

```

LOCATION OBJECT CODE LINE SOURCE LINE
1E45 D9 6973 EXX
1E46 D1 6974 POP
1E47 2A8006 6975 LD
1E4A 010008 6976 LD
1E4D 09 6977 ADD
1E4E FD210004 6978 LD
1E52 CD1C27 6979 CALL
6980 PUT_VRAM_
6981 * END_IF
6982 END_IF_4_GRAPHICS
6983
6984 * DESTINATION := DESTINATION + 4
6985 EXX
1E55 D9 6986 HL
1E56 23 6987 HL
1E57 23 6988 HL
1E58 23 6989 HL
1E59 23 6990 HL
1E5A C3108C 6991 * END RETURN_HERE
6992 JP
6993
6994
6995
6996
1E50 6997 COLOR_TEST
6998
6999
7000
7001
7002
7003
7004
7005
7006
7007
7008
7009
7010 * BEGIN COLOR_TEST
7011
7012 * CHECK TABLE CODE IN A'
7013 EX
7014 PUSH
7015 EX
7016 POP
7017 CP
7018 JR
7019
7020 * CHECK MODE
7021 LD
7022 BIT
7023 JR
7024
7025 * EXIT HERE IF TRUE
7026 LD
7027 RET
7028
7029 * EXIT HERE IF FALSE
; TESTS WHETHER PATTERN GENERATORS ARE
; BEING MANIPULATED AND WHETHER THE
; GRAPHICS MODE IS 2. IF SO THE ABOVE
; ROUTINES NEED TO DEAL WITH THE COLOR
; GENERATORS THAT CORRESPOND TO THE
; PATTERN GENERATORS THEY ARE OPERATING
; ON.
; NOT INPUTS, RETURNS WITH TRUE (1) IN
; A IF CONDITION IS TRUE, FALSE (0) IF
; NOT.
AF,AF'
AF
AF,AF'
AF
PATTERN_GEN
NZ,EXIT_FALSE
HL,VDP_MODE_WORD
1,IHLJ
2,EXIT_FALSE
A,TRUE

```

CATION OBJECT CODE LINE SOURCE LINE

```

1E6F 3E00 LD A, FALSE
1E71 C9 RET

1E72 ; PUTS THE CONTENTS OF WORK_BUFFER[B..15]
; IN VRAM AT THE GIVEN DESTINATION.
AF, AF'
AF
AF, AF'
AF
HL
DE
HL, [WORK_BUFFER]
BC, B
HL, BC
LY, 1
PUT_VRAM_

1E72 08 EX
1E73 F5 PUSH
1E74 08 EX
1E75 F1 POP
1E76 D9 EXX
1E77 E5 PUSH
1E78 D9 EXX
1E79 D1 POP
1E7A 2A8006 LD
1E7B 010008 LD
1E80 09 ADD
1E81 FD210001 LD
1E85 CD1C27 CALL
1E88 C9 RET

1E89 ; GETS THE COLOR INFORMATION FROM
; THE APPROPRIATE PLACE IN VRAM
A, COLOR_TABLE
DE
DE
HL, [WORK_BUFFER]
LY, 1
GET_VRAM_

1E89 3E04 LD
1E8B D9 EXX
1E8C D5 PUSH
1E8D D9 EXX
1E8E D1 POP
1E8F 2A8006 LD
1E92 FD210001 LD
1E96 CD1BA3 CALL
1E99 C9 RET

1E9A ; PUTS COLOR INFORMATION IN THE
; APPROPRIATE PLACE IN VRAM
A, COLOR_TABLE
HL
DE
HL, [WORK_BUFFER]
LY, 1
PUT_VRAM_

1E9A 3E04 LD
1E9C D9 EXX
1E9D E5 PUSH
1E9E D9 EXX
1E9F D1 POP
1EA0 2A8006 LD
1EA3 FD210001 LD
1EA7 CD1C27 CALL
1EA8 C9 RET

7030 EXIT_FALSE LD
7031 RET
7032
7033
7034
7035 PUT_TABLE
7036
7037
7038
7039 EX
7040 PUSH
7041 EX
7042 POP
7043 EXX
7044 PUSH
7045 EXX
7046 POP
7047 LD
7048 LD
7049 ADD
7050 LD
7051 CALL
7052 RET
7053
7054
7055 GET_COLOR
7056
7057
7058
7059 LD
7060 EXX
7061 PUSH
7062 EXX
7063 POP
7064 LD
7065 LD
7066 CALL
7067 RET
7068
7069
7070 PUT_COLOR
7071
7072
7073
7074 LD
7075 EXX
7076 PUSH
7077 EXX
7078 POP
7079 LD
7080 LD
7081 CALL
7082 RET
7083 PROG
    
```

LOCATION OBJECT CODE LINE SOURCE LINE

```

7085
7086 * THE ROUTINES IN THIS MODULE TAKE A SINGLE 8-BYTE BLOCK AS INPUT AND
7087 * PRODUCE 4 8-BYTE BLOCKS AS OUTPUT. THEY PERFORM A 2-TO-1 EXPANSION
7088 * AND A SIMPLE QUADRUPLE OPERATION RESPECTIVELY.
7089
7090
7091
7092
7093
7094 * NAMES OF ENTRY POINTS
7095
7096
7097
7098
7099 MAGNIFY
7100
7101
7102
7103
7104
7105
7106
7107 BYTE COUNT EQU BC
7108 SOURCE EQU IX
7109 DESTINATION EQU IY
7110 * STANDARD NAMES FOR REGISTERS IN THIS ROUTINE
7111
7112 * BEGIN
7113
7114
7115
7116
7117
7118 * BYTE_COUNT := 8
7119 LD BYTE_COUNT,8
7120
7121 * REPEAT
7122 MAG_LOOP
7123
7124 * EXPAND A BYTE FROM SOURCE
7125 LD A,[SOURCE+0]
7126 IMC SOURCE
7127 LD D,A
7128 LD E,4
7129 EXP_1
7130 RL H
7131 RL D
7132 RL H
7133 DEC E
7134 JR NZ,EXP_1
7135 LD L,E,4
7136 EXP_2
7137 RL L
7138 RL D
7139 RL L
7140 DEC E
7141 JR NZ,EXP_2
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```

LOCATION OBJECT CODE LINE SOURCE LINE

```

1ED4 FD7400          7142 *          WRITE IT TO DESTINATION
1ED7 FD7510          7143 *          LD          (DESTINATION+0),H
1EDA FD23           7144          LD          (DESTINATION+16),L
1EDC FD7400          7145          LD          (DESTINATION)
1EDF FD7510          7146          INC         (DESTINATION)
1EE2 FD23           7147          LD          (DESTINATION+0),H
1EE4 08             7148          LD          (DESTINATION+16),L
1EE5 79             7149          INC         (DESTINATION)
1EE6 80             7150          *          DECREMENT BYTE_COUNT
1EE7 20CB           7151          DEC         (DESTINATION)
1EE9 C9             7152          *          UNTIL BYTE_COUNT = 0
1EEA 010010         7153          LD          (DESTINATION)
1EEB E5             7154          OR          (DESTINATION)
1EEC E5             7155          JR          (DESTINATION)
1EED E5             7156          *          END
1EEF 23             7157          *          BEGIN
1EF0 12             7158          *          BYTE_COUNT := 16
1EF1 13             7159          LD          (DESTINATION+16)
1EF2 12             7160          *          SAVE SOURCE
1EF3 13             7161          *          REPEAT
1EF4 08             7162          *          GET A BYTE FROM SOURCE
1EF5 79             7163          LD          (DESTINATION)
1EF6 FE08           7164          INC         (DESTINATION)
1EF7 2001           7165          *          WRITE IT TWICE TO DESTINATION
1EFA F1             7166          LD          (DESTINATION)
1EFB F1             7167          INC         (DESTINATION)
1EFC F1             7168          *          DECREMENT BYTE_COUNT
1EFD F1             7169          DEC         (DESTINATION)
1EFE F1             7170          *          IF BYTE_COUNT = 8 THEN RESTORE SOURCE
1EFF F1             7171          LD          (DESTINATION)
1EF0 12             7172          *          RESTORE SOURCE
1EF1 13             7173          *          END
1EF2 12             7174          *          BEGIN
1EF3 13             7175          *          QUADRUPLING ON AN
1EF4 08             7176          *          8-BYTE BLOCK OF DATA.
1EF5 79             7177          *          SOURCE POINTER IN HL, DESTINATION
1EF6 FE08           7178          *          POINTER IN DE.
1EF7 2001           7179          *          DESTROYS AF,BC,DE,HL,IY
1EFA F1             7180          *          RET
1EFB F1             7181          *          QUADRUPLING ON AN
1EFC F1             7182          *          8-BYTE BLOCK OF DATA.
1EFD F1             7183          *          SOURCE POINTER IN HL, DESTINATION
1EFE F1             7184          *          POINTER IN DE.
1EFF F1             7185          *          DESTROYS AF,BC,DE,HL,IY
1EF0 12             7186          *          RET
1EF1 13             7187          *          QUADRUPLING ON AN
1EF2 12             7188          *          8-BYTE BLOCK OF DATA.
1EF3 13             7189          *          SOURCE POINTER IN HL, DESTINATION
1EF4 08             7190          *          POINTER IN DE.
1EF5 79             7191          *          DESTROYS AF,BC,DE,HL,IY
1EF6 FE08           7192          *          RET
1EF7 2001           7193          *          QUADRUPLING ON AN
1EFA F1             7194          *          8-BYTE BLOCK OF DATA.
1EFB F1             7195          *          SOURCE POINTER IN HL, DESTINATION
1EFC F1             7196          *          POINTER IN DE.
1EFD F1             7197          *          DESTROYS AF,BC,DE,HL,IY
1EFE F1             7198          *          RET

```

LOCATION OBJECT CODE LINE SOURCE LINE

```
1EFB          7199 SKIPZZ
              7200
              7201 * UNTIL BYTE_COUNT = 0
              7202          LD          A,C
              7203          OR          B
              7204          JR          NZ,QUAD_LOOP
              7205
              7206 * EMD
              7207          RET
              7208 PROG
```

CATION OBJECT CODE: LINE SOURCE LINE

```

7210
7211 * THE ROUTINES IN THIS FILE TAKE A SINGLE 8-BYTE BLOCK AS INPUT
7212 * AND OPERATE ON IT PRODUCING A SINGLE 8-BYTE BLOCK AS OUTPUT.
7213 * THEY PERFORM MIRRORING AROUND THE VERTICAL AXIS, MIRRORING
7214 * AROUND THE HORIZONTAL AXIS, AND 90 DEGREE ROTATION.
7215
7216 MIRROR_L_R
7217 ROTATE
7218 MIRROR_U_D
7219
7220
7221 MIRROR_L_R
7222 ; REFLECTS AN 8XB PIXEL DATA BLOCK
7223 ; AROUND THE VERTICAL AXIS.
7224
7225 ; SOURCE IN HL, DEST IN DE
7226 ; DESTROYS AF,BC,DE,HL
7227 ; SET BLOCK BYTE COUNT
7228 LD BC,B
7229 LD B,[HL]
7230 LD A,80H
7231 MIR_L_R20
7232 RL B
7233 RRA
7234 JR MC,MIR_L_R20
7235 LD [DE],A
7236 INC HL
7237 INC DE
7238 DEC C
7239 JR MZ,MIR_L_R10
7240 MIR_L_RX
7241 RET
7242
7243
7244
7245 ROTATE
7246 ; ROTATE OBJECT 90 DEGREES
7247 ; SOURCE IN HL DESTINATION IN DE.
7248 ; DESTROYS AF,BC,DE,HL
7249
7250 PUSH HL
7251 POP IX
7252 EX DE,HL
7253 LD BC,B
7254 TRANSP_10
7255 RL [IX+0]
7256 RR [HL]
7257 RL [IX+1]
7258 RR [HL]
7259 RL [IX+2]
7260 RR [HL]
7261 RL [IX+3]
7262 RR [HL]
7263 RL [IX+4]
7264 RR [HL]
7265 RL [IX+5]
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XCATION	OBJECT CODE	LINE	SOURCE LINE
		7324	***** ROM_JUMP_TABLE *****
		7325	;
		7326	JUMP_TABLE THIS IS THE JUMP TABLE TO BE USED IN ACCESSING CODE
		7327	RESIDING IN THE O.S. ROM. THIS TABLE MUST HAVE ITS
		7328	ORIGIN REDEFINED TO ACCOUNT FOR GROWTH. PILE NEW ROUTINES
		7329	AT THE BEGINNING OF THE TABLE MAKING SURE TO INCREMENT
		7330	THE NO_OF_ROUTINES VALUE.
		7331	*
		7332	* NOTE ****
		7333	*
		7334	***** NO DELETIONS SHOULD BE MADE FROM ****
		7335	***** THIS TABLE ****
		7336	*
		7337	ROM_END EQU 2000H
		7338	* THIS IS THE END OF OS ROM
		7339	*
		<2000>	
		<0035>	
		7340	NO OF ROUTINES EQU 53
		7341	* THIS NUMBER KEEPS COUNT OF THE NUMBER OF ROUTINES ACCESSED THROUGH
		7342	* THE JUMP TABLE.
		7343	*
		7344	JUMP_TABLE ORG ROM_END-(NO_OF_ROUTINES*3)
		7345	*
1F61	C30300	7346	PLAY_SONGS JP PLAY_SONGS
1F64	C30408	7347	ACTIVATEP JP ACTIVATED
1F67	C306C7	7348	PUTOBJ JP PUTOBJQ
1F6A	C3105A	7349	REFLECT_VERTICAL JP FLCT_VERT
1F6D	C31060	7350	REFLECT_HORIZONTAL JP FLCT_HOR
1F70	C31066	7351	ROTATE_90 JP ROT_90
1F73	C3106C	7352	ENLARGE JP ENLRG
1F76	C3114A	7353	CONTROLLER_SCAN JP COMT_SCAN
1F79	C31188	7354	DECODER JP DECODER
1F7C	C31979	7355	GAME_OPT JP GAME_OPT
1F7F	C31927	7356	LOAD_ASC11 JP LOAD_ASC11
1F82	C31804	7357	FILL_VRAM JP FILL_VRAM
1F85	C318E9	7358	MODE_1 JP MODE_1
1F88	C3116A	7359	UPDATE_SPINNER JP UPDATE_SPINNER
1F8E	C3180C	7360	INIT_TABLEP JP INIT_TABLEP
1F91	C31C10	7361	GET_VRAM JP GET_VRAMQ
1F94	C31C5A	7362	PUT_VRAM JP PUT_VRAMQ
1F97	C31C76	7363	INIT_SPR_ORDERP JP INIT_SPR_ORDERQ
1F9A	C30F9A	7364	WR_SPR_MM_TBLP JP WR_SPR_MM_TBLQ
1F9D	C30F88	7365	INIT_TIMERQ JP INIT_TIMERQ
1FA0	C31044	7366	FREE_SIGNALP JP FREE_SIGNALQ
1FA3	C3108F	7367	REQUEST_SIGNALP JP REQUEST_SIGNALQ
1FA6	C31C8C	7368	TEST_SIGNALP JP TEST_SIGNALQ
1FA9	C31CED	7369	WRITE_REGISTER JP REG_WRITEQ
1FAC	C31D2A	7370	WRITE_VRAM JP VRAM_WRITEQ
1F82	C30203	7371	READ_VRAM JP VRAM_READQ
1F85	C30251	7372	INIT_WRITERP JP INIT_QUEUEQ
1F88	C31810	7373	SOUND_INITP JP INIT_SOUNDQ
1F8B	C318A3	7374	PLAY_ITP JP JUKE_BOXQ
1F8E	C31C27	7375	INIT_TABLE JP INIT_TABLE
1F91	C31C66	7376	GET_VRAM JP GET_VRAM
1F94	C31C82	7377	PUT_VRAM JP PUT_VRAM
1F97	C31C82	7378	INIT_SPR_ORDER JP INIT_SPR_ORDER
1F9A	C30FAA	7379	WR_SPR_MM_TBL JP WR_SPR_MM_TBL
1F9D	C30FAA	7380	INIT_TIMER JP INIT_TIMER

LOCATION	OBJECT CODE	LINE	SOURCE	LINE
1FCA	C30FC4	7381	FREE SIGNAL	JP FREE SIGNAL
1FCD	C31053	7382	REQUEST_SIGNAL	JP REQUEST_SIGNAL
1FD0	C310CB	7383	TEST_SIGNAL	JP TEST_SIGNAL
1FD3	C30F37	7384	TIME_MGR	JP TIME_MGR
1FD6	C30238	7385	TURN_OFF_SOUND	JP ALL_OFF
1FD9	C31CCA	7386	WRITE_REGISTER	JP REG_WRITE
1FDC	C31057	7387	READ_REGISTER	JP REG_READ
1FDF	C31001	7388	WRITE_VRAM	JP VRAM_WRITE
1FE2	C3103E	7389	READ_VRAM	JP VRAM_READ
1FE5	C30664	7390	INIT_WRITER	JP INIT_QUEUE
1FEB	C30679	7391	WRITER	JP WRITER
1FEB	C311C1	7392	POLLER	JP POLLER
1FEE	C30213	7393	SOUND_INIT	JP INIT_SOUND
1FF1	C3025E	7394	PLAY_IT	JP JUKE_BOX
1FF4	C3027F	7395	SOUND_MAN	JP SMD_MANAGER
1FF7	C304A3	7396	ACTIVATE	JP ACTIVATE
1FFA	C30608	7397	PUTOBJ	JP PUTOBJ
1FFD	C30038	7398	RAND_GEN	JP RAND_GEN
		7399		

Errors= 0

LINE#	SYMBOL	TYPE	REFERENCES
7396	ACTIVATE	A	242
7347	ACTIVATEP	A	248
1610	ACTIVATE0	P	1609,7347
1627	ACTIVATE	P	1587,1683,7396
1607	ACTIVATE_P	P	1611
1915	ACT_DSPRT	P	1640
1917	ACT_1SPRT	P	1650
1662	ACT_CPLX	P	1652
1903	ACT_MOBILE	P	1646
1694	ACT_SEMI	P	1644
884	ADD0816	P	703,883
5152	ADDR_ADJ	P	5172
5171	ADD_0	P	5152
6141	ADJUST COUNT	P	6145
6130	ADJUST_INDEX	P	6134
3723	AD_EXIT	P	3719
3710	AD_LP	P	3721
463	AFTER_RAMDOM	P	
85	ALEN	A	
1052	ALL_OFF	P	992,7385
6797	ALL_X	P	
492	AMERICA	P	236
87	APS	A	
88	APSV	A	733
964	AREA_SONG_IS	P	963,1216
4504	ARM	A	4856,5027
5008	ARM_DBNCE	P	4859
5037	ARM_EXIT	P	5022,5028,5033
4522	ARM_MASK	A	4746,5011
4516	ARM_OLD	A	5013,5021,5034
5024	ARM_REG	P	5020
5030	ARM_ST1	P	5016
4517	ARM_STATE	A	5014,5026,5036
499	ASCII_TABLE	P	254
5458	ASCII_TBL	P	499,5080
5302	ASC_TABLE	P	5681
86	ASTEP	A	1373,1445,1464
79	ATN	A	1370
724	ATM_SWEEP	P	721,1229
1038	B1	P	1040
6065	BASE_FACTORS	P	6049
3211	BK_CLR	A	3384,3413,3600,3658,3744,3833
3209	BK_PTH	A	3351,3413,3547,3650,3735,3744,3833
368	BOOT_UP	P	
1980	BUFFER	D	2021,2069,2129
7107	BYTE COUNT	S	
2689	CALC_OFFSET	P	2480,2644
457	CARRY_READY	P	454
261	CARTRIDGE	A	260,534
6042	CASE_OF_CLR10	P	6039
6035	CASE_OF_COLOR	P	6023
6025	CASE_OF_GEN	P	6021
6032	CASE_OF_GEN10	P	6029
5705	CENTER_PRT	P	5234,5244
75	CH	A	
99	CHO	A	
90	CHOEND	A	

LINE#	SYMBOL	TYPE	REFERENCES
94	CHOREP	A	
100	CH1	A	
91	CH1EMD	A	
95	CH1REP	A	
101	CH2	A	
92	CH2EMD	A	
96	CH2REP	A	
102	CH3	A	
93	CH3EMD	A	
97	CH3REP	A	
4784	CHK_PLYR_1	P	4766,4780
4777	CHK_SEG_01	P	4772
4801	CHK_SEG_11	P	4796
4579	CINIT1	P	4587
1677	CMPLK4	P	1690
1691	CMPLK9	P	1676
2823	COLOR	A	
6337	COLORTABLE	D	5902,6330
2830	COLOR_AND_TAG	A	2936,3024,3064,3141
6670	COLOR_TABLE	A	6970,7059,7074
6997	COLOR_TEST	P	6817,6855,6903,6953
3201	COLR	A	3472,3602,3835
3559	COMBINE_LOOP	P	3593
3797	COM_PAT_COL	P	3576
3029	CONTINUE	P	2900,2988
6755	CONTINUE_GRAPHI	P	6690,6709,6730
4534	CONTROLLER_0	A	4611,4712
4535	CONTROLLER_1	A	
4570	CONTROLLER_INIT	P	555,4569
285	CONTROLLER_MAP	A	284,4573,4762
7353	CONTROLLER_SCAN	A	212
4609	CONT_READ	P	4720,4735
4615	CONT_READ1	P	4612
4617	CONT_READY	P	4614
4626	CONT_SCAN	P	4625,4760,7353
80	CTRL	A	1307
4531	CTRL_0_PORT	A	4613,4627,4635,4654
4530	CTRL_1_PORT	A	4616,4630,4638,4668
6432	CTRL_PORT	A	6433,6482,6487,6540,6544,6590,6594,6624
3594	C_LP_EXIT	P	3591
6431	DATA_PORT	A	6433,6550,6599
5050	DBNCE_BUFF	D	4576,4761
4092	DCR_L_MODE_TBL	P	
4104	DCR_L_RPT_TBL	P	4091
4129	DCR_S_MODE_TBL	P	4089
4086	DCR_TIMER	P	4072
833	DECLSM	P	689,735,741,832
850	DECMNS	P	849
7354	DECODER	A	213
4748	DECODERX	P	4728
4701	DECODER	P	4700,7354
4820	DECODE_0	P	4776,4800
4842	DECODE_0X	P	4835
4854	DECODE_1	P	4783,4807
4866	DECODE_1X	P	4863
4827	DEC_FIRE	P	4823
4861	DEC_KBD	P	4857

LINE#	SYMBOL	TYPE	REFERENCES
4549	DEC_KBD_IBL	P	4739,4899
4715	DEC_PLYR	P	4713
4733	DEC_SEG1	P	4704
4833	DEC_SPNR	P	4829
59	DEDAREA	A	60,61,62,63,64,65
2181	DEFER	A	2184
630	DEFER_WRITES	D	238,559,2086,2091,2153,2183
4599	DELAY	P	4542
5723	DELAY_10	P	5258
7109	DESTINATION	S	
1535	DE_TO_DEST	P	1343,1441,1461,1487
5126	DISPLAY_LOGO	P	566,5082
5054	DIVIDE	P	6058
3304	DLP1	P	3324
3355	DLP2	P	3425
3479	DLP4	P	3542
3613	DLP5	P	3619
3638	DLP6	P	3642
1048	DOME	A	4473,4486
3167	DOME_LOGO	P	5147
1203	DOME_SHOEMAN	P	1178
1120	DOMT_PUT	P	2876,2879,2889,2892,2964,2967,2977,2980
2188	DO_PUT08J	P	2113,2185
1063	DUMAREA	P	992,1044,1168
1876	DUPLI	P	1878
1681	DVEX	P	3677
1676	DVLP	P	3680
1399	EFFECT	P	1342
1233	EFKOWER	P	1213
1705	ELSE04	P	3646
1223	ELSE1	P	3219
1530	ELSE10	P	3516
1600	ELSE13	P	3605
1810	ELSE18	P	3800
1282	ELSE2	P	3278
1461	ELSE23	P	3830
1339	ELSE5	P	3336
1400	ELSE6	P	3378
1463	ELSE8	P	3460
1501	ELSE9	P	3403
227	ELSEZ2	P	6198,6201
277	ELSE_1	P	2268
702	ELSE_11	P	2694
726	ELSE_12	P	2718
536	ELSE_8	P	2503
559	ELSE_9	P	2543,2544
1757	END04	P	3704
1225	END1	P	3221
537	END10	P	3529
587	END11	P	3584
620	END12	P	3598
610	END13	P	3607
628	END14	P	3626
750	END15	P	3728
782	END16	P	3766
781	END17	P	3773
828	END18	P	3809

LINE# SYMBOL TYPE REFERENCES

LINE#	SYMBOL	TYPE	REFERENCES
3815	END19	P	3813
3284	END2	P	3280
3821	END20	P	3819
3827	END21	P	3825
3872	END22	P	3831
3843	END23	P	3840
3852	END24	P	3847
3861	END25	P	3856
3870	END26	P	3865
3321	END3	P	3308
3313	END4	P	3311
3341	END5	P	3338
3420	END6	P	3399
3419	END7	P	3406
3466	END8	P	3462
3538	END9	P	3500
1389	ENDMOREP	P	1342, 1382
1384	ENDREP	P	1342
73	ENDSDATA	A	1143, 1177
6147	END_ADJ_COUNT	P	6140
6135	END_ADJ_INDEX	P	
376	END_BOOTUP	P	
6232	END_IF_ZZ	P	6225
2320	END_IF_1	P	2276
2610	END_IF_10	P	2584, 2589
2707	END_IF_11	P	2698
2731	END_IF_12	P	2722
6828	END_IF_1_GRAPH1	P	6819
2344	END_IF_2	P	2326
6875	END_IF_2_GRAPH1	P	6857
2363	END_IF_3	P	2358
6914	END_IF_3_GRAPH1	P	6905
2419	END_IF_4	P	2395, 2396
6982	END_IF_4_GRAPH1	P	6955
2572	END_IF_8	P	2532
2568	END_IF_9	P	2555
6611	END_INPUT	P	6607
6562	END_OUTPUT	P	6558
7352	ENLARGE	A	246
6746	ENLRG	P	6745, 7352
6925	ENLRG_	P	6751
4051	EOT	A	4073, 4215, 4246, 4407, 4425, 4464
2271	EQUAL_TO	P	2267
4305	EXIT	P	4264
7030	EXIT_FALSE	P	7018, 7023
3155	EXIT_PUT_SPR	P	3118
7129	EXP_1	P	7134
7136	EXP_2	P	7141
526	FALSE	A	558, 2090, 7030
5616	FILL	P	5621
7357	FILL_VRAM	A	252, 5780, 5905
5610	FILL_VRAM_	P	5084, 5129, 7357
4501	FIRE	A	4828, 4945
4926	FIRE_DBNCE	P	4831
4955	FIRE_EXIT	P	4940, 4946, 4951
4521	FIRE_MASK	A	4726, 4929
4510	FIRE_OLD	A	4931, 4939, 4952

NE#	SYMBOL	TYPE	REFERENCES
942	FIRE_REG	P	4938
940	FIRE_ST1	P	4934
511	FIRE_STATE	A	4932,4944,4954
011	FIRST_GEN_NAME	A	3104
202	FLAGS	A	3225,3375,3596,3603,3644,3798,3829,3836
82	FPS	A	686
83	FPSV	A	2926,3014,3055,3092
017	FRAME	A	2915,3003,3044,3081
014	FRAME_TABLE_PTR	A	4071,4222,4224,4248,4344,4432,4471,4483
050	FREE	P	4219
214	FREE1	P	4216
237	FREE_COUNTER	P	4212
311	FREE_EXIT	P	4223,4226,4228
221	FREE_MATCH	P	224
309	FREE_SET	A	229
381	FREE_SIGNAL	P	4041,7366
366	FREE_SIGNALP	P	4040,7381
200	FREE_SIGNALQ	P	4201
206	FREE_SIGNAL	P	807,811,814
197	FREE_SIG_PAR	A	668,1230
78	FREQ	P	3230,3441,3624
671	FREQ_SWEEP	A	673,702,1372,1444
203	FRM	A	3269,3301,3623
84	FSTEP	A	332,5230,5232,5237,5247
204	F_GEN	A	250
333	GAME_NAME	P	5761,7355
355	GAME_OPT	P	2377,2642,3262
777	GAME_OPT	P	6822,6860,6908,6958
643	GET_BKGRND	P	4249,4253,4258,4263,4277
055	GET_COLOR	P	2291
278	GET_NEXT	P	189,3132,3380,3398,3411,3418
294	GET_OLD	A	194
376	GET_VRAM	P	5980,7361
361	GET_VRAMP	P	2659,5979,6776,7066,7376
377	GET_VRAM	P	6078
307	GET_VRAM	P	2913,2914,3001,3002,3042,3043,3079,3080,3102,3103
374	GET_VRAM_P	P	1997,2022,2032,2070
305	GRAPHICS	D	3582
272	HEAD_ADDRESS	P	1063,1180,1217,1351,1389,1521
305	IF11	P	1822
305	IF11	P	2057,7390
71	INACTIVE	A	2049,7372
321	INIT_00	P	2051
358	INIT_QUEUE	P	992,7393
350	INIT_QUEUEQ	P	1011,7373
345	INIT_QUEUE_P	P	1020,1022,1024
326	INIT_SOUND	P	1019
318	INIT_SOUNDQ	D	6260
385	INIT_SOUND_DATA	D	191
312	INIT_SOUND_PAR	P	196
355	INIT_SPR10	P	5980,7363
378	INIT_SPR_ORDER	A	5979,7378
363	INIT_SPR_ORDERP	A	6243
342	INIT_SPR_ORDERQ	P	188,5649,5654,5659,5664,5669
348	INIT_SPR_ORDER	P	6017,6024
340	INIT_SPR_P	P	
375	INIT_TABLE	A	
346	INIT_TABLEB0	P	

LINE#	SYMBOL	TYPE	REFERENCES
6061	INIT_TABLE90	P	6031, 6034, 6041, 6044
7360	INIT_TABLEP	A	193
5990	INIT_TABLEQ	P	5980, 7360
5997	INIT_TABLE	P	5979, 7375
5987	INIT_TABLE_P	P	5991
7380	INIT_TIMER	A	223
7365	INIT_TIMERP	A	228
4174	INIT_TIMERQ	P	4039, 7365
4180	INIT_TIMER	P	4038, 7380
4430	INIT_TIMER_EXI	P	4370, 4396, 4404
587	INIT_TIME_DATA	D	4176
4171	INIT_TIME_PAR	P	4175
7390	INIT_WRITER	A	203
7372	INIT_WRITERP	A	208
1807	INIT_XP_OS	P	1696, 1905
6601	INPUT_LOOP	P	6605, 6608
423	IRQ_INTERRUPT	P	
325	IRQ_INT_VECT	A	324, 424
4502	JOY	A	4822, 4986
4967	JOY_DBNCE	P	4825
4996	JOY_EXIT	P	4981, 4987, 4992
4523	JOY_MASK	A	4722, 4970
4512	JOY_OLD	A	4972, 4980, 4993
4963	JOY_REG	P	4979
4989	JOY_ST1	P	4975
4513	JOY_STATE	A	4973, 4985, 4995
1102	JUKE_BOX	P	1075, 1385, 7394
1095	JUKE_BOXQ	P	1094, 7374
1083	JUKE_BOX_PAR	P	1096
7344	JUMP_TABLE	A	
4505	K80	A	4862, 4903
4878	K80_DBNCE	P	4865
4913	K80_EXIT	P	4893, 4904, 4909
4520	K80_MASK	A	4738, 4882
4529	K80_MULL	A	4550, 4557, 4561, 4565
4518	K80_OLD	A	4884, 4892, 4910
4895	K80_REG	P	4891
4906	K80_ST1	P	4887
4519	K80_STATE	A	4885, 4897, 4912
1143	L1	P	1152
1229	L10	P	1222
1244	L12	P	1232, 1240
1377	L13	P	1361
1394	L14	P	1379
1424	L15	P	1397
1448	L16	P	1429
1467	L17	P	1450
1482	L18	P	1479
1534	L19	P	
1176	L2	P	1202
604	L20	P	676
1528	L20_LOAD_MEX	P	1526
708	L21	P	691
766	L22	P	737, 761
763	L23	P	743
793	L24	P	787
1306	L5	P	1302

.LINE# SYMBOL TYPE REFERENCES

4500	SEG 0	A	4771,4795
4509	SEG 1	A	4779,4803
1750	SEMI_BOT	P	1748
1755	SEMI_EXIT	P	1711,1753
1759	SEMI_GRI	P	1715
1745	SEMI_MID	P	1743
452	SET	P	446
6102	SET_COUNT	P	6097,6229
6124	SET_COUNT10	P	6118
6150	SET_COUNT20	P	6122,6129
6160	SET_COUNTX	P	
4145	SET_DONE_BIT	P	4103,4128,4136
2035	SET_UP_ENDIF	P	2024
1991	SET_UP_WRITE	P	2186
2024	SHAPE	A	
3575	SHFEX	P	3571
3570	SHFLP	P	3574
6164	SHIFT_CT	P	6125
4475	SIGNAL_FALSE	P	4465,4472
4470	SIGNAL_MATCH	P	4461
594	SIGNAL_NUM	D	4202,4204
4480	SIGNAL_TRUE	P	4474
4484	SIGNAL_TRUE1	P	4482
7199	SKIPZZ	P	7197
2317	SKIP_OLD	P	2293
1025	SM_BY_OLD	P	1814,1820
1138	SM0_MANAGER	P	1135,7395
76	SONGNO	A	
7393	SOUND_INIT	A	215
7373	SOUND_INITP	A	220
7395	SOUND_MAH	A	218
69	SOUND_PORT	A	795,810,821,1055,1057,1059,1061,1303,1324
7108	SOURCE	S	
5390	SPACE	P	5688
6503	SPIN_OLD	A	4834,4838,4839
6514	SPIN_STATE	A	
6515	SPIN_STATE	A	
5051	SPIN_SMO_CT	D	4589,4655,4710,4775
5052	SPIN_SW1_CT	D	4590,4799
6524	SPNR_MASK	A	
5334	SPRITEGENTBL	D	6327
5333	SPRITEINDEXBL	D	6326
2807	SPRITE_INDEX	A	3112,3129,3147
275	SPRITE_ORDER	A	274,6254,6283
2798	SPRITE_PTR	S	
997	SR1AIN	A	1054,1278,1279
996	SR1FRQ	A	1280
999	SR2AIN	A	1056,1284,1285
998	SR2FRQ	A	1286
1001	SR3AIN	A	1058,1290,1291
1000	SR3FRQ	A	1292
1004	SRMATN	A	1060,1296,1297
1003	SRNCTL	A	1314
578	STACK	D	233,371
290	START_GAME	A	289,541,5266
2806	STATUS	A	2865,2866,2924,2925,2953,2954,3012,3013,3034,3035,3053,3054,3070,3071,3090,3091
532	STRB_RST_PORT	A	4571,4641,4737

LINE# SYMBOL TYPE REFERENCES

4533	STRB SET PORT	A	4633,4734
5053	STROBE FLG	D	
4536	STROBE RESET	A	
4537	STROBE SET	A	4703
4266	SUBTRACT 4	P	4259
1831	SLP_GEN CLR	P	1744,1749,1754
1894	SLP_UPDATE	P	1746,1751
2347	SV1	P	
2393	SV2	P	
573	SYSTEM_RAM_AREA	D	578
2260	S_OLD_SCRN	P	2255
1973	TAIL_ADDRESS	D	2071,2101,2130,2142
3981	TBL0	P	3978
580	TEMP1	D	4178
591	TEMP2	D	4179
4463	TEST1	P	4468
4489	TEST_EXIT	P	4478
7303	TEST_SIGNAL	A	226
7368	TEST_SIGNALP	A	231
4449	TEST_SIGNAL0	P	4045,7368
4455	TEST_SIGNAL	P	4044,7303
601	TEST_SIG_NUM	D	4451,4453
4446	TEST_SIG_PARAM	P	4450
2802	THIS_SPRITE	S	
4343	TIMER1	P	4413,4428
4399	TIMER2	P	
5724	TIMER_1	P	5289,5732
5725	TIMER_2	P	5728
4147	TIMER_EXIT	P	4132,4157
598	TIMER_LENGTH	D	4334
4495	TIMER_TABLE_BAS	D	4030,4069,4181,4200,4243,4340,4457
7384	TIME_MGR	A	227
4067	TIME_MGRQ	P	4047
4068	TIME_MGR_	P	4046,7384
1319	YOME_OUT	P	1255,1282,1288,1294
5322	TRADEMARK	P	5190
7254	TRANSP 10	P	7273
7274	TRANSP_X	P	
527	TRUE	A	6818,6856,6904,6954,7026
7305	TURN_OFF_SOUND	A	216,548
1432	TYPE0	P	1342
1453	TYPE1	P	1342
1472	TYPE2	P	1342
1501	TYPE3	P	1342,1469
1625	TZTZ	P	1623
783	UPATMCTRL	P	781,1306,1315,1327
4665	UPDATE_R0	P	4660
4679	UPDATE_R1	P	4674
4668	UPDATE_S1	P	4657,4663
7359	UPDATE_SPINNER	A	211
4653	UPDATE_SPINNER	P	4652,7359
4481	UPDATE_SPINX	P	4670,4677
806	UPREQ	P	805,1328
1166	UP_CM_DATA_PIRS	P	1121,1164,1241
608	VDP_MODE_WORD	D	235,1713,3216,6015,6120,6494,6502,7021
623	VDP_STATUS_WYIE	D	234
6332	VRAM_ADDR_TABLE	D	6009,6114,6286,6325

LINE#	SYMBOL	TYPE	REFERENCES
6506	VRAM_READ	P	2287, 2316, 6090, 6505, 7309
6577	VRAM_READQ	P	6576, 7371
6572	VRAM_READ_P	P	6578
6529	VRAM_WRITE	P	1024, 2417, 6230, 6528, 7388
6520	VRAM_WRITEQ	P	6519, 7370
6515	VRAM_WRITE_P	P	6521
1270	WRITE	A	279, 1873, 2280, 2561, 2601, 2059, 2947, 3215, 3256, 3268, 3271, 3291, 3295, 3300, 3329, 3347, 3373, 3382, 3440, 3451, 3467
280	WRITE_BUFFER	A	3471, 3474, 3545, 3546, 3599, 3633, 3649, 3656, 3657, 3660, 3703, 3723, 3737, 3761, 3774, 3784, 3785, 6775, 6805, 6843, 6863
			6891, 6929, 6946, 6961, 6975, 7047, 7064, 7079
7391	WRITER	A	204
2083	WRITER	P	2082, 7391
5954	WRITE_CHAR	P	5044, 5048, 5852, 5856, 5948, 5951
5959	WRITE_L11	P	5068, 5071, 5074, 5877
5965	WRITE_L12	P	5009, 5892, 5895, 5898
5941	WRITE_L3	P	5010, 5013, 5016, 5019, 5822, 5825, 5828, 5831
5947	WRITE_L4	P	5034, 5859, 5880
5950	WRITE_L5	P	5037, 5062, 5003
5953	WRITE_L6	P	5840, 5865, 5886
5142	WRITE_LOOP	P	5165
5177	WRITE_NAMES	P	5169
7306	WRITE_REGISTER	A	199, 5216, 5263, 5293, 5638, 5642, 5674, 5788, 5912
7369	WRITE_REGISTERP	A	205
7388	WRITE_VRAM	A	201, 3337
7370	WRITE_VRAM_P	A	206
2155	WRITE_ELSE	P	2122
2149	WRITE_END_WHILE	P	2133
2094	WRITE_WHILE	P	2098
7379	WRITE_WHILE_TBL	P	2147
7364	WRITE_WHILE_TBLP	A	192
6269	WRITE_WH_TBLQ	P	5900, 7364
6275	WRITE_WH_TBL	P	5979, 7379
6267	WRITE_P	P	6270
2828	X	A	2910, 2998, 3039, 3137
3200	XDISP	A	3239, 3568
3208	XP_BLK	A	3243, 3260, 3330, 3681, 3768, 3788
3290	XP_MEG	P	2487
3206	XP_OS	A	3272, 3762, 3777
2690	X_IM_BOUNDS	P	
2818	X_LOCATION	A	2867, 2955, 3036
2827	Y	A	3075
3199	YDISP	A	3248, 3549, 3577, 3579
3207	YP_BLK	A	3252, 3257, 3259, 3292, 3548, 3314, 3634, 3661, 3685, 3724, 3769, 3786, 3789
3205	YP_OS	A	3296, 3767, 3775, 3778
2819	Y_LOCATION	A	3072