , , , , , , , , , , , ,
055D		1012	DB	00H, 00H	; NOTHING
055E					
056F		1013	DB	00H, 00H	; NOTHING
0570	00				
0571	00	1014	DB	00H, 00H	; NOTHING AND NOTHING
0572					COLUMN TAND V
0573		1015	DB	1AH, 18H	; CONTROL Z AND X
0574		1011	DB	03H, 16H	; CONTROL C AND V
0575		1016	מע	מסת נסט) CONTINUE C AND V
0576 0577		1017	DВ	OZH, OEH	CONTROL B AND N
0578		2027			
0579		1018	Вď	19H, 00H	CONTROL Y AND NOTHING .
057A					
057B	00	1019	DB	00H, 50H	:NOTHING AND SPACE
057C	20				
057D		1020	DB	04H, 06H	; CONTROL D AND F
057E		4.0.004	Y2 Y2	0711 0011	CONTROL A AND U
057F		1021	DB	07H, 08H	CONTROL G AND H
0580		1022	. DB	00H, 11H	; NOTHING AND CONTROL Q
0581	00	IVEE	. ии	AMILITAN	CIMILITATE CHIM WESTINGS W

LOC	OBJ	LINE	SOURCE	STATEMENT					
0582	1.1								
0583 0584	17	1023	ŊВ	17H, 13H	; CONTR	OL M	AND	ទ	
0585 0585	O4	1024	ва	04H, 12H	; CONTR		AND	R	
0587 0588	14	1025	DB	14H, 00H			AND	потнімо	
0589 058A	18	1026	ព្រ	1BH, 1DH		E AN	מוז מ	ME(CREDI	Γ)
058B 058C	1E	1027	DB	1EH, 1CH	; CURSQ	ę UP	AND	DOWN (CRE	EDIT)
058D 058E	14	1028	ממ	14H, 1FH	; CURSO	RRI	CHT	AND LEFT	(CREDIT)
05日F 0590	00	1029	DB	оон, оон	HTON;	ИС			
		1030	. ;		e#:				
		1031		UP TABLE FOR 8253	BAUD R	ATE	GENE	RATOR	
01B5		1032 PD110	j	ingu	OUNT 50	n	# TO 4		
000A		1033 BD110 1034 BD9600 1035		185H ; 8253 C 000AH ; 8253 C					
		1036 SETBD	MACRO	COUNT			•		
•••		1037	DB	LOW COUNT					
~-		1038	DB	HIGH COUNT					
		1039	ENDM						
		1040			; 52	S1	SO	GUAG	
		1041	and and tend from well	March 4 7 42					
0591	n s	1042 BDLK: 1043+	SETBD	BD110	; 014	OM	ЮN	110	
0592		1044+	DB	LOW BD110 HIGH BD110					
	<i>u</i>	1045	SETBD	(BD9600*64)	; ON	DИ	OFF	150	
0593	80	1046+	DB	LOW (BD9600*64)		UI.	OI I	100	
0594	02	1047+	DB	HIGH (BD9600*64					
		1048	SETBD		; ON	OFF	DИ	300	
0595	40	1049+	DB	LOW (BD9600*32)					
0596	01	1050+	DB	HIGH (BD9600*32	.)				
		1051	SETBD		; ON	OFF	OFF	600	
0597		1052+	DB	LOW (BD9600*16)					
0598	OO	1053+	DB	HIGH (BD9600*16					
0599	5h	1054 1055+	SETBD DB	(BD9600*8) LOW (BD9600*8)	; OFF	ΠN	ΩN	1200	
059A		1056+	DB	HIGH (BD9600*8)					
		1057	SETED		; OFF	·nn	UEE	2400	
059B	28	1058+	DB	LOW (BD9600*4)					
059C	00	1059+	DB	HIGH (BD9600*4)					
		1060	SETBD	(BD9600*2)	; OFF	OFF	ON	4800	
059D		1051+	DB	LDW (BD9600#2)					•
059E	00	1062+	DB	HIGH (BD9600*2)					
∧ t- mm	7 .4	1043	SETBD		; OFF	OFF	OFF	9600	
059F 05A0		1054+	DB	LOW (BD9500)					
VUMU	OU.	1065+ 1066	DB	HIGH (BD9600)					
		1067	END						
			~~~	•					•

PUBLIC SYMBOLS

EXTERNAL SYMBOLS

USER SY	YME	BOLS									~	•						_ ~		
ADX	Α	0479	ARND	Α	0424	BASE51	Α	2000	BASE53	Α	7FD0	BASE55	Α	4000	BAUD	A	67DF	BD110	Α	0185
BD9600	Α	000A	BDLK	Α	0591	BOTDIS	Α	67CF	CALCU	Α	045C	CAPLOC	Α	0229	CORT	Α	0365	CHREC	A	015F
CHRPUT	Α	042E	CLEAR	Α	029D	CLLINE	Α	OUEO	CLRLIN	Α	02DF	CLRST	Α	02A3	CLSCR	Α	OAEO	смд55	Α	4003
CNTO	Α	7FDQ	CNT1	Α	7FD1	CNT2	Α	7FD2	CNTDWN	Α	0239	CNTM	Α	7FD3	CRTCMD	Α	ሪFD1	CRTPAR	Α	6FD0
CS75	Α	ರ್ಕರ0	CURAD	A	67D4	CURBOT	Α	0018	CURSX	Α	47DB	CURSY	A	67DA	DACK	Α	-7000	NWDQ	Α	0270
EFRAME	Α	00A7	EOR	Α	OOFO	ESCP	Α	67E1	ESKAP	Α	035D	ESSQ	Α	0249	(THIFT)	Α	0386	FRAME	Α	0089
GD18	Α	0311	HOME	Α	034F	IN75	Α	OOD5	IN75A	Α	OOFA	IN75B	Α	0100	TIMI	Α	0000	INIT1	Α	0012
INIT51	Α	OOB2	INIT55	Α	OOAD	KBCHR	Α	67DE	KEYDWN	Α	67DD	KEYINP	Α	011A	KEYOK	Α	67E0	KEYS	Α	012D
KYCHNG	Α	0221	KYDOWN	Α	01B5	KYLKUP	Α	CG40	LAST	A,	,67DO	LCL	Α	0080	LD75	Α	67D0	LDCUR	Α	0370
LDCUR1	Α	0376	LEFT	Α	0326	LINCHT	Α	67E5	LINE	A	BAOO	LINNUM	Α	001A	LINSIZ	Α	0050	LINTAB	Α	049F
LLP	Α	0238	LNFD	Α	0381	LNFD1	Α	03B7	LOADX	Α	AAEO	LOCEO	Α	67D8	LOOPE	Α	0023	LOOPK	Α	0195
NOVER	Α	0345	NOWRAP	Α	007D	NTOVER	Α	031C	NUMLIN	Α	0019	OK 1	Α	0453	OK7	Α	0157	DNBOT	Α	040E
DVR I	Α	0500	OVRZ	Α	0203	POPDAT	Α	0034	PORTA	Α	4000	PORTB	Α	4001	PORTC	A	4002	RAM	Α	6000
RDKB	Α	018C	REPEAT	Α	012A	RETLIN	Α	67E3	RIGHT	Α	02FD	RXRDY	Α	010A	SAVKEY	Α	OIAA	SCNLIN	Α	67E4
SCR	Α	0204	SERCMD	Α	2001	SERDAT	Α	5000	SETBD	+	0003	SETUP	Α	0106	SHCON	Α	67E2	SHDWN	Α	0242
STB1	Α	0489	STBAUD	Α	0481	STKEY	Α	0216	STPTR	Α	6800	TOPAD	Α	67D6	TOPDIS	Α	6000	TRANS	Α	0146
UP	Α	01D3	UP 1	Α	OIDC	UPCUR	Α	02EB	USCHR	Α	67DC	VRTC	Α	8000						

AGSEMBLY COMPLETE, NO ERRORS

53 \$EJECT

ISIS-JI 8080/8085 MACRO ASSEMBLER, V3.0

MODULE PAGE

25 APRIL 1980 B2--6 rac abh LINE SOURCE STATEMENT 1 ; FILENAME CHRGEN, SRC CREATED 30 JAN 1980 BY TOM ROSSI 2 , THIS FILE CONTAINS THE DOT PATTERNS FOR THE LOW-COST 3 :8275 CRT DEMO BOARDS. LOC LIME SOURCE STATEMENT OBJ 4; 0000 00 5 ASCOO: DB 000000000 0040 00 , 103 ASCOC: DB GOOOOOOB 0001 00 ሪ DB E000000003 0051 00 104 D) E 00000000B 0002 00 7 DB 00000000B × 105 0042 00 DB 0000000000 00 E000 8 DB 90000000B 0043 00 105 DB 0000000B 0004 00 9 DB E00000000 0064 00 107 DB 00000000B 0005 00 10 DB 000000000 00000000B 0065 00 108 gg 0006 00 11 DB 80000000B 109 DB 000000000 0066 00 0007 00 12 DB E0000000B DB 00000000B 0057 00 110 0008 00 13 ASCO1: DB 80000000B 00.88.00 111 ASCOD: DB 0000000B 0009 00 14 DB 00000000B DB 00000000B 0049 00 112 000A 00 15 DB E00000000 DB 00000000B 113 006A 00 000B 00 16 DB 00000000B 0098.00 114 DB 00000000B 0000 00 17 DB 00000000B 00000000B 115 IJΒ 0040 00 000 D 18 DB 0000000B 00000000B 00 GOO 116 DB 000E 00 19 DB 00000000B 00000000B 006E 00 117 DB 000F 00 20 DB 00000000B DB 0000000B 005F 00 118 0010 00 21 ASC02: DB 00000000B 0070 00 119 ASCOE: DB 00000000B 0011 00 22 DB 00000000B 120 DB 00000000B 0071 00 0012 00 23 DB 00000000B 0072 00 121 DB 0000000B 0013 00 24 DB 000000000 DB 00000000B 0073 00 122 ك⁰⁰¹⁴ 00 25 DB 0000000B DΒ 00000000B 0074 00 123 **5**0015 00 26 DB 00000000B 0075 00 124 DB 00000000B *0016 00 27 DB00000000B 0076 00 125 DB 00000000B 0017 00 28 DB 0000000B 00000000B 126 DB 0077 00 0018 00 29 ASC03: DB 00000000B 0078 00 127 ASCOF: DB 00000000B 0019 00 30 DВ 000000008 128 DB 00000000B 0079 00 001A 00 31 DΒ E00000000 DB 00000000B 007A 00 129 001B 00 32 DB 00000000B DB 000000000 007B 00 130 001C 00 33 DB 00000000B 0070 00 131 DB 00000000B 001D 00 34 DB **00000000B** 0070 00 132 DB 00000000B 001E 00 35 DB80000000B 133 DB E00000000 007E 00 001F 00 36 DB00000000B DB 0000000B 007F 00 134 0050 00 37 ASCO4: DB 800000000 0080 00 135 ASC10: DB 00000000B 0021 00 38 DB 00000000B 0081 00 136 DB 000000000 0022 00 39 DB 800000000 137 DB 00000000B 0085 00 0053 00 40 DB 00000000B 0083 00 138 DB 00000000B 0024 00 41 DB 00000000B 139 DB E00000000B 0084 00 0025 00 42 DB 00000000B 140 00000000B 0085 00 DB 0026 00 43 DB 00000000B 0088 00 141 DB 0000000B 0027 00 44 DB 00000000B 142 DB 000000000 0087 00 0028 00 45 ASCO5: DB 0000000B 0088 00 143 ASC11: DB 00000000B 0029 00 46 DB 00000000B DB 00000000B 0089 00 144 002A 00 47 DB 00000000B 008A 00 145 DB G0000000B 0028 00 48 DB 00000000B 00 8800 146 DB 00000000B 002C Q0 49 DB 00000000B 0080 00 147 DB 00000000B 0020 00 50 DB 00000000B 00 0000 148 DB 0000000B 002E 00 51 DB 00000000B 149 DB 0000000B 008E 00 002F 00 52 DB 00000000B 150 DB Q0000000B 008F 00

151 \$EJECT

ISIS-II 0000/0005 MACRO ASSEMBLER, V3.0 25 APRIL 1900 02-4 MUDULE

SOURCE STATEMENT LINE LDC OBJ LINE SOURCE STATEMENT ロほり LINE L.OC บถง SOURCE STATEMENT LOC 250 ASC1E. 100000000 0090 00 152 ASC12: DB 00000000B 0000 00 201 ASC18: DB 00000000B 00F0 00 DB 000000000 0001 00 202 Q0000000B 00F1 00 251 IJВ 00000000B 0091 00 153 DВ DΩ 00000000B 00F2 00 252 00000000B 0092 00 154 DB 80000000B 0005 00 203 DB DB00000000B 00F3 00 253 DR E00000000 155 E00000000 0003 00 204 DB 0073 00 DB 00000000B 00F4 00 254 DB GOOOOOOB 0094 00 156 DB00000000B 0004 00 205 . DB 255 DB 00000000B 0095 00 157 DB 00000000B 0005 00 507 DB 00000000B 00F5 00 0006 00 207 00000000B 00F6 00 256 DB 00000000B 158 DB 00000000B DB 0098 00 00000000B 00F7 257 DB 0000000B 159 0007 00 208 00 0097 00 DB 800000000 DB 00000000B 00F8 258 ASC1F: 209 ASC19: 00 DB00000000B 0098 00 160 ASC13: DB 00000000B 0008 00 DB 00000000B 00F9 00 259 DB 0000000B 0099 00 151 DB 00000000B 0009 00 210 DB 211 00 A700 E0000000 240 DB 00000000B 009A 00 162 DB GOOOOOOOB 00CA 00 DВ 261 DB 0000000B 00000000B 00FB 00 009B 00 163 DB E0000000B OOCB OO 212 DB ŊΒ 00000000B 009C 00 164 DB 00000000B 0000 00 21.3 DB 00000000B 00FC 00 262 263 DB 00000000B 80000000B 00000000B 00FD 00 009D 00 145 DB OOCD OO 244 DB 264 DB 00000000B 009E 00 146 I)B E0000000B 00CE 00 215 DB 00000000B OOFE 00 009F 00 167 DB 00000000B 00CF 00 216 DB 00000000B 00FF 00 265 DB 000000008 266 ASC20: DΒ 00000000B 158 ASC14: 00000000B 0100 00 00A0 00 DВ 000000000 QQDQ QQ 217 ASC1A: DB 00A1 00 169 DB E0000000B 218 DВ 00000000B 0101 00 267 DΒ 00000000B 00D1 00 00000000B 0102 00 268 DB 00000000B 00A2 00 170 DB E0000000B 0002 00 219 DB 220 DB 00000000B 0103 00 269 DB 00000000B 00 EA00 171 DB 00000000B 00 EQ00 221 00000000B 0104 00 270 DB 00000000B 172 DB 00A4 00 DB 00000000B 0004 00 271 80000000B QQQQQQQB Q105 QQ DΒ 00A5 00 173 DB 00000000B 0005 00 222 DB 00 AA 00 174 00000000B 000 6000 223 DB 00000000B 0105 00 272 DB 00000000B DB 273 DB 00000000B 224 00000000B 0107 00 00A7 00 175 DB 800000000 0007 00 DB DB 00000000B 0108 10 274 ASC21:... 00010000B 225 ASC1B: 00 BA00 176 ASC15: DB 00000000B 00D8 00 DB 00000000B 0109 10 DВ **>**00A9 00 177 00000000B 00D9 00 226 DΒ 275 00010000B DB276 00010000B **1**000AA 00 178 DB 00000000B 00DA 00 227 DВ 00000000B 010A 10 DB00000000B 010B 10 228 DB277 ממ 00010000B OO BAOO 000000000 OODB OO 179 DB 00000000B 010C 10 278 DB 00010000B 00AC 00 180 DB 0000000B CODC OO 229 DB 00000000B 010D 00 279 DB 0000000B 000000000 00 0000 230 DB 00AD 00 181 DB 280 . .... DB 00010000B 00000000B 010E 10 00AE 00 182 DB 00000000B OODE OO 231 DB 00000000B 010F 00 281 DB 0000000B 00AF 00 183 DB 00000000B 00DF 00 232 DB 233 ASC1C: 00000000B 0110 28 282 ASC22: DB00101000B 0000 00 184 ASC16: DB 00000000B 00E0 00 DB 00000000B 0111 28 00101000B 283 DВ OOB1 OO 185 DB 00000000B 00E1 00 234 ΒŒ Q0000000B 0112 28 235 284 DΒ 00101000B 0085 00 186 DB QQQQQQQB 00E2 00 DB 00000000B 0113 00 187 DB 00000000B 236 DB 285 DB 0000000B 0083 00 00E3 00 237 00000000B 0114 00 286 DB E00000000B 188 0000000B DB 00B4 00 DB00E4 00 00000000B 0115 00 287 DB 00000000B 00B5 00 189 DB 0000000B 00E5 00 238 DB 0086 00 190 DB 00000000B 00E6 00 239 DB 00000000B 0116 00 288 DB 0000000B 289 00000000B 00000000B 0117 00 DB 0087 00 191 DB E00000000B 00E7 00 240 DB 0000000B 290 ASC23: DB 00101000B 192 ASC17: 241 ASC1D: 00000000B 011B 2B 0088 00 DB 00E8 00 DB 00000000B 0119 28 291 DB 00101000B 0089 00 193 DB 00000000B 00E9 00 242 DB 292 00BA 00 194 DB 80000000B 00EA 00 243 DB 00000000B 011A 7C DB 01111100B OOBB OO 195 DB 00000000B 244 DB 00000000B 011B 28 293 DB 00101000B 00EB 00 245 00000000B 011C 7C 294 DB01111100B COBC CO 196 DВ 00000000B OOEC OO DB 246 00000000B 011D 28 295 DB00101000B 00 BD 00 197 DB E0000000B OOED OO DB 00000000B 011E 28 296 DB 00101000B 00000000B 247 OOBE OO 198 DB OUEE OO DB 00000000B 00000000B 011F 00 297 00 BE 00 199 DB 00000000B 00EF 00 248 DB 200 \$EJECT 249 WEJECT 298 #EJECT

ISIS-II 8080/8085 MACRO ASSEMBLER, V3 0 25 APRIL 1980 82 6 MODULE

LOC OBY LINE SOURCE STATEMENT LOC ODJ LINE SOURCE STATEMENT LOC DBJ LINE SOURCE STATEMENT 299 ASC24: DB00010000B 0150 10 348 ASC2A: 800001000 0180 38 397 ASC30: DB 00111000B 0120 10 DB 00111100B 0151 54 0181 44 398 300 DB 349 DB 01010100B DB 01000100B 0121 30 DB 01010000B 0152 38 350 00111000B 0182 4C 359 DB 01001100В 0122 50 301 DB 00111000B 0153 10 0123 38 302 DB 351 DB, 00010000B 0183 54 400 DB 01010100B 00010100B 0154 38 401 DB 00111000B 0184 64 DR 01100100B 0124 14 EOE 352 DB 011110008 0155 54 0125 78 304 DB 353 01010100B 0185 44 402 DB 01000100B DB 0126 10 305 DВ 00010000B 0156 10 354 DB E00001000 0186 38 403 DB 00111000B 00000000B 0157 00 0187 00 . . 0127 00 306 DB 355 DB E00000000 404 DB 00000000B 01100000B 0158 00 307 ASC25: рp 356 ASC2B: 00000000B 0188 10 -405 ASC31: DB 0128 60 00010000B DB 0129 64 308 DB 01100100B 0159 10 357 DB 00010000B 0189 30 406 DB 00110000B 309 ŊΒ 00001000B 015A 10 358 Q0010000B 018A 10 407 DB 00010000B 012A 08 DB 00010000B 015B 7C 01111100B 0128 10 310 DB359 DB 018B 10 408 กห 00010000B 00100000B 015C 10 311 DB360 DB . 00010000B 018C 10 409 DB 00010000B 0120 20 312 DB 01001100B 015D 10 361~ DB 00010000B 410 00010000B 012D 4C 0180 10 DB 362 018E 38 012E OC 313 DB 00001100B 015E 00 DB 00000000B 411 DB 00111000B 00000000B 015F 00 314 DB 363 DВ 00000000B 412 DB 0000000B 012F 00 018F 00 0130 20 315 ASC26: aa 00100000B 0160 00 364 ASC2C: DB 000000000 0170 38 413 ASC32: DB 00111000B 01010000B 0161 00 345 DB E00000000 ĎВ 01000100B 0131 50 316 DВ 0191 44 414 317 DB 01010000B 0162 00 344 DB 00000000B 0192 04 415 DB 00000100B 0132 50 0133 20 318 DB 00100000B 0143 00 367 DВ 00000000B 0193 38 416 DB 00111000B 01010100B 0164 00 368 DB 00000000B 0194 40 417 DB 01000000B 319 DB 0134 54 00010000B 01000000B 369 DB 0195 40 418 DB 0135 48 320 DB01001000B 0165 10 E00001000 0196 7C 419 01111100B 0136 34 321 DB 00110100B 0166 10 370 DB DB 00100000B 0197 00 420 DB 00000000B 0137 00 322. DB 00000000B 0157 20 371 DB 372 ASC2D: DB 323 ASC27: DB 00010000B 015B 00 00000000B 0198 70 421 ASC33: ..DB 01111100B 0138 10 **>>**0139 10 422 00000000B 0199 04 DB 00000100B 324 DB 00010000B 0149 00 373 DB 01 AE107 325 DB 00010000B 016A 00 374 DΒ 00000000B 019A 08 423 DB 00001000B OCOOCOOOB 0168 3C 375 00111100B 019B 18 424 DB 00011000B 0138 00 326 DB DB00000000B 016C 00 327 DB 376 DВ 00000000B 0190 04 425 DB 00000100B 0130 00 328 DB 00000000B 016D 00 377 DB E00000000 019D 44 426 DB 01000100B 013D 00 427 ... DB 019E 38 013E 00 329 DB 00000000B 016E 00 378 DB 00000000B 00111000B 379 00000000B 019F 00 428 DB 00000000B 016F 00 DB DB 0000000B 010F 00 330 0140 10 331 ASC28: DB 00010000B 0170 00 380 ASC2E: DB 00000000B 01A0 08 429 ASC34: DB 00001000B 00100000B 0171 00 381 DB GOOOOOOB 01A1 18 430 DB 00011000B 0141 20 332 DB 0142 40 333 DB 010000000 0172 00 382 DB 00000000B 01A2 28 431 DB 00101000B 0143 40 334 DB01000000B 0173 00 383 DB 00000000B 01A3 4B 432 DB 01001000B DB 01000000B 0174 00 384 DB 80000000B 01A4 7C 433 DB 01111100B 335 0144 40 E00000000 00100000B 0175 00 385 DB 01A5 08 434 DB 00001000B 0145 20 336 DB 386 DB 00010000B 435 00001000B 0146 10 337 DB 00010000B 0176 10 01A6 0B DB 00000000B 0177 00 387 DB 00000000B 01A7 00 436 0000000B 0147 00 338 DB DB 00010000B 0178 00 388 ASC2F: DB 00000000B 01AB 7C 437 ASC35: DB 011111QOB 339 ASC29: 0148 10 DВ 389 00000100B 00001000B 0179 04 DВ 01A9 40 438 01000000B 0149 08 340 D)B DB 341 00000100B 017A 08 390  $\mathbf{DB}$ QQQQ1QQQB 01AA 78 439 DB 01111000B 014A 04 DB391 00000100B 017B 10 DB 00010000B 01AB 04 440 DB 00000100B 342 DB 014B 04 00000100B 017C 20 392 00100000B 441 343 DB DB 01AC 04 DB 00000100B 014C 04 01AD 44 00001000B 017D 40 393 DB 01000000B 442 DR 01000100B 014D 08 344 DB 394 DВ 00000000B, 01AE 38 443 DB 00111000B 345 DB 00010000B 017E 00 014E 10 00000000B 017F 00 395 00000000B 01AF 00 444 DB 00000000B 014F 00 346 DB 396 #EJECT 445 #EJECT 347 \$EJECT

ISIS-II 8080/8085 MACRO ASSEMBLER, V3 0 25 APRIL 1980 82-6

r.oc	Ceo	LINE	SOURCE !	STATEMENT	רמכ מח	LINE	SOURC	E STATEMENT	LOC	OBJ	LINE	SOURCE	STATEMENT
0180	1 C	446 ABCJ6:	DB	00011100B	01E0 08	495 ASC3C:	DB	00001000В	0210	78	544 ASC42:	DB	01111000B
OIBI	20	447	DB	00100000B	01E1 10	476	DB	00010000B	0211	24	545	DB	00100100B
0182	40	448	DB	01000000B	01E2 20	497	DB	00100000B	0212	24	546	DB	OO100100B
0183	78	447	BB	011110000	01E3 40	498 🛴	DB	01000000B	0213	38	5 ³ 47	DB	00111000B
0184	44	450	DÜ	01000100B	01E4 20	499	DB	00100000B	0214	24	<b>`</b> 548	DB	00100100B
01B5	44	451	DR	01000100В	01E5 10	500 e	DB	00010000B	0215	24	`549	DB	00100100B
01B6	38	452	DB	00111000B	01E6 08	501	DB	00001000B	0216	78	550	DB	01111000B
01B7	00	453	DB	аоооооов	01E7 00	502 \	DB	£00000000	0217		551	DB	80000000
0188	7C	454 ASC37:	DB	01111100B	01E8 00	503 ASC3D:	DB	00000000	0218	38	552 ASC43:	DB	00111000B
0189	04	455	DB	00000100B	01E9 00	504 🦠	DB	00000000B	0219		553	DB	010001008
OIBA	OB	456	DB	00001000B	01EA 7C	505	DB	01111100B	021A	40	554	DB	01000000В
OIBB	10	457	DB	00010000B	01EB 00	506	DB	0000000B	0210	40	555	DB	01000000B
OIBC	20	458	DB .	00100000В	01EC 7C	507	DB	01111100B	0210	40	556	DB	01000000В
OIBD	20	459	DR	0010000000	01ED 00	508.	DB	E00000000	021D	44	557	DB	01000100B
OIBE	20	460	DB	00100000В	01EE 00	509	DB	00000000	021E	38	558	DB	00111000B
OIBF	00	461	DB	800000000	01EF 00	510	DB	0000000GB	021F	00	559	DB	00000000
0100	38	462 ASC38:	DB	00111000B	01F0 20	511 ASC3E:	DB	00100000B	0220	78	560 ASC44:	DB	01111000B
0101	44	463	DB	01000100B	01F1 10	512	DB	00010000B	0221	24	561	DB	00100100B
0102	44	454	DB	01000100B	01F2 08	513	DB	00001000B	0222	24	562	DB	00100100B
OiC3	38	465	DB	00111000B	01F3 04	514	DB	00000100B	0223	24	543	DB	00100100B
0104	44	466	DB	01000100B	01F4 08	515	DB	00001000В	0224	24	564	DВ	00100100B
0105	44	467	DB	01000100B	01F5 10	516	DB	00010000B	0225	24	545	DB	00100100B
01C6	38	468	DB	00111000B	01F6 20	517	DB	00100000B	0226	78	566	DB	01111000B
0107		<b>4</b> 49	DB	00000000B	01F7 00	518	DB	0000000В	0227	QQ	567	DB	0000000B
Oice	38	470 ASC39:	DB .	00111000B	01F8 38	519 ASC3F:	DB	00111000B	0228	7C	568 ASC45:	DB	01111100B
<b>2</b> 0109	44	471	DB	01000100B	01F9 44	520	DB	01000100B	0229	40	569	EQ	01000000B
O1CA	44	472	DB	010001008	01FA 04	521	DB	00000100B	022A	40	570	DB	01000000B
O1CB	30	473	DB	00111100B	01FB 08	522	DB	00001000B	0228	70	571	DB	01110000B
01CC	04	474	DB	00000100В	01FC 10	523	DB	00010000B	0550	40	57æ	aa	01000000B
OiCD	80	475	DB	00001000B	01FD 10	524	DB	800001000	0220	40	573	DB	£0000000
OICE	70	476	DB	01110000B	01FE 00	525	DB	E0000000B	022E	7C	574	DB	O1111100B
01CF		477	DB	000000001	01FF 10	526	DB	00010000B	022F	00	575	DB	000000000
0100		478 ASC3A:	DB	E0000000B	0200 38	527 ASC40:	DB	00111000B	0230	7C	576 ASC46:	DB	01111100B
01D1	QO	479	DB	80000000	0201 44	528	DB	01000100B	0231	40	577	DB	01000000B
01D2		480	DB	00010000B	0202 54	529	DB	01010100B	0232		578	DB	01000000B
01D3		481	DB	800000000	0203 5C	530	DB	010111008	0233		579	DB	O1110000B
0104		482	DB	800000000	0204 58	531	DB	01011000B	0234	40	580	DВ	01000000B
0105		483	DB	00010000B	0205 40	532	DВ	01000000B	0235		581	DB	01000000B
Q1D6		484	DB	00000000B	0509 30	533	DB	00111100B	0236		582	DB	01000000B
01D7		485	DB	E0000000B	0207 00	534	DB	00000000B	0237		583	ВŒ	80000000
0108		486 ASC3B:	DB	100000000	0208 10	535 ASC41:	DB	00010000B	0238		584 ASC47:	DB	00111100B
O1D9		487	DB	000000008	0209 28	536	DВ	00101000B	0239		585	DB	01000000B
OIDA		488	DB	00010000B	020A 44	537	BG	. 01000100B	023A		586	DB	01000000B
OIDB		489	DB	00000000B	020B 44	538	DB	01000100B	0238		587	DB	01011100B
OIDC		490	DB	80000000	020C 7C	539	DB	01111100B	0530		588	DB	01000100B
0100		491	DR	000100001	020D 44	540	DB	01000100B	0530		589	DB	01000100B
OIDE		492	DB	00010000В	020E 44	541	DB	01000100B	053E		590	DB	00111100B
OIDF	20	493	DB	00100000B	020F 00	542	DB	00000000	023F	00	591	D)B	вооооооов
		494 \$EJECT				543 \$EJECT		•			592 \$EJECT		

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L.OC	נמם	LINE	SOURCE	STATEMENT	LOC	נפט	LINE		SOURCE	STATEMENT	LDC	CEO	L.INE		SOURCE	STATEMENT
0240	44	593 ASC48.	BU	01000100B	0270	44	642	ASC4E:	DB	01000100В	02A0	7C	<b>ሉ</b> ቁ 1	ASC54:	DB	01111100В
0241	44	594	nB	01000100B	0271	54	643		DB	01100100B	02A1		692		DB	00010000я
0242	44	595	BG	01000100B	0272	54	644	_	DB	01010100B	02A2		6 <b>9</b> 3		nn	00010000B
0243	7C	596	DB	0111110013	0273	4 C	<b>45</b>		D'B	01001100B	EAS0		. 694		DB	00010000B
0244	44	597	DB	01000100B	0274	44	646		DB	01000100B	02A4		. 695		DR	800001000
0245	44	598	DB	01000100B	0275	44	647	4	DB	01000100B	0245		696		DB	00010000B
0246	44	599	Dß	01000100B	0276	44	648		DB	01000100B	02A6		<b>697</b>		DB	00010000В
0247	00	600	DB	00000000В	0277	00	<b>449</b>	·	DB	EOOOOOOOB	02A7		698		DB	000000000
0248	38	601 ASC49:	DB	00111000B	0278	38	650	ASC4F:	DB	00111000B	02A8		699	ASC55:	DB	01000100B
0249	10	£02	DB	00010000B	0279	44	451		DB	01000100В	02A9		700		DB	01000100B
024A	10	603	DB	00010000B	027A	44	452		DB	01000100B	OZAA		701		DB	01000100B
0248	10	చ04	DB	00010000В	027B	44	653		DB	01000100B	02AB		702		DB	01000100B
024C	10	605	DB	00010000В	0270	44	654		DB	01000100В	OZAC		703		DB	01000100B
024D	10	606	DB	00010000В	027D	44	655		DB	01000100B	OPAD		704		DB	01000100B
024E	38	607	DB	00111000B	027E		456		ad	00111000B	02AE		705		DB	00111000B
024F	ÖÖ	808	DB	800000000	027F	00	657		DB	0000000B	OZAF		706		DB	ECO000000
0250	07	609 ASC4A:	DВ	0000111B	0280	78	458	ASC50:	DB	01111000B	0280			ASC56:	DB	01000100B
0251		610	DB	000000100	0281		659		DB	01000100В	02B1		708	.,,	BG	01000100B
0252	04	611 .	DB	00000100B	0282		660		DB	01000100B	0282		709		DB	01000100B
0253	04	612	DB	00000100B	0283		661		DB	01111000B	0533		710		DB	01000100B
0254	04	613	DB	00000100В	0284		645		DB	01000000В	0284		711		DB	01000100B
0255	44	<b>614</b>	DB	01000100B	0285	40	663		DB	01000000В	0205		712		DB	0010100B
0256	38	615	DB	001110008	0589		664		DB	01000000B	0286		713		Ba	00010000В
0257	00	616	DB	000000000	0287		665		DB	00000000В	0287		714		DB	80000000
0258	44	617 ASC4B:	DB	01000100B	0288			ASC51:	DB	00111000B	02B8			ASC 57:	DB	01000100B
0259	48	618	ВŒ	01001000B	0289	44	667		DB	01000100B	0289		716	110007.	DB	01000100B
<b>&gt;&gt;</b> 025A	50	619	DB	01010000B	028A		668		DB	01000100B	02BA		717		DB	01000100B
<b>(D</b> 025B	<u>ሬ</u> 0	620	DB	Q1100000B	028B	44	669		DB	01000100B	02BB		718		DB	01000100B
0250	50	621	DB	01010000B	0280		670		DB	O1010100B	0280		719		DB	01010100B
025D	48	422	DB	01001000B	0280	48	671		DB	01001000В	02BD		720		DB	01101100B
025E	44	623	DB	01000100B	028E	34	672		DB	Q0110100B	OZBE		721		DB .	01000100B
025F	00	624	DB	00000000В	028F	00	673		DB	00000000В	02BF		722	•	DB	вооооооо
0260	40	625 ASC4C:	DB	01000000B	0290	78	674	ASC52:	DB	01111000B	0200		723	ASC58:	DB	01000100B
0261	40	424	DB	01000000В	0291	44	675		DB	010001000	0201		724	modda.	DB	01000100B
0262	40	427	DB	01000000B	0292		676		DB	01000100В	0505		725		DB	00101000B
6950	40	628	DB	01000000В	0293	78	<b>ፊ</b> ንን		DB	01111000B	0503		726		DB	00010000В
0264	40	629	DB	01000000В	0294	50	678		aa	01010000B	0204		727		DB .	.001010001
0265	40	630	DB	01000000В	0295	48	679		DB	01001000В	0205		728		DB	01000100B
0256		631	DB	01111100B	0296		086		DB	01000100B	0206		729		DB	010001008
0267	00	432	DB	E00000000	0297		681		DB	00000000В	0207		730		DB	00000000В
0268	44	633 ASC4D:	DB	01000100B	0298			ASC53:	DB	00111100B	0208			ASC 59:	DB	01000100B
0269	6C	634	DB	01101100B	0299		683		ВQ	010000008	0209		732	,	DB	01000100B
026A	54	435	DB	01010100B	029A		684		DB	01000000B	02CA		733		DB	01000100B
025B	54	636	DB	01010100B	029B		<b>८</b> 85		DB	00111000B	02CB		734		DB	00101000B
0590	44	437	DB	01000100B	029C		686		DB	00000100B	0200		735		DB	00010000B
0240	44	438	DII	01000100B	029D		687		DB	00000100B	0200		736		DB	00010000В
026E	44	639	DB	01000100B	029E		688		DB	01111000B	OZCE		737		DB	00010000В
OSAF	00	64O	DB	E00000000	029F		489		DB	ООООООООВ	OZCF		738		DB	000000000
		641 \$EJECT						<b>\$EJECT</b>						\$EJECT	~ ~	20000000

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LOC	Lao	LINE	SOURCE	E STATEMENT	roc obl	LINE	SOURC	E STATEMENT	LDC	CBO	. FI	NE	SOURCE	STATEMENT
0200	7C	740 ASC5A:	DB	01111100B	0300 10	789 ASC	60: DB	000010000E	0330	18	Я	38 ASC&&:	ad	00011000B
0201	04	741	DH	00000100B	0301 09	790	DB	00001001B	0331			39	gg	00100100B
02D2	08	742	DB	00001000B	0302 88	791	DB	10001000B	0332			40	ВB	00100100B
02D3	10	743	DB	00010000B	0303 00	792 🛴	DB	200000000	0333		ri Fi	<b>4</b> ~1	DB	01110000B
02D4	20	744	I)B	00100000B	0304 00	793 🔌	DR	800000000	03:34			42	DB	001000008
02D5	40	745	DH	01000000В	0305 00	794 ,	DB	800000000	0335			43	DB	00100000B
0509	7C	746	DB	01111100B	0306 00	795 ້	DB	E00000000	0336			44	DB	00100000B
0207	00	747	DB	00000000	0307 00	796 `	DB	800000000	0337			45	DB	00000000
0208	38	748 ASC5B:	DB	00111000B	0308 00	797 ASC	61: DB	00000000B	0338			46 ASC67:	DB	00000000В
OZD9	20	749	DB	00100000B	0309 00	798 🦠	DB	200000000	0339			47	DB	00000000В
AGSO	50	750	DB	00100000B	OBOA BC	799	DB	00111100B	AEEO	30		48	DB	0011110QB
0208	20	751	DB	00100000B	030B 04	800	DB	00000100B		44		49	DB	01000100B
OSDC	20	752	DB	00100000B	0300 30	801	DB	00111100B	0330	44		50	DB	01000100B
OZDD	20	753	DB	00100000B	0300 44	802	DB	01000100B	OBBD			51	DB	00111100B
OSDE		754	В	00111000B	030E 3C	803	DB	00111100B	033E			52	DB	00000100B
OZDF	00	755	DB	E0000000B	030F 00	804	DB	800000000	033F			53	DB	00111100B
05E0	00	756 ASC5C:	DB	80000000	0310 40	BO5 ASC	62: DB	01000000В	0340	40		54 ASC68:	рв	01000000В
02E1		757	aa	01000000B	0311 40	806	DB	01000000В	0341			55	DB	01000000В
05E5		758	DB	0010000QB	0312 5C	807	BG	01011100B	0342	40		56	DB	010000000
02E3	10	759	DB	00010000B	0313 ·64	808	DB	01100100B	0343			57	ĎВ	01111000B
02E4		760	DB	00001000B	0314 44	809	DB	01000100B	0344	44		58	DB	01000100B
02E5		761	DB	00000100B	0315 44	810	. DB	01000100В	0345			59	DB	01000100B
02E6		762	DB	0000000B	0316 78	811	. DB	01111000B	0346	44		60	DB	01000100B
02E7		763	DB	00000000	0317 00	812	DB	E0000000B	0347	00	8	61	DB	00000000В
02E8		764 ASC5D:	DB	00011100B	0318 00	813 ASC	63: DB	E0000000B	0348	10		62 ASC69:	DB .	00010000B
<b>≫</b> 02E9	04	765	DB	00000100B	0319 00	814	DB	00000000	0349	00		63	DB	0000000В
202E8 02E8	04	766	DB	00000100B	031A 1C	815	DB	00011100B	034A	10	8	64	рв	00010000B
OZEB	04	767	DB	00000100B	0318 20	816	DB	00100000B	034B	10	8	<b>45</b>	aa	00010000B
02EC		768	DB	00000100B	031C 20	817	DB	00100000B	034C	10	8	<b>ద</b> ర	DB	00010000B
02ED		769	DB	00000100B	031D 20	818	DВ	00100000B	034D	10	8	<b>ム</b> ア	DB	00010000B
OSEE		770	DB	00011100B	031E 1C	819	DB	00011100В	034E	80	8	<b>5</b> 8	DB	00001000B
02EF		771	DB	00000000	031F 00	820	DB	00000000В	034F	00	8	<b>5</b> 9	BG	00000000В
02F0		772 ASC5E:	DB	00010000B	0350 00	821 ASC	64: DB	E00000000	0350	04	8	70 ASC6A:	DB	00000100B
02F1		773	DB	00111000B	0321 04	822	DВ	00000100B	0351	00	8	71	DB	00000000В
02F2		774	DB	01010100B	0322 04	823	DB	00000100B	0352	04	8	72	DB	00000100B
02F3		775	DB	00010000B	0323 04	824	DB	00000100B	0353	04	8	73	DB	00000100B
02F4		776	DB	E00001000	0324 3C	825	DB	00111100B	0354	04	8	74	DB	E0010000
02F5		777	DB	00010000B	0325 44	826	DB	01000100B	0355	24	8	75	DB	00100100B
02F6		778	DH	0001000B	0328 30	827	DB		0356	24	8	76	DB	00100100B
02F7		779	DB	00000000	0327 00	828	DB	00000000B	0357	18	8	77	DB	00011000B
02F8		780 ASC5F:	DB	00000000B	0328 00	829 ASC		00000000В	0358	40	8	78 ASCAB:	DB	01000000B
02F9		781	DB	a0000000B	0329 00	830	EIG	досоосоов	0359			79	DB	010000000
02FA		782	DB	000000000	032A 1C	831	DB	00011100B	035A	44	8	30	DB	01000100E
02FB		783	DB	0000000B	032B 24	832	DB	00100100B	035B		8	31	ВŒ	01001000E
02FC		784	DB	0000000B	0320 30	833	DB	00111100B	035C		8	32	DB	01010000E
02FD		785	DB	0000000B	032D 20	834	DB	00100000B	035D			83	DB	01101000E
02FE		786	DB	00000000	OBRE 10	835	DB	00011100B	035E			34	DB	01000100E
02FF	3F	787	DB	O111111B	032F 00	836	DB	80000000	035F	00		35	DB	0000000E
		788 \$EJECT				837 \$EJ	ECT	•			ខ	36 \$EJECT		

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LOC	ดหา	LINE		SOURCE	STATEMENT	LDC	CBO	LINE		SOURCE	STATEMENT
0390	00	936	ASC72:	DB	80000000	0350	10	007	ASC&C:	DB	00010000н
0391	00	937		DB	800000000	0361		888	Macac.	DB	000100008
0392	58	938		DB	01011000B	0362		889		DB	000100008
0393	64	739		DB	011001008	0362		890		DB	00010000B
0394	40	940		DB	01000000В	0364		(		DB	
0395		941		DB	01000000B	0365	TO	891		DB	000100000
0398	40	942		DB	01000000В	0360 84E0		892 893		DB	0001000B
0397	00	943		DB	800000000	0367				DB	
89E0	00	944	ASC73:	DB	00000000B	0368		894	ACC/D.	DB	000000000
0399		945	710070.	DB	E00000000		00 %	896	ASCAD:	DE	00000000B
APEO		946		DB	0000000B	A&EO					E00000000
039B		947		BG	0011100B	0368	54	897		DB	01101100B
0390		948		DB	00100000B	0360	54	898		DB	01010100B
0390		949		DB	00001000В	0360		899		DB	01010100B
039E		950		DB	00111000B	036E		900		DB	01000100B
039F		951		DB	0000000B	036E		901		DB	01000100B
OAEO			ASC74:	DB	0000000В	0370		902		DB	000000000
1AEO		953	NUC/4.	DB					ASCAE:	DB	00000000В
2AE0		954		DB	00010000B	0371		704		DB	00000000В
EAEO		955		DB DB	00111000B 00010000B	0372	58	905			01011000В
03A4		956		DВ		0373		906		DB	01100100B
03A5		957		DB	000100000	0374		907		DB	01000100В
6AEO		958			00010000В	0375		908		DB	01000100B
03A7		959		DB	00001000B	0376		909		DB	01000100B
BAEO			ASC75:		00000000B		00	910		DB	000000000
PAEO		961	ABC/3;	DB	000000000		00		ASCAF:	DB	800000000
AAEO		761 962		DB	E00000000		00	912		DB	00000000
OBAB		762 963		DB	01000100B	037A		913		DB	00011000B
OBAC		763 964		DB	01000100B		24	914		DB	00100100B
CAEO				DB	01000100B	0370		915		DB	00100100B
03AE		965		DB	01001100B	0371)		916		DB	00100100B
03AE		966		DB	0011001B	037E		917			00011000B
0380		967	45057	DB	00000000В	037F		918		DB	E0000000B
0380			ASC76:	DB	800000000	0380			ASC70:	DB	0000000B
0382		969		DB	0000000В	0381		920		DB	аооооооов
0382		970		DB	01000100B	0382		921		DB	01111000B
0384		971		DB	01000100B	0383		922		DB	010001008
0384		972		DB	01000100B	0384		923		DB	01000100B
0380		973		DB	00101000B	0385		924		DB	01111000B
0388		974		DB	00010000B	0386		925		DB	01000000В
0387		975		DB	E00000000	0387		926		DB	01000000В
0389			ASC77:	DB	00000000В	0388			ASC71:	DB	E0000000B
		977		DB	вооооооов	0389		928		DB	E0000000B
OBBA			•	DB	01000100B	ABEO		929		DB	00111000B
•		979		DB	01000100B		44	930		DB	01000100B
OGBC		980		DB	01010100B		44	931		DB	01000100B
OBEO		981		DB	01111100В		ЗC	932		DB -	00111100B
0306		982		DB .	00101000В		04	933		DB .	E0010000
OBBE	UU	983	A. 100 1 1	DB	00000000B	038F	04	934		DB.	00000100B
		984	#E/JECT					935	\$EJECT		

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LDC	רמט	LINE		SOURCE	STATEMENT
0300	00	985	ASC78:	рв	g00000000
0301	00	986	110070.	DB	800000000
0302	44	987		DB	01000100B
0303	28	988		DB	00101000
0304	10	789		DB	000100000
0305	28	757		DB	00101000B
0308	44	991		DB	01000100B
0307	00	992		DB	
0308	00	993	ASC79:		000000008
0308	00	994	HOU/7:	DB	00000000B
03C4	44	995	•	DB	000000000
03CB	44			DB	01000100B
0300	44	996 997		DB	01000100B
0300	30	998 998		DB DB	01000100B 00111100B
0:3CE	04	999 999		DB DB	
03CF	10	1000		DB	000001008
0300	00		ACC74.		00011100B
0301	00	1001	ASC7A:	DB	0000000B
0301	7C	1002		DB	000000000
0303	08	1003		DB	01111100B
03D4	10				00001000В
0304	20	1005		DB	00010000B
0303	7C	1006		DB	00100000B
0307	00	1007		DB	01111100B
0307	18	1008	A (1) (2 7) 1	DB	00000000B
0308	10	1009	ASC7B:	DB	00011000В
AGEO	10	1010		DB	00010000B
OSDA	40	1011		DB	00010000B
0300	10	1012		DØ	01100000B
OSDD	10	1013		DB	00010000B
03DE	18	1014 1015		DB	00010000B
ODDF	00			DB	00011000B
03E0	10	1016	ACC7C.	DB	000000008
03E0	10	1017 1018	ASC7C:	DB	00010000B
03E1	10			DB	00010000B
03E3	10	1019		DB	00010000B
03E3	10	1020		DB	00010000B
03E4	10	1021		DB	00010000B
03E9	10	1022		DB	00010000B
03E7	10	1023		DR	000100008
03E8	60	1025	ASC7D:	DR DB	00010000B
03E8	20	1025	ASC/D:	DB	011000001
03E4	20	1023		DB	001000008
OSEB	18	1027		DB	00100000B
03EC	20	1028		DB	00011000B 00100000B
OSED	20	1027		DB	00100000B
OSEE	60	1030		DB	
OBEF	00.	1031		DB	01100000B
03F0	00	1032	ASC7E:	DB	000000000
03F0	00	1033	nou/E:	DB	800000000
03F1	60	1034			
03F2	54	1035		DH DB	01100000B 01010100B
03F3	OG	1035		DB	00001100B
03F4	00	1037		DB DB	
03F5	00	1038			E00000000
USI" D	VV	10.37		DB	800000000

ISIS-II 8080/8085 MACRO ASSEMBLER, VS. O

1915-11 8080/8085 MACRU ASSEMBLER, V3.0 25 APRIL 1980 112-6						
LOC	CED	LI	NE	sou	RCE STA	TEMENT
03F7 03F8 03F9 03F8 03F6 03F0 03F6	00 00 00 00 00 00	10 10 10 10 10 10	040 041 ASC 042 043 044 045 045 046 047	DB C7F: DB DB DB DB DB DB DB DB	00 00 00 00 00 00	#0000000 #0000000 #0000000 #0000000 #000000
PUBLIC	SYMBO	OL S				
EXTEÑI	AL SYN	IBOLS				
USER S ASCOO ASCOT ASCOE ASC15 ASC10 ASC23 ASC24 ASC31 ASC38 ASC3F	YMBOLS A 000 A 000 A 000 A 000 A 011 A 015 A 016 A 016	ASC0 ASC0 ASC0 ASC1 ASC1 ASC1 ASC2 ASC2 ASC3 ASC3 ASC3 ASC3 ASC3 ASC3 ASC3 ASC3	B A C C A C C C A C C C C C C C C C C C	0040 0078 0080 00E8 1120 1158 1190 1108	ASC09 AASC10 AASC17 AASC1E AASC25 AASC2C AASC33 AASC3A AASC3A	A 0010 A 0048 A 0080 A 0060 A 0070 A 0128 A 0160 A 0198 A 0100
ASC46 ASC4D ASC54 ASC5B ASC62 ASC69	A 028 A 028 A 028 A 028 A 031 A 034	0 ASC4 ASC4 0 ASC5 B ASC5 0 ASC6	7 A O E A O 5 A O C A O 3 A O	238 / 270 / 2A8 / 2E0 / 318 /	ASC4B A ASC4F A ASC56 A	0240 0278 0280 0288 0228
AGC70	V V36			220	10000 6	1 0358

ASC71 A 0388

ASC78 A 03C0

ASC7F A 03FB

ASC72 A 0390

ASC79 A 03C8

ASSEMBLY COMPLETE, NO ERRORS

ASC70 A 0380

ASC77 A 03B8

ASC7E A 03F0