## SECTION V

OS 7 ABSOLUTE LISTINGS

	tit.		

## APPENDIX E . JUMP TABLE

PLAT SONGE 1641 1F44 PUTCEJP REFLECT VERTICAL REFLECT HURIZONTAL ROTATE 98 EMLARGE 154 1F68 1F78 CUNTROLLER SCAN 1F74 1F79 DECODER CAME OPT LOAD ASCII IFTC 1575 FILL VEAM IFEZ 1783 UP DATE SP IMER INIT\_TAMEP IFEB CET WRAND PUT VEAMO INIT SPE ORDERP ME SPE ME TOUR 1F8E 1594 1597 INIT TIME P 1F94 REQUEST SIGNALP IFAG IFAJ WHITE REGISTERP WRITE USAMP 154 IFAP MEAD VEAMP IFAC INIT WRITERP
SOUND INITP
PLAY ITP
INIT TAME
GET\_URAM
PUT WRAM
PUT WRAM
INIT SPR\_DREER
ME\_SPR\_MN\_TOL
INIT\_TIMER
FREE\_SIGNAL
REQUEST\_SIGNAL
TEST RIGNAL 1FB2 IFBB IFBB IFDE IFCI IFC4 IFCA IFCA REGUEST\_SIGMAL
TEST\_SIGMAL
TIRE\_RGE
TURN OFF\_SOUND
WRITE\_REGISTER
WRITE\_WAM
READ\_WEAM
INIT\_WRITER
WRITER
WRITER
WRITER IFBO IFD3 1FB6 1 FBC IFES IFER POLLER SOUMD INIT PLAY\_IT SOUMD MAN ACTIVATE IFEE 1FF4 PUTORI 1FFA RAND\_GEN IFFD

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1	*	1	APPENDIX I	,	
2		c	S SYMBOLS	5	
3	İ				
	ACTIVATE	EQU	01FF7H	:	0S:DS
4	ACTIVATEP ADD816	924 - 124 E-2010	01F64H 001B1H	•	05:05 05:05
5	AMERICA ASCII_TABLE	EQU	00069H		05:05
6	ATN SWEEP	EOU	0012FH	j i	05:05 05:05
7	ATN_SWEEP CARTRIDGE CONTROLLER_MAP CTRL_PORT_PTR DATA_PORT_PTR	EQU	08000H	į	05:05
	CTRL_PORT_PTR	EQU	01D43H	3	OS: OS
8	DELLAN	EQU	01D47H 00198H	1	05:05
9	DECMSN	EQU	0019BH	í	0S:0S
10	DEFER_WRITES	EGU	01F79H 073C6H	ş 1	DS: DS DS: DS
11		EQU	002EEH 01F73H	3	05:05 05:05
Messee.	ENLRG	EQU	0176CH	j.	05:05
12	FILL_URAM FREE_SIGNAL	EQU	01F82H	}	0S:0S 0S:0S
13	FREE_SIGNALP	EQU	01F9DH	;	05:05
14	FREQ_SWEEP Game_Name	EON	000FCH 08024H	;	0S: OS 0S: OS
15	GAME_OPT	EQU	01F7CH	į	05:05
	GET_URAMP	EQU	01FBBH 01FBEH	ì	05:05 05:05
16	INIT_SPR_ORDER INIT_SPR_ORDERP	EQU	01FC1H	į.	05:05 05:05
17	INIT TABLE	EQU	01FB8H	į	0S:0S
18	INIT_TABLEP - INIT_TIMER	EQU	01F8BH 01FC7H	j	0S:0S 0S:0S
19	INIT_TIMERP INIT_WRITER		01F9AH 01FE5H	į	0S: DS
	INIT_WRITERP	EQU	01FAFH	ì	05:05 05:05
20	IRQ_INT_VECT LEAVE_EFFECT		0801EH 001D5H	3	05:05 05:05
21	LOAD_ASCII	EQU	01F7FH	3	05:05
22	LOCAL_SPR_TBL Mode_1	EQU		3	05:05 05:05
23	HSNTÖLSN Mux_sprites	55는 보이는 보장 없었다.	001A6H 073C7H	}	05:05 05:05
24	NMI_INT_VECT	EQU	08021H	ì	05:05
	NUMBER_TABLE PLAY_IT		0006CH 01FF1H	1	05:05 05:05
25	PLAY_ITP	EQU	01FB5H	į	05:05
26	PLAY_SONGS	FAN	01F61H	ĭ	0S : DS

	1					
1	POLLER	FOI	01FEBH	797	06:.00	
20	PUTOBJ		DIFFAH	3	05:05	
2	PUTOBJP		01F67H	,	. DS:DS	
	PUT_URAM	EQU	DIFBEH	,	05:05 05:05	
3	PUT_VRAMP	EQU	01F91H		05:05	
	RAND_GEN	EQU	01FFDH	;	OS: OS	
4	RAND_NUM	EQU	073CBH	;	OS: OS	
5	READ REGISTER	FOU	DIEDCH		05:05	
3	READ URAM	FOIL	DIEFOL	5	05:05	
6	READ_VRAMP	EQU	DIFACH	í	05:05	
U	REFLECT_HORIZON	EQU	01F6DH	í	05:05	
7	REFLECT VERTICA	EQU	DIFAAH		05:05	
•	REQUEST_SIGNAL	EQU	01FCDH	í	05:05	
8	REQUEST_SIGNALP	EQU	01FAOH	3.	05:05	
•	ROTATE_90	EQU	01F70H	ì	0S: DS	
9	KST_10H_RAM	EQU	0800FH	3	OS: OS	
-	KST_18H_RAM	ESA	08012H	3	0S: DS	
10	KST_20H_RAM	EQU	08015H	3	OS: OS	
	RST_10H_RAM RST_18H_RAM RST_20H_RAM RST_28H_RAM	EBO	08012H 08015H 08018H	j	0S : OS	
11		FUU	0801BH	3	05:05	
**	RST_BH_RAM SOUND_INIT	EQU	0800CH 01FEEH	3	0S : DS	
12	SOUND THIT	EQU	OIFEEH	3	OS : OS	
**	SOUND_INITP	EQU	01FB2H	j	05 : OS	
13	SOUND_MAN SPRITE_ORDER	FUU	DIFF4H	j	05:05	
	STACK	EQU	08004H	j	0S:0S	
14	STACK START_GAME		07389H	}	05:05	
i	TEST_SIGNAL	EOU	HADDED	\$	DS : 0S	
15	TEST_SIGNALP	EOU	DIFDUR	}	05:05	
	TIME MCP	EOU	015074	3	0S: DS	
16	TIME_MGR TURN_OFF_SOUND	FOIL	DIFDAN	3	05:05 05:05	
fi	UP DATE_SPINNER	FRII	DIFERM		05:05	
17	VDP_HODE_HORD	EQU	073C3H	•	05:05 05:05	
	VDP_STATUS_BYTE	EQU	073C5H	ί.	05:05	
18	WORK BUFFER	FOIL	MADDAD	1	05:05	
	WRITER	EQU	01FEBH	(	05:05	
19	WKITE_REGISTER	EQU	01FD9H		05:05	
	WRITE_REGISTERP	EQU	DIFACH	í	05:05	
20	WRITE_URAM	EQU	01FDFH	í	05:05	
2, 1	WRITE_URAMP		01FA9H	í	05:05	
21	WR_SPR_NM_TBL		01FC4H	í	05:05	
22			01F97H	í	05:05	
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23	5.		當			

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	1	12		
1	GLB ACTIVATE GLB ACTIVATE GLB ADD816 GLB AMERICA GLB AMERICA GLB ASCII_TABLE GLB ATN_SWEEP GLB CARTRIDGE GLB CONTR_PORT_PTR GLB DATA_PORT_PTR GLB DECLSN GLB DECLSN GLB DECMSN GLB DECODER GLB DECODER GLB EFXOVER GLB EFXOVER GLB ENLARG GLB ENLARG GLB FREE_SIGNALP GLB INIT_SPR_ORDER GLB GAME_OPT GLB GAME_OPT GLB GAME_OPT GLB INIT_TABLE GLB INIT_TABLE GLB INIT_TABLE GLB INIT_THERP GLB INIT_THERP GLB INIT_THERP GLB INIT_WRITER GLB INIT_WRITER GLB INIT_WRITER GLB INIT_WRITERP GLB INIT_WRITERP GLB INIT_WRITERP GLB INIT_WRITERP GLB INIT_WECT GLB LOAD_ASCII GLB LOCAL_SPR_TBL GLB HSNTOLSN GLB MODE_1	,	00.00	
	GLB ACTIVATEP	1	05:05	<b>c</b>
2	GLB ADD816	í	05:05	
5	GLB AMERICA	3	05:05	
,	GLB ASCII_TABLE	3	05:05	
4	GLE AIN_SWEEP	3	05:05	
-	CLE CONTROLLED MAR	3	05:05	
5	GLB CONTROLLER THAT	•	05:05	
o Le	GLB DATA PORT PTR		34T	
6	GLB DECLSN	- ;	05:05	
_	GLB DECMSH	,	0S : DS	
7	GLB DECODER	3	05:05	
8	GLB DEFER_WRITES	3	05:05	
•	GLB EFXUVER	,	08:08	
9	CL B ENLARGE	3	05:05	
•	GLE ENLIG	•	05:05	
10	GLB FREE SIGNAL	,	05:05	
	GLB FREE SIGNALP	1120 1120	05:05	
11	GLB FREQ_SWEEP	ĵ	05:05	
	GLB GAME_NAME	3	05:05	
12	GLB GAME_OPT	3	05:05	
1	GLB GET_VRAM	3	05:05	
13	GLB GET_VRAMP	į	05:05	
14	CLB INIT SPR ORDER	, }	05:05	
13	GLE INTT TABLE	į	05:05	
15	GLB INIT TABLEP	i	05:05	
	GLB INIT_TIMER	į	05:05	
16	GLB INIT_TIMERP	J	0S: DS	
	GLB INIT_WRITER	3	05:05	
17	GLB INIT_WRITERP	3	05:05	
	GLB IRQ INT VECT	3	05:05	
18	CLB LENVE_EFFECT	,	05:05	
19	GLB LOCAL SPR TBL	,	05:05	•
,,	GLB MSNTOLSN	1	05:05	
20	GLB MODE_1	ŝ	0S : DS	
	GLB MUX_SPRITES	3	OS: 0S	
21	GLB NHI_INT_VECT	3	0S: <b>0S</b>	
	GLB NUMBER_TABLE	3	os: os	
22	GLB PLAY_IT	3	05:05	
1	GLB PLAY_ITP		05:05	
23	GLB PLAY_SONGS GLB POLLER	,	0S: 0S 0S: 0S	
24	GLB PUTOBJ	3	05:05	
	CLB PUTOBJP	,	05:05	
25		15	50 000 N. 50 05 V	

1				
2	GLB PUT_VRAMP GLB PUT_VRAMP GLB RAND_GEN GLB RAND_NUM GLB READ_VRAMP GLB READ_VRAMP GLB READ_URAMP GLB REFLECT_VERTICA GLB REQUEST_SIGNALP GLB REQUEST_SIGNALP GLB ROTATE_90 GLB ROTATE_90 GLB RST_10H_RAM GLB RST_10H_RAM GLB RST_20H_RAM GLB RST_30H_RAM GLB RST_SIGNALP GLB SOUND_INIT GLB	3	05:05	e.
5	GLB RAND_GEN	;	05:05	
4	GLB READ_REGISTER	1	05:05 05:05	
3,25	GLB READ_URAM	3	05:05	
5	GLB REFLECT HORIZON	,	05:05	
6	GLB REFLECT_VERTICA	- ;	05:05	
_	GLB REQUEST_SIGNAL GLB REQUEST_SIGNAL	š	05:05	
7	GLB ROTATE_90	3	05:05	
8	GLB RST_10H_RAM	3	05:05	
i	GLB RST THE PAM	3	05:05	
9	GLB RST 28H RAM	,	02:02	
	GLB RST_30H_RAM	i	05:05	
10	GLB RST_BH_RAM	1	0S: 0S	
11	GLB SOUND_INIT	3	05:05	
ı	CL B COUND HAN	3	OS: OS	
12	GLB SPRITE ORDER	•	05:05	
	GLB STACK	1	05:05	
13	GLB START_GAME	į	05:05	
14	GLB TEST_SIGNAL	;	05:05	
- 1	GLB TEST_SIGNALP	3	05:05	
15	CLE TIEN DE COUNT	į.	05:05	
1	GLB UPDATE SPINNER	,	05:05	
16	GLB VDP_HODE_WORD	i	05:05	
17	GLB VDP_STATUS_BYTE	;	05:05	
., !	GLB WORK_BUFFER	3	05:05	
18	CLB WRITER	3	05 : <b>05</b>	
	GLB WRITE_REGISTERP	1	05:05 05:05	
19	GLB WRITE_URAM	;	05:05	
~~	CCB, MKT (F AKAUL	i	05:05	
20	GLB WR_SPR_NM_TBL	j	05:05	
21	GLB WR_SPR_NM_TBLP	,	0S: DS	
22				

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MEMLETI-PACKARD: 05 7PRIME (c) Coleco 1982 Confidential
FILE: 05 TPRIME: pos
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This listing has the actual addresses of the start of 05 routines
                                                                                                                                                                                                                                                                                                                                                                                                                        Coleco Industries Inc.
Advanced Research & Development - Software Engineering
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Starting date: A long long time ago in a galaxy far far away . . .
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Prom release Date: 24 Nov 1982. for internal use only
Prom release Rev: 78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Colecovision Operating System
Absolute Listing ( Rev 7PRIME )
(c) Coleco Industries 1982
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Prom release Rev: 7PRIME
                                                                                                                                                                                                                                                            5 DESCRIPTION MACRO
6 .GOID ENDESCRIPTION
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                                                                                                                                                      NAME "OS TPRIME"
SOURCE LINE
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                                                                                                                                                                                                                                                                                                                                                                                                               8 Author: 9 10 Userid: 11 Starting 12 12 Prom rel 14 Prom rel 15 Prom rel 16 Prom rel 17 Prom rel 18 P
LOCATION OBJECT CODE LINE
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Filler locations changed to OFFH to reflect OS 7PRIME. Prom release date changed to December 28, 1982 from May 1982. Name change to OS 7PRIME to reflect majority of versions in the field at this date.

Timing change to shorten LOGO delay Title changes to JMPTABLES and OSSR\_EQU Minor comment modifications 05 7 as one absolute file 05 7 listing by module 6oct 1982 23sept 1982 May 1982 24nov1982

50 ENDESCRIPTION: 51 MEND 52 PROG

: ILE: 05 TPRIME: pOS

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67 OFF EQU OFH ;OFF [NO SOUND]
68 ; Sound output port
69 SOUND PORT EQU OFFH ;data to sound chip thru this port
70 ; Special byte 0 codes
71 IMACTIVE EQU OFFH
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 channel numbers, 87 -86
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MEXTNOTEPTR EQU 1
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73 ENDSDATA EQU 0
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95 CHIREP
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90 CHOEM
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HEWLETT-PACKARD: OPERATING SYSTEM (C) Coleco, 1982		Modified February 14, 1983. Filler areas were changed to OFFH to reflect OS 7PRINE. Also minor comment changes were made to clarify 055AAH for test cartridge condition.	Postorioriorioriorioriorioriorio EXTERNAL SYMBOLS Areannosianterioriorioriorioriorioriorioriorioriorior	INTO OS	<b>=</b> 6	<u> </u>	300	Eq.	DO .		PIMMER		9		GS.	000	<u>a</u>	IAI.	AAL	Ro	SIGNALO	INLQ	¥.		ORDER TBL	Eo =		OKDERQ _TBLQ		
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HEWLETT-PACKARD	SOURCE LINE		*****	* EXTERNAL ROUTINES LINKED INTO OS													22.				••••	•	•••	•••		T. T	. 7.		7, 7,	. **.
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SOURCE LINE

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TILE: 05 TPRIME: pOS

; PASCAL CALLS ;DISPLAYS THE GAME OPTION SCREEN ;LOADS ASCIT CHARACTER GENERATORS ;FILLS DESIGNATED AREA OF VRAN WITH VALUE ;SETS UP A DEFAULT GRAPHICS MODE 1	T   -	; TABLE MA ; PASCAL CALLS	; VIDEO DRIVERS	; CONTROLLER ROUTINES ; SOUND ROUTINES ; PASCAL CALLS
T RFLCT HOR T ROT 90 T ENLRG T PUTOBJO T ACTIVATEQ T GAME OPT T LOAD ASCTI T FILL WRAM T MODE 1	;EXT DISPLAY LOGO ;EXT CONTROLLER INIT ;EXT ASCIT TBL ;EXT MUNBER_TBL	OS ROUTINES B INIT TABLE B GET VRAM B INIT SPR ORDER B INIT TABLE B LIN TABLE B GET VRAMP B PUT VRAMP B INIT SPR ORDERP B INIT SPR ORDERP	BLRITE REGISTER BREAD REGISTER BREAD VRAH BINIT WRITER BURITE REGISTERP BLRITE REGISTERP BLRITE VRAHP BREAD VRAHP BREAD VRAHP	B POLLER B UPDATE SPINNER B CONTROLLER_SCAN B DECODER B SOUND INIT B TURN ÖFF SOUND B PLAY IT B SOUND MAN B PLAY SONGS B SOUND INITP
165 ; EXT 165 ; EXT 166 ; EXT 167 ; EXT 170 ; EXT 171 ; EXT 173 ; EXT 174 ; EXT 175 ; EXT 177 ;		185 * ENTRY POINTS TO OS ROUTINES 186 * ENTRY POINTS TO OS ROUTINES 189	1999 GE B B 200 GE B	210 GLB 212 GLB 213 GLB 214 GLB 215 GLB 216 GLB 217 GLB 218 GLB 219 GLB 219 GLB 219 GLB 219 GLB

Fri, 18 May 1984, 16:18

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HEULETT - PACKARD:	SOURCE LINE
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GLB PLAY_ITP	GLB INIT TIMER			GLB TEST SIGNAL	GLB TINE MGR	GLB INIT TIMERP	GLB FREE SIGNALP									GLB DEFER WRITES			CI B Delfora I	SE ACTIVATE
221	223	525	522	526	227	228	523	230	231	232	233	234	235	236	237	238	539	240	241	242

; PASCAL CALLS

REFLECT VERTICAL
REFLECT MORIZONTAL
ROTATE 70
EMLARGE
PUTOBJP
ACTIVATEP GLB PUTOBJ GLB ACTIVATI GLB REFLECT GLB REFLECT GLB ROTATE GLB PUTOBJP GLB ACTIVATI

333333 

GAME OPTIONS DISPLAY
LOADS ASCII CHARACTER GENERATORS
FILLS DESIGNATED AREA OF VRAN WITH VALUE
SETS UP A DEFAULT GRAPHICS MODE 1
POINTER TO TABLE OF ASCII GENERATORS
POINTER TO TABLE OF OP PATTERN GENERATORS

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(ARD:	LINE
HEULETT - PACKARD	SOURCE LINE
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GLB CARTRIDGE EQU BOOCH SASUMES THAT A GANE SASUMES THAT A GANE SASUMES THAT A GANE SASUMES THAT A TEST CARTRIDGE IS PRUGGED SASUMES THAT A TEST CARTRIDGE IS PRESENT. SASUMES THAT A TEST CARTRIDGE IS THAT THE OBJECT ORIENTED SASUMES THAT A TEST CARTRIDGE IS THAT THE OBJECT ORIENTED SASUMES THAT A TEST CARTRIDGE IS SAME IN THAT IS WAINTAINED BY SASUMES THAT A POINTER TO THE CONTROLLER MAP SASUMES THAT AND THAT IS MAINTAINED BY SASUMES THAT CARTRIDGE ROAD THAT IS MAINTAINED BY SASUMES THAT CARTRIDGE ROAD OF VECTORS SHICH MUST BE PLACED SASUMES THAT CARTRIDGE ROAD OF VECTORS SHICH MUST BE PLACED SASUMES THE CARTRIDGE ROAD OF VECTORS THAT THE APPROPRIATE SASUMES THE CARTRIDGE ROAD OF VECTORS THE CARTRIDGE ROAD OF SASUMES SASUMES THE CARTRIDGE ROAD OF SASUMES SASUMES THE CARTRIDGE ROAD OF VECTORS THE CARTRIDGE ROAD OF SASUMES SASUMES THAT SASUMES THE CARTRIDGE ROAD OF SASUMES	CARTRIDGE EQUED BOOKED  SOUTH STEED THE REMORY LOCATION TESTED TO SEE IF A CARTRIDGE IS PLUGGED  SA * INIS IS THE REMORY LOCATION TESTED TO SEE IF A CARTRIDGE IS PLUGGED  A * CARTRIDGE IS PRESENT. IF IT COMIANS THE PATTERN ASSUMES THAT A GAME  CARTRIDGE IS PRESENT. IF IT COMIANS THE THE PATTERN SASUMES THAT A GAME  CARTRIDGE IS PRESENT. IF IT COMIANS THE THE PATTERN SASUMES THAT A GAME  CARTRIDGE IS PRESENT. IF IT COMIANS THE THE PATTERN SASUMES THAT A GAME  CARTRIDGE IS PRESENT. IF IT COMIAND THE THE PATTERN SAME. THE OS SPRITE  A ASSUMES THAT A TEST CARRIDGE IS PRESENT.  CARTRIDGE IS PRESENT. IF IT COMIAND THE COPY OF THE SPRITE NAME THAT IS COPY OF THE SPRITE NAME THAT OS SPRITE  A ADDRESSING THE VRAM TABLE. FOR EXAMPLE WHEN USING THE OS SPRITE  A ADDRESSING THE VRAM TABLE. FOR EXAMPLE WHEN USING THE OS SPRITE  A SERIE CORP IS USED WHENEVER ONE EXAMPLE WHEN USING THE OS SPRITE  A SERIE CORP IS USED WHENEVER ONE SPRITE ORDER  A THIS IS A POINTER TO THE CONTROLLER MAP THAT IS MAINTAINED BY  CARROLLER MAP EQUED  BOOKH  CARD THIS IS A POINTER TO THE CONTROLLER MAP THAT IS MAINTAINED BY  THE HIGH-LEVEL COMIROLLER SCANNING AND DEBOUNCE SOFTUARE.  CARD THE SITE THE CARRIDGE PROGRAMMER. WHEN AN INTERRUPT VECTORS WHICH MUST BE PLACED  THIS IS A POINTER TO THE START OF THE GAME.  THE SI A POINTER TO THE COMIROLLER SCHOOL SOFTUARE.  THE HIGH-LEVEL COMIROLLER SCANNING AND DEBOUNCE SOFTUARE.  THE HIGH-LEVEL COMIROLLER SCANNING WHEN AN INTERRUPT NAME SOFTUARE.  THE HIGH-LEVEL COMIROLLER SOFT VECTORS.  THE RE BY THE CARRIDGE PROGRAMMER. WHEN AN INTERRUPT HANDLER BY THE SOFT WENCH SOUTH.  THE START EQUED SOUTH SOFT VEC
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HEWLETT-PACKARD: OPERATING SYSTEM (c) Coleco, 1982	J
IT-PACKARD: OPERATING SYSTEM (C)	1982
II - PACKARD: OPERATING	Coleco,
II - PACKARD: OPERATING	(3)
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Ξ	OPERAT
HEWLET	I - PACKARD:
	HEWLET

SOURCE LINE

LOCATION OBJECT CODE LINE

FILE: 05 TPRIME: pOS

335 \*\* FRON HERE TO START GAME THERE SHOULD BE A STRING OF ASCII CHARACTERS
335 \*\* MANES THAT HAS THE FOLLOWING FORM:
336 \*\* MANE\_OF\_THIS\_GAME/MAKER\_OF\_THIS\_GAME/COPYMRITE\_YEAR.
337 \*\* MANE\_OF\_THIS\_GAME/MAKER\_OF\_THIS\_GAME/COPYMRITE\_YEAR.
338 \*\* MOONEY KONG/NINTENDO/1982"
340 \*\* "DOWKEY KONG/NINTENDO/1982"
341 \*\* "DOWKEY KONG/NINTENDO/1982"
342 \*\* "MOONEANT NOTE \*\*\*\* IT IS THE RESPONSIBILITY OF THE \*\*\*\*
344 \*\*\*\* CARTRIDGE PROGRAMMER TO PLACE \*\*\*\*
345 \*\* \*\*\*\* THESE CODES IN CARTRIDGE ROM \*\*\*\*\*
346 \*\*\*\*\* THESE CODES IN CARTRIDGE ROM \*\*\*\*\*

Fri, 18 May 1984, 16:18

SOURCE LINE LOCATION OBJECT CODE LINE FILE: 0S\_7PRIME:pOS

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	357	357 желетететететететететететететете пред раска раска в при	:
	358 *	* PAGE ZERO CONTAINS THE RESTART VECTORS INTERRIBIT VECTORS AND	
	359	" THE INTERRUPT VECTORING SOFTWARE AS WELL AS THE DEFAULT MANDEDS	
	360	* FOR INTERRUPIS AND RESTARTS.	
	361		
	362	362 * BOOT-UP ROUTINE	
	363		
	364	* THE BOOT-UP ROUTINE HANDLES POWER ON DESETS AND DESTABLE TO D. 11	
	365	* INITIALIZES THE STACK AND JUMPS TO THE POLICE UP BOTTINE	
	366		
	367	367 * BEGIN BOOT-UP	
	368	368 BOOT UP PROG	
	369		
	370	* KICK STACK	
0000 317389	371	LD SP STACK	
	372		
	373	* JUMP TO POWER UP	
טטטן בנטטענ	77		
9000	376	LEAN BOOTIES	
	311	377 * END BOOT - UP	

SOURCE LINE LOCATION OBJECT CODE LINE FILE: 0S\_TPRIME:pos

FOR EACH OF THE ARTRIDGE ROM.  E ADDRESS OF THE HE RESTART IS IT RESTART IS ILL BE CALLED.	; Filler	;Filler	;Filler	; Filler	; Filler	Filler
379 380 * RESTART VECTORS 381 382 * THE FOLLOWING ARE THE 8 PROGRAMMABLE RESTARTS. FOR EACH OF THE 383 * RESTART LOCATIONS BELOW THERE IS A VECTOR IN CARTRIDGE ROM. 384 * TO USE A RESTART, THE PROGRAMMER MUST PLACE THE ADDRESS OF THE 385 * ROUTINE WHICH HE/SHE WISHES TO ACCESS THROUGH THE RESTART AT THE 386 * CORRSEPONDING VECTOR. THEREAFTER EVERY TIME THAT RESTART IS 387 * EXECUTED, THE CARTRIDGE PROGRAMMER'S ROUTINE WILL BE CALLED.	FF, FF	н,н,н,н	11,11,11,11	FF, FF, FF, FF	H,H,H,H,H	11,11,11,11
CTORS ING ARE THE B PROGI ATTONS BELOW THERE ESTART, THE PROGRAM ICH HE/SHE WISHES I MG VECTOR, THEREAI HE CARTRIDGE PROGR	HEX JP RST_BH_RAM	HEX JP RST_10H_RAM	HEX JP RST_18H_RAN	HEX JP RST_20H_RAM	HEX JP RST 28H RAM	HEX JP RST_30H_RAM
379 380 * RESTART VECTORS 381 382 * THE FOLLOWING AR 383 * RESTART LOCATION 384 * ROUTINE WHICH HE 386 * CORRESPONDING VE 387 * EXECUTED, THE CA	RS	392 393 RST 10H 394	395 396 RST_18H 397	396 399 RST_20H 400	401 402 RST_28H	404 405 RST_30H 406
	0006 FFFF 0008 C3800C	0008 FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	0013 FFFFFFFFF 0018 C38012	FFFFFFFF C38015	FFFFFFFF C38018	FFFFFFFF C3801B
39. ·	9000	800	200 200 200	0018 0020	0023	0028

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Fri, 18 May 1984, 16:18
                                                                                                                                                                                                                                                                                                                                                                   411 * A MASKABLE INTERRUPT OCCURRING IN THE SYSTEM IS EQUIVALENT TO A 412 * RESTART TO 38H. THUS, THE MASKABLE INTERRUPT IS VECTORED IN EXACTLY 413 * THE SAME LAY AS THE VARIOUS RESTARTS GIVEN ABOVE. IN ORDER TO USE 414 * THE INTERRUPT, THE CARTRIDGE MUST PLACE THE ADDRESS OF HIS/HER 415 * INTERRUPT HANDLER IN THE IRQ INT VECT LOCATION IN CARTRIDGE ROM. 416 * INE CARTRIDGE PROCRAMMER IS RESPONSIBLE FOR SAVING ANY REGISTERS 417 * INE CARTRIDGE PROCRAMMER IS RESPONSIBLE FOR SAVING ANY REGISTERS 418 * HIS/HER OWN INTERRUPT HANDLERS MAY USE, AND FOR RE-ENABLING 419 * INTERRUPTS IF HE/SHE NEEDS THEM TO BE RE-ENABLED.
            CONFIDENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                  428 * (PLACED HERE FOR PURPOSES OF CODE COMPACTION)
429
430 * Random number generator (psuedo) for a 16 bit value
431 * This routine 'exclusive or's the 15th and 8th bit
432 * together. It then rotates the entire quantity to the
433 * Left and inserts the 'exclusive or'ed bit into the rightmost
434 * bit. Upon leaving it stores the random # in a specified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The random number can be accessed from the global location
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 00 reset
01 fall through to set
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 For 10 quantity then set
 HEWLETT-PACKARD: OPERATING SYSTEM (c) Coleco, 1982
                                                                                                                                                                                                                                                                                                          FF, FF, FF, FF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15th bit is on
                                                                                                                                                                                                                                                                                                                                           (IRG INT VECT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     436
437 * The random number can be accessed from the
438 * RAND_NUM or the HL pair or the Accumulator.
439
                                                                                  409 * MASKABLE INTERRUPT VECTORING SOFTWARE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  . For
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HL, [RAND MUM]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   [RAND NUM], HE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CARRY READY
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                                                                                                                                                                                                                                                                                  421 * MASKABLE INTERRUPT
422 HEX
423 IRQ_INTERRUPT
424 JP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Z, SET
RESET
                                      SOURCE LINE
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456
457 CARRY READY:
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TILE: 05 TPRIME: pOS
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Fri, 18 May 1964, 16:18

SOURCE LINE LOCATION OBJECT CODE LINE

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SYSTEM (c) Coleco,
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HEWLETT-PACKARD: OPERATING
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CONFIDENTIAL Fri, 18 May 1984, 16:18			SYSTEM, 1T	KKEPT THAT	SSOR STATE	READING THE	To I los	Filler	Filler		
NEWLETT-PACKARD: OPERATING SYSTEM (c) Coleco, 1982 CON		468 * THE NMI VECTORING SOFTWARE AND DEFAULT HANDLER	AISED BY THE VDP IN THE COLECOVISION ORESTART TO 66H. THE VELTORING SOFTU	473 * MMI IS IDENTICAL TO THAT FOR THE MASKABLE INTERRUPT EXCEPT THAT 474 * IT GETS ITS VECTOR FROM MMI INT VECT INSTEAD OF IRQ INT VECT.	AGAIN THE CARTRIDGE PROGRAMMER IS RESPONSIBLE, IN HIS/HER OWN INTERRUPT MAMDLERS FOR SAVING AND RESTORING THE PROCESSOR STATE	478 * WHEN MECESSARY, AND FOR CLEARING THE VOP CONDITION BY READING THE 479 * VDP STATUS REGISTER.		FF, FF, FF, FF	FF, FF, FF		(MILINT_VECT)
	DE LINE SOURCE LINE	468 469 * THE NMI VECTORING	471 * WHEN AN NMI IS RA 472 * CAUSES THE CPU TO	474 * IT GETS ITS VECTO	475 * AGAIN THE CARTRID 477 * INTERRUPT MANDLER	478 " WHEN NECESSARY, A 479 " VDP STATUS REGIST		482		484 * NON-MASKABLE INTE	486 - JP
FILE: OS TPRIME: pOS	LOCATION OBJECT CODE LINE						0059 FFFFFFFF	OOSE FIFFFFFFFF	0063 FFFFF	9900	0066 C38021