006.240	041	900	2809	SPEED	ראו	H,MSG.SPD	OUTPUT SPEED MESSAGE
006.243	315 100 076 000	900	2810 2811		CALL	TYPMSG A,0	SET FLAG AT IDWRK FOR MWORKING" MESSAGE
006.250	062	040	2812		STA	IDWRK A.ONDRO	TURN ON DRIVE ZERO
06.255	1	040	2814	SPEEDI	OUT	OP.DC TICCNI	GET TICK COUNTER
06.262	174		2816		HOV CHA	A,H	FORM TWO'S COMPLEMENT OF TICK COUNTER
06.264	1		2818		MOV	D, A	(D,E) = NEGATIVE TICK COUNTER
06. 265	- 1		6192		A P	Apt	
006.267			2821		N N	¥	
006.270	1	900	2822		AD C	E,A Speed2	IF NO CARRY FROM LSB
100	1		2824		97.	6	0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
\$17.90	\$70	200	2797		TAX.)	ELDED INVENENT DB
006.275	333	000	2826	SPEED2 SPEED3	i z	8,00 IP.05	ZEKU KEY CUUNIEKS INPUT DISK STATUS
006 302	346	400	2828		ANI 17	DS.HOLE	MASK FOR SECTOR/INDEX PULSES
100	746		2830		١.		
			2831	* *	HOLE	PKENENI, MAII FUK	I IC LEATE
006.307	333 177		2833	SPEED4	Z	10.05	GET DISK STATUS
006.311	346		2834		ANI	DS.HOLE	1
006.313	- [900	2835		JNZ	SPEED4	MAIL UNITE TO GOME AND ME MAYE MEDIA
06.316			2837		N N	æ	INCREMENT HOLE COUNTER
006.317	170		2838		M0V	A,8	TEST FOR FIVE REVOLUTIONS
006.322	305	900	2840		JNZ	SP EE 03	NOT FIVE, WAIT FOR MORE HOLES
			2842	*	HAVE F	FIVE REVS, DISPLA	DISPLAY DIFFERENCE OF TICK COUNTER AND EXPECTED TIME DIF
			2843	*			
006.325		040	2844		LHLD 0A0	TICCNT	CURRENT TICK VALUE RACT START VALUE
006.331	021 214	376	2846		ĘŽ.	D+377377A-500+1+200u	1+2004 SUBTRACT 500 FOR REVS, +2000 FOR OFFSET
006.335			2848		PUSH) I	SAVE RESULT
006.336	041	200	2849		ĽXI	H. MSG. WRK	POINT TO "MORKING" MESSAGE
006.341	072	040	2850		LDA	IOHRK	¥6
006.344	356		2851		XRI		INVERT LOWER BIT
006.346	302 357	040	2852		STA LM2	SPEEDS	SAVE NEW VALUE IF TO DISPLAY WHORKING*
			2854				
06.354	041	200	2855		Ľ	H. MSG. HSS	POINT TO "HOME", "SPACES", AND SPEED MSG
006.357		900	2857	SPEEDS	CALL	TYPHSG	UGIPUI MESSAGE GET TEST RESULT
06.363	315 305	ł	2858		CALL	TOA.	OUTPUT RESULT TO CONSOLE
06.366	303	- 1	2859		O.E.	SPEED1	PERFORM ANOTHER SAMPLE

		28(HSG.SPD -	- SPEED TEST MESSAGE	HESSAGE
	en e	2862 2863			Disk drive rotational	tational speed test.
		28.		A company of the comp		
		28.	1	Marketon Control of the Control of t	Drive	Drive speed = #
006.371	033 105	012 28(68 MSG.SPD	08 08	A.ESC, E'SA.LF	A.ESC, "E", A.LF Disk drive rotational speed test. ", A.CR, A.LF, A.LF
007.041	011 011	04 2870 2871	70 71	D8 0	0	
	erietaria, Calarimanistikianis pipturipi apara papa angara sa sa tanàna	28		MSG.WRK -	- "HORKING" HESSAGE FOR	ESSAGE FOR SPEED TEST
		28	* 42	DISPLAYS	"WORKING" AT	HOME POSITION AND RETURNS CURSOR TO SPEED .
670	65	28	76 NGC. NRK	a o	FSC. "H"	CURSOR HOME
007.064	127 157	162 2878	1	80	Norking*	CURSOR ADDRESS OF SPEED = VALUE
007.07	000	1	80		0	3
	6	28	2883 # 2884 #CC UCC	ď	A. F.C. *H*	CURSOR HOME
007.102	040 040	040 28	1	008	6 7 7 9 7 9 7	BLANKS CHOODE ADDRESS OF SPEED # VALUE
007.111	033 131	1	88		A.E.S.C.F. 1#7-	2111
					ANTICOLOGICA (MARCHINE MARCHINE MARCHINE) (MARCHINE MARCHINE MARCH	
					America Colonia de Calendario de Calendario de Calendario de Calendario de Calendario de Calendario de Calenda	
				And the second s		

					A STATE OF THE PROPERTY OF THE	

	DIMANTE DESIGNATIONS					
007.173			СМР		8	SEE IF CORRECT CONTENTS STILL REMAIN
007.174	302 307 000				DYMEM9	-
007.177	074	2950	INR	1	A # A	INCREMENT RAM
007.201	302 307 000	1			м Оумем9	SEE IF WRITE WAS SUCCESSFUL
007.205					Y	
007, 206	175	2956			A»L E	GET LSB AND TEST FOR REACHING END UF KAM
007.210	040 360	2958	ær		NZ DYHEM 5	IF LSB NOT EQUAL
007.212	174	2960	A OK		A, H	CHECK LSB
007.214	040 354	2962		1	NZ , DYMEM 5	
		2964	* HAVE	VE REA	REACHED END OF MEMORY! UT LAST VALUE TESTED	IORY!
		2966	*		A TOTAL STREET, A TOTAL STREET	
007.216	303 336 016	1	d H C		DYMMS	HOW MANY TO BACK SPACE?
007.221		2970	DYMES.5 EQU		*	
		2792	07 *		IY 90Y5.53	RETURN ADDRESS
007.223	230 007	2974			DY5.53	
007,225	303 143 003	1	AH.		DYASC	
007,230	045 040 366	2978	075.53 DCR		H NZ•DYME5•5	
007.233	400	2980				SHOW NEXT PASS VALUE
007,234	170	2982			AsB	VALUE TESTED
1	١.	2984	07 *		IX,DYMEM6	RETURN ADDRESS
007.235	273 000	2986			DYMEM6	
007.241	303 160 003	3 2988	g W C		DYBYT	
		2990	**	THE OY	'NAMIC RAM TEST	DYNAMIC RAM TEST CONTINUES ELSEMARE!! **
The strangendesignature of the strangendesignatu		2992	#	9	IEN RETURNS TO	1EXE:::::::::::::::::::::::::::::::::::
746 500	000 000 140	1	0710.5	15	0.1	DELAY AND DING BELL AGAIN
007.247	006 002	1	OVER 1		8,2 H	2 LOOP S
007.252	040 375	2998	1		NZ, DYMEM11	
007.254	055	3000	0CR	× ~	L N7.DYMEM11	
001.622	2	3002				

		3003		DCR	8
040 367		3004 3005		¥	H11
303 252	013	3006		dHP	DYMEM10 AGAIN
		3008	* *	DYMSG -	- DYNAM
		3010	**	ENTRY	(H ₂ L) = MESSAGE ADDRESS (IX) = RETURN ADDRESS
		3012	* *	EXIT	10 (1X)
And the second s		3014	* *	USES	A9H9L9F9 IY
		3016			
176		3018	DYMSG	AOH	
		3020	*	L0 08	IY.DYMSG.5 KETURN ADDRESS MI.LDYA.MI.LDY8
007.270 275 007		3022		HO	
303 143	600	3024		d Kr	0YASC 0UTPUT ASCII
007.275 267		3026	DYMSG.5	ORA INX	A SEE IF NULL TO END STRING H POINT TO NEXT CHARACTER
1		3028		J.R	
335 351		3030	*	4. 08	(IX) MI.JIXA,MI.JIXB
		3033	*	MSG.RAP	AH - RAH TEST MESSAGE
		3034	*	1	
104		3036	MSG. RAM	1	A.ESC, 'E' 'Dynamic RAM test'
007-330 011 040	012	3038		08	NA PL
000		3040		0.8	0
		3042	* *	MSG.EQ	9 - EQUALS HESSAGE
1	040	3044	MSG. EQ	08	II.
007.344 000		3046		90	0
5 107 101	1 103	3048		90	, CAC.

RY POINT FOR FLOPPY DISK ROTATIO MI 10000A-6 SPEED SPEED SPEED NZ 10000A-3-* MUST BE THR NZ 1000A-3-* MUST BE THR NZ 1000A-6-* MUST BE THR NZ 1000A-3-* MUST BE THR NZ 100A-3-* MUST BE THR NZ 10A-4 PAST THR NZ 10A-4 PAST THR NZ 147 PATT THR
ENTRY PO SERRY SERRY SERRY STA ENDIF LDA HOV XRA ANA ANA NVI TF NVI TF NVI TF NVI TF NVI TF NVI TF NVI NVI STA ANA NVI NVI NVI STA ENDIF ENDIF HOV NVI NVI NVI NVI NVI NVI NVI N

Y POINTS	ENTRY POINTS FOR HARDWARE		TESTS			10:42:19 17-FEB-82
			·			
010,045		1	3116	M0 V	۷۰۲	
010.046	315 023 (900	3117	CALL	PIN	
010.054	171	l	3119 3120	3 °	NODEV	PREMATURE DONE
000.001			3121 3122	I Y I V I	.DEBUG A,9	
			3123 3124	STA ENDIF	OBFL G	FLAG PAST RAS
			3125	SET TRA	TRANSFER COUNT TO	9 SECTORS
010.057			3128 3128	M	A, DD.LSC	
010.061	315 027	900	3129	CALL	COM	SEND "LOAD COURT"
010.064	315 023	900	3131	XRA CALL	A	SEND HIGH ORDER BYTE
010.070	015		3133 3134	MVI	A, 10	
010.072	315 023	900	3135	CALL	DAT	SEND LOW DROER BYTE
010.075	315 104	010	3137	CALL	NDN	MAIT FOR DONE, THEN EXIT
010,103		1	3139 3140	RET		
			3142 **	MOM	- WAIT FOR DONE	31
			3144 *	NON Mai	waits for the done bit	bit to be set.
The second secon				time-or	e-out is in effect	at this point
				ENTRY:	NONE	
The state of the s			3150 * 3151 *	EXIT:	PS# "C" SE	SET IF ERROR CLEAR IF DONE
				USES:	PSH	
			3154 * 3155			
010,104	363 305		3156 WDN 3157	DI	m	SAVE BC
010.106	000	175	3158	ראו	B, HDNA	1
010,111	013		3160 WDN1	DCX	8 A• 8	
010.113	261		3162	ORA	3	IF TIMED-OUT
010.115	050 050		3164	a,	Z+HDN2	
010.117	315 170	900	3166	CALL	IN. S.DON	

	CALL IN. S.ERR VALID ONLY IF S.DON SET ANI S.ERR	STC JR NZ, WDNZ IF ERROR BIT SET	ANA A CLEAR CARRY	42 POP 8				RRDY RETURNS THE DEVICE READY BITS IN THE L REGISTER, BITS "ON" INDICATE	Z	#VI	CALL COM	CALL PIN		STA DBFLG ENDIF		NDH HDN		COM2 - #COM# ROUTINE CONTINUALION	OUTPUT COMMAND TO 47 AND THEN DELAY	Z CALL OUT1. SEND CC Myl As409		COM3 DCR A SHORT DELAY	
6911	3170	1172 1173	1174 1175	3176 3177 HONZ	1	3180 3181 HDNA	3183 **		3188 *	3189 3190 RRDY	į	3193	3195	3197	3199	3201	- 1	- 1	- 1	3208 COM	3210	3212 CI 3213	3214

			2				
			3217	*	VIEW5 .	- *VIEW* CONTINUED	JED
			3218	* *	í.	DOES THE ASCII PORTION OF THE	PORTION OF THE *VIEW* ROUTINE
			3220 3221	*		and the state of t	
171	315 316 176	6 010	3222	VIENS	CALL	PCFA	PUSITION CURSOR FOR ASCII GET A BYTE
175	24	1 010	3224		A # 2	VIEW7	×
201		5	3226		CP I	1779 VIEW5.	IF DELETE
206	376 040 060 012		3228		CP I	NC.VIEW6	PRINTABLE?
212		1	3230	VIENS.	PUSH	H. VEW.NP C	NON-PRINTABLE CHARACTER
221	10	900 0	3232		CALL	TYPMSG H	
010.222	315 302		3234	VIEN6	JR	VIEH6. MCC	PRINT IT
232	1	3 007	3236	VIEH6.	CALL R2	VIEW4	IF LAST BYTE DONE
233	315 340	0 003	3238		CALL	VIEN3. NZ.VIEHSA	CHECK FOR END NO, DO MORE
.240	1		3240		RET	on-ruckbeartsdersredirjensteinbartsdersredirjensteinbartsdersrediriessen sie er Valkandelsber	
241	346 177	7	3242	VIENT	ANI	1770 DSH	STRIP PARITY
244		3	3244		IAN	A•330	
251	076 160	8	3246	The state of the s	HVI	As p.	GO TO REVERSE VIDEO
256			3248		POP CP I	PSW 1770	
261	312 270	0 010	3250		J.Z.	VIEW7A	
266		2	3252	VIEW7A	J.R. PUSH	NC+VIEW7.	
271	041 024 315 100	4 011	3254		LXI	H, VEH. NP C TYPASG	
.277		•	3256		POP JR	H VIEH7.	
010,302	315 302 076 033	2 003	3258 3259	VIEH7.	CALL MVI	MCC A,339	PRINT IT
.307		2 003	3260		CALL	20 X	FXIT REVERSE VIDEO
314		9	3262		J.R	VIEN6	AND FINISH UP
.316	345	2 015	3264	PCFA	PUSH	H	
010.322	:	100	3266		LXI JZ	H,PCF.MO	ASSUME OCTAL
333	041 012 315 100		3268	PCFAA	CALL	H,PCF,MH TYPMSG	WAS HEX
010.336	341		3270		POP NVI	H A•1	Skip 1 space per letter
	1	-	-				4

00 Taye 01																										
UNIX MGASH VL9741 3-141-00 10:42:43 17-FEB-82		RETURN TO MOITOR LOOP			DXB				DXB					9×0			DXB		TO DOOT COOM US?	BUUL FRUI 1137		SET FLIP LATCH	SET NOT BUSY		DLY 2 MILLISECONDS	CLEAR INTERRUPTS
		H, MSG, PR MTR, 15	EXTENSION	H, A	IX,DY9.4	0.49.4	DYBYT	Ast	IX,DY9.5 HI-LDXA,MI-L	0Y9.5	DYBYT	ANOTHER EXTENSION!	A 9 D	HI.LOXA, MI.LOXB	DYBYT	A9E	IX,0Y3.7 MI.LDXA.MI.L	DY3.7 DY8YT	- 1	ENIXY PUINI IU	٧	DK.INT	A,FOC.FI FD.CMD	A.1	DLY	FD.STAT
2.01.		Σξ	DYMEM	XCHG MDV	2.8	*	JHP	MOM	07 80	5	JAP	ANOTH	¥0¥	80 80	dWr	¥0×	200	A S		H37	XRA	100	I AN	N I	CALL	Z
#09.02.01		CHAT2	* *	079.3	*			0Y9.4	+			*	0Y3.3			DY3.5	*			¥ #	H37					
TESTS	3376	3377 3378	3380	3382	3384	3386	3388	3390	3392	3394	3396	3398	3400	3402	3404	3406	3408	3410		3413	3415	3417	3419	3421	3423	3475
H/1-89 HUMIIUK S FOR HARDWARE		041 062 014 303 354 000		353	225 041	171 011	303 160 003	175	135 041	315 003	303 160 003		172	335 041 211 011	1			153 007 303 160 003			257	323 171	076 320 323 172		315 053 000	333 172
HTR90-1 - H/ ENTRY POINTS	rich, en demandratement and entered and en	011.152 011.155		011.160	271 110	011.164	011.166	011.171	1	011.174	011-176	And a colombia and the second	011.201	011.202	011.206	011.211	011 313	011,214	Annaham saya ay		011.221	011,222	011.224	011.230	011.232	201 226

and the second s	SET INTERRUPT RUTINE			The second secon	MARTER OF THE PROPERTY OF THE	GET DEVICE CODE	+CON+MFN	The production of the control of the	a destination for the entire destributed in the first of the first of the contract of the first of the contract of the first of the contract o		insure interrupts on	300MS ON DELAY	aladas), daga delegar manu maga deles in manu deles deles deles seculos deles seculos deles seculos deles seculos deles deles delegar deles dele		SET RETURN ADDRESS		ARDIT 5 SECONDS	00081.60		IF BC>0	1	IF 0>0			TIMED GUT			NUMBER OF TRACES TO 10	EI INACH NOMBEN IO	Mait for interrupt			
	H, MY INT UI VEC+9+1	A,MI.JMP UIVEC+9	ATO.UNI		8 * W	A BITS	CON. MO+CON. EI +CON. MFM	DK.CON	8 9 A	3 3	ere de la companya d	A,150	DLY	H9H371	BLKICH	FD.CMD	entering the state of the state	0,4	8 A,8	C N7.H37.	0	NZ 9 H 3 7 .	A.EOC.EI	FD.CMD	H373	н, н3718	BLKICH	A910	A,FDC.SEK+FDF.S30	FD.CHD	uro bere after doin		RIKICE
	LXI SHLD	IAMI	V O 1	IQV	NOW	XRA CALL	ORI	TUO	YOM	PUSH	EI	HVI	CALL	ΓXΙ	SHLD	TUO	1 > -	MVI	7.	ORA 18	930	3 3 3	. > 1	DUT	3	H371 LXI		IANI	UO! M¥I	100 4 % L		X	
3426	3427	3429	3431	3433	3434	3435 3436	3437	3439	3440	3441	3443	3445	3446	3447	3449	3451	3452	3454	3455 H3 3456	3457	3459	3461	3462	3464	3465 3466	I		3470	3471 3472	3473	3475		1
	145 012 051 040		061 041	004		257 315 155 012	015	170			373	226	000	335 011	040			004	013 170	261	7	040 370		076 320 323 172	030 132	041 354 011	067			323 172	777	110 222 011	220
	;	011.245 07		1	- 1	011.260 2			011.270 10	l	011.272 3	-	i		011.303 0	- 1	- 1		011,317 0	Ì	1	011.324 0	1	011.32/ U	333			- 1		011.351 3	1	0 796 610	

10:42:47 17-FEB-82			The second distribution of the second distributi		Zero swicch on							ICE LINE		rol Bits	rupt	of bits	RS						<u> </u>		p					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			DE		5K reads is ok					e personal designation of the contract of the	
			ORE		Be sure track ze	If not there	for head to settle		40 mS DELAY		A CAMBRAN (SERVICE AND	ALLOW MEAD SEILLE		(A) * Device Control Bits	Turn on DRG inte	save device control	READY FOR TRANSF	Read a track	SAVE DETINDA STATIIS	יייייייייייייייייייייייייייייייייייייי	OFF DBL DENSITY		IF KEAD FAILURE		HL - Bytes Read	*	If dot it all			TRY SINGLE DENSI	IF FAILURE		HL ** Bytes Read		Hore than 2.25K		TURN DEF DEVICE				
	*	and confidence of the confiden	after final RESTORE		FDS.TKO	Z,H373	track zero, Mait		8,3200 R	A . B	J	NZ 9H371.		A,8	CON. DRO	8	DK . CON	READT		7.3# A.A		8,A	NZ 9 H372		H,-USERFWA D	A9H	2048+226/236	2	A,8 DK.CON		NZ 9 H 3 7 3	H,-USERFWA	0	A1H 20484256/256	DC2/0 210402	2	A OK CON	NODEV	A,CON.ST	DK.INT	כם כבל
	g# 7		Here		ANI	ج ج	Over		Ç Ç	×0×	ORA	≆	POP	MOV	ORI	PUSH	TUO	CALL	POP	TOY A	N	AOM O	2 %	•	LXI	YON	2	2	M0V	CALL	3	LXI	DAD	HOV	֓֞֞֝֞֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֓֡֓֓֡֓֡֓֡	2	XRA	die	IAH	DUT	1
			#		H371C		*		1467											The state of the s							-		Н372								H373		READT		
TESTS	3482	3483	3484	3485	3486	3487	3489	3490	3491	34046	3494	3495	3497	3498	3499	3501	3502	3503	3505	3506	3508	3509	3511	3512	3513	3515	3516	3518	3519 3520	3521	3523	3525	3526	3527	3258	3530	3531	3533	3534	3536	
ENTRY POINTS FOR HARDWARE	303 370 011				004	050 050	and the same of the same and th		001 200 014			373			366 002		323 170	075 012			373		012	310	041 200 335 031		011	910 107	170 323 170	075 012	i	041 200 335			011	910 107	752	303 171 002	076 001	323 171	
NTRY POINTS	011.370			A Commission of the Adjustment	011,373	011.375	The state of the s		011.377	200.210	012,004	012.005	012.007	012,010	012.011	012,013	012,015	610-610	012.022	012.023	012.025	012.027	012.030	750.570	012.033	012.037	012.040	012.042	012.045	013 060	012,053	012.055	012,060	012,061	012.062	017.064	012,067	012.072	012.075	012,077	

ERRNZ CON.ST-1 SER SER
STAX STAX STAX STAX STAX STAX STAX STAX
E ST S S S S S S S S S S S S S S S S S S
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3591X # 3591X # 3551 PSH 3592X # 3595X 15 PSH 3593X # 3595X 15 PSH	
305 3592X * USES: PSH 307 3592X * USES: PSH 308 3593X * USES: PSH 308 3593X * USES: PSH 309 3593X * USES: PSH 300 3593X	
395 3574 4 0353	
305 3594X 115 PUSH B 365 3594X PUSH PSH 365 3594X PUSH PSH 366 3594X PUSH PSH 366 3594X PUSH PSH 366 3594X PUSH PSH 366 3694X PUSH PSH 366 366 366 PSH 366 PSH PSH 367 PSH PSH 367 PSH PSH 368 PSH PSH 368 PSH PSH 369 PSH 369 PSH 360	
365 3595X BITS PUSH B 367 3595X PUSH PSH 367 3595X PUSH PSH 368 3595X PUSH PSH 369 3595X PUSH PSH 360 3595X PUSH PSH 360 3595X PUSH PSH 360 3600X PUSH PSH 360 PSH PUSH PSH 360 PSH PUSH PSH 360 PSH PS	
365 2396X HVI A,10000008 004 3599X HVI A,10000008 005 3599X HVI A,10000008 006 3600X BITS1 RLR B 302 162 012 3602X JNZ BITS1 261 3603X POP PSM 261 3604X POP PSM 261 3605X POP PSM 262 000 3625X POP PSM 263 000 3625X POP PSM 264 000 3625X POP PSM 265 063 041 3635X POP PSM 265 063	
004 3599X	
007 3590A INT 6 110000000000000000000000000000000000	
1007 3600X BITS1 DCR B 302 162 012 3602X JNZ BITS1 3602X JNZ BITS1 3603X JNZ BITS1 3605X POP PSH 3605X POP 360	
17 3601X DUK B B B B B B B B B	
302 162 012 3603X JN2 81151 361 3604X M0V C ₇ A 361 3605X P0P P5H 301 3608X RET 311 3608X RET 3610 4* H67 - 8001 H67 3610 4* H67 - 8001 H67 3611 4* The section of this code wost II 3610 4* The section of this code wost II 3610 4* H67 - 8001 H67 3611 4* The section of this code wost II 3612 4* Of operating the seconds. 3614 4* Of operating the seconds. 3618 4* Of operating the seconds. 3619 4* Of operating the seconds. 3610 4* H67 - 8001 H67 3610 4* Of operating the seconds. 3611 4* Of operating the seconds. 3612 4* Of operating the seconds. 3614 4* Of operating the seconds. 3618 6* Of operating the seconds. 3619 4* Of operating the seconds. 3610 4* Of operating the seconds. 3610 5* Of operating the seconds. 3610 5* Of operating the seconds. 3610 6* Of operating the seconds. 3611 4* Of operating the seconds. 3612 4* Of operating the seconds. 3614 4* Of operating the seconds. 3615 4* Of operating the seconds. 3616 4* Of operating the seconds. 3617 000 362 041 362 041 040 362 040 362 041 363 041 363 041 062 043 363 041 062 043 363 041 062 043 363 041 062 043 041 062 043 364 041 062	
117 3604X MOV CAA CA	
361 3606X PUP PSN 261 3606X ORA C 301 3608X RET 311 3609X RET 3610 ** H67 - B00T H67 3611	
261 3608X UKA	
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6	NODEV	cause the drive to st	AIO.UNI	A	H673	H, AIO. DIR	M, D. SEK	T	7 W	CETCON	NODEV	te de la companya de	H, AIO.DIR M, D. REC		And the second control of the contro	GETCON	NODEV	H, AIO. DIR	M,D.REA	rr	I	¥.10		M,080H	H67UNI	AIO.UIR+1	GETCON	NODEV		AIO.UNI		Ali I TO	101016	AMANANA MANANA MANA	the state of state of the state	8,65535 0,2	
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OM WAIT FOR CONTROLLER		(C)*SIATUS BYTE			TY+85.COM	•!	SAVE BYTES FOR DEBUG	andrews and supplications of the supplication	(A)=COMPLETION BYTE CHECK COMPLETION	SHOULD BE ZERO	1	CHECK FOR ERRORS	IF A BIT IS SET	, or equipment of the state of		IF INTERFACE ERROR	CLEAR CARRY	200	HL = LOAD ADDRESS		MATT FOR REQUEST	And the second second	IF DONE, CHECK STATUS	ET DAT		CONTINUE UNTIL DONE
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013.113 013.115 013.117	3,12	013.124	-	013.133		013.141	ກິຕ	013.150	3.1	013,155	15	013.160	3.16	013.164	013, 165	013, 170	~	013.172	013.173	. (1) (1	013.202	013 504	013.207		013.216	, ,

Y PUINTS F	ENTRY POINTS FOR HARDWARE	TEST	S			10:43:16 1/-FEB-62
Manager State Company of the Company		3812	**	FEDEV -	FUTURE EXPANSION DEVICE	ON DEVICE
		3813	* *	CURRENT	: 1	PRINTS "UNKNOWN DEVICE"
School State of the Control of the C	A STATE OF S	3815			and the state of t	
3.222	041 233 013	3817	FEDEV	LXI	H. MSG.FE TYPMSG	
230	177	3819	Andrew Commenter of the	JMP	NODEVI	ENTER COMMON RECOVERY CODE
013.233 0	077 125 156	3821	MSG. FE	90	*?Unkown Device*;0	6, 90
9,000		3823	*	DYMEN10	- DYNAHIC RAH	TEST CONTINUED
An delitation to the state of t		3824	*	A CONTRACTOR OF THE PROPERTY O		
013.252 0	076 007	3826	DYMEM10	MVI	As As BEL.	99
		3828			0Y10.5	
013.260	303 143 003	3830		JMP	DYASC	
Action of Action	AND DESCRIPTIONS OF THE PERSON	3833	*	The second secon	and demonstrate the second	
and the second s		3834	1	CCL CHE	CKS TO SEE IF T	HE USER MISHES TO PASS A COMMAND
		3835	* *	RE TURN,	THEN NO COMMAN	FINE USER SIMPLE INTES A CANALAGE. D. LINE IS PRESENT AND (SP) = 42,200
AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN THE PERSON N		3837	1	OTHERMI AND THE	SE THE COMMAND BOOT ROUTINES	WISE THE COMMAND LINE IS PUSHED ONTO THE STACK ALA HOOS HE BOOT ROUTINES CAN DO WITH AS THEY SEE FIT.
And the state of t		3839	1	> 0	NOW	
		3841	1	ENIN!	NONC	
		3842	-	EXIT:	(SP) ==	45.200
		3843	* *		(SP) <>	e e e e e e e e e e e e e e e e e e e
And the second s		3845	* #			COMMAND ON STACK TERMINATED MITH GOOD
		3847	1	USES:	SP	
to the design of design	A CONTRACTOR OF THE PARTY OF TH	3849		the second section of the second seco	mana y and the state of the contract of the state of the contract of the contr	
563	000	- 1	CCL	STA	START	SAVE UNIT NUMBER
013,266	042 002 040 061 200 042			LXI	1UMKR SP,42200A	SET STACK
274		3853		ΓXΙ	H, AIO.DIR	
013.277	016 035	3855		MVI	C, PRIM-AIO.DIR-1	(-1 (C) - MAXIMUM ALLOWABLE LENGTH
	op delensores and constitution of the state	3857	*	GET 1ST	CHAKACTER	THE TAX AND THE TA
1		- 1	ľ		The second secon	TATE A LEVEL DE LEVEL CONTROL
013,301	315 262 003		CCLI	CALL	×	KEAU ARIBUAKU
		2		2	ے دے	The state of the s

013,310		.:	3862		CP I	•	COMMAND LINE FOLLOWS
013.312		,	3863		er I	7.0CL4	ALLOH A SPACE
013.316		2 ~	3865		S Y	Z, CCL2 A, A. BEL	
013.322	315 302 030 352	2 003	3867	CCL2	CALL	HCC CCL1	ECHO CHARACTER
			3869 3870	#	A TSUL	CARRIAGE RETURN,	ND COMMAND
013,327			3871 3872	CCL3		HCR.	ECHU CRLF
013,332	052 002		3873	CCL3.	LHLD	IOWRK	RESTORE REGISTERS
013.340		0 001	3875		JAP	80076	RETURN TO CALLER
			3877	*	HAD ":",	COMMAND LINE	FOLLOWS
013,343	315 302	2 003	3879	\$ 100 001 \$	CALL	HCC RCC	GET NEXT
013,351	1		3881		CPI	A.GR	TE END OF LINE
013,355	167	0	3883	-	MOV	H.A	SAVE CHARACTER
013,356	043		3884		INX		
013,350			3886		<u> </u>	NZ, CCL4	IF NOT TOO MANY
013.362	014	- Anna and an anna and an anna and an anna an anna an anna an anna an anna an an	3887		INR		RESET COUNTER IGNORE IT
013.364	1	7	3889		IAW	• A • 8EL	BE EP
012 * 200			3891	*	END OF	-	
	1		3893			1	
013,370		0 005	3894	CCL6	CALL	ACK.	NII TEPRINATER
013,373	353		3896 3896		XCHG	0.40	(DE)=LWA OF COMMAND
013.376	041 000	000 0	3897		LXI	0.47	H: = STACK
014.002	053		3899	9.00	DCX	T	•
			3901	+	MOVE C	COMMAND INTO STACK	AREA
014.003	363		3903		IO		NO CLOCK INTERRUPTS
014.004	032		3905	CCL7	LDAX	0	DE = COMMAND BYTE
014,005	-		3906		ACX OCX	H	
014.007	033	040	3908		DCX	O AI KICH	SAVE FOR A SECOND
014.013	041		3910		ראו	H.AIO.DIR-1	AM I DONE?
014.016	174		3911		MOV CMP	A,H	
014.020	l	4	3913		J.R. MOV	NZ,CCL8	ON
014.023	273		3915		CHP	E 7 . CC 1 9	YES. FINISH UP
014.024	2					, , , , , ,	

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10:43:21 17-FEB-82			1-1		d files (specification of the state of the s									The second second second is a second	The second secon					
CCL			D HITH COMMAND LINE, (BLKICH)=FMA-1		AND GO BACK	BOOT SECONDARY MESSAGE		- GENERAL ERROR MESSAGE	Fror \$, 0	Message	F, * H: *,0									
	BLKICH	2700	D WITH CO	BLKICH H	*E700	- 800T SEC	0,08.	- GENERAL	'?Boot Error',0	- Prompt Message	A.CR, A.LF,	and the second s		Andrews and the second						The state of the s
	LHLO	~	FINISHE	LHLD	SPHL SPHL	BSMSG -	0.8	ERRMSG	0.8	MSG.PR	90									
	CCL 8		*	(TOO		* *	BSMS6	*	ERRMSG	*	# MSG.PR	and the second s								
TESTS	3918	3919 3920	3921	3923	3925 3926	3928 3929	3930 3931	3933	3934	3937	3938 3939									
ENTRY POINTS FOR HARDWARE	052 067 040		- mandapopor in programment and the programmen	052 067 040 043	371 030 270		040 123 104		077 102 157		015 012 040				eren e de de deservat de securit de la companya de		- Annual de la companya de la compa			
Y POINTS	014.026	014.031		014.033	314.037 314.040		014.042		014.046		014.062		A CONTRACTOR OF THE PARTY OF TH				PARAMETER ANTENNEY CONT. COMP. CO.	Approximately and property of the second	And the second s	And the second Company of the second

3942 ** RADIX - A 3943 * RADIX SET 3944 * RADIX SET 3945 * RADIX SET 3945 * RADIX SET 3945 * RADIX LXI H 014.075 315 100 006 3948 RADIX LXI H 014.100 315 262 003 3950 RADIXI CALL R 014.100 315 223 015 3951 CALL R 014.110 050 017 3953 CPI CALL R 014.112 376 110 3954 CPI R 014.122 076 036 3955 CPI R 014.122 076 007 3958 HVI R 014.122 076 007 3958 HVI R 014.122 076 007 3959 CALL R 014.124 315 302 003 3959 CALL R	SETS THE SYSTEM RADIX HPMSG-RAD TYPMSG COM RCC RCA RCU RCU RCU RADIX2 141 Z,RADIX3 A,CR Z,RADIX4 A,A,RBEL	RADIX COMPLETE NAME READ CHARACTER HAP TO UPPER
3943 * RADIX 3944 # RADIX 3945 # 3946 041 203 014 3947 RADIX LXI 315 100 006 3948 CALL 315 223 015 3950 RADIXI CALL 376 117 3952 CPI 050 017 3953 JR 376 015 3954 CPI 050 026 3955 JR 050 026 3957 JR 076 007 3959 JR 076 007 3959 CPI 076 007 3959 CALL	HPMSG-RAD TYPHSG	TO OCTAL OR PLETE NAME TO UPPER
3945 * 3946 3946 3946 315 100 006 3948 CALL 315 262 003 3950 RADIXI CALL 315 223 015 3951 CALL 376 117 3952 CPI 050 017 3954 CPI 050 026 3954 CPI 050 036 3955 CPI 050 036 3955 CPI 050 036 3956 CPI	HPMSG.RAD TYPMSG RCC NCU 101 2.RADIX2 H. LyRADIX3 A.CR ZyRADIX4 A.CR ZyRADIX4 A.CR	COMPLETE NAME KEAD CHARACTER HAP TO UPPER
041 203 014 3947 RADIX LXI 315 100 006 3948 CALL 315 262 003 3950 RADIXI CALL 315 223 015 3951 CALL 376 117 3953 CPI 050 017 3954 CPI 376 110 3955 JR 376 015 3956 JR 050 036 3957 JR 076 007 3958 HVI 076 007 3959 CALL		COMPLETE NAME KEAD CHARACTER NAP TO UPPER
315 262 003 3950 RADIXI CALL 315 223 015 3951 CALL 376 117 3952 CPI 050 017 3953 JR 376 110 3954 CPI 376 015 3955 JR 050 026 3955 JR 076 007 3958 HVI 315 302 003 3959 CALL		KEAD CHARACTER Hap to upper
315 223 015 3951 CALL 376 117 3952 CPI 050 017 3953 JR 376 110 3954 CPI 376 015 3955 JR 376 015 3955 JR 050 036 3955 JR 076 007 3958 MVI 315 302 003 3959 CALL		MAP TO UPPER
050 017 3953 JR 376 110 3954 CPI 050 026 3955 JR 376 036 3956 CPI 076 007 3957 JR 076 007 3958 MVI 315 302 003 3959 CALL	ZyRADIXZ HI ZyRADIX3 A+CR ZyRADIX4 A+BEL	
050 026 3955 JR 376 015 3956 CPI 050 036 3957 JR 076 007 3958 MVI 315 302 003 3959 CALL	Z,RADIX3 A,CR Z,RADIX4 A,A,BEL	
050 036 3957 JR 076 007 3958 MVI 315 302 003 3959 CALL	ZyRADIX4 AyA.BEL	
315 302 003 3959 CALL		
030 34 3400	#CC RADIX1	
3961 3962 * SET	OCTAL RADIX	
211 014 3964 RADIX2 1XI	H.RAD.OCT	
315 100 006 3965 CALL	TYPMSG	
STA	RADFLG	SET FLAG
3969 * SET	HEX RADIX	
3971 3972 RADIX3 LXI	H,RAD,HEX	
315 100 006 3973 CALL	TYPHSG	
040 3975 STA	RADFLG	
3977 SHOW	CURRENT SETTING	
041 211 014 3980 RADIX4 LXI	H9RAD.OCT	
315 112 015 3981 CALL	CHKKAD 7.RADIX5	ASSUME OCTAL MAS OCTAL
041 217 014 3983 LXI	H,RAD.HEX	
RADIX5 MVI	A.A.CR	TAI ON
303 100 006 3987 JAP	TYPHSG	TYPE NAME
3989 * MESSAGES 3990	S	
MSG.RAD DB	adix *,0	
110 145 170 3993 RAD.HEX DB	"Hexadecimal",0	

		C E P	1.5 GV				FINISH COMMAND				CARRY	18.1			(TA AT (PRIM)				CRLF	The state of the s	TYPE THE BYTE	The second secon		CHIZENS TARE					AND THE PROPERTY OF THE PROPER		STORE INFO IN IOWRK	NATE PURI BY HITHER	CAKKI	INPUT ADORESS	(A)=PORT NUMBER			GET BYTE AND (CR)
	INPUT - PORT INPUT		INPUT INPUTS THE VALUE FROM THE SPECIFICAL	_	The second secon	H, MSG. INP	TYPMSG	ì	DESIRED PORT NUMBER	X DO T		108	1	UAIA TRUM INAL FURI	L IN. GET DATA	POTAT RESULT	. 1			PSH	108	OUTPUT - PORT OUTPUT	OUTPUT SENDS DATA OUT THE DESIRED PORT	IN KEEPING WITH THE TAPE LOAD/DUMP ROUTINES, THE	A COLUMN BY DATA:	-	OUTPUT AAA,ODOCCR>		I H, MSG, OUT		H, IONRK+1	0, 60	∢	CALL IOA INPUT	LDA IOWRK (A)=P	rational designation of the second se		H* LUNKK
	Z.I **			· *	**************************************	INPUT LXI			* GET	1 × 1	ANA	CALL		* KEAU	CALL	302		PUSH	2	D	d R C	*	ă * *			¥ #		*	OUTPUT L		ראו	I	ANA	3 100 C	- 0		4	د
	39 96	3997	3998	4000	4001	4002	4003	4004	4005	0000	4008	4009	4010	4011	4013	4014	4016	4017	4016	4020	4021	4023	4024	4026	4027	4028	4030	4031	4033	4034	4036	4037	4038	4040	4042	4044	4045	4046
Thui			And the second s			327 014	900			. 70 00.	041 120 041 247	036 015			315 170 006			•	315 370 005	•	303 077 015			And the second s			The second se			315 100 006		054	247	315 023 015	005	140 071 790		041 002 040
PORT INPUT/OUTPUT			***************************************				014-236			- 1	167.410	1			014.250			014.253	- [1								4.265	014.270	4.273	14.276	014.300	014,301	014.304	14.307	14.312	014.313

Unix H8ASM V1.4.1 5-Jui-80 Page 94 10:43:26 17-FE8-82	(A)	ITH (A)								1ARACTER										
Uni)	RK GET DATA IN (A)	OUT (PRIM) WITH	- INPUT/OUTPUT MESSAGES	0.	a.CR,A.LF,A.LF,"Error 2 ',0	SUBSTITUE PREFIX	CHKRAD	M11 118				ADD NEW TOTAL	# au > 170 a	011118	A			1100008	SUBM10.	
#09.02.01.	LOA IOHRK	JMP OUT	## MSG.XXX - II	90	MSG.ERR DB A.C.	** SUBM10 - SU	SUBMIO CALL CHK	J.R.			ארכ		RET				RLC	RLC ANI 11		
HTR90-1 - H/Z-89 MONITOR PORT INPUT/OUTPUT	014,321 072 002 040 4049	4050 014.324 303.063 006 4051	1 1	4054 4055	014.327 156 040 000 4026 N 014.332 165 164 040 4057 N 014.336 015 012 012 4058 N	4060 4061	4062	040 014 4064	137	176	007	014.366 346 370 4071	311 4074	315 234 015 4075	770	176	007	200	015.010 030 356 4084	

4087 4087 4087 4087 4088			19 IRUC PREFIXES			
4089		4087	*	EF IX	ES	
4090		4088 4088	* *		ROUTINES ARE PREFIXE	S TO THE 10A, 108
4091 * THE PK 4092 * TO THE 4093 * TO THE 4094	A THE PROPERTY OF THE PROPERTY	4090		TOA, AN	NO TOB ROUTINES. THE	SE PREFIXES DETERMINE P TOLINGEE COMTON
4093 ** 315 112 015 4095 180C CALL 303 326 015 4097 10A PUSH 365 112 015 4099 10A PUSH 315 112 015 4100 CALL 302 244 015 4101 DOP 303 062 003 4103 DNP 365 4101 DNSH 365 4102 DNSH 365 4103 4109 DNSH 365 4105 4106 DNSH 365 4107 DNSH 365 4113 015 4110 DOP 361 112 015 4110 DNSH 365 4111 DNSH 365 4111 DNSH 365 4112 015 41118 DNSH 365 4115 015 41118 DNSH 365 4115 015 41118 DNSH 365 4117 DNSH 365 4118 DNSH 365 4119 DNSH 365 4110 DNSH 365 4110 DNSH 365 4111 DNSH 365 4111 DNSH 365 4111 DNSH 365 4112 DNSH 365 4112 DNSH 367 4112 DNSH 368 4113 DNSH 369 100		4091		THE PRU	NEEDED ROUTINES	U IKANSTEN VONTAUL
315 112 015 4094 IROC CALL CHKRAD 312 140 005 4096 IROC CALL IROCH 303 326 015 4097 IA PUSH PSW 315 112 015 4100 IA PUSH PSW 302 244 015 4100 IA PUSH PSW 303 062 003 4103 IAP IOAO 365 4406 IAD IAD IAD IAD 304 305 062 003 4109 IAP IOBO 365 4407 IAD IAD IAD IAD 305 123 015 4106 IAD IAD IAD 306 003 4109 IAD IAD IAD 307 112 015 4106 IAD IAD IAD 308 066 003 4109 IAD IAD IAD 309 214 015 4112 IAD IAD IAD 300 066 003 4109 IAD IAD 300 066 005 4115 IAD IAD IAD 300 066 005 4115 IAD IAD IAD 300 066 006 4115 IAD IAD IAD 301 300 006 4121 IAD IAD IAD 302 114 015 4119 IAD IAD 303 300 006 4121 IAD IAD IAD 303 300 006 4121 IAD IAD IAD 309 312 006 4127 IAD IAD IAD 309 312 006 4131 IAD 309 3100 IAD 300 3100 IAD 300 AD 300 AD 300 AD 300 AD 300 AD 300 AD 3		4093		,		
315 116 015 4097 1702 17020 312 316 015 4097 1702 17020 315 312 015 4099 10A PUSH PSW 10A0 315 112 015 4100 1702 1702 1704 1704 1704 1708 1704 1708 1708 1708 1708 1708 1708 1708 1708	216 113	4094	1001	1 1 4 3	CHRADA	
365 50 012 4097 101 100 1019 1019 1019 1019 1019 101	312 140	9604	20VI	J.Z.	IROCO	
365 4099 10A PUSH PSW CHECK 315 112 015 4100 CAL CHKRAD CAL CHKRAD 30. 244 0.01 4102 PDP PSW SAVE 30. 244 0.01 4102 PDP PSW SAVE 30. 30. 30. 20. 34.02 JMP 10AO JMP 10AO JMP 10BO JMP PSW JMP 10BO JMP 10	303 326	4098		163	TROCK	
315 112 015 4100	365	6604	IOA	PUSH	0 4 0	ECH BARIY
361 4102 POP PSN SAVE 303 062 003 4103 JNP 10A0 365 4104 HO5 HOSH PSN 315 112 015 4106 CALL CHKRAD 302 123 015 4107 JNZ IHB 303 066 003 4109 JNP 10B0 365 4110 POP PSN 361 4110 POP PSN 361 4111 IOC PUSH PSN 362 14 015 4112 JNZ IHC 363 112 015 4112 JNZ IHC 364 4114 POP PSN 365 4115 JNZ IHC 365 4115 JNZ IHC 366 005 4115 JNZ IHC 367 010 016 4119 JNZ IHA 368 4121 015 4118 CALL CHKRAD 368 4121 JNZ IHB 369 4127 JNP 10B0 4120 A121 JNP 10B0 4121 JND PUSH PSN 361 4120 JNZ IHB 362 14 015 4119 JNZ IHB 363 320 005 4115 JNP 10B0 4121 JND POP PSN 365 4127 JNP 10B0 4126 POP PSN 366 4127 JNP 10B0 4127 A130 HOV BSN 4130 A131 CHKRAD PUSH B 4130 A131 HOV ASSN 367 010 040 4125 JNP 10B0 4128 A131 CHKRAD PUSH B 4130 A131 HOV ASSN 367 010 040 4125 JNP 10B0 4130 A131 HOV ASSN 368 A131 CHKRAD PUSH B 368 A131 CHKRAD PUSH B 369 A131 CHKRAD PUSH B 369 A131 CHKRAD PUSH B 361 A132 HOV ASSN 361 A133 HOV ASSN 362 A133 HOV ASSN 363 A133 HOV ASSN 364 A134 ANA A 365 A135 HOV ASSN 366 A135 HOV ASSN 367 A135 HOV ASSN 368 A137 HOV ASSN 369 A131 CHKRAD PUSH B 369 A131 CHKRAD PUSH B 360 A131 CHECK CURRENT RADIX 4130 ANA A 413	315 112 302 244	4100 4101		CALL	(AU	GCN KADIA
303 062 003 4103 JNP 4104 4105 108 PUSH 315 112 015 4106 CALL 302 123 015 4107 JNP 708 4109 JNP 708 4109 JNP 708 711 100 PUSH 303 066 003 4109 JNP 708 711 100 PUSH 305 214 015 4113 JNP 708 711 100 PUSH 305 214 015 4113 JNP 708 711 100 PUSH 305 001 016 4119 PUSH 305 001 016 4119 PUSH 305 015 4120 PUSH 305 350 015 4120 PUSH 315 112 015 4120 PUSH 305 350 015 4120 PUSH 315 112 015 4120 PUSH 305 350 015 4120 PUSH 315 112 015 4130 PUSH 313 CHECK 4130 PUSH 313 CHECK 4130 PUSH 313 CHECK 4130 PUSH 313 PUSH 3	361	4102		P0.P		VE CARRY FLAG
365	303 062	4103		JE C	TOVO	
315 112 015 4106 CALL 302 123 015 4107 JNZ 361 060 003 4109 JNP 362 016 003 4109 JNP 363 066 003 4109 JNP 365 4111 10C PUSH 365 4112 015 4114 POP 361 112 015 4119 JNP 362 010 016 4119 JNZ 361 016 4119 POP 363 300 005 4121 JNP 365 4121 015 4126 POP 361 016 4119 POP 362 016 4129 CALL 365 4121 016 4129 POP 361 016 4129 POP 362 016 4126 JNZ 363 322 005 4127 JNP 4128 POP 363 322 005 4127 JNP 4128 POP 364 4129 POP 365 4127 JNP 4128 POP 367 4130 JNZ 368 4129 POP 368 4129 POP 368 4129 POP 369 4131 CHKRAD PUSH 369 619		4104	108	PUSH	PSM	
302 123 015 4107 JNLZ 363 066 003 4109 JNP 365 4110 016 PUSH 305 214 015 4112 JNLZ 361 4114 PUSH 302 214 015 4113 JNLZ 361 4115 015 4114 PUSH 303 266 005 4115 JNP 304 266 005 4115 JNZ 361 016 4119 PUSH 305 010 016 4119 PUSH 307 001 016 4119 PUSH 308 300 005 4121 JNP 308 350 015 4126 PUSH 309 350 015 4126 PUSH 301 322 005 4127 JNP 4126 PUSH 302 350 015 4126 PUSH 303 322 005 4127 JNP 4126 PUSH 305 4127 JNP 4136 PUSH 307 4136 PUSH 308 4139 # CHECK 4130 HUV 072 071 040 4133 LUA 170 4135 PUSH 301 4136 PUSH 301 4137 REF	315 112	4106		CALL	CHKRAD	
365 066 003 4108 JNP 303 066 003 4109 JNP 304 066 003 4110 CALL 315 112 015 4113 JNZ 365 005 4115 JNP POP 303 266 005 4115 JNP POP 305 001 016 4119 CALL 305 350 015 4124 JNZ 365 015 4125 CALL 307 350 015 4126 POP 303 322 005 4127 JNP 4126 POP 304 072 071 040 4133 CHECK 4130 CHECK 4130 CHECK 4130 CHECK 4130 CHECK 305 071 040 4135 CHECK 4130 CHECK 6130	302 123	4107		745	718	
365 4110 PUSH 315 112 015 4112 OALL 302 214 015 4113 JNZ 361 4114 POP POP 363 266 005 4115 JNP 315 112 016 4119 JNP 363 260 005 4121 JNP 361 412 412 JNP 361 412 412 JNP 363 300 005 4121 JNP 363 350 015 4123 TOB PUSH 363 350 015 4124 CALL 363 350 015 4126 PUSH 361 4126 4126 JNP 4120 4126 4126 AUSH 4120 4130 CHECK 4130 4134 AUA 170 4134 AUA 170	361 303 066	4108 4109		J. G.	1080	
315 112 015 4112 CALL 302 214 015 4113 JNZ 361 4114 POP 303 266 005 4115 JNP 315 112 015 4119 JNZ 361 01 016 4119 JNZ 361 01 016 4119 JNZ 361 01 016 4119 JNZ 361 010 015 4121 POP 302 350 015 4123 TOB PUSH 315 112 015 4124 CALL 302 350 015 4123 POP 303 322 005 4121 POP 304 350 015 4126 JNZ 365 4121 POP 367 4131 CHECK 4130 HOV 072 071 040 4133 LDA 247 4135 HOV 170 4135 HOV 170 4135 POP 301 4136 POP	6	4110	1	HOHO	200	
302 214 015 4112 JNZ 361 4114 POP 303 266 005 4115 JHP POP 303 266 005 4115 JHP POP 304 215 112 015 4118 JHZ 305 001 016 4119 JNZ 301 300 005 4121 JHP POP 303 300 005 4121 JHP POP 304 305 4127 JHP POP 305 350 015 4125 JHP POP 307 350 015 4126 POP 308 350 015 4126 JHZ 309 350 015 4126 JHZ 301 322 005 4127 JHP 4126 POP 301 4131 CHECK 4130 HOV 072 071 040 4132 LDA 247 4135 HOV 170 4135 HOV 301 4136 POP	365	4117	- 1	L L L	CHKRAD	
361 4114 POP 303 266 005 4115 JMP 4116 112 015 4118 CALL 302 001 016 4119 JNZ 361 300 005 4121 JMP 362 001 016 4120 POP 303 300 005 4121 JMP 365 4121 OP 315 112 015 4124 CALL 302 350 015 4125 JNZ 361 4126 POP 4126 POP 4127 4128 CHECK 4130 PUSH 4128 CHECK 4130 LDA 247 4134 ANA 247 4135 POP 301 322 005 4127 JMP 4128 CHECK 4139 * CHECK 4130 PUSH 107 4131 CHECK 4130 PUSH 107 4131 CHECK 4130 PUSH 107 4131 CHECK 4130 PUSH 1170 4133 CHECK 4130 PUSH 1170 A131 CHECK 4131 CHECK 4132 CHECK 4134 CHECK 4134 CHECK 4135 CHECK 4136 CHECK 4136 CHECK 4137 CHECK 4134 CHECK 4134 CHECK 4134 CHECK 4134 CHECK 4134 CHECK 4134 CHECK 4136 CHECK 4137 CHECK 4137 CHECK 4137 CHECK 4138	302 214	4113		785	IHC	
363 266 009 4115 JHP 4116 JHP 4117 TOA PUSH 315 112 015 4119 JNZ 361 001 016 4119 JNZ 361 0005 4121 JHP 4122 JHP 4122 JHP 4122 JHP 4124 JHZ 361 350 015 4125 JHZ 361 350 015 4125 JHP 4126 JHP 4126 JHZ 361 322 005 4127 JHP 4126 JHZ 361 322 005 4127 JHP 4126 JHZ JHP 4126 JHZ	361	4114		P0P	PSK	
365 417 TOA PUSH 315 112 015 4118 CALL 302 001 016 4119 JNZ 361 4120 A120 JNP 303 300 005 4121 JNP 315 112 015 4122 JNP 304 322 005 4127 JNZ 305 322 005 4127 JNZ 307 015 4126 JNZ 308 322 005 4127 JNP 4126 PUSH 309 4127 JNP 4126 PUSH 301 4120 A121 CHECK 4130 ANA 107 071 040 4133 LDA 247 4134 ANA 170 4135 HOV 311 4137 RET	303 209	4117		L	***************************************	
315 112 015 4118 CALL 302 001 016 4119 JNZ 363 300 005 4121 JNP 363 300 005 4122 JNP 365 4122 T08 PUSH 365 4123 T08 PUSH 363 322 005 4125 JNP 363 322 005 4127 JNP 363 322 005 4127 JNP 363 322 005 4127 JNP 4126 PUSH 364 4127 JNP 4126 PUSH 4127 A131 CHKRAD PUSH 107 A132 LDA 247 A134 ANA 170 A133 LDA 247 A134 ANA 170 A135 PUSH 301 A137 REF	365	4117		PUSH	PSH	
362 001 010 4117 902 363 300 005 4121 90P 365 4122 108 PUSH 315 112 015 4125 108 PUSH 302 350 015 4125 JMP 303 322 005 4125 JMP 4126 POP 4126 POP 4127 4129 # CHECK 4130 PUSH 107 4132 LDA 4130 PUSH 107 4132 LDA 247 4134 ANA 170 4135 POP 301 4135 POP 4136 POP 307 071 040 4133 LDA 247 4134 ANA 308 4135 POP 308 4136 POP 309 4136 POP 301 4137 RET	315 112	4118		CALL	CHKKAD	
303 300 005 4121 JMP 365 4122 T08 PUSH 315 112 015 4124 JMZ 302 350 015 4125 JMP 303 322 005 4127 JMP 303 322 005 4127 L0P 4130 CHKRAD PUSH 107 4132 LDA 247 4134 ANA 170 4135 H0V 301 4135 H0V 311 4137 RET	302 001	4120		POP	PSW	
365 4122 TOB PUSH 315 112 015 4124 GALL 302 350 015 4125 JNZ 361 4126 POP 303 322 005 4127 JNP 303 322 005 4127 JNP 4129 # CHECK 4129 # CHECK 4130 HOV 072 071 040 4133 LDA 247 4134 ANA 170 4135 HOV 301 4136 POP 301 4136 POP	303 300 00	4121		dHP	TOAO	
315 112 015 4124 GALL 302 350 015 4125 JNZ 361 322 005 4127 JNP 303 322 005 4127 JNP 4128 CHECK 4130 CHKRAD PUSH 107 4131 CHKRAD PUSH 1107 4131 CHKRAD PUSH 1107 4134 ANA 110 4135 HOV 1107 4134 ANA 110 4135 HOV	1	4122		PUSH	#Sd.	
302 350 015 4125 JNZ 361 4126 POP 303 322 005 4127 JMP 4128 CHECK 4130 CHKRAD PUSH 107 4131 CHKRAD PUSH 107 4134 ANA 247 4135 HOV 170 4135 HOV 301 4137 RET	315 112	4124	1	CALL	CHKRAD	
361 4126 PUP 303 322 005 4127 JMP 4128 CHECK 4129 CHECK 4130 CHKRAD PUSH 107 4131 CHKRAD PUSH 107 4131 CHKRAD PUSH 107 4131 ANA 247 4135 ANA 170 4135 ANA 301 4135 RET	302 350	4125		ZHC	THB	
4128	361	4126		d d	1080	
4129 * CHECK 4130 305 4131 CHKRAD PUSH 107 4132 HDV 072 071 040 4133 LDA 247 4134 ANA 170 4135 HDV 301 4135 RET	727	4128				
305 4131 CHKRAD PUSH 107 4132 HOV 072 071 040 4133 LDA 247 4134 ANA 170 4135 HOV 301 4135 FOP		4129	- 1		CURRENT RADIX	
107 072 071 040 4133 LDA 247 4134 ANA 170 4135 HOV 301 4136 PDP	3.0	4130		PUSH	62	
072 071 040 4133 LDA 247 4134 ANA 170 4135 HOV 301 4136 PDP 311 4137 RET	1	4132	1	MOV	ByA	
247 4134 ANA 170 4135 HOV 301 4136 POP 311 4137 RET	072 071	4133		YO7	RADFLG	
1/0 1155 nor 301 4136 PDP 311 4137 RET		4134		4 2 4 4 4 4 4	æ •	
311 4137	1	4136		P0P	8	
	1	4137		RET	Andreas and the second sec	

	4139	*	HEX ROL	ROUTINES		
	4140	* *	THESE	COUTINES ARE THE	HEX EQUIVELANT OF THE	
And the second of the second o	4142	* *	OCTAL F	AL ROUTINES PREFIXED ABOVE	ED ABOVE	
	4144	* *	NOTE: 1	THESE ROUTINES ,	E: THESE ROUTINES ARE ENTERED WITH PSW ON THE STACK	
e nog stransferskelden de de fattelde stransferskelden for de fattelde fatt	4146					
015-123 066 000	4148	IHB	IAN	M.O.	CLEAR RESULT	
1	4150	IHBI	CNC	RCC		
	4152	**	снеск в	CK FOR VALIDITY		
015,131 315 173 015	4154		CALL	CCH NC.1HB2	CHECK CHARACTER FOR VALID HEX	
376	4156		CPI	A.CR	KETURN?	
247	4158		ANA	A	INSURE CARRY OFF	annimite de l'annimité de la company de l'annimité de l'annimité de l'annimité de l'annimité de l'annimité de
076	4159		HVI	A, A, BEL		
030 355	4161		2 S	IHBI		
	4162	*	HAVE A	VALID HEX CHARACTER	ACTER	
315 302	4164	IHB2	1))		
315	4166		CALL	CHC	CONVERT HEX CHARACTER	
015,160 176 015,161 007	4168		HOV	Ash	GET VALUE SO FAR	
1	4170		RLC		MOVE UP NIBBLE	
200	4172		RLC	111100008	THROW AWAY LAST	
1	4174		ORA		יייי אוויי איי א	
í	4176	#	L L L	IHBI FCK FOR VALID HEX CHARACTER	HARACTER	
	4178	* *	HO HOO	ECKS (A) FOR HE	x VALIDITY	
	4180	*		IS SET IF INVALID	INVALID	
	4182	+	many remains to proper the second second	empelektikatik (h. jaroji sa 150 km.) mana 1800 km.) oktobro produktikatik (h. jaroji sa 150 km.)		
315	4183	НЭЭ	CALL	HCU	MAP TO UPPER	
015.176 376 060 015.200 330	4184		CP I RC	•0•	IF LESS THAN ZERO	
1	4186		CPI	14,61		
320	4188	A CONTRACTOR OF THE CONTRACTOR	RNC		BETWEEN 0 AND 9	
330	4190		2 2		LOWER CASE IS NOT VALID	
015.210 376 107	4191		CPI	0 F • + 1		
	7674		ב כ			

1157 361 17 17 18 18 C MARKTER 116 18 18 C MARKTER 117 18 18 C MARKTER 117 18 18 18 C MARKTER 118 18 18 18 18 18 18 18 18 18 18 18 18	361 315 262 003 303 173 015 376 141 330 376 173 320 346 137	-				
315 262 003 4199	361 315 262 003 303 173 015 376 141 330 376 173 320 346 137		*	ı	MPUT HEX	TER
262 003 4199 IHC POP PSM 173 015 4200 JMP CGH CHECK FOR VALID 173 4205 NCU CPI 'a' LESS THAN 'A' 173 4206 NCU CPI 'z'+1 4206 NCU RET 0.0111118 137 4207 RET 0.0111118	361 315 262 003 303 173 015 376 141 376 173 320 346 137 311	1	*			
305 173 015 4200 JMP CCH CHECK FOR VALID 4202 ** HCU - NAP CASE TO UPPER 4203 * A205 HCU CPI 'a' LESS THAN 'A' 320 4205 RCU CPI 'a' LESS THAN 'A' 320 4205 RCU RC '2'*1 320 4205 RCI RET 010111118 311 4210 RET 010111118	303 173 015 303 173 015 376 141 320 376 173 320 346 137	198	汨	POP	P S K	
4202 ** HCU - NAP CASE TO UPPER 4203 * 4204	376 141 336 173 376 173 320 346 137	200		GE.	НЭЭ	
376 141 4205 40 CPI 'a' LESS THAN 4205 HCU CPI 'a' LESS THAN 320 4208 RCP 'z'+1 CPI '2'+1 CPI '2	376 141 330 173 376 173 320 346 137	202	*	1	MAP CASE TO UPPER	i.k
376 141 4205 MCU CPI 'a' LESS THAN 330 4206 MC RC 340 6NC 346 137 4209 ANI 010111118 311 4210 RET 010111118	376 141 330 376 173 320 346 137	203	*		and a superior of a district interest and the superior of the	
320 4209 RNC 320 4209 ANI 346 137 4209 ANI 311 4210 RET	376 173 320 346 137 311	205	MCU	CP I RC	121	LESS THAN "A"
346 137 4210 ANI 311 4210 RET	346 137	207		CP I	[+,Z,	
	l	2009		ANI	010111118	
					The state of the s	

		4213	*	CONVERT	T HEX TO BINARY	
		4214	* *	ပ	NVERTS THE ASCI	I CHARACTER IN (A) INTO
		4216	* *	11.S 4	4BIT HEX EQUIVELANT	
	090	4218	CHC	SUI	.0.	
ł		4220		CP I	1+6	IF DONE
015.241 326	200	4222		SUI	7	
1		4224	*	INPUT HEX	HEX ADDRESS	
l		4226 4227	1HA	909		
1	-	4228	IHA.	PUSH	8 8•D	
1	000	4230		PUSH	T I	B = DELIMITER
1	262	4232	IHAI	CNC	0 H	CHECK FOR HEY
1	016	4234		18 C	C, IHA3	IF NOT, CHECK DELIMITER
1	234 015	4236		CALL	CHC	CONVERT IT
015.272 051		4238 4239	the same of the sa	040	rz	
1		4240		DAO	I J	HL = HL + 16
1	352	4242		¥9.	L, A IHA1	MOVE IN NEW NIBBLE
i		4244	I HA3	G#D	20	
1	010	4246		35 E	ZyIHA4	IF VALID DELIMITER
015,306 315	302 003	4248		CALL	HCC A	
1	337	4250		*	IHAI	
Antonio de la companya del la companya de la compan	Afficial particular and the second se	4252 4253	*	ENO OF	O OF INPUT	
J	302 003	4254	I HA 4	CALL	MCC	PRINT DELINITER
015,320 341 015,321 162	_	4256		PoP NOV	Н М,0	
		4258 4259		DCX	Н Я •Е	
	-	4260		POP	8	
		4262	*	IROC R	OC REPLACEMENT	
		4264 4265	IROCH	CALL	RCC	
015,331 376	015	4266		CPI	A.CR	10 17 4 70 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0