

SERIES-III 8086/8087/8088 MACRO ASSEMBLER V1.0 ASSEMBLY OF MODULE RAM_700
NO OBJECT MODULE REQUESTED
INVOCATION LINE CONTROLS: N00J EP(:F2:MRAM,ERR) WF(:F0:) PR(:F2:MRAM,LST) XR NOMR

LOC	OBJ	LINE	SOURCE
1			
2			
3			=====
4			
5			
6			
7		;	00 00 00 000000
8		;	00 00 0000 00 00
9		;	000 000 00 00 00 00
10		;	00000000 00 00 00 00
11		;	00 00 00 00000000 00 00
12		;	00 00 00 00 00 00 00
13		;	00 00 00 00 000000
14		;	
15		;	
16		;	
17		;	0000000 00 00 00 00000000 00000000 000000
18		;	00 00 00 0000 000 00 00 00 00 00 00
19		;	00 00 00 00 00 00 00 00 00 00 00 00
20		;	0000000 00 00 00 00 00 00 000000 00 000000
21		;	00 00 00 0000000 00 0000 00 00 00 00 00
22		;	00 00 00 00 00 00 00 00 00 00 00 00
23		;	00 0000000 00 00 00 00 00 00000000 00 000000
24		;	
25		;	
26		;	
27			=====
28			
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31			
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34			
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38			
39		;	(C) COPYRIGHT 1983
40		;	D. GOTTLIEB & CO.
41		;	ALL RIGHTS RESERVED
42			
43			
44	+1		\$EJECT

LOC	OBJ	LINE	SOURCE
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45  
46 ; THE COMPLETE SET OF THE SOURCE PROGRAM IS CONSIST OF  
47 ; THE FOLLOWING 9 MODULES;  
48  
49 ; 1. MRAM.SRC  
50 ; 2. MSIMU.SRC  
51 ; 3. MSTAR.SRC  
52 ; 4. MNEIL.SRC  
53 ; 5. MGAME.SRC  
54 ; 6. MENEMY.SRC  
55 ; 7. MAGNA.SRC  
56 ; 8. MUTIL.SRC  
57 ; 9. MDIAG.SRC  
58  
59  
60 ; THE FOLLOWING FILES ARE INCLUDED AT ASSEMBLY TIME.  
61  
62 ; 1. MEQU.S1  
63 ; 2. MSTRUCT.S1  
64 ; 3. MPURGE.S1  
65 ; 4. MSTABL.S1  
66 ; 5. NOTABL.S1  
67 ; 6. MRPT.S1  
68  
69  
70 +1 $EJECT
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LOC	OBJ	LINE	SOURCE
71			
72		;	ACKNOWLEDGEMENT
73			
74			
75			
76			
77		;	THROUGHOUT THE DEVELOPMENT OF THIS GAME, UNCOUNTABLE NUMBER OF
78		;	SUGGESTIONS AND CRITICISMS WERE GIVEN TO THE AUTHOR BY MANY FRIENDS
79		;	AND COLLEAGUES. AFTER THE LONG AND HARD PERIOD OF WORK (ALMOST 12
80		;	MONTHS), THIS IS THE MOST PLEASANT MOMENT TO NAME A FEW WHO CONTRIBUTED
81		;	TO THE PROJECT.
82			<i>BURNSTEIN</i>
83		;	NEIL BERSTEIN WROTE THE ATTRACT MODE SECTION, AND WARREN DAVIS
84		;	SUPPLIED THE DIAGNOSTICS SECTION. THE AUDIO EFFECTS WERE PROVIDED
85		;	BY DAVE THIEL AND THE ART WORK WAS DONE BY JEFF LEE. THE CABINET
86		;	AND CONTROL PANEL WERE DONE BY RICH PAETH. THE FIELD TESTS WERE
87		;	CONDUCTED BY DAVE BERTE AND JEAN YOSHIOKA.
88			<i>PAETH</i>
89		;	BESIDES THE ABOVE MENTIONED 'OFFICIAL' INVOLVEMENTS, MORE PEOPLE
90		;	ASSISTED THIS PROJECT IN CASUAL MANNER...
91		;	JUN YUM AND RICK TIGHE WERE THE MAIN CONTRIBUTERS IN THE DEVELOPMENT
92		;	OF THE GAME CONCEPT AND WERE THE GREAT PLAYERS. CHRIS KRUBEL ALSO
93		;	LOGGED SIGNIFICANT TIME IN THE GAME PLAYING AND EVALUATIONS.
94		;	LAURA SCHWEBL, DAVE PFEIFFER, MATT HOUSEHOLDER, STEVE PACHECO SPENT
95		;	THEIR COFFEE BREAK ON MAD PLANETS. CHRIS BREWER MADE THE WIRE-WRAPPED
96		;	TARGET HARDWARE SYSTEM. DAVE BONECUTTER WAS ALWAYS AVAILABLE WHEN
97		;	THE TARGET SYSTEM WAS DOWN. BOB MALVESIO HELPED PUT TOGETHER
98		;	A FEW ENGINEERING SAMPLE HARDWARES. MORAL SUPPORT CAME FROM YOUNG BAHNG.
99		;	RICH TRACY PROMISED TO GIVE THE AUTHOR HIS MAD-PLANET POSTERS.
100		;	NEEDLESS TO SAY, RON WAXMAN AND FRANK STARSHAK PAID THIR DUE THROUGH
101		;	THEIR HARASSMENT WITH THE DEADLINE. HOWIE RUBIN DID A MAGNIFICENT
102		;	JOB CREATING MESSSES.
103			
104		;	IT IS NOT IN THE AUTHOR'S CULTURE TO MENTION ANY CREDIT DUE TO
105		;	HIS WIFE'S SUPPORT AND PERCEVERANCE IN THE PAST YEARS.
106			
107			
108			
109			
110		;	KAN W. YABUMOTO
111			
112		;	FEBRUARY 28, 1983
113		;	NORTHLAKE, ILLINOIS
114			
115			
116			
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121			
122	+1	\$EJECT	

LOC	OBJ	LINE	SOURCE
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123	+1	\$EJECT	
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LOC	OBJ	LINE	SOURCE
124			
125			NAME RAM_700
126		; 7.00 02/28/83	PRODUCTION VERSION 6V-102-0
127			
128			
129		; MRAM.SRC	
130			
131		; #####	
132		; MAGNA RAM AREA	
133		; #####	
134			
135			
136			
137		; 5.46 02/25/83	MORE CHANGE IN ADDR
138		; 5.45 02/25/83	START ADDR CHANGED
139		; 5.44 02/22/83	DIAL_DIR_FL ADDED
140		; 5.43 02/18/83	COLOR ANIMATION VARIABLES ADDED
141		; 5.42 02/15/83	REMOVED UNNECESSARY PUBLIC
142		; 5.41 02/15/83	JUST ENOUGH MEMORY ALLOCATED
143		; 5.40 02/11/83	NEW STAR DATA ADDED
144		; 5.39 01/26/83	NEW DIP SWITCH OPTION
145			
146		; ----- RELEASE VERSION 07 -----	
147			
148		; 5.38 01/21/83	TRIPPLICATE BOOKKEEPING DATA
149			
150		; ----- RELEASE VERSION 06 -----	
151			
152		; 5.38 01/13/83	REORGANIZE NEIL'S DATA
153		; 5.37 01/13/83	MAKE FGND RGB BUFFER BIGGER
154		; 5.36 01/13/83	DUPLICATING GALACTIC TABLE
155		; 5.35 01/12/83	RECONFIGURATION FOR 3 RAM CHIP SYSTEM
156		; 5.34 01/11/83	CUTOFF_TIMER ADDED
157		; 5.33 01/11/83	NASTY_COMET_FL ADDED
158		; 5.32 01/10/83	BIGGER ROM SIZE
159		; 5.31 01/10/83	KILL TIMER ADDED
160		; 5.30 01/10/83	FRESH RND_FL ADDED
161		; 5.29 01/07/83	AGAIN TIMER ADDED
162		; 5.28 01/06/83	HUMAN_NOW_FL ADDED
163		; 5.27 01/05/83	KILLER_KRYPT_FL ADDED
164		; 5.26 01/03/82	HUMAN_TOOKOFF_FL ADDED
165		; 5.25 12/29/82	HUMAN_POINT SCHEME CHANGED
166		; 5.24 12/21/82	HUMAN_DATA AREA MADE BIGGER
167		; 5.23 12/20/82	HUMAN_ACTION'S DATA ADDED
168			
169		; ----- RELEASE VERSION 05 -----	
170			
171		; 5.22 12/14/82	COLOR_SET_PTR ADDED
172		; 5.21 12/13/82	COMET_GRAPEPOD MADE WORD
173		; 5.20 12/10/82	POSITION OF DIAL_VALUE CHANGED
174			
175		; ----- RELEASE VERSION 04 -----	
176			
177		; 5.19 12/03/82	FLASH ON INCREASED MORE SPACES
178		; 5.18 11/30/82	ROUND_STAY_CLK ADDED

LOC	OBJ	LINE	SOURCE
		179	; 5.17 11/29/82 10 WARREN VARIABLES ADDED
		180	; 5.16 11/24/82 COUNTER FOR TIMEOUT ADDED
		181	; 5.15 11/24/82 ACTIVITY RATE RELATED VARIABLES
		182	; 5.14 11/22/82 RANGE OF REMAIN_RAM REDUCED
		183	; 5.13 11/22/82 REMAINING RAM ALSO CHECKED
		184	; 5.12 11/16/82 ADDED MORE
		185	; 5.11 11/15/82 CHANGES IN MORE VARIABLES(Neil)
		186	; 5.15 11/15/82 MORE VARIABLES FOR NEIL
		187	; 5.09 11/09/82 FINISH_RND_FL ADDED
		188	; 5.08 11/09/82 MOST VALUABLE DATA MOVED TO 800-FFF AREA
		189	
		190	; ----- RELEASE VERSION 03 -----
		191	
		192	; 5.07 11/04/82 SQUEEZED INTO 32K CODE (ROM_START AT 8000H)
		193	; 5.06 11/03/82 MEXP_EX_TIMER ADDED
		194	; 5.05 11/02/82 PBLIC SOME MORE
		195	; 5.04 11/01/82 REORGANIZATION (PERMANENT DATA ON TOP)
		196	; 5.03 10/28/82 CANIM_FL ADDED
		197	; 5.02 10/26/82 PERF_SOUND_CTR ADDED
		198	
		199	; ----- RELEASE VERSION 02 -----
		200	
		201	; 5.01 10/20/82 COM_SPIN_TIMER RESTORED
		202	; 5.00 10/19/82 BGND_SOUND ADDED
		203	
		204	; ----- RELEASE VERSION 01 -----
		205	
		206	; 4.36 10/18/82 BONUS_RESET_FL ADDED
		207	; 4.35 10/15/82 PERF_DISP_FL ADDED
		208	; 4.34 10/13/82 COMET SPINNING VARIABLES ADDED
		209	; 4.33 10/13/82 LOGO_XPOS,YPOS ADDED
		210	; 4.32 10/13/82 PERFECT_FL ADDED
		211	; 4.31 10/11/82 KMASS_MAD ADDED, DYNAMIC TWEAKER ADDED
		212	; 4.30 10/07/82 KEEP_MPOS_FL ADDED
		213	; 4.29 10/07/82 ADV_ROUND_FL MOVED TO ACTIVE VAR
		214	; 4.28 10/07/82 KILL_TOGO BECAME PART OF ACTIVE VAR
		215	; 4.27 10/06/82 MAGNA_EXPLOSION RELATED VAR ADDED
		216	; 4.26 10/04/82 EXTRA_DEB_FL ADDED
		217	; 4.25 09/30/82 SOUND_OFF_FL ADDED
		218	; 4.24 09/29/82 COLOR ANIMATION VARIABLES ADDED
		219	; 4.23 09/27/82 NEW ADDRESSES FOR GG-3
		220	; 4.22 09/24/82 COMET_BONUS PTR ADDED
		221	; 4.21 09/23/82 COMET_SPEED REMOVED, BONUS_FL ADDED
		222	; 4.20 09/23/82 DING_CTR AND COMET_PTR ADDED
		223	; 4.19 09/22/82 SECOND HI SCORE TABLE ADDED
		224	; 4.18 09/20/82 COMET SPEED LIMIT ADDED
		225	; 4.17 09/19/82 COMET_TIMER VARIABLES SPLIT TO TWO INIT VALUES
		226	; 4.16 09/18/82 COMET_DATA AREA REORGANIZED
		227	; 4.15 09/17/82 CGRAVE_PERD ADDED
		228	; 4.14 09/17/82 COMET RELATED VARIABLES ADDED
		229	; 4.13 09/14/82 KSPEED_MAX,MIN , NASTY_CTR,NASTIER_FL ADDED
		230	; 4.12 09/14/82 MORE COUNTERS FOR NEIL
		231	; 4.11 09/13/82 ADV_ROUND_FL REPLACING SET_MAGNA_FL
		232	; 4.10 09/13/82 RANDOM CHANGED, XDELTA,YDELTA REMOVED
		233	; 4.09 09/10/82 ATT_TABLE_CTR,ATT_TABLE_TOP ADDED

LOC	OBJ	LINE	SOURCE
		234	; 4.08 09/10/82 PBLIC CORRECTED
		235	; 4.07 09/10/82 GAME_CREDITX ADDED
		236	; 4.06 09/10/82 NEIL_CTR ADDED
		237	; 4.05 09/09/82 MORE NEW VARIABLES
		238	; 4.04 09/07/82 NEIL'S DATA AREA REWRITTEN
		239	; 4.03 09/04/82 NEIL'S VARIABLE AREA ADDED
		240	; 4.02 09/03/82 KILL_TOGO ADDED
		241	; 4.01 09/01/82 QUE_TABLE,QUE_FL ADDED
		242	; 4.00 09/01/82 QUE_PTR,ACTIVE_KRYPT_CTR ADDED
		243	
		244	; 2.11 08/31/82 CHANGE PORT FOR JOYSTICK AND PANEL
		245	; 2.10 08/31/82 FREP FOR 4.00
		246	; 2.09 08/27/82 FINAL RPT_VAR AREA SET
		247	; 2.08 08/27/82 REARRAGNE RPT_VAR AREA
		248	; 2.07 08/26/82 MORE DATA ADDED TO PARAMETER VARIABLES
		249	; 2.06 08/26/82 NEW DATA ALLOCATIONS
		250	; 2.05 08/12/82 SAME_PLAYER_FL REPLACES PLAYER_SW_FL
		251	; 2.04 07/30/82 PLAYER_SW_FL ADDED
		252	; 2.03 07/29/82 NO_RDY_MSG_FL ADDED
		253	; 2.02 07/29/82 STORE_VAR AREA SPELLED OUT
		254	; 2.01 07/21/82 TWO PACKETS FOR MAGNA_OBJECTS
		255	; 2.00 07/21/82 ASSEBLY COMPLETE
		256	
		257	; 0.29 07/21/82 PBLIC FIX
		258	; 0.28 07/16/82 MORE SHUFFLES
		259	; 0.27 07/14/82 RE-ORGANIZATION OF VARIABLES
		260	; 0.26 07/13/82 COIN_TIMER, CTRL_BYTE ADDED
		261	; 0.25 07/09/82 SOUND VARIABLES ADDED
		262	; 0.24 07/07/82 STAR_DUST_FL ADDED
		263	; 0.23 07/07/82 PLAYER_ID MADE A WORD
		264	; 0.22 07/02/82 GAME_CREDIT ETC ADDED
		265	; 0.21 07/02/82 SCORE VARIABLES ADDED
		266	; 0.20 06/30/82 NMI_CTR ADDED
		267	; 0.19 06/26/82 MGAME'S RAM DATA SECTION MERGED
		268	; 0.18 06/23/82 STAR_DATA MERGED HERE
		269	; 0.17 06/22/82 TESTSW DISCARDED
		270	; 0.16 06/22/82 JOYSTICK ADDED, PROTON TABLE REMOVED
		271	; 0.15 06/08/82 MEMORY PACK
		272	; 0.14 06/04/82 ADAPTED FOR NEW GG-2 I/O ADDRESSES
		273	; 0.13 05/26/82 BGND_CHARGEN LABELED
		274	; 0.12 05/19/82 A FEW VARIABLES MOVED HERE
		275	; 0.11 05/12/82 MORE NEW SLOT ALLOCATIONS
		276	; 0.10 04/23/82 MORE NEW SLOT ALLOCATIONS
		277	; 0.09 04/20/82 NEW FGND SLOT ALLOCATIONS
		278	; 0.08 04/07/82 MAGPAR DEFINITION ADDED HERE, TOO
		279	; 0.07 04/07/82 MAGNA'S DATA STRUCTURE CHANGED
		280	; 0.06 03/25/82 ADDR_DIFF DEFINITION CORRECTED
		281	; 0.05 03/22/82 GRAPHIC VARIABLES ADDED
		282	; 0.04 03/16/82 NO EXTERNAL REFERENCE MADE
		283	; 0.03 03/16/82 REMOVED INCLUDE FILE
		284	; 0.02 03/09/82 LINK/LOC WORKS NOW
		285	; 0.00 03/04/82 BROKEN UP FROM M007.A86
		286	
		287	+1 \$EJECT

LOC	OBJ	LINE	SOURCE
---		288	;-----
		289	
		290	ALLSEG SEGMENT PUBLIC
		291	
		292	ASSUME CB:ALLSEG, DS:ALLSEG, SS:ALLSEG, ES:ALLSEG
		293	
		294 +1	\$INCLUDE(:F1:MEQU.S1)
=1		295 +1	\$EJECT

LOC	OBJ	LINE	SOURCE
=1	296	;=====	TO BE INCLUDED FILE (MEQU.S1) =====
=1	297		
=1	298	; 7.00 02/28/83	PRODUCTION VERSION GG-102-0
=1	299		
=1	300		
=1	301	; #####	
=1	302	; ASSEMBLY TIME CONSTANTS	
=1	303	; #####	
=1	304		
=1	305		
=1	306		
=1	307	; 5.69 02/23/83	SMALLER GAP BETWEEN DIFFICULTY
=1	308	; 5.68 02/23/83	COLORS OF GAME OVER SPECIFIED
=1	309	; 5.67 02/23/83	COMET COLLISION DETECTION TIGHTENED
=1	310	; 5.66 02/22/83	TIGHTER COLLISION RANGE BETW INFANT AND BULLETS
=1	311	; 5.65 02/14/83	IB_XRANGE ETC ADDED
=1	312	; 5.64 02/14/83	ESL VALUES CHANGED FOR NEW ELECTRON ORBITS
=1	313	; 5.63 01/29/83	MORE DIFFICULT
=1	314	; 5.62 01/27/83	DIFFICULTY FACTOR ADJUSTED
=1	315	; 5.61 01/25/83	NEW DIP SWITCH DEFINITIONS
=1	316		
=1	317	; ----- RELEASE VERSION 07 -----	
=1	318		
=1	319	; 5.60 01/19/83	MINOR DEBUG
=1	320	; 5.59 01/19/83	DIFFICULTY FACTOR CHANGED
=1	321	; 5.58 01/19/83	VARIABLE MAGNA VEL CONTROL
=1	322		
=1	323	; ----- RELEASE VERSION 06 -----	
=1	324		
=1	325	; 5.57 01/13/83	VERSION 6 FINISHED
=1	326	; 5.56 01/11/83	CUTOFF PERD ADDED
=1	327	; 5.55 01/10/83	NUM ROMS MADE 5
=1	328	; 5.54 01/10/83	KILLER PERD, PB_XRANGE ADDED
=1	329	; 5.53 01/08/83	DIFFICULTY FACTOR ADDED
=1	330	; 5.52 01/08/83	RND POS1 SET
=1	331	; 5.51 01/08/83	MIN BULLET LIFE INBETWEEN
=1	332	; 5.50 01/07/83	MIN BULLET LIFE EXTENDED
=1	333	; 5.49 01/07/83	SOUND CODE REVISED
=1	334	; 5.48 01/07/83	AGAIN PERD REDUCED
=1	335	; 5.47 01/07/83	AGAIN PERD ADDED
=1	336	; 5.46 01/05/83	SAFE PERD EXTENDED A LITTLE
=1	337	; 5.45 01/05/83	KRYPT SAFE PERD ADDED
=1	338	; 5.44 01/03/83	HUMAN_INTERVAL ADDED
=1	339	; 5.43 12/30/82	CHANGE HUMAN SPEED PARAMETERS
=1	340	; 5.42 12/29/82	RAM_TEST_CYCLES REDUCED
=1	341	; 5.41 12/29/82	NUM_HUMANS REMOVED
=1	342	; 5.40 12/29/82	HUMAN PARAMETERS CHANGED
=1	343	; 5.39 12/29/82	HUMAN ACTION MODE LIMITS CHANGED
=1	344	; 5.33 12/28/82	HUMAN ACTION TIMING, RANGE CHANGED
=1	345	; 5.32 12/21/82	HUMAN OBJECT CHANGED
=1	346	; 5.31 12/21/82	HUMAN_START_ROUND ADDED
=1	347	; 5.30 12/21/82	HUMAN ACTION RELATED CONSTANTS ADDED
=1	348		
=1	349	; ----- RELEASE VERSION 05 -----	
=1	350		

LOC	OBJ	LINE	SOURCE	COMMENT
=1	351	; 5.29	12/16/82	SEED COLOR CHANGED
=1	352	; 5.28	12/14/82	RELEASE VERSION UPDATE
=1	353	; 5.27	12/14/82	NEW GRAPHIC FBND PROM
=1	354	; 5.26	12/14/82	COMET WITH TAIL IMPLEMENTED
=1	355			
=1	356	; -----	RELEASE VERSION 04 -----	
=1	357			
=1	358	; 5.25	12/01/82	CHANGED AGAIN
=1	359	; 5.24	12/01/82	PERFECT_DISPLAY PERIOD REDUCED
=1	360	; 5.23	11/30/82	PERECT PERD2 DEFINED
=1	361	; 5.22	11/24/82	TIMEOUT PERD FOR NEW DAY START ENTRY
=1	362	; 5.21	11/22/82	ROM TEST CYCLE REDUCED
=1	363	; 5.20	11/19/82	CHANGE IN CHKSUM DISP POS
=1	364	; 5.19	11/17/82	STORED_CHKSUM MADE EQUATE
=1	365	; 5.18	11/17/82	ACTIVITY_LEGAL_MASK ADDED
=1	366	; 5.17	11/16/82	MEMORY_TESTING CONSTANTS
=1	367	; 5.16	11/09/82	VERSION NUMBER UPDATE
=1	368			
=1	369	; -----	RELEASE VERSION 03 -----	
=1	370			
=1	371	; 5.15	11/04/82	LONGER MEXTRA PERD
=1	372	; 5.14	11/04/82	MEXTRA PERD ADDED
=1	373	; 5.13	10/28/82	PERFECT BONUS SOUND INTERVAL ADJUSTED
=1	374	; 5.12	10/27/82	BONUS POINT INCREASED TO 5000 POINTS
=1	375	; 5.11	10/27/82	SOUND TIMING CHANGED
=1	376	; 5.10	10/27/82	SENSE SWITCH POSITION MASK REASSIGNED
=1	377	; 5.09	10/27/82	COLOR ANIMATION CONSTANTS ADDED
=1	378	; 5.08	10/27/82	NEW SOUND TIME CONSTANTS
=1	379	; 5.07	10/26/82	NUM_PERF_SOUND ADDED
=1	380	; 5.06	10/26/82	MAX_BULLET_LIFE ADDED
=1	381	; 5.05	10/26/82	COMET SOUND ADVANCING REDUCED
=1	382			
=1	383	; -----	RELEASE VERSION 02 -----	
=1	384			
=1	385	; 5.04	10/21/82	OSEED REDEFINED, MAD_FACTOR ADDED
=1	386	; 5.03	10/20/82	DT_INTERVAL REDUCED
=1	387	; 5.02	10/20/82	MIN_KMASS DEFINED HERE
=1	388	; 5.01	10/20/82	MAGNA'S RESET POSITION DEFINED HERE
=1	389	; 5.00	10/19/82	NEW SOUND ROM
=1	390			
=1	391	; -----	RELEASE VERSION 01 -----	
=1	392			
=1	393	; 4.47	10/18/82	BULLET_LIFEZ ADDED
=1	394	; 4.46	10/16/82	COMET OBJECT ANIMATING SET DEFINED
=1	395	; 4.45	10/15/82	SOUND TIME ADJUSTED
=1	396	; 4.44	10/15/82	BONUS POINT DEFINED, BONUS PERD INCREASED
=1	397	; 4.43	10/15/82	SOUND PERIOD OF SHOOT SOUND LONGER
=1	398	; 4.42	10/14/82	SOUND PERIOD OF MAGNA EXPLOSION LONGER
=1	399	; 4.41	10/13/82	COM_SPIN PERD ADDED
=1	400	; 4.40	10/13/82	NEW OBJECT PROM DELIVERED
=1	401	; 4.39	10/13/82	PERFECT PERD ADDED
=1	402	; 4.38	10/12/82	POINT OF COMET FIGURE CHANGED
=1	403	; 4.37	10/12/82	SOUND PRIORITY CHANGED
=1	404	; 4.36	10/12/82	SPINNING SOUND ADDED
=1	405	; 4.35	10/11/82	DYNAMIC TWEAKER PERIOD ADDED

LOC	OBJ	LINE	SOURCE
=1	406	; 4.34 10/06/82	SOUND FOR SPIN
=1	407	; 4.33 10/05/82	NUM_BULLETS FINALLY IN HERE
=1	408	; 4.32 10/04/82	ROUND SELECT THRESHOLD DEFINE
=1	409	; 4.31 10/01/82	ROUND_OPT_MASK DEFINED
=1	410	; 4.30 09/30/82	BOX OBJECT DEFINED, SCORE_POSH ADDED
=1	411	; 4.29 09/29/82	DING TIME SHORTENED
=1	412	; 4.28 09/28/82	MORE PATCHES FOR GG-3
=1	413	; 4.27 09/27/82	FILLH CHANGED FOR GG-3
=1	414	; 4.26 09/24/82	COMET RANGE ENLARGED
=1	415	; 4.25 09/23/82	COMET_BONUS_ADV ADDED
=1	416	; 4.24 09/23/82	SOUND DEFINITION CHANGED
=1	417	; 4.23 09/23/82	COMET_BONUSPERD ADDED
=1	418	; 4.22 09/21/82	COMET SOUND CODE ADDED
=1	419	; 4.21 09/20/82	CMASS MIN LIMIT INCREASED
=1	420	; 4.20 09/19/82	LIMIT ON CMASS
=1	421	; 4.19 09/19/82	COMET RECOVERY PERIOD, GRACE PERIOD REMOVED
=1	422	; 4.18 09/17/82	COMET EXPLOSION OBJECTS TENTATIVELY GIVEN
=1	423	; 4.17 09/17/82	MORE COMET CONSTANTS
=1	424	; 4.16 09/17/82	POINT OBJECTS ADDED
=1	425	; 4.15 09/16/82	MORE COMETS CONSTANTS
=1	426	; 4.14 09/16/82	COMET'S CONSTANTS ADDED
=1	427	; 4.13 09/16/82	CHAR SET MINOR CHANGE
=1	428	; 4.12 09/16/82	NEW CHAR SET AND NEW SOUND
=1	429	; 4.11 09/13/82	NEW CHARACTER DEFINITION
=1	430	; 4.10 09/12/82	MAGNA'S TWEAK DATA MOVED HERE
=1	431	; 4.09 09/12/82	CHANGE DUE TO KMRANG,KPBRANG CHANGE TO BYTE
=1	432	; 4.08 09/11/82	ENEMY'S HOME AND LIMITS EQUATED
=1	433	; 4.07 09/10/82	MAX_CREDIT ADDED
=1	434	; 4.06 09/10/82	GOVER MSG PERD ADDED
=1	435	; 4.05 09/09/82	BOTH_PLAYER_MASK ADDED
=1	436	; 4.04 09/03/82	CHANGE_DFLYEL
=1	437	; 4.03 09/03/82	INF_XLIMIT,INF_YLIMIT SET
=1	438	; 4.02 09/02/82	JSALL_MASK ADDED
=1	439	; 4.01 09/01/82	QUE STATUS DEFINED
=1	440	; 4.00 09/01/82	MAX_NUM_KRYPT CORRECTED
=1	441	; 2.23 08/31/82	MAGNA'S STATUS BYTES DEFINED
=1	442	; 2.22 08/31/82	NEW OBJECT ASSIGNMENT
=1	443	; 2.21 08/31/82	NEW CONTROL PANEL (TEST CONFIGURATION)
=1	444	; 2.20 08/31/82	NEW COLOR SET DEFINED
=1	445	; 2.19 08/30/82	SEED RELATED EQUATES ADDED
=1	446	; 2.18 08/29/82	ORBIT TABLE DEFINITION ALTERED
=1	447	; 2.17 08/29/82	ETIME_1ST ADDED
=1	448	; 2.16 08/28/82	MAGNA_SIZE ADDED
=1	449	; 2.15 08/27/82	EXTRA_MID_MASK ADDED
=1	450	; 2.14 08/26/82	KRYPTON'S ACTION PARAMETER EQUATED
=1	451	; 2.13 08/24/82	SPASM PERD,KRYPEXP PERD ADDED
=1	452	; 2.12 08/09/82	NEIL_AREA ADDED, DFLYEL ADDED
=1	453	; 2.11 08/13/82	SHIP DISPLAY POS CHANGED
=1	454	; 2.10 08/12/82	VERSION 3
=1	455	; 2.09 07/29/82	VERSION NUMBER ADDED
=1	456	; 2.08 07/29/82	CREDIT_POS DELETED
=1	457	; 2.07 07/29/82	DOMINANT_MASK ADDED
=1	458	; 2.06 07/29/82	CHAR_SHIP ADDED
=1	459	; 2.05 07/29/82	SHIPS_PER_GAME ADDED
=1	460	; 2.04 07/28/82	ENEMY AREA DEFINED

LOC	OBJ	LINE	SOURCE
		=1 461	; 2.03 07/28/82 KRYPTON'S LOCAL EQUATES MERGED
		=1 462	; 2.02 07/23/82 TRIGGER BIT IS CHANGED
		=1 463	; 2.01 07/21/82 TEST RELATED CONSTANTS REMOVED
		=1 464	; 2.00 07/21/82 NO_DEATH_MASK ADDED
		=1 465	
		=1 466	; 0.54 07/20/82 MAXNUM_KRYPTONS ADDED
		=1 467	; 0.53 07/20/82 NEW OBJECT DEFINED
		=1 468	; 0.52 07/20/82 MORE CONSTANTS FOR MAGNAZ
		=1 469	; 0.51 07/19/82 SC_STOP
		=1 470	; 0.50 07/19/82 ACTIVE DIGIT CODE ADDED
		=1 471	; 0.49 07/19/82 ATT_SOUND_MASK,CPU_TIME_MASK ETC ADDED
		=1 472	; 0.48 07/13/82 SOUND DEFINITION CHANGED
		=1 473	; 0.47 07/13/82 COIN_MASK, ONE_COIN_MASK ADDED
		=1 474	; 0.46 07/09/82 SOUND DEFINITION ADDED
		=1 475	; 0.45 07/08/82 CREDIT POSITION CHANGED
		=1 476	; 0.44 07/08/82 SCORE_POSITION CHANGED
		=1 477	; 0.43 07/07/82 BLNK CHARACTER MUST BE LESS THAN 128
		=1 478	; 0.42 07/07/82 CREDIT DISPLAY POSITION ADDED
		=1 479	; 0.41 07/06/82 START_ONE AND TWO MASK DEFINED
		=1 480	; 0.40 07/02/82 BULLET OBJECT CHANGED
		=1 481	; 0.39 07/02/82 SCORE_ADDR1 ADDED
		=1 482	; 0.38 06/24/82 STRUCTURE/MACRO DEFINITION SPLIT
		=1 483	; 0.37 06/24/82 SHOTGUN_FACTOR,BULLET_SPEED ADDED
		=1 484	; 0.36 06/23/82 STAR_DUST MERGE INTO MUTIL
		=1 485	; 0.35 06/21/82 WLEN_ELPAR ADDED
		=1 486	; 0.34 06/18/82 WLEN_KRYPAR ADDED
		=1 487	; 0.33 06/18/82 BSHIFT KEFPTR1 ELIMINATED
		=1 488	; 0.32 06/17/82 KRYPTON'S OBJECT REDEFINED
		=1 489	; 0.31 06/08/82 MEMORY ALLOCATION MODIFIED (MEMORY PACK)
		=1 490	; 0.30 06/08/82 KRYPTON'S BIRTH RELATED MOD
		=1 491	; 0.29 05/12/82 FBND REG ALLOCATION CHANGED
		=1 492	; 0.28 05/07/82 DELECTEXP DEFINED
		=1 493	; 0.27 05/05/82 EDORBMASK ADDED IN ELPAR
		=1 494	; 0.26 05/05/82 KRYPAR CHANGED
		=1 495	; 0.25 05/05/82 NEW FBND_ROM (M103) DEFINED
		=1 496	; 0.24 04/28/82 BULLET_SPEED REMOVED
		=1 497	; 0.23 04/28/82 ELPAR,BULPAR CHANGED FOR MIDPOINTS
		=1 498	; 0.22 04/27/82 MORE CHANGE
		=1 499	; 0.21 04/27/82 CORRECTION ON BSHIFT KEFPTR1
		=1 500	; 0.20 04/26/82 NEW KRYPAR DEFINED
		=1 501	; 0.19 04/23/82 BULLET SPEED INCREASED
		=1 502	; 0.18 04/22/82 BULPAR ADDED
		=1 503	; 0.17 04/21/82 MAGNA EXPLOSION OBJECT REASSIGNED
		=1 504	; 0.16 04/20/82 MAGNA EXPLOSION OBJECT TENTATIVELY DETERMINED
		=1 505	; 0.15 04/20/82 KRYPAR CORRECTED
		=1 506	; 0.14 04/19/82 ESL0-ESLB DEFINED
		=1 507	; 0.13 04/16/82 OFLY1 DEFINED
		=1 508	; 0.12 04/16/82 ELPAR AND KRYPAR DEFINED
		=1 509	; 0.11 04/12/82 NEW EPROM FOR ELECTRONS AND KRYPTON
		=1 510	; 0.10 04/12/82 OBJECT SELECT NUMBER OF ORBIT ELECTRON CHANGED
		=1 511	; 0.09 04/07/82 OBJECT SELECT NUMBER REDEFINED
		=1 512	; 0.08 04/07/82 MAGPAR DEFINED
		=1 513	; 0.07 04/01/82 JOBPAR DEFINED
		=1 514	; 0.06 03/31/82 ELACPAR (A STRUC) DEFINED
		=1 515	; 0.05 03/29/82 DSLOT ALLOCATION CHANGED

LOC	OBJ	LINE	SOURCE
=1	516	; 0.04	03/23/82
=1	517	; 0.03	03/17/82
=1	518	; 0.02	03/11/82
=1	519	; 0.01	03/09/82
=1	520	; 0.00	03/04/81
=1	521	+1	\$EJECT

LOC	OBJ	LINE	SOURCE
		=1 522	;-----
		=1 523	
0001		=1 524	V1 EQU 1 ;RELEASE VERSION NUMBER
0000		=1 525	V2 EQU 0
		=1 526	
		=1 527	
		=1 528	; =====
		=1 529	; MEMORY ALLOCATION
		=1 530	; =====
		=1 531	
0005		=1 532	NUM_ROMS EQU 5 ;NUMBER OF 2764 EPROMS
		=1 533	
FFE0		=1 534	STORED_CHKSUM EQU OFFEOH ;CHECKSUM LOCATION
		=1 535	
0070		=1 536	WLEN_FGND_REG EQU 124 ;WORD LENGTH OF FGND_REG
0300		=1 537	BLEN_BGND_REG EQU 960 ;BYTE LENGTH OF BGND_REG
0010		=1 538	WLEN_COLOR_REG EQU 16 ;WORD LENGTH OF COLOR_REG
		=1 539	
		=1 540 +1	\$EJECT

LOC	OBJ	LINE	SOURCE
		=1 541	;=====
		=1 542	
		=1 543	
		=1 544 ;	=====
		=1 545 ;	GENERAL SYSTEM CONSTANTS
		=1 546 ;	=====
		=1 547	
		=1 548 ;	CPU TIMER RELATED CONSTANTS
		=1 549	
0166		=1 550 FRAME_TIME EQU 166H	
0067		=1 551 FRAME_TIMEL EQU 67H ;LOWER BYTE OF FRAME TIME	
0001		=1 552 FRAME_TIMEH EQU 1 ;UPPER BYTE OF FRAME TIME	
		=1 553	
		=1 554 ;	BACKGROUND POSITION FOR PARTICULAR DISPLAY
		=1 555	
03A1		=1 556 SCORE_POS1 EQU 3A1H ;8 DIGITS ALLOCATED	
0121		=1 557 SCORE_POS2 EQU 121H ;8 DIGITS ALLOCATED	
0241		=1 558 SCORE_POSH EQU 241H ;7 DIGITS FOR HI OF TODAY	
		=1 559	
02FF		=1 560 SHIP_POS1 EQU 2FEH ;LEFT TO RIGHT	
00DE		=1 561 SHIP_POS2 EQU 0DEH ;RIGHT TO LEFT	
		=1 562	
033E		=1 563 RND_POS1 EQU 33EH ;ROUND NUMBER POSITION LEFT	
009E		=1 564 RND_POS2 EQU 09EH ;ROUND NUMBER POSITION RIGHT	
		=1 565	
000E		=1 566 CTIME_DISP_POS EQU 14 ;CPU TIME DISPLAY POSITION	
		=1 567	
02AD		=1 568 BAD_RDM_POS EQU 2ADH ;BAD RDM REPORTING POSITION	
01D6		=1 569INI_TIME_POS EQU 1D6H ;TIMER COUNT DOWN POSITION	
		=1 570	
		=1 571 ;	CONTROL BYTE OUTPUT MASK CONSTANTS
		=1 572	
0001		=1 573 DOMINANT_MASK EQU 1 ;0/FGND DIMIN, 1/BGND DOMINANT	
0006		=1 574 COCKTAIL_MASK EQU 6 ;0/UPRIGHT, 6/COCKTAIL	
		=1 575	
		=1 576	
		=1 577 ;	DIP SWITCH INPUT MASK CONSTANTS
		=1 578	
0008		=1 579 ROUND_OPT_MASK EQU 8 ;POS 1 MANUAL ROUND SELECTION	
		=1 580	
0001		=1 581 ATT_SOUND_MASK EQU 1 ;POS 2 TURN OFF SOUND DURING ATTRACT MODE	
		=1 582	
0014		=1 583 COIN_VALUE_MASK EQU 14H ;POS 3,4 COIN VALUE MASK	
0010		=1 584 COIN_MID_MASK EQU 10H ;POS 3,4 MIDDLE VALUE	
		=1 585	
0020		=1 586 NUM_SHIP_MASK EQU 20H ;POS 5 NUMBER OF SHIPS PER GAME	
		=1 587	
0002		=1 588 EXTRA_SHIP_MASK EQU 2 ;POS 6 POINTS FOR EXTRA SHIP	
		=1 589	
00C0		=1 590 DIFF_MASK EQU 0C0H ;POS 7,8 DIFFICULTY CONTROL	
0080		=1 591 DIFF_MID_MASK EQU 80H ;POS 7,8 DIFFICULTY MID POINT	
		=1 592	
		=1 593	
		=1 594 +1 \$EJECT	

LOC	OBJ	LINE	SOURCE
		=1 595	
		=1 596	; CONTROL PANEL INPUT MASK CONSTANTS
		=1 597	
		=1 598	; JOYSTICK INPUT BYTE MASK
		=1 599	
000F		=1 600	JSALL_MASK EQU 15 ;JOYSTICK ALL MASK
0002		=1 601	JSRT_MASK EQU 2 ;JOYSTICK RIGHT MASK
0008		=1 602	JSLT_MASK EQU 8 ;JOYSTICK LEFT MASK
0001		=1 603	JSUP_MASK EQU 1 ;JOYSTICK UP MASK
0004		=1 604	JSDN_MASK EQU 4 ;JOYSTICK DOWN MASK
		=1 605	
0010		=1 606	TRIGGER_MASK EQU 10H
		=1 607	
0020		=1 608	START_ONE_MASK EQU 20H
0040		=1 609	START_TWO_MASK EQU 40H
0060		=1 610	BOTH_PLAYER_MASK EQU 60H
		=1 611	
		=1 612	; PANEL INPUT BYTE MASK
		=1 613	
0003		=1 614	COIN_MASK EQU 3
0004		=1 615	SLAM_MASK EQU 4
0080		=1 616	TEST_ON_MASK EQU B0H
0040		=1 617	TEST_STEP_MASK EQU 40H
		=1 618	
		=1 619	
0014		=1 620	ROUND_THRES EQU 20
		=1 621	
0F72		=1 622	STD_COLOR EQU 0F72H ;ORANGE
0092		=1 623	EASY_COLOR EQU 0092H ;GREEN
0280		=1 624	HARD_COLOR EQU 0280H ;BLUE
0F31		=1 625	VHARD_COLOR EQU 0F31H ;RED
		=1 626	
		=1 627	
		=1 628 +1	\$EJECT

LOC	OBJ	LINE	SOURCE
		=1 629	
		=1 630	; TWEAKING PARAMETERS
		=1 631	
0006		=1 632	DIFF_FTR_A EQU 6 ;COMET PATHS SKIPPED DURING NORMAL ROUND
0001		=1 633	DIFF_FTR_B EQU 1 ;COMET PATHS SKIPPED AT BONUS PERIOD
		=1 634	
		=1 635	
0004		=1 636	HUMAN_START_ROUND EQU 4 ;ROUND 7 IS THE FIRST ROUTINE HUMAN EXISTENCE
		=1 637	
0960		=1 638	KILLER_PERD EQU 2400 ;45 SECOND LATER KILLER COMET APPEARS
0E10		=1 639	CUTOFF_PERD EQU 3600 ;1 MIN OF CUTOFF PERIOD (BETWEEN KRYPT EXP)
		=1 640	
01E0		=1 641	DT_KSPEED_PERD EQU 480 ;8 SECOND TO MAKE KSPEED LIMIT LARGER
0209		=1 642	DT_KMASS_PERD EQU 521 ;9 SECOND TO MAKE KMASS SMALLER
000A		=1 643	KSPEED_ABS_MAX EQU 16 ;ABSOLUTE MAX OF KSPEED (20 PIX/FRAME)
		=1 644	
		=1 645	; ANIMATION OR DISPLAY TIMING RELATED CONSTANTS
		=1 646	
003C		=1 647	TIMEOUT_PERD EQU 60 ;START OF NEW DAY ONE SECOND TIMER
0009		=1 648	NEW_DAY_PERD EQU 9 ;9 SECONDS FOR TIME OUT FOR STARTING DAY
		=1 649	
		=1 650	
0078		=1 651	MEXTRA_PERD EQU 120 ;POST MAGNA EXPLOSION PAUSE
		=1 652	
0008		=1 653	KRYPT_SAFE_PERD EQU 8 ;NUMBER OF FRAMES KRYPTON WAITS TO BE DEADLY
0008		=1 654	SPASM_PERD EQU 8 ;SPASM KRYPTON PERIOD
000A		=1 655	KRYPTEXP_PERD EQU 10 ;KRYPTON'S EXPLOSION PERIOD PER PHASE
0014		=1 656	DELECEXP_PERD EQU 20 ;ORBIT ELECTRON'S EXPLOSION PERIOD
001E		=1 657	FELECEXP_PERD EQU 30 ;FLYING ELECTRON'S EXPLOSION PERIOD
0001		=1 658	ETIME_1ST EQU 1 ;INITIAL VALUE FOR ETIMER
		=1 659	
0003		=1 660	CDM_SPIN_PERD EQU 3 ;COMET SPIN FRAMES
000A		=1 661	COMETEXP_PERD EQU 10 ;COMET EXPLOSION PERIOD
001E		=1 662	COMET_POINT_PERD EQU 30 ;HALF SECOND DISPLAY OF POINT
0019		=1 663	COMET_BONUSPERD EQU 25 ;BONUS PERIOD COMET INTERVAL
000F		=1 664	COMET_CLUE_PERD EQU 15 ;COMET SOUND CLUE ADVANCE PERIOD
		=1 665	
0078		=1 666	GOVER_MSG_PERD EQU 120 ;"GAME OVER" MESSAGE DISPLAY
0078		=1 667	ONE_GOVER_PERD EQU 120 ;"PLAYER ONE GAME OVER" MESSAGE DISPLAY
005A		=1 668	READY_PERD EQU 90 ;"READY" OR "PLAYER ONE READY" DISPLAY
0046		=1 669	PERFECT_PERD EQU 70 ;"PERFECT ROUND" DISPLAY PERIOD
00C8		=1 670	PERFECT_PERD2 EQU 200 ;TOTAL SOUND DURATION OF THE ABOVE
0019		=1 671	PERF_SOUND_PERD EQU 25 ;INTERVAL OF PERFECT SOUND
0004		=1 672	NUM_PERF_SOUND EQU 4 ;NUMBER OF REPETITION
		=1 673	
001F		=1 674	HUMANSPEED_MASK EQU 31 ;ACCELERATION FACTOR MASK
001E		=1 675	HPOINT_PERD EQU 30 ;HUMAN'S BONUS DISPLAY PERIOD
0084		=1 676	HUMAN_RECVPERD EQU 180 ;HUMAN'S STANDBY PERIOD (AFTER GONE OR KILLED)
001E		=1 677	HUMAN_CONTPERD EQU 30 ;HUMAN'S STANDBY PERIOD (AFTER PICKED UP)
000F		=1 678	HEXP_PERD EQU 15 ;HUMAN'S EXPLOSION PERIOD WHEN SHOT
0014		=1 679	HUMAN_INITPERD EQU 20 ;FIRST ANIMATION OBJECT'S PERIOD
000F		=1 680	HUMAN_INTERVAL EQU 15 ;INITIALIZING VALUE INTERVAL
		=1 681	
003C		=1 682	AGAIN_PERD EQU 60 ;IF GETS KILLED IN THE PERIOD, ANOTHER CHANCE
		=1 683	

LOC	OBJ	LINE	SOURCE
		=1	684
003C		=1	685 HMODE0_PERD EQU 60
0064		=1	686 HMODE1_PERD EQU 100
0014		=1	687 HMODE3_PERD EQU 20
002B		=1	688 HMODE4_PERD EQU 45
000A		=1	689 HMODE7_PERD EQU 10
		=1	690
0002		=1	691 BONUS_HUMAN_PNT EQU 2 ;200 POINTS FOR HUMAN PICKUP DURING BONUS TIME
		=1	692
		=1	693
		=1	694 +1 \$EJECT

LOC	OBJ	LINE	SOURCE	
		=1 695	;-----	
		=1 696		
		=1 697	; GAME RELATED CONSTANTS	
		=1 698		
0025		=1 699	MAX_CREDIT EQU 25H ;MAXIMUM CREDIT VALUE	
		=1 700		
0003		=1 701	SHIPS_PER_GAME EQU 3 ;NORMAL SHIPS FOR A QUARTER	
0005		=1 702	SHIPS_EASY_GAME EQU 5 ;EASY SETTING	
0006		=1 703	MAX_NUM_SHIPS EQU 6 ;MAXIMUM NUMBER OF SHIPS GIVEN AT ONE TIME	
0003		=1 704	MAX_NUM_FLYEL EQU 3 ;MAXIMUM NUMBER OF FLYING ELECTRONS PER KRYPT	
0005		=1 705	MAX_NUM_KRYPT EQU 5 ;MAXIMUM NUMBER OF KRYPTONS	
0010		=1 706	MAX_NUM_SEEDS EQU 16 ;MAXIMUM NUMBER OF SEEDS IN DATA	
000A		=1 707	MAX_NUM_HUMANS EQU 10 ;MAXIMUM NUMBER OF HUMANS	
		=1 708		
0003		=1 709	NUM_BULLETS EQU 3 ;NUMBER OF BULLETS MAXIMUM	
0010		=1 710	NUM_MAGNAOJBS EQU 16 ;NUMBER OF MAGNAS AT DIFFERENT ANGLES	
0016		=1 711	NUM_ELECTRONS EQU 22 ;ELECTRON ACTION TABLE MAX SIZE	
003D		=1 712	NUM_STARS EQU 61 ;NUMBER OF STARS IN BACKGROUND	
		=1 713		
0004		=1 714	EXP_SPEED EQU 4 ;MAGNA DEBRIS SPEED FACTOR	
0002		=1 715	SPIN_FRAMES EQU 2 ;NUM OF FRAMES PER SPIN MOTION	
0001		=1 716	NUM_SPINS EQU 1 ;NUM OF SPINS BEFORE EXPLOSION	
0002		=1 717	SPIN_ANGLE EQU 2 ;THE FINAL ANGLE OF ROTATION	
0008		=1 718	NUM_MXPIECES EQU 8 ;NUMBER OF DEBRIS	
4600		=1 719	MXOUT_POS EQU 140*128 ;GUARANTEED OUT OF SCREEN POSITION	
		=1 720		
003B		=1 721	FILLH EQU 03BH ;TABLE FILLER FOR STAR_TABLE	
00E0		=1 722	FILLL EQU 0EOH ;TABLE FILLER FOR STAR_TABLE	
		=1 723		
0122		=1 724	MAGNA_SX_SPEED EQU 290 ;MAGNA'S STRAIGHT X SPEED	
0168		=1 725	MAGNA_SY_SPEED EQU 360 ;MAGNA'S STRAIGHT Y SPEED	
00CC		=1 726	MAGNA_DX_SPEED EQU 204 ;MAGNA'S DIAGONAL X SPEED	
00FC		=1 727	MAGNA_DY_SPEED EQU 252 ;MAGNA'S DIAGONAL Y SPEED	
		=1 728		
0003		=1 729	DIAL_THRES EQU 3 ;NUM OF TRACKBALL INPUT PULSES/ANGLE CHANGE	
		=1 730		
0019		=1 731	MAX_BULLET_LIFE EQU 25 ;NUMBER OF FRAMES A BULLET TRAVELS	
0014		=1 732	MAX_BULLET_LIFE2 EQU 20 ;BULLET LIFE AT BONUS PERIOD	
000C		=1 733	MIN_BULLET_LIFE EQU 12 ;LIMIT OF REDUCED BULLET LIFE	
		=1 734		
0006		=1 735	SHOTGUN_FACTOR EQU 6 ;NUMBER OF FRAMES BEFORE NEXT TRIG READY	
0009		=1 736	SHOTGUN_FACTOR2 EQU 9 ;SHOTGUN FACTOR DURING BONUS PERIOD	
0400		=1 737	BULLET_SPEED EQU 400H	
		=1 738		
001F		=1 739	MAD_FACTOR EQU 31 ;EVERY 32 FRAMES GETS MADDER	
0003		=1 740	MIN_KMASS EQU 3 ;MINIMUM KRYPT MASS	
		=1 741		
0006		=1 742	EJECT_MATCH EQU 6 ;THIS VALUE IS COMPARED AGAINST RANDOM VALUE	
		=1 743		
		=1 744 +1 \$EJECT		

LOC	OBJ	LINE	SOURCE	
		=1	745	;-----
		=1	746	
000F		=1	747	INF_XLIMIT0 EQU 15 ;INFANT PHASE 0 X LIMIT
0012		=1	748	INF_YLIMIT0 EQU 18 ;INFANT PHASE 0 Y LIMIT
		=1	749	
0014		=1	750	INF_XLIMIT1 EQU 20 ;INFANT PHASE 1 X LIMIT
0019		=1	751	INF_YLIMIT1 EQU 25 ;INFANT PHASE 1 Y LIMIT
		=1	752	
0019		=1	753	INF_XLIMIT2 EQU 25 ;INFANT PHASE 2 X LIMIT
0020		=1	754	INF_YLIMIT2 EQU 32 ;INFANT PHASE 2 Y LIMIT
		=1	755	
3900		=1	756	MAGNA_RLIMIT EQU 114#128
-3900		=1	757	MAGNA_LLIMIT EQU -114#128
3500		=1	758	MAGNA_DLIMIT EQU 106#128
-3500		=1	759	MAGNA_ULIMIT EQU -106#128
		=1	760	
3480		=1	761	BULLET_RLIMIT EQU 117#128
-3480		=1	762	BULLET_LLIMIT EQU -117#128
3980		=1	763	BULLET_DLIMIT EQU 115#128
-3980		=1	764	BULLET_ULIMIT EQU -115#128
		=1	765	
3700		=1	766	KRYPT_RLIMIT EQU 110#128
-3700		=1	767	KRYPT_LLIMIT EQU -110#128
3300		=1	768	KRYPT_DLIMIT EQU 102#128
-3300		=1	769	KRYPT_ULIMIT EQU -102#128
		=1	770	
3800		=1	771	FLYEL_RLIMIT EQU 118#128 ;FLYING ELECTRONS LIMIT
-3800		=1	772	FLYEL_LLIMIT EQU -118#128
3400		=1	773	FLYEL_DLIMIT EQU 116#128
-3400		=1	774	FLYEL_ULIMIT EQU -116#128
		=1	775	
3800		=1	776	COMET_RLIMIT EQU 118#128 ;COMET LIMIT
-3800		=1	777	COMET_LLIMIT EQU -118#128
3400		=1	778	COMET_DLIMIT EQU 116#128
-3400		=1	779	COMET_ULIMIT EQU -116#128
		=1	780	
003A		=1	781	HUMAN_RLIMITH EQU 58
-003A		=1	782	HUMAN_LLIMITH EQU -58
0039		=1	783	HUMAN_DLIMITH EQU 57
-0039		=1	784	HUMAN_ULIMITH EQU -57
		=1	785	
3800		=1	786	HUMAN_RLIMIT EQU 112#128
-3800		=1	787	HUMAN_LLIMIT EQU -112#128
3700		=1	788	HUMAN_DLIMIT EQU 110#128
-3700		=1	789	HUMAN_ULIMIT EQU -110#128
		=1	790	
0003		=1	791	MHXRANGE EQU 3 ;MAGNA TO HUMAN PICKUP RANGE
0003		=1	792	MHYRANGE EQU 3
		=1	793	
0003		=1	794	HBXRANGE EQU 3 ;HUMAN TO BULLET HIT RANGE
0003		=1	795	HBYRANGE EQU 3
		=1	796	
0380		=1	797	ELECT_RANGE EQU 7#128 ;RANGE OF ELECT-MAGNA HIT
0400		=1	798	COMET_RANGE EQU 8#128 ;RANGE OF COMET-MAGNA HIT
		=1	799	

LOC	OBJ	LINE	SOURCE	
		=1	800	IB_XRANGE1 EQU 7*128 ;PRIMARY RANGE FOR X
0380		=1	801	IB_YRANGE1 EQU 9*128 ;PRIMARY RANGE FOR Y
0480		=1	802	IB_XRANGE2 EQU 2*128 ;SECONDARY RANGE FOR X
0100		=1	803	IB_YRANGE2 EQU 3*128 ;SECONDARY RANGE FOR Y
0180		=1	804	
0480		=1	805	PB_XRANGE1 EQU 9*128 ;PRIMARY RANGE FOR X
0600		=1	806	PB_YRANGE1 EQU 12*128 ;PRIMARY RANGE FOR Y
0200		=1	807	PB_XRANGE2 EQU 4*128 ;SECONDARY RANGE FOR X
0300		=1	808	PB_YRANGE2 EQU 6*128 ;SECONDARY RANGE FOR Y
		=1	809	
		=1	810	
0180		=1	811	EB_XPRANGE EQU 3*128
-0180		=1	812	EB_XNRANGE EQU -3*128
0200		=1	813	EB_YPRANGE EQU 4*128
-0200		=1	814	EB_YNRANGE EQU -4*128
		=1	815	
0200		=1	816	EFB_XPRANGE EQU 4*128 ;FINE COLLISION RANGE
-0200		=1	817	EFB_XNRANGE EQU -4*128
0280		=1	818	EFB_YPRANGE EQU 5*128
-0280		=1	819	EFB_YNRANGE EQU -5*128
		=1	820	
0600		=1	821	EFB_XPRANGE1 EQU 12*128 ;ROUGH COLLISION RANGE
-0600		=1	822	EFB_XNRANGE1 EQU -12*128
0800		=1	823	EFB_YPRANGE1 EQU 16*128
-0800		=1	824	EFB_YNRANGE1 EQU -16*128
		=1	825	
0280		=1	826	CB_XPRANGE EQU 5*128 ;FINE COLLISION RANGE
-0280		=1	827	CB_XNRANGE EQU -5*128
0300		=1	828	CB_YPRANGE EQU 6*128
-0300		=1	829	CB_YNRANGE EQU -6*128
		=1	830	
0780		=1	831	CB_XPRANGE1 EQU 15*128 ;ROUGH COLLISION RANGE
-0780		=1	832	CB_XNRANGE1 EQU -15*128
0A00		=1	833	CB_YPRANGE1 EQU 20*128
-0A00		=1	834	CB_YNRANGE1 EQU -20*128
		=1	835	
		=1	836	
		=1	837	;-----
		=1	838	
		=1	839	; COLOR ANIMATION CONSTANTS
		=1	840	
0002		=1	841	CANIM_PERD1 EQU 2 ;KRYPT EXPLOSION INTERVAL
0950		=1	842	KEXP_COLOR EQU 0950H ;KRYPT EXP INITIAL COLOR
0210		=1	843	KEXP_DIFF EQU 0210H ;ONE UNIT AT A TIME
		=1	844	
0007		=1	845	CANIM_PERD2 EQU 7 ;SLOWER EXPLOSION INTERVAL
0F80		=1	846	MEXP_COLOR EQU 0F80H ;MAGNA EXPLOSION COLOR
0210		=1	847	MEXP_DIFF EQU 0210H ;ONE UNIT AT A TIME
		=1	848	
		=1	849 +1	\$EJECT

LOC	OBJ	LINE	SOURCE
		=1 850	;-----
		=1 851	
		=1 852	; SCREEN POSITION ADJUSTMENT PARAMETERS
		=1 853	
1800		=1 854	MRESET_XPOS EQU 48#12B ;MAGNA'S RESET POSITION
0000		=1 855	MRESET_YPOS EQU 0
		=1 856	
0076		=1 857	MAGNA_XHOME EQU 76H
0089		=1 858	MAGNA_YHOME EQU 89H
		=1 859	
0076		=1 860	BULLET_XHOME EQU 76H
0080		=1 861	BULLET_YHOME EQU 80H
		=1 862	
0076		=1 863	ELECT_XHOME EQU 76H
0081		=1 864	ELECT_YHOME EQU 81H
		=1 865	
0076		=1 866	FLYEL_XHOME EQU 76H
0081		=1 867	FLYEL_YHOME EQU 81H
		=1 868	
0076		=1 869	SEED_XHOME EQU 76H
0081		=1 870	SEED_YHOME EQU 81H
		=1 871	
0076		=1 872	COMET_XHOME EQU 76H
0081		=1 873	COMET_YHOME EQU 81H
		=1 874	
0076		=1 875	HUMAN_XHOME EQU 76H
0081		=1 876	HUMAN_YHOME EQU 81H
		=1 877	
		=1 878	
		=1 879 +1	\$EJECT

LOC	OBJ	LINE	SOURCE
		=1	880 ;-----
		=1	881
		=1	882 ; ELECTRON AND KRYPTON'S STATUS BYTE DEFINITIONS
		=1	883
0000		=1	884 MST_NORM EQU 0
0001		=1	885 MST_EXP EQU 1
		=1	886
0000		=1	887 EST_ORB EQU 0
0001		=1	888 EST_DRBOUT EQU 1
0002		=1	889 EST_BACK EQU 2
0003		=1	890 EST_EXP EQU 3
0004		=1	891 EST_INACT EQU 4
		=1	892
0000		=1	893 KST_NOEJ EQU 0
0001		=1	894 KST_DKEJ EQU 1
0002		=1	895 KST_RDEYJ EQU 2
0003		=1	896 KST_EXP EQU 3
0004		=1	897 KST_INACT EQU 4
0005		=1	898 KST_DEAD EQU 5
		=1	899
-0001		=1	900 QST_ACTIVE EQU -1
0000		=1	901 QST_INACTIVE EQU 0
		=1	902
0006		=1	903 KOSHIFTX EQU 6
000C		=1	904 KOSHIFTY EQU 12
0018		=1	905 KOSHIFTZ EQU 24
		=1	906
		=1	907 ;-----
		=1	908
		=1	909 ; MEMORY TEST CONSTANTS
		=1	910
0010		=1	911 ROM_TEST_CYCLES EQU 16 ;NUMBER OF TEST CYCLES ON ROM TEST
0010		=1	912 RAM_TEST_CYCLES EQU 16 ;NUMBER OF TEST CYCLES ON RAM TEST
		=1	913
		=1	914 ; ACTIVITY DATA'S LEGAL MASK FOR CIRCULAR QUE
		=1	915
00FE		=1	916 ACTIVITY_LEGAL_MASK EQU 0FEH ;0..254 (ONLY EVEN NUMBERS)
		=1	917
		=1	918
		=1	919 +1 \$EJECT

LOC	OBJ	LINE	SOURCE		
		=1 920		-----	
		=1 921			
		=1 922	;	=====	
		=1 923	;	FOREGROUND RELATED CONSTANTS ASSIGNMENT	
		=1 924	;	=====	
		=1 925			
0000		=1 926	CLR_VPN	EQU 0	;CLEAR VPN VALUE FOR GG-3
		=1 927			
0008		=1 928	MAGNA_SIZE	EQU 8	;ALLOCATED TWO SLOTS
		=1 929			
0016		=1 930	DMAGNA	EQU 16H	;FIRST MAGNA
		=1 931			
0040		=1 932	NUM_DSLOTS	EQU 64	
		=1 933			
		=1 934	;	ORBIT TABLE'S CONSTANTS DEFINED	
		=1 935			
0000		=1 936	ESL0	EQU 0	;SLOT SHIFT FOR X BACK ORBIT
0004		=1 937	ESL1	EQU 4	;SLOT SHIFT FOR Y BACK ORBIT
0008		=1 938	ESL2	EQU 8	;SLOT SHIFT FOR Z BACK ORBIT
		=1 939			
0018		=1 940	ESL3	EQU 24	;SLOT SHIFT FOR SMALL X FRONT ORBIT
001C		=1 941	ESL4	EQU 28	;SLOT SHIFT FOR SMALL Y FRONT ORBIT
0020		=1 942	ESL5	EQU 32	;SLOT SHIFT FOR SMALL Z FRONT ORBIT
0024		=1 943	ESL6	EQU 36	;SLOT SHIFT FOR LARGE X FRONT ORBIT
0028		=1 944	ESL7	EQU 40	;SLOT SHIFT FOR LARGE Y FRONT ORBIT
002C		=1 945	ESL8	EQU 44	;SLOT SHIFT FOR LARGE Z FRONT ORBIT
		=1 946			
		=1 947			
000A		=1 948	BACK_SLOT_LIMIT	EQU 10	;IF LARGER THAN THIS, IT'S FRONT
		=1 949			
00E5		=1 950	BOX	EQU 0E5H	;CURSOR BOX FOR HI SCORE ENTRY
		=1 951			
0037		=1 952	DSEED	EQU 37H	
		=1 953			
0001		=1 954	DBULLET	EQU 1	;FIRST BULLET
		=1 955			
0046		=1 956	DSELECT	EQU 46H	
0048		=1 957	DFLYEL	EQU 48H	
		=1 958			
0003		=1 959	DSELECTEXP	EQU 0D3H	
		=1 960			
0078		=1 961	DCOMETA	EQU 07BH	
0088		=1 962	DCOMETB	EQU 08BH	
		=1 963			
0005		=1 964	DCOMEXP1	EQU 0D5H	
0006		=1 965	DCOMEXP2	EQU 0D6H	
		=1 966			
		=1 967			
0036		=1 968	DHUMAN1A	EQU 036H	
0047		=1 969	DHUMAN1B	EQU 047H	
00CF		=1 970	DHUMAN1C	EQU 0CFH	
		=1 971			
00AF		=1 972	DHUMAN2A	EQU 0AFH	
00B3		=1 973	DHUMAN2B	EQU 0B3H	
00D9		=1 974	DHUMAN2C	EQU 0D9H	

LOC	OBJ	LINE	SOURCE	
		=1 975		
00CA		=1 976	DHUMAN3A	EQU 0CAH
00CB		=1 977	DHUMAN3B	EQU 0CBH
00CC		=1 978	DHUMAN3C	EQU 0CCH
		=1 979		
0036		=1 980	DHUMAN4A	EQU 036H
0047		=1 981	DHUMAN4B	EQU 047H
00CF		=1 982	DHUMAN4C	EQU 0CFH
		=1 983		
000A		=1 984	DHEXP	EQU 0AH
		=1 985		
		=1 986		
		=1 987	; OBJECT FOR POINT DISPLAY	
		=1 988		
0047		=1 989	DP10	EQU 047H
00CF		=1 990	DP50	EQU 0CFH
0080		=1 991	DP100	EQU 0B0H
00B1		=1 992	DP200	EQU 0B1H
00D9		=1 993	DP300	EQU 0D9H
00B2		=1 994	DP400	EQU 0B2H
00DC		=1 995	DP500	EQU 0DCH
00D8		=1 996	DP600	EQU 0DBH
00D0		=1 997	DP700	EQU 0D0H
00D7		=1 998	DP800	EQU 0D7H
00DA		=1 999	DP900	EQU 0DAH
00D8		=1 1000	DP1000	EQU 0DBH
		=1 1001		
		=1 1002	; ===== MORE ASSEMBLY_TIME CONSTANTS =====	
		=1 1003 +1	\$EJECT	

LOC	OBJ	LINE	SOURCE
		=1 1004	;=====
		=1 1005	
		=1 1006	
		=1 1007 ;	=====
		=1 1008 ;	COLOR VALUE DEFINED
		=1 1009 ;	=====
		=1 1010	
		=1 1011	
0000		=1 1012 BLACK	EQU 0000H
0000		=1 1013 RED	EQU 0D00H
0F40		=1 1014 ORANGE	EQU 0F40H
0F60		=1 1015 YELLOW	EQU 0F60H
0FF0		=1 1016 LTYELLOW	EQU 0FF0H
0490		=1 1017 LTGREEN	EQU 0490H
0470		=1 1018 DKGREEN	EQU 0470H
007A		=1 1019 LTBLUE	EQU 007AH
006A		=1 1020 NDBLUE	EQU 006AH
0047		=1 1021 DKBLUE	EQU 0047H
0F0F		=1 1022 LTPURPLE	EQU 0F0FH
0F0A		=1 1023 NDPURPLE	EQU 0F0AH
0C07		=1 1024 DKPURPLE	EQU 0C07H
0999		=1 1025 LTGRAY	EQU 0999H
		=1 1026	
		=1 1027	
		=1 1028 +1 \$EJECT	

LOC	OBJ	LINE	SOURCE
		=1 1029	;=====
		=1 1030	
		=1 1031	
		=1 1032	
		=1 1033 ;	=====
		=1 1034 ;	BACKGROUND CHARACTER SELECT CODE
		=1 1035 ;	=====
		=1 1036	
		=1 1037	
		=1 1038 ;	CHARACTER 0 THRU 9 IS CODED AS 0-9
		=1 1039	
000A		=1 1040 A	EQU 0AH
000B		=1 1041 B	EQU 0BH
000C		=1 1042 C	EQU 0CH
000D		=1 1043 D	EQU 0DH
000E		=1 1044 E	EQU 0EH
000F		=1 1045 F	EQU 0FH
001A		=1 1046 G	EQU 1AH
001B		=1 1047 H	EQU 1BH
001C		=1 1048 I	EQU 1CH
001D		=1 1049 J	EQU 1DH
001E		=1 1050 K	EQU 1EH
001F		=1 1051 L	EQU 1FH
002A		=1 1052 M	EQU 2AH
002B		=1 1053 N	EQU 2BH
002C		=1 1054 O	EQU 2CH
002D		=1 1055 P	EQU 2DH
002E		=1 1056 Q	EQU 2EH
002F		=1 1057 R	EQU 2FH
003A		=1 1058 S	EQU 3AH
003B		=1 1059 T U	EQU 3BH
003C		=1 1060 V	EQU 3CH
003D		=1 1061 W	EQU 3DH
003E		=1 1062 X	EQU 3EH
003F		=1 1063 Y	EQU 3FH
0057		=1 1064 Z	EQU 57H
005F		=1 1065	EQU 5FH
		=1 1066	
		=1 1067 +1	\$EJECT

LOC	OBJ	LINE	SOURCE		
		=1 1068			
0010		=1 1069	ACTIVE_CODE	EQU	10H ;ANOTHER SET OF 0-9
		=1 1070			
0077		=1 1071	SPACE	EQU	077H ;NEIL'S SPACE CHAR
007F		=1 1072	BACKUP	EQU	07FH ;NEIL'S BACKUP CHAR
0097		=1 1073	PERD	EQU	097H ;PERIOD CHARACTER
009F		=1 1074	APSD	EQU	09FH ;AMPERSAND
00B7		=1 1075	CPRT	EQU	0B7H ;COPYRIGHT CHAR
00BF		=1 1076	XCLM	EQU	0BFH ;EXCLAMATION MARK
00D7		=1 1077	HBAR	EQU	0D7H ;HORIZONTAL BAR
00DF		=1 1078	VBAR	EQU	0DFH ;VERTICAL BAR
00F7		=1 1079	CHAR_SHIP	EQU	0F7H ;SHIP REMAINING CHARACTER
		=1 1080			
0020		=1 1081	R1	EQU	20H ;RANKING NUMBER
0021		=1 1082	R2	EQU	21H ;RANKING NUMBER
0022		=1 1083	R3	EQU	22H ;RANKING NUMBER
0023		=1 1084	R4	EQU	23H ;RANKING NUMBER
0024		=1 1085	R5	EQU	24H ;RANKING NUMBER
0025		=1 1086	R6	EQU	25H ;RANKING NUMBER
0026		=1 1087	R7	EQU	26H ;RANKING NUMBER
0027		=1 1088	R8	EQU	27H ;RANKING NUMBER
0028		=1 1089	R9	EQU	28H ;RANKING NUMBER
0029		=1 1090	R10	EQU	29H ;RANKING NUMBER
0030		=1 1091	R11	EQU	30H ;RANKING NUMBER
0031		=1 1092	R12	EQU	31H ;RANKING NUMBER
0032		=1 1093	R13	EQU	32H ;RANKING NUMBER
0033		=1 1094	R14	EQU	33H ;RANKING NUMBER
0034		=1 1095	R15	EQU	34H ;RANKING NUMBER
0035		=1 1096	R16	EQU	35H ;RANKING NUMBER
0036		=1 1097	R17	EQU	36H ;RANKING NUMBER
0037		=1 1098	R18	EQU	37H ;RANKING NUMBER
0038		=1 1099	R19	EQU	38H ;RANKING NUMBER
0039		=1 1100	R20	EQU	39H ;RANKING NUMBER
		=1 1101			
		=1 1102	;		-----
		=1 1103			
		=1 1104	;		UNPRINTED CHARACTERS
		=1 1105			
-0001		=1 1106	BLNK	EQU	-1
-0002		=1 1107	EOST	EQU	-2
-0003		=1 1108	NEWP	EQU	-3
-0004		=1 1109	CUPP	EQU	-4
-0005		=1 1110	CLFT	EQU	-5
-0006		=1 1111	CDWN	EQU	-6
-0007		=1 1112	CRGT	EQU	-7
		=1 1113			
		=1 1114	+1 \$EJECT		

LOC	OBJ	LINE	SOURCE	
		=1 1115		;-----
		=1 1116		
		=1 1117		; SOUND CODE EQUATES (VERSION 0 09/15/82)
		=1 1118		
-002D		=1 1119	SC_STOP	EQU NOT(44) ;STOP BACKGROUND SOUND CODE
		=1 1120		
-002D		=1 1121	SC_NOMUSIC	EQU NOT(44) ;TURN OFF MUSIC CODE
004D		=1 1122	SP_NOMUSIC	EQU 77 ;ABSOLUTE PRIORITY
0001		=1 1123	ST_NOMUSIC	EQU 1 ;ONE FRAME ONLY
		=1 1124		
-0012		=1 1125	SC_COIN	EQU NOT(17) ;COIN SOUND CODE
000F		=1 1126	SP_COIN	EQU 15 ;COIN SOUND PRIORITY
0023		=1 1127	ST_COIN	EQU 35 ;COIN SOUND TIMER
		=1 1128		
-0007		=1 1129	SC_EXSHIP	EQU NOT(06) ;EXTRA SHIP SOUND CODE
000E		=1 1130	SP_EXSHIP	EQU 14 ;EXTRA SHIP SOUND PRIORITY
003C		=1 1131	ST_EXSHIP	EQU 60 ;EXTRA SHIP TIMER
		=1 1132		
-000A		=1 1133	SC_ROUND	EQU NOT(09) ;ROUND SOUND CODE
000B		=1 1134	SP_ROUND	EQU 11 ;ROUND SOUND PRIORITY
001E		=1 1135	ST_ROUND	EQU 30 ;ROUND SOUND TIMER
		=1 1136		
-0005		=1 1137	SC_MEXP	EQU NOT(04) ;MEXP SOUND CODE
000A		=1 1138	SP_MEXP	EQU 10 ;MEXP SOUND PRIORITY
00B4		=1 1139	ST_MEXP	EQU 180 ;MEXP SOUND TIMER
		=1 1140		
-0013		=1 1141	SC_MSPIN	EQU NOT(18) ;MSPIN SOUND CODE
0009		=1 1142	SP_MSPIN	EQU 09 ;MSPIN SOUND PRIORITY
0078		=1 1143	ST_MSPIN	EQU 120 ;MSPIN SOUND TIMER
		=1 1144		
-0008		=1 1145	SC_COMET	EQU NOT(10) ;COMET SOUND CODE
0008		=1 1146	SP_COMET	EQU 08 ;COMET SOUND PRIORITY
002D		=1 1147	ST_COMET	EQU 45 ;COMET SOUND TIMER
		=1 1148		
-0004		=1 1149	SC_KEXP	EQU NOT(03) ;KEXP SOUND CODE
0007		=1 1150	SP_KEXP	EQU 07 ;KEXP SOUND PRIORITY
003C		=1 1151	ST_KEXP	EQU 60 ;KEXP SOUND TIMER
		=1 1152		
-0029		=1 1153	SC_HENTER	EQU NOT(40) ;HUMAN ENTER
0006		=1 1154	SP_HENTER	EQU 06
0014		=1 1155	ST_HENTER	EQU 20
		=1 1156		
-0015		=1 1157	SC_HPICK	EQU NOT(20) ;HUMAN PICKED UP
0006		=1 1158	SP_HPICK	EQU 06
001E		=1 1159	ST_HPICK	EQU 30
		=1 1160		
-0010		=1 1161	SC_CEXP	EQU NOT(15) ;COMET EXPL SOUND CODE
0005		=1 1162	SP_CEXP	EQU 05 ;COMET EXPL SOUND PRIORITY
0019		=1 1163	ST_CEXP	EQU 25 ;COMET EXPL TIMER
		=1 1164		
-0009		=1 1165	SC_FEXP	EQU NOT(08) ;FEXP SOUND CODE
0004		=1 1166	SP_FEXP	EQU 04 ;FEXP SOUND PRIORITY
0005		=1 1167	ST_FEXP	EQU 5 ;FEXP SOUND TIMER
		=1 1168		
-0009		=1 1169	SC_EEXP	EQU NOT(08) ;EEXP SOUND CODE

LOC	OBJ	LINE	SOURCE	EQU	03	;EEXP SOUND PRIORITY
0003		=1 1170	SP_EEXP	EQU	03	;EEXP SOUND PRIORITY
0005		=1 1171	ST_EEXP	EQU	5	;EEXP SOUND TIMER
		=1 1172				
-0003		=1 1173	SC_BKHIT	EQU	NOT(02)	;BKHIT SOUND CODE
0002		=1 1174	SP_BKHIT	EQU	02	;BKHIT SOUND PRIORITY
0005		=1 1175	ST_BKHIT	EQU	5	;BKHIT SOUND TIMER
		=1 1176				
-0002		=1 1177	SC_EJECT	EQU	NOT(01)	;EJECT SOUND CODE
0002		=1 1178	SP_EJECT	EQU	02	;EJECT SOUND PRIORITY
0006		=1 1179	ST_EJECT	EQU	6	;EJECT SOUND TIMER
		=1 1180				
-0006		=1 1181	SC_TRIGGER	EQU	NOT(05)	;TRIGGER SOUND CODE
0001		=1 1182	SP_TRIGGER	EQU	01	;TRIGGER SOUND PRIORITY
0003		=1 1183	ST_TRIGGER	EQU	03	;TRIGGER SOUND TIMER
		=1 1184				
		=1 1185				
		=1 1186	;-----			
		=1 1187				
		=1 1188	; BACKGROUND SOUND			
		=1 1189				
-000C		=1 1190	SC_BGND1	EQU	NOT(11)	;BACKGROUND SOUND 1
-000D		=1 1191	SC_BGND2	EQU	NOT(12)	;BACKGROUND SOUND 2
-000E		=1 1192	SC_BGND3	EQU	NOT(13)	;BACKGROUND SOUND 3
-000F		=1 1193	SC_BGND4	EQU	NOT(14)	;BACKGROUND SOUND 4
		=1 1194				
		=1 1195				
		=1 1196	;===== END OF MQU.S1 =====			
		=1 1197				
		1198 +1	\$INCLUDE(:F1:MSTRU.C.S1)			
		1199 +1	\$EJECT			

LOC	OBJ	LINE	SOURCE
=1	1200		;===== TO BE INCLUDED FILE (MSTRUCT.S1) =====
=1	1201		
=1	1202		; 7.00 02/28/83 PRODUCTION VERSION 6V-102-0
=1	1203		
=1	1204		
=1	1205		; #####
=1	1206		; STRUCTURE DECLARATIONS
=1	1207		; #####
=1	1208		
=1	1209		
=1	1210		
=1	1211		; 5.13 02/15/83 CTPAR CHANGED BACK WITH PADDING WORD
=1	1212		; 5.12 02/15/83 RKPAPR CHANGED
=1	1213		; 5.11 02/14/83 DUMMY KPPAR ADDED FOR XLIMIT,YLIMIT
=1	1214		; 5.10 01/05/83 KRYPAR CHANGED (ADDED KSAFE)
=1	1215		; 5.09 12/29/82 HUMAN POINT RELATED VARIABLES MOVED TO RPTPAR
=1	1216		; 5.08 12/29/82 HPERD ADDED
=1	1217		; 5.07 12/20/82 HUMANPAR ADDED
=1	1218		
=1	1219		; ----- RELEASE VERSION 05 -----
=1	1220		
=1	1221		; 5.06 12/14/82 RPTPAR INCLUDES COLOR_SET_PTR
=1	1222		; 5.05 12/13/82 COMET GRACPERD AND RECVPERD MADE WORD
=1	1223		; 5.04 12/09/82 NEW VERSION (REDUCED RPTPAR)
=1	1224		
=1	1225		; ----- RELEASE VERSION 04 -----
=1	1226		
=1	1227		; ----- RELEASE VERSION 03 -----
=1	1228		
=1	1229		; 5.03 11/03/82 STATPAR SIZE CHANGED
=1	1230		; 5.02 11/01/82 STATPAR ADDED
=1	1231		
=1	1232		; ----- RELEASE VERSION 02 -----
=1	1233		
=1	1234		; 5.01 10/19/82 RPTPAR CHANGED (NO MIN_KMASS)
=1	1235		; 5.00 10/19/82 NEW CPPAR
=1	1236		
=1	1237		; ----- RELEASE VERSION 01 -----
=1	1238		
=1	1239		; 4.19 10/11/82 FLYEL_LIMIT ADDED INTO RPTPAR
=1	1240		; 4.18 10/11/82 KMASS_MAD ADDED IN RPTPAR
=1	1241		; 4.17 10/05/82 MXDPAR ADDED
=1	1242		; 4.16 10/05/82 MXPPAR ADDED
=1	1243		; 4.15 09/24/82 RPTPAR INCLUDED COMET_BPTR
=1	1244		; 4.14 09/21/82 CPPAR ADDED RPTPAR CHANGED
=1	1245		; 4.13 09/20/82 COMET SPEED ADDED TO RPTPAR
=1	1246		; 4.12 09/19/82 CTPAR CHANGED AGAIN
=1	1247		; 4.11 09/19/82 RPTPAR STRIPPED DUMMY BYTES
=1	1248		; 4.10 09/19/82 RPTPAR CHANGED AGAIN
=1	1249		; 4.09 09/18/82 CTPAR CHANGED
=1	1250		; 4.08 09/17/82 RPTPAR INCORPORATED COMET RELATED VARIABLES
=1	1251		; 4.07 09/17/82 CTPAR ADDED
=1	1252		; 4.06 09/17/82 NEIL'S STRUCTURE-SCORE CHANGED TO 7 DIGITS
=1	1253		; 4.05 09/14/82 ADD KSPEED_MAX AND MIN IN RPTPAR
=1	1254		; 4.04 09/12/82 FIX KPPAR

LOC	OBJ	LINE	SOURCE
		=1 1255	; 4.03 09/11/82 KMRANGE AND KPBRANGE MADE A BYTE DEF
		=1 1256	; 4.02 09/06/82 NEIL'S STRUCTURE REWRITTEN
		=1 1257	; 4.01 09/04/82 NEIL'S HI_SCORE_ENTRY ADDED
		=1 1258	; 4.00 09/03/82 KRYPAR CHANGED
		=1 1259	
		=1 1260	; 1.17 08/31/82 RPTPAR CHANGED
		=1 1261	; 1.16 08/30/82 SEEDPAR CHANGED
		=1 1262	; 1.15 08/29/82 MAX_FLYEL ADDED AT RPTPAR
		=1 1263	; 1.14 08/29/82 ORBPAR CHANGED
		=1 1264	; 1.13 08/28/82 KRYPAR CHANGED
		=1 1265	; 1.12 08/28/82 PKPAR,PACPAR CHANGED
		=1 1266	; 1.11 08/28/82 KRYPAR CHANGED AGAIN
		=1 1267	; 1.10 08/27/82 RPTPAR CHANGED
		=1 1268	; 1.09 08/27/82 BLEN RPTPAR ADDED
		=1 1269	; 1.08 08/27/82 RPTPAR ADDED
		=1 1270	; 1.07 08/26/82 RKPAR ADDED
		=1 1271	; 1.06 08/26/82 KRYPAR CHANGE, SEEDPAR ADDED
		=1 1272	; 1.05 08/24/82 KPPAR CHANGED
		=1 1273	; 1.04 08/19/82 KRYPAR GETS KMRANG
		=1 1274	; 1.03 08/19/82 MORE CHANGES
		=1 1275	; 1.02 08/18/82 PACPAR,KRYPAR,MAGPAR,ELPAR MODIFIED
		=1 1276	; 1.01 08/18/82 PACPAR ADDED
		=1 1277	; 1.00 08/12/82 KPACKFL ADDED
		=1 1278	; 0.03 07/28/82 MACRO DEFINITION REMOVED
		=1 1279	; 0.02 07/21/82 KSTAT DEFAULT VALUE CHANGED
		=1 1280	; 0.01 07/02/82 MSTRU.C.S1 VERSION NUMBER ASSIGNED
		=1 1281	
		=1 1282 +1	\$EJECT

LOC	OBJ	LINE	SOURCE
		=1 1283	
		=1 1284 ;	FOREGROUND REGISTER SLOT IS MADE OF FOLLOWING VARIABLES
		=1 1285	
----		=1 1286 FGPAR	STRUC
		=1 1287	
0000		=1 1288 VPN	DB ?
0001		=1 1289 HPN	DB ?
0002		=1 1290 DSN	DB ?
0003		=1 1291 DUM	DB ?
		=1 1292	
----		=1 1293 FGPAR	ENDS
		=1 1294	
0004		=1 1295 BLEN_FGPAR	EQU 4
		=1 1296	
		=1 1297 ;-----	
		=1 1298	
		=1 1299 ;	ORBIT TABLE STRUCTURE DEFINITION
		=1 1300	
----		=1 1301 ORBPAR	STRUC
		=1 1302	
0000		=1 1303 SLOTN	DB 0
0001		=1 1304 XDISP	DW 0
0003		=1 1305 YDISP	DW 0
		=1 1306	
----		=1 1307 ORBPAR	ENDS
		=1 1308	
0005		=1 1309 BLEN_ORBPAR	EQU 5
		=1 1310	
		=1 1311 ;-----	
		=1 1312	
----		=1 1313 MAGPAR	STRUC
		=1 1314	
0000		=1 1315 MNEXT	DW OFF00H ;00 LINK NEXT
0002		=1 1316 MLAST	DW OFF00H ;02 LINK LAST
0004		=1 1317 MSLLOT	DW 2000H ;04 SLOT(FGND_BUF) PTR
0006		=1 1318 MSIZE	DB 0 ;06 NUM_OBJECTS TOTAL (#4)
0007		=1 1319 MSTSTAT	DB 0 ;07 STATUS FLAG
0008		=1 1320 MVPN	DB 0 ;08 VPN TEMP STORE
0009		=1 1321 MHPN	DB 0 ;09 HPN TEMP STORE
000A		=1 1322 MDSN	DB 0 ;0A DSN TEMP STORE
000B		=1 1323 MTIMER	DB 0 ;0B EVENT TIMER
000C		=1 1324 MTIMER2	DW 0 ;0C MISC TIMER
000E		=1 1325 MACTJMP	DW OFFFOH ;0E ACTION JUMP ADDR PTR
		=1 1326	
0010		=1 1327 MXPOS	DW 0 ;10 X POSITION
0012		=1 1328 MYPOS	DW 0 ;12 Y POSITION
0014		=1 1329 MXVEL	DW 0 ;14 X VELOCITY
0016		=1 1330 MYVEL	DW 0 ;16 Y VELOCITY
0018		=1 1331 MCTR	DB 0 ;18 OLD TIMER USED (TO BE PHASED OUT)
		=1 1332	
----		=1 1333 MAGPAR	ENDS
		=1 1334	
0019		=1 1335 BLEN_MAGPAR	EQU 25
		=1 1336 +1	\$EJECT

LOC	OBJ	LINE	SOURCE			
		=1 1337	;-----			
		=1 1338				
----	KRYPAR	=1 1339	STRUC			
		=1 1340				
0000		=1 1341	KNEXT DW 0FF00H ;LINK NEXT	LINKED	0 ROUND_INIT	
0002		=1 1342	KLAST DW 0FF00H ;LINK LAST	LINKED	0 ROUND_INIT	
0004		=1 1343	KSLOT DW 2000H ;SLOT(FGND_BUF) PTR	LINKED	0 ROUND_INIT	
0006		=1 1344	KSIZE DB 0 ;NUM_OBJECTS TOTAL(\$4)	<-- RND_K_CONST	0 ROUND_INIT	
0007		=1 1345	KEMAX DB 4 ;MAX NUM OF ELECTRONS	<-- RND_K_CONST	0 ROUND_INIT	
		=1 1346				
0008		=1 1347	KEPTR DW 0FF00H ;ELECT DATA AREA PTR	<-- RND_K_CONST	0 ROUND_INIT	
000A		=1 1348	KIPPTR DW 0FF00H ;INITIAL PHASE PTR	<-- RND_K_CONST	0 ROUND_INIT	
000C		=1 1349	KIXPTR DW 0FF00H ;INITIAL EXPLOSION PTR	<-- RND_K_CONST	0 ROUND_INIT	
000E		=1 1350	KMRANG DB 12 ;KMHIT RANGE	<-- RND_K_CONST	0 ROUND_INIT	
000F		=1 1351	KORBIT DW 0FF00H ;ELECT'S INIT TABL PTR	<-- RND_K_CONST	0 ROUND_INIT	
		=1 1352				
0011		=1 1353	KXPOS DW 0 ;X POSITION	<-- SEED_DATA	0 KRYPT_REGEN	
0013		=1 1354	KYPOS DW 0 ;Y POSITION	<-- SEED_DATA	0 KRYPT_REGEN	
0015		=1 1355	KTIMER DB 30 ;EVENT TIMER	<-- IS_TABLE	0 KRYPT_REGEN	
0016		=1 1356	KISTEP DB 3 ;INTERVAL STEP	<-- IS_TABLE	0 KRYPT_REGEN	
0017		=1 1357	KINTVL DB 30 ;INTERVAL (SPSM TIMER)	CALCULATED	0 KRYPT_REGEN	
		=1 1358				
0018		=1 1359	KSAFE DB 5 ;SAFE TIMER (INIT BEFORE USED 0 PUBERT OVER)			
0019		=1 1360	KXVEL DW 0 ;X VELOCITY	:=0	0 KRYPT_REGEN	
001B		=1 1361	KYVEL DW 0 ;Y VELOCITY	:=0	0 KRYPT_REGEN	
001D		=1 1362	KPACKFL DB 0 ;PACKET ACTION FLAG	:=0	0 KRYPT_REGEN	
001E		=1 1363	KSTAT DB 0 ;STATUS BYTE	:=0	0 KRYPT_REGEN	
001F		=1 1364	KFECTR DB 0 ;FLYING ELECT CTR	:=0	0 KRYPT_REGEN	
		=1 1365				
0020		=1 1366	KACTJMP DW 0FFF0H ;ACTION JUMP ADDR PTR	:=OFF_BIRTH_KRY	0 KRYPT_REGEN	
0022		=1 1367	KECTR DB 4 ;NUM OF ELECT LEFT	:=KEMAX	0 KRYPT_REGEN	
0023		=1 1368	KMASS DB 8 ;INITIAL KMASS	:=KMASS_1ST	0 KRYPT_REGEN	
0024		=1 1369	KPPTR DW 0FFF0H ;WORKING PHASE PTR	:=KIPPTR	0 KRYPT_REGEN	
		=1 1370				
----	KRYPAR	=1 1371	ENDS			
		=1 1372				
0026		=1 1373	BLEN_KRYPAR EQU 38			
0007		=1 1374	BLEN_KZERO EQU 7 ;BYTE LENGTH OF ZEROED AREA			
		=1 1375				
		=1 1376 +1 \$EJECT				

LOC	OBJ	LINE	SOURCE
		=1 1377	;-----
		=1 1378	
----		=1 1379	KPPAR STRUC
		=1 1380	
0000		=1 1381	KPXHOME DB 128 ;XHOME OF KRYPTON
0001		=1 1382	KPYHOME DB 128 ;YHOME OF KRYPTON
0002		=1 1383	KPOSN DB 0 ;STARTING OSN
0003		=1 1384	KPNUM DB 1 ;NUMBER OF OBJECTS
0004		=1 1385	KPBRANG DB 10 ;RANGE OF KBHIT RANGE
0005		=1 1386	KPSCORE DW 0FFFFH ;CALL ADDR PTR FOR SCORE
		=1 1387	
----		=1 1388	KPPAR ENDS
		=1 1389	
0007		=1 1390	BLEN_KPPAR EQU 7
		=1 1391	
		=1 1392	;-----
		=1 1393	
----		=1 1394	KIPAR STRUC
		=1 1395	
0000		=1 1396	KIXHOME DB 128 ;XHOME OF KRYPTON
0001		=1 1397	KIYHOME DB 128 ;YHOME OF KRYPTON
0002		=1 1398	KIJOSN DB 0 ;STARTING OSN
0003		=1 1399	KINUM DB 1 ;NUMBER OF OBJECTS
0004		=1 1400	KIBRANG DB 10 ;RANGE OF KBHIT RANGE
0005		=1 1401	KIXLIMIT DB 10 ;XLIMIT DURING INFANT
0006		=1 1402	KIYLIMIT DB 10 ;YLIMIT DURING INFANT
		=1 1403	
----		=1 1404	KIPAR ENDS
		=1 1405	
		=1 1406 +1	\$EJECT

LOC	OBJ	LINE	SOURCE
		=1 1407	;---
		=1 1408	
----		=1 1409	ELPAR STRUC
		=1 1410	
0000		=1 1411	ENEXT DW 0FF00H ;00 LINK NEXT
0002		=1 1412	ELAST DW 0FF00H ;02 LINK LAST
0004		=1 1413	ESLOT DW 2000H ;04 SLOT(FGND_BUF) PTR
0006		=1 1414	ESIZE DB 1 ;06 NUM_OBJECTS TOTAL
0007		=1 1415	ESTAT DB 0 ;07 STATUS FLAG
		=1 1416	
0008		=1 1417	EVPN DB 0 ;08 VPN TEMP STORE
0009		=1 1418	EHPN DB 0 ;09 HPN TEMP STORE
000A		=1 1419	EDSN DB 0 ;0A DSN TEMP STORE
000B		=1 1420	ETIMER DB 0 ;0B EVENT TIMER
000C		=1 1421	EDRBPTR DW 0 ;0C ORBIT TABLE PTR
000E		=1 1422	EACTJMP DW 0FFF0H ;0E ACTION JUMP ADR PTR
		=1 1423	
0010		=1 1424	EXPOS DW 0 ;10 X POSITION
0012		=1 1425	EYPOS DW 0 ;12 Y POSITION
0014		=1 1426	EXVEL DW 0 ;14 X VELOCITY
0016		=1 1427	EYVEL DW 0 ;16 Y VELOCITY
		=1 1428	
0018		=1 1429	EXMPOS DW 0 ;18 X MID POSITION
001A		=1 1430	EYMPOS DW 0 ;1A Y MID POSITION
001C		=1 1431	EMASS DB 5 ;1C MASS VALUE
		=1 1432	
----		=1 1433	ELPAR ENDS
		=1 1434	
001D		=1 1435	BLEN_ELPAR EQU 29
		=1 1436	
		=1 1437	;---
		=1 1438	
----		=1 1439	BULPAR STRUC
		=1 1440	
0000		=1 1441	BXPOS DW 0
0002		=1 1442	BYPOS DW 0
0004		=1 1443	BXMPOS DW 0
0006		=1 1444	BYMPOS DW 0
		=1 1445	
0008		=1 1446	BXVEL DW 0
000A		=1 1447	BYVEL DW 0
000C		=1 1448	BGLOT DW 0
000E		=1 1449	BSTAT DB 0
000F		=1 1450	BTIMER DB 0
		=1 1451	
----		=1 1452	BULPAR ENDS
		=1 1453	
0010		=1 1454	BLEN_BULPAR EQU 16
		=1 1455	
		=1 1456 +1	\$EJECT

LOC	OBJ	LINE	SOURCE
		=1 1457	;-----
		=1 1458	
----		=1 1459	STARPAR STRUC
		=1 1460	
0000		=1 1461	SCHAR_TIMER DB 1
0001		=1 1462	SPIX_TIMER DB 1
0002		=1 1463	STABLE_PTR DW 0
0004		=1 1464	SPIXEL_PTR DW 0
0006		=1 1465	SPOSITION DW 0
		=1 1466	
----		=1 1467	STARPAR ENDS
		=1 1468	
0008		=1 1469	BLEN_STARPAR EQU 8
		=1 1470	
		=1 1471	;-----
		=1 1472	
----		=1 1473	PACPAR STRUC
		=1 1474	
0000		=1 1475	PNEXT DW OFF00H
0002		=1 1476	PLAST DW OFF00H
0004		=1 1477	PACKET DW 2000H
0006		=1 1478	PSIZE DB 0
		=1 1479	
----		=1 1480	PACPAR ENDS
		=1 1481	
		=1 1482	;-----
		=1 1483	
----		=1 1484	SEEDPAR STRUC
		=1 1485	
0000		=1 1486	SXPOS DW -1
0002		=1 1487	SYPOS DW -1
0004		=1 1488	SXVEL DW -1
0006		=1 1489	SYVEL DW -1
		=1 1490	
----		=1 1491	SEEDPAR ENDS
		=1 1492	
0008		=1 1493	BLEN_SEEDPAR EQU 8
		=1 1494	
		=1 1495 +1	\$EJECT

LOC	OBJ	LINE	SOURCE
		=1 1496	;-----
		=1 1497	
----		=1 1498	RKPAR STRUC
		=1 1499	
0000		=1 1500	RKSIZE DB 40 ;KSIZE
0001		=1 1501	RKEMAX DB 4 ;KEMAX
0002		=1 1502	RKEPTR DW OFFOOH ;KEPTR
0004		=1 1503	RKPTR DW OFFOOH ;KPTR
0006		=1 1504	RKXPTR DW OFFOOH ;KXPTR
0008		=1 1505	RKMRRANG DB 12 ;KMRANG
0009		=1 1506	RKORBIT DW OFFOOH ;KORBIT
		=1 1507	
----		=1 1508	RKPAR ENDS
000B		=1 1509	BLEN_RKPAR EQU 11
		=1 1510	
		=1 1511	;-----
----		=1 1512	
		=1 1513	RPTPAR STRUC
		=1 1514	
0000		=1 1515	RGRACE_PERD DB 60 ;GRACE_PERD
0001		=1 1516	RKEJECT_PERD DB 20 ;KEJECT_PERD
0002		=1 1517	RSPSM_NDEJ_PERD DB 10 ;SPSM_NDEJ_PERD
0003		=1 1518	RRECOV_PERD DB 20 ;RECOV_PERD
0004		=1 1519	REJECT_MASK DW 0FH ;EJECT_MASK
0006		=1 1520	RINF_SPEED_PTR DW OFFOOH ;INF_SPEED_PTR
		=1 1521	
0008		=1 1522	RKMASS_1ST DB 11 ;KMASS_1ST
0009		=1 1523	RKMASS_MAD DB 5 ;KMASS_MAD
000A		=1 1524	REMASS_1ST DB 8 ;EMASS_1ST
000B		=1 1525	RMIN_EMASS DB 3 ;MIN_EMASS
000C		=1 1526	RACCEL_MASK DB 3FH ;ACCEL_MASK
000D		=1 1527	RNUM_KRYPTONS DB 5 ;NUM_KRYPTONS
000E		=1 1528	RKRYPT_TOGO DB 10 ;KRYPT_TOGO
000F		=1 1529	RMAX_FLYEL DB 3 ;MAX NUM FLYEL PER KRYPTON
		=1 1530	
0010		=1 1531	RKSPEED_MAX DB 10 ;MAX KRYPT SPEED
0011		=1 1532	RKSPEED_MIN DB -10 ;MIN KRYPT SPEED
0012		=1 1533	RCOMET_GRACPERD DW 60 ;GRACE PERIOD (AFTER OUT OF SCREEN)
0014		=1 1534	RCOMET_RECVERD DW 120 ;RECOV PERIOD (AFTER SHOT DOWN)
0016		=1 1535	RCOMET_PTR DW OFFOOH ;COMET MASS TABLE POINTER
		=1 1536	
0018		=1 1537	RCOMET_BPTR DW OFFOOH ;COMET BONUS TABLE POINTER
001A		=1 1538	RFLYEL_LIMIT DB 4 ;FLYEL TOTAL LIMIT ON SCREEN
001B		=1 1539	RBGND_SOUND DB 0AAH ;BACKGROUND SOUND CODE OF THE ROUND
001C		=1 1540	RCOLOR_SET_PTR DW 0 ;COLOR SET POINTER
001E		=1 1541	RNUM_HUMANS DB 1 ;NUMBER OF HUMANS AT BONUS ROUND
001F		=1 1542	RHUMAN_PNTOBJ DB 0P300 ;POINT OBJECT NUMBER
		=1 1543	
0020		=1 1544	RHUMAN_SCORE DW 3 ;300 POINTS
		=1 1545	
----		=1 1546	RPTPAR ENDS
0022		=1 1547	BLEN_RPTPAR EQU 34
		=1 1548	
		=1 1549 +1	*EJECT

LOC	OBJ	LINE	SOURCE
		=1 1550	;-----
		=1 1551	
----		=1 1552	CTPAR STRUC
		=1 1553	
0000		=1 1554	ICPOS DW 0AAAAH ;INITIAL COMET A POSITION
0002		=1 1555	IAVEL DW 0AAAAH ;INITIAL COMET A VELOCITY
0004		=1 1556	IBVEL DW 0AAAAH ;INITIAL COMET B VELOCITY
0006		=1 1557	IXXXX DW 0 ;DUMMY PLACE HOLDER (YOU NEED THIS)
		=1 1558	
----		=1 1559	CTPAR ENDS
		=1 1560	
		=1 1561	;-----
		=1 1562	
----		=1 1563	CPPAR STRUC
		=1 1564	
0000		=1 1565	CHASS1ST DB 13 ;COMET FIRST MASS
0001		=1 1566	CHASSMIN DB 8 ;COMET MIN MASS
0002		=1 1567	CFRAME DB 14 ;COMET MASS CHANGE FRAMES
		=1 1568	
----		=1 1569	CPPAR ENDS
		=1 1570	
0003		=1 1571	BLEN_CPPAR EQU 3
		=1 1572	
		=1 1573	;-----
		=1 1574	
----		=1 1575	MXPPAR STRUC
		=1 1576	
0000		=1 1577	XXVEL DW 0AAAAH ;EXPLODING MAGNA DEBRIS XVEL
0002		=1 1578	YYVEL DW 0AAAAH ;EXPLODING MAGNA DEBRIS YVEL
0004		=1 1579	XXHOME DB 0BOH ;EXPLODING MAGNA DEBRIS XHOME
0005		=1 1580	YYHOME DB 0BOH ;EXPLODING MAGNA DEBRIS YHOME
		=1 1581	
----		=1 1582	MXPPAR ENDS
		=1 1583	
0006		=1 1584	BLEN_MXPPAR EQU 6
		=1 1585	
		=1 1586	;-----
		=1 1587	
----		=1 1588	MXDPAR STRUC
		=1 1589	
0000		=1 1590	XXPOS DW 0AAAAH ;EXPLODING MAGNA DEBRIS XPOS
0002		=1 1591	XYPOS DW 0AAAAH ;EXPLODING MAGNA DEBRIS YPOS
		=1 1592	
----		=1 1593	MXDPAR ENDS
		=1 1594	
0004		=1 1595	BLEN_MXDPAR EQU 4
		=1 1596	
		=1 1597	+1 \$EJECT

LOC	OBJ	LINE	SOURCE
		=1 1598	;-----
		=1 1599	
----		=1 1600	STATPAR STRUC
		=1 1601	
0000		=1 1602	STATCTR DW 20 DUP (?) ;20 COUNTERS
0028		=1 1603	HIGHL DW ? ;HIGHEST 32 BIT
002A		=1 1604	HIGHH DW ?
002C		=1 1605	LOWL DW ? ;LOWEST 32 BIT
002E		=1 1606	LOWH DW ?
0030		=1 1607	SUML DW ? ;SUM FOR AVERAGING 32 BIT
0032		=1 1608	SUMH DW ?
0034		=1 1609	NUMSUM DW ? ;NUMBER OF PLAYS FOR THE SUM
0036		=1 1610	CHECKER DW ? ;CHECKSUM WORD OF THE ABOVE
		=1 1611	
----		=1 1612	STATPAR ENDS
		=1 1613	
0036		=1 1614	BLEN_DTABLE EQU 54 ;NUMBER OF BYTES FOR CHECKSUM
		=1 1615	
		=1 1616	;-----
		=1 1617	
----		=1 1618	HUMANPAR STRUC
		=1 1619	
0000		=1 1620	HXPOS DW ?
0002		=1 1621	HYPOS DW ?
0004		=1 1622	HXVEL DW ?
0006		=1 1623	HYVEL DW ?
		=1 1624	
0008		=1 1625	HXACC DW ?
000A		=1 1626	HYACC DW ?
000C		=1 1627	HACTJMP DW ?
000E		=1 1628	HPTR DW ?
		=1 1629	
0010		=1 1630	HTIMER DB ?
0011		=1 1631	HMODE DB ?
0012		=1 1632	HOSN DB ?
0013		=1 1633	HPERD DB ?
		=1 1634	
		=1 1635	
----		=1 1636	HUMANPAR ENDS
		=1 1637	
0014		=1 1638	BLEN_HUMANPAR EQU 20
		=1 1639	
		=1 1640 +1	\$EJECT

LOC	OBJ	LINE	SOURCE
		=1 1641	;-----
		=1 1642	
		=1 1643	; NEIL'S STRUCTURE
		=1 1644	
		=1 1645	; THE STRUCTURE FOR THE HIGH SCORE TABLE
		=1 1646	
----		=1 1647	HI_SCORE_ENTRY STRUC
		=1 1648	
0000		=1 1649	LOC DB NEWP
0001		=1 1650	LOCX1 DB ?
0002		=1 1651	LOCX2 DB ?
0003		=1 1652	SCORE DB CRGT
0004		=1 1653	SCOREX1 DB CRGT
0005		=1 1654	SCOREX2 DB CRGT
0006		=1 1655	SCOREX3 DB ?
0007		=1 1656	SCOREX4 DB ?
0008		=1 1657	SCOREX5 DB ?
0009		=1 1658	SCOREX6 DB ?
000A		=1 1659	SCOREX7 DB CRGT
000B		=1 1660	INITIAL DB ?
000C		=1 1661	INITIALX1 DB ?
000D		=1 1662	INITIALX2 DB ?
		=1 1663	
----		=1 1664	HI_SCORE_ENTRY ENDS
		=1 1665	
		=1 1666	
		=1 1667	;===== END OF INCLUDED FILE "MSTRUCT.S1"=====
		=1 1668	
		1669	
		1670 +1	\$EJECT

LOC	OBJ	LINE	SOURCE
1671			;=====
1672			
1673		;	SYMBOL DECLARATIONS
1674			
1675			
1676		PUBLIC ACTIVE_VAR	;BYTE
1677		PUBLIC ACTIVE_KRYPT_CTR	;BYTE
1678		PUBLIC ACTIVITY_FL	;BYTE
1679		PUBLIC ACTIVITY_BUF	;WORD
1680		PUBLIC ACTIVITY_PTR	;WORD
1681		PUBLIC ACTIVITY_PTRA	;WORD
1682		PUBLIC ACTIVITY_PTRB	;WORD
1683		PUBLIC ACTIVITY_TIME	;WORD
1684		PUBLIC ACTIVITY_DATA	;WORD
1685		PUBLIC ACTIVITY_DATAA	;WORD
1686		PUBLIC ACTIVITY_DATAB	;WORD
1687		PUBLIC ACTIVITY_CHKSUM	;WORD
1688		PUBLIC ACTIVITY_CHKSUMA	;WORD
1689		PUBLIC ACTIVITY_CHKSUMB	;WORD
1690		PUBLIC ADV_ROUND_FL	;BYTE
1691		PUBLIC AGAIN_TIMER	;BYTE
1692		PUBLIC ANIMATOR	;WORD
1693		PUBLIC ANIM_CTR	;BYTE
1694		PUBLIC ANIM_PTR	;WORD
1695		PUBLIC BAD_MEM_FL	;BYTE
1696		PUBLIC BGND_REG	;BYTE
1697		PUBLIC BGND_SOUND	;BYTE
1698		PUBLIC BGND_CHARGEN	;BYTE
1699		PUBLIC BONUS_FL	;BYTE
1700		PUBLIC BONUS_RESET_FL	;BYTE
1701		PUBLIC BLEN_ACTIVE_VAR	;ABS
1702		PUBLIC BLEN_GAMEINIT_VAR	;ABS
1703		PUBLIC BLEN_RND_CLR	;ABS
1704		PUBLIC BLEN_REMAIN_RAM	;ABS
1705		PUBLIC BLEN_VARIABLES	;ABS
1706		PUBLIC BLEN_SWAP	;ABS
1707		PUBLIC BLEN_SCRATCH_PAD	;ABS
1708		PUBLIC BULLET_CTR	;BYTE
1709		PUBLIC BULLET_DATA	;BULPAR
1710		PUBLIC BULLET_LIFE	;BYTE
1711		PUBLIC CANIM_FL	;BYTE
1712		PUBLIC CANIM_TIMER	;BYTE
1713		PUBLIC CANIM_COLOR	;WORD
1714		PUBLIC COMET_ANGLE	;BYTE
1715		PUBLIC COMET_ACTJMP	;WORD
1716		PUBLIC COMET_DATA	;BYTE
1717		PUBLIC COMET_DIR_FL	;BYTE
1718		PUBLIC COMET_FIGPTR	;WORD
1719		PUBLIC COMET_PNTPTR	;WORD
1720		PUBLIC COMET_MASS	;BYTE
1721		PUBLIC COMET_XPOS	;WORD
1722		PUBLIC COMET_YPOS	;WORD
1723		PUBLIC COMET_XVEL	;WORD
1724		PUBLIC COMET_YVEL	;WORD
1725		PUBLIC COMET_SCORE2	;BYTE

LOC	OBJ	LINE	SOURCE	
		1726	PUBLIC COMET_SCORE3	;BYTE
		1727	PUBLIC COMET_TIMER	;WORD
		1728	PUBLIC COMET_RECVPERD	;WORD
		1729	PUBLIC COMET_GRACPERD	;WORD
		1730	PUBLIC COMET_PTR	;WORD
		1731	PUBLIC COMET_BPTR	;WORD
		1732	PUBLIC COM_SPIN_TIMER	;BYTE
		1733	PUBLIC COLOR_CYCLE_CTR	;WORD
		1734	PUBLIC COLOR_SET_PTR	;WORD
		1735	PUBLIC COLOR_REG_BUF	;WORD
		1736	PUBLIC COLOR_REG_BUF_I	;WORD
		1737	PUBLIC COLOR_REG	;WORD
		1738	PUBLIC COIN_FL	;BYTE
		1739	PUBLIC COIN_TIMER	;BYTE
		1740	PUBLIC CTRL_BYTE	;BYTE
		1741	PUBLIC CR_PR_GM	;BYTE
		1742	PUBLIC CR_PR_CN	;BYTE
		1743	PUBLIC CREG0	;WORD
		1744	PUBLIC CREG1	;WORD
		1745	PUBLIC CREG2	;WORD
		1746	PUBLIC CREG3	;WORD
		1747	PUBLIC CREG4	;WORD
		1748	PUBLIC CREG5	;WORD
		1749	PUBLIC CREG6	;WORD
		1750	PUBLIC CREG7	;WORD
		1751	PUBLIC CREG8	;WORD
		1752	PUBLIC CREG9	;WORD
		1753	PUBLIC CREGA	;WORD
		1754	PUBLIC CREGB	;WORD
		1755	PUBLIC CREGC	;WORD
		1756	PUBLIC CREGD	;WORD
		1757	PUBLIC CREGE	;WORD
		1758	PUBLIC CREGF	;WORD
		1759	PUBLIC CUTOFF_TIMER	;WORD
		1760	PUBLIC DIAL_VALUE	;BYTE
		1761	PUBLIC DIAL_DIR_FL	;BYTE
		1762	PUBLIC DIFF_SET	;BYTE
		1763	PUBLIC DT_KSPEED_CTR	;WORD
		1764	PUBLIC DT_KMASS_CTR	;WORD
		1765	PUBLIC DTIMES	;STATPAR
		1766	PUBLIC DTIMESA	;STATPAR
		1767	PUBLIC DTIMESB	;STATPAR
		1768	PUBLIC DSCORE	;STATPAR
		1769	PUBLIC DSCOREA	;STATPAR
		1770	PUBLIC DSCOREB	;STATPAR
		1771	PUBLIC DROUND	;STATPAR
		1772	PUBLIC DROUNDA	;STATPAR
		1773	PUBLIC DROUND8	;STATPAR
		1774	PUBLIC EACCEL_MASK	;BYTE
		1775	PUBLIC EJECT_MASK	;WORD
		1776	PUBLIC ELECT0_DATA	;ELPAR
		1777	PUBLIC ELECT1_DATA	;ELPAR
		1778	PUBLIC ELECT2_DATA	;ELPAR
		1779	PUBLIC ELECT3_DATA	;ELPAR
		1780	PUBLIC ELECT4_DATA	;ELPAR

LOC	OBJ	LINE	SOURCE	
		1781	PUBLIC ELECT_CTR	;BYTE
		1782	PUBLIC EMASS_1ST	;BYTE
		1783	PUBLIC EXTRAB_DEB_FL	;BYTE
		1784	PUBLIC EXTRAH_SET	;BYTE
		1785	PUBLIC EXTRAL_SET	;BYTE
		1786	PUBLIC FRAME_CTR	;BYTE
		1787	PUBLIC FGND_REG	;FGPAR
		1788	PUBLIC FGND_REG_BUF	;FGPAR
		1789	PUBLIC FGND_ACTIVE_SLOT	;FGPAR
		1790	PUBLIC FGND_BULLET_SLOT	;FGPAR
		1791	PUBLIC FGND_COMET_SLOT	;FGPAR
		1792	PUBLIC FGND_HUMAN_SLOT	;FGPAR
		1793	PUBLIC FGND_SEED_SLOT	;FGPAR
		1794	PUBLIC FLYEL_CTR	;BYTE
		1795	PUBLIC FLYEL_LIMIT	;BYTE
		1796	PUBLIC FRESH_RND_FL	;BYTE
		1797	PUBLIC GAME_CREDIT	;BYTE
		1798	PUBLIC GAME_CREDITX	;BYTE
		1799	PUBLIC GAMEINIT_VAR	;BYTE
		1800	PUBLIC GOVER_CTR	;WORD
		1801	PUBLIC GRACE_PERD	;BYTE
		1802	PUBLIC HALF_CREDIT	;BYTE
		1803	PUBLIC HALF_CREDITX	;BYTE
		1804	PUBLIC HEADER	;PACPAR
		1805	PUBLIC HOUR_FL	;BYTE
		1806	PUBLIC HUMAN_DATA	;HUMANPAR
		1807	PUBLIC HUMAN_CTR	;BYTE
		1808	PUBLIC HUMAN_FL	;BYTE
		1809	PUBLIC HUMAN_BUSY_FL	;BYTE
		1810	PUBLIC HUMAN_PNTOBJ	;BYTE
		1811	PUBLIC HUMAN_PNTPTR	;WORD
		1812	PUBLIC HUMAN_SCORE2	;BYTE
		1813	PUBLIC HUMAN_SCORE3	;BYTE
		1814	PUBLIC HUMAN_TOOKOFF_FL	;BYTE
		1815	PUBLIC HUMAN_NOW_FL	;BYTE
		1816	PUBLIC INT_DIV_ERROR	;WORD
		1817	PUBLIC INT_SINGLE_STEP	;WORD
		1818	PUBLIC INT_NMI	;WORD
		1819	PUBLIC INT_BREAK_POINT	;WORD
		1820	PUBLIC INT_OVERFLOW	;WORD
		1821	PUBLIC INT_RESERVED	;WORD
		1822	PUBLIC INITIMEOUT	;BYTE
		1823	PUBLIC INITIMER	;BYTE
		1824	PUBLIC JOYSTICK	;WORD
		1825	PUBLIC JS_VALUE	;BYTE
		1826	PUBLIC KEEPMPOS_FL	;BYTE
		1827	PUBLIC KILL_TODO	;BYTE
		1828	PUBLIC KILLER_KRYPT_FL	;BYTE
		1829	PUBLIC KILL_TIMER	;WORD
		1830	PUBLIC KMASS_1ST	;BYTE
		1831	PUBLIC KMASS_MAD	;BYTE
		1832	PUBLIC KVPN	;BYTE
		1833	PUBLIC KHPN	;BYTE
		1834	PUBLIC KEJECT_PERD	;BYTE
		1835	PUBLIC KJOB_FL	;BYTE

LOC	OBJ	LINE	SOURCE	
		1836	PUBLIC KRYPT_TODO	;BYTE
		1837	PUBLIC KRYPTO_DATA	;KRYPTPAR
		1838	PUBLIC KRYPT1_DATA	;KRYPTPAR
		1839	PUBLIC KRYPT2_DATA	;KRYPTPAR
		1840	PUBLIC KRYPT3_DATA	;KRYPTPAR
		1841	PUBLIC KRYPT4_DATA	;KRYPTPAR
		1842	PUBLIC KSPEED_MAX	;BYTE
		1843	PUBLIC KSPEED_MIN	;BYTE
		1844	PUBLIC KSPEED_CONT	;BYTE
		1845	PUBLIC KXOBJECT	;WORD
		1846	PUBLIC KRYPT_CTR	;BYTE
		1847	PUBLIC INF_SPEED_PTR	;BYTE
		1848	PUBLIC LEAP_SEC_CTR	;BYTE
		1849	PUBLIC MIN_EMASS	;BYTE
		1850	PUBLIC MASTER_CLK	;WORD
		1851	PUBLIC MAGNA_DATA	;MAGPAR
		1852	PUBLIC MEXP_EX_TIMER	;BYTE
		1853	PUBLIC MAX_FLYEL	;BYTE
		1854	PUBLIC MSG_DISP_POS	;WORD
		1855	PUBLIC NMI_CAME_FL	;BYTE
		1856	PUBLIC MXOBJ_CTR	;BYTE
		1857	PUBLIC MX_PERDPTR	;WORD
		1858	PUBLIC MX_OSNPTR	;WORD
		1859	PUBLIC MEXP_DATA	;MXDPAR
		1860	PUBLIC NASTY_COMET_FL	;BYTE
		1861	PUBLIC NO_MORE_SHIP_FL	;BYTE
		1862	PUBLIC NUM_COINS	;WORD
		1863	PUBLIC NUM_KRYPTONS	;WORD
		1864	PUBLIC NUM_SHIPS	;BYTE
		1865	PUBLIC NUM_SHIPS_I	;BYTE
		1866	PUBLIC NUM_HUMANS	;BYTE
		1867	PUBLIC ORB_ADV_FL	;BYTE
		1868	PUBLIC OUTPORT	;BYTE
		1869	PUBLIC ORB_CYCLE	;BYTE
		1870	PUBLIC PARM5	;BYTE
		1871	PUBLIC PCHK	;WORD
		1872	PUBLIC PFIN	;BYTE
		1873	PUBLIC PERFECT_FL	;BYTE
		1874	PUBLIC PERFECT_TIMER	;BYTE
		1875	PUBLIC PERF_DISP_FL	;BYTE
		1876	PUBLIC PERF_SOUND_CTR	;BYTE
		1877	PUBLIC PERF_SOUND_TIMER	;BYTE
		1878	PUBLIC PLAYER_ID	;BYTE
		1879	PUBLIC PLAY_TIME_FL	;BYTE
		1880	PUBLIC PLAY_TIME	;WORD
		1881	PUBLIC PLAY_TIME_I	;WORD
		1882	PUBLIC POWER_OFF_FL	;BYTE
		1883	PUBLIC PANEL	;BYTE
		1884	PUBLIC QUE_PTR	;WORD
		1885	PUBLIC QUE_FL	;BYTE
		1886	PUBLIC QUE_TABLE	;BYTE
		1887	PUBLIC RANDOM	;WORD
		1888	PUBLIC RECOV_PERD	;BYTE
		1889	PUBLIC REMAIN_RAM	;BYTE
		1890	PUBLIC ROUND_STAY_CLK	;WORD

LOC	OBJ	LINE	SOURCE	
		1891	PUBLIC ROUND_CTR	;BYTE
		1892	PUBLIC ROUND_CTR_I	;BYTE
		1893	PUBLIC RND_CLR_AREA	;BYTE
		1894	PUBLIC RPT_PTR	;WORD
		1895	PUBLIC RPT_VAR	;BYTE
		1896	PUBLIC SAME_PLAYER_FL	;BYTE
		1897	PUBLIC SCRATCH_PAD	;BYTE
		1898	PUBLIC SCORE_ADR_A	;WORD
		1899	PUBLIC SCORE_ADR_I	;WORD
		1900	PUBLIC SCORE0	;BYTE
		1901	PUBLIC SCORE1	;BYTE
		1902	PUBLIC SCORE2	;BYTE
		1903	PUBLIC SCORE3	;BYTE
		1904	PUBLIC SCORE4	;BYTE
		1905	PUBLIC SCORE5	;BYTE
		1906	PUBLIC SCORE6	;BYTE
		1907	PUBLIC SCORE7	;BYTE
		1908	PUBLIC SCORE7_I	;BYTE
		1909	PUBLIC SEED_DATA	;SEEDPAR
		1910	PUBLIC SEED_END	;BYTE
		1911	PUBLIC SEED_PTR	;WORD
		1912	PUBLIC SEED_MUX_CTR	;BYTE
		1913	PUBLIC SHIP_SET	;BYTE
		1914	PUBLIC SHOTGUN_CTR	;BYTE
		1915	PUBLIC SIMULATE_FL	;BYTE
		1916	PUBLIC SIMU_ENTRY_FL	;BYTE
		1917	PUBLIC SPIN_CTR	;BYTE
		1918	PUBLIC SPIN_DIR	;BYTE
		1919	PUBLIC STORE_VAR	;BYTE
		1920	PUBLIC SPSM_NOEJ_PERD	;BYTE
		1921	PUBLIC STACK_BOTTOM	;WORD
		1922	PUBLIC STAR_DIR_FL	;BYTE
		1923	PUBLIC STAR_DUST_FL	;BYTE
		1924	PUBLIC STAR_DATA	;STARPAR
		1925	PUBLIC SSW0	;BYTE
		1926	PUBLIC SOUND_OUT	;BYTE
		1927	PUBLIC SOUND_CODE	;BYTE
		1928	PUBLIC SOUND_PRIOR	;BYTE
		1929	PUBLIC SOUND_TIMER	;WORD
		1930	PUBLIC SOUND_FL	;BYTE
		1931	PUBLIC SCREEN_CTRL	;BYTE
		1932	PUBLIC TABLE_DATUM	;WORD
		1933	PUBLIC TARG3	;BYTE
		1934	PUBLIC TARG4	;BYTE
		1935	PUBLIC TARG5	;BYTE
		1936	PUBLIC TARG6	;BYTE
		1937	PUBLIC TARG7	;BYTE
		1938	PUBLIC TEMP_CTR	;WORD
		1939	PUBLIC TEMP_CTR2	;WORD
		1940	PUBLIC TEMP_STACK	;WORD
		1941	PUBLIC TBALL_CLR	;BYTE
		1942	PUBLIC TBALLX	;BYTE
		1943	PUBLIC TBALLY	;BYTE
		1944	PUBLIC TWO_PLAYER_FL	;BYTE
		1945	PUBLIC VARIABLES	;BYTE

LOC	OBJ	LINE	SOURCE
		1946	PUBLIC WATCHDOG ;BYTE
		1947	PUBLIC WARRENO ;WORD
		1948	PUBLIC WARREN1 ;WORD
		1949	PUBLIC WARREN2 ;WORD
		1950	PUBLIC WARREN3 ;WORD
		1951	PUBLIC WARREN4 ;WORD
		1952	PUBLIC WARREN5 ;WORD
		1953	PUBLIC WARREN6 ;WORD
		1954	PUBLIC WARREN7 ;WORD
		1955	PUBLIC WARREN8 ;WORD
		1956	PUBLIC WARREN9 ;WORD
		1957	PUBLIC WLEN_ACTIVE_SLOT ;ABS
		1958	
		1959	
		1960	EXTRN INT_MSG:NEAR
		1961	
		1962 +1	\$EJECT

LOC	OBJ	LINE	SOURCE
1963			=====
1964			
1965		:	NEIL'S VARIABLES PUBLICS
1966			
1967			PUBLIC ATT_LP_CTR
1968			PUBLIC BOX_XPOS
1969			PUBLIC BOX_YPOS
1970			PUBLIC FLASH_FL
1971			PUBLIC FLASH_ON
1972			PUBLIC FLASH_ON_PTR
1973			PUBLIC HS_FL
1974			PUBLIC INIT_COUNT
1975			PUBLIC NEW_INITS
1976			PUBLIC NEIL_CTR
1977			PUBLIC NEIL_CTR2
1978			PUBLIC NEIL_CTR3
1979			PUBLIC NEIL_CTR4
1980			PUBLIC NEIL_X1
1981			PUBLIC NEIL_X2
1982			PUBLIC NEIL_X3
1983			PUBLIC NUM_FLASHING
1984			PUBLIC NUM_FLASH
1985			PUBLIC HS_PLYR_NUM
1986			PUBLIC KEEP_FIVE_FL
1987			PUBLIC MEM_VALID_FL
1988			PUBLIC CHKSUM
1989			PUBLIC CHKSUM2
1990			PUBLIC HSE
1991			PUBLIC HSEA
1992			PUBLIC HSEB
1993			PUBLIC CHKSUMA
1994			PUBLIC CHKSUMB
1995			PUBLIC LOGO_XPOS
1996			PUBLIC LOGO_YPOS
1997			PUBLIC FIRST_DATUM_FL
1998			PUBLIC TABLE_FULL_FL
1999			PUBLIC TABLE_EMPTY_FL
2000			PUBLIC ATT_TABLE_PTR
2001			PUBLIC ATT_TABLE_CTR
2002			PUBLIC ULTRA_HSE
2003			PUBLIC ULTRA_HSE_FL
2004			PUBLIC ULTRA
2005			
2006			
2007	+1		\$EJECT

LOC	OBJ	LINE	SOURCE
		2008	;=====
		2009	
		2010	
		2011	; =====
		2012	; INTERRUPT VECTOR TABLE
		2013	; =====
		2014	
		2015	; THIS AREA WILL BE INITIALIZED BY SYSTEM_INIT
		2016	AND FREQUENTLY RELOADED TO THE AREA AT EVERY ENTRY POINT
		2017	OF THE WHOLE GAME PROGRAM.
		2018	
		2019	;-----
		2020	
		2021	
0000 0000	E	2022	INT_DIV_ERROR DW OFFSET INT_MSG
0002 0000		2023	DW 0
0004 0000	E	2024	INT_SINGLE_STEP DW OFFSET INT_MSG
0006 0000		2025	DW 0
0008 FFFF		2026	INT_NMI DW 0FFF0H
000A 0000		2027	DW 0
000C 0000	E	2028	INT_BREAK_POINT DW OFFSET INT_MSG
000E 0000		2029	DW 0
0010 0000	E	2030	INT_OVERFLOW DW OFFSET INT_MSG
0012 0000		2031	DW 0
0014 0000	E	2032	INT_RESERVED DW OFFSET INT_MSG
0016 0000		2033	DW 0
0018 0000	E	2034	DW OFFSET INT_MSG
001A 0000		2035	DW 0
001C 0000	E	2036	DW OFFSET INT_MSG
001E 0000		2037	DW 0
		2038	
		2039	
		2040 +1	\$EJECT

LOC	OBJ	LINE	SOURCE
		2041	;=====
		2042	
		2043	
		2044	; =====
		2045	; PERMANENT VARIABLE AREA
		2046	; =====
		2047	
		2048	
		2049	; THIS AREA CONTAINS PERMANENT VARIABLES.
		2050	
		2051	; ALL VARIABLES IN THIS AREA ARE CHECKED AGAINST UNINTENDED CHANGE BY
		2052	CHECKSUM WORDS.
		2053	
		2054	;=====
		2055	
0020		2056	REMAIN_RAM LABEL BYTE
		2057	
		2058	; ACTIVITY RATE RELATED VARIABLES
		2059	
0020 ?????		2060	MASTER_CLK DW ? ;TOTAL ELAPSED TIME (UP TO 3600 SEC)
0022 ?????		2061	ACTIVITY_TIME DW ? ;BUSY TIME (PORTION OF TOTAL ELAPSED)
		2062	
0024 ?????		2063	ACTIVITY_PTR DW ? ;ACTIVITY_DATA QUE POINTER
0026 ?????		2064	ACTIVITY_PTRA DW ? ;SAME
0028 ?????		2065	ACTIVITY_PTRB DW ? ;SAME
		2066	
002A (128 ?????))		2067	ACTIVITY_DATA DW 128 DUP (?) ;128 WORD OF DATA (QUE)
012A ?????		2068	ACTIVITY_CHKSUM DW ? ;CHECKSUM OF THE ABOVE
		2069	
012C (128 ?????))		2070	ACTIVITY_DATAA DW 128 DUP (?)
022C ?????		2071	ACTIVITY_CHKSUMA DW ?
		2072	
022E (128 ?????))		2073	ACTIVITY_DATAB DW 128 DUP (?)
032E ?????		2074	ACTIVITY_CHKSUMB DW ?
		2075	
		2076	
		2077	
		2078	; STATISTICS AREA
		2079	
		2080	; AT EVERY COLD START, THE CONTENTS ARE VERIFIED BY THE CHECKSUM.
		2081	; IF ANY ERROR DETECTED, THE AREA WILL BE CLEARED.
		2082	
		2083	
0330 (20 ?????))		2084	DTIMES STATPAR ()
0358 ?????			
035A ?????			
035C ?????			

LOC	OBJ	LINE	SOURCE
035E	????		
0360	????		
0362	????		
0364	????		
0366	????		
0368 (20		2085	DTIMESA
????			STATPAR <>
)			
0390	????		
0392	????		
0394	????		
0396	????		
0398	????		
039A	????		
039C	????		
039E	????		
03A0 (20		2086	DTIMESB
????			STATPAR <>
)			
03CB	????		
03CA	????		
03CC	????		
03CE	????		
03D0	????		
03D2	????		
03D4	????		
03D6	????		
		2087	
03D8 (20		2088	DSCORE
????			STATPAR <>
)			
0400	????		
0402	????		
0404	????		
0406	????		
0408	????		
040A	????		
040C	????		
040E	????		
0410 (20		2089	DSCOREA
????			STATPAR <>
)			
0438	????		
043A	????		
043C	????		
043E	????		
0440	????		
0442	????		
0444	????		
0446	????		
0448 (20		2090	DSCOREB
????			STATPAR <>
)			
0470	????		
0472	????		

LOC	OBJ	LINE	SOURCE
-----	-----	------	--------

0474	????		
0476	????		
0478	????		
047A	????		
047C	????		
047E	????		
		2091	
0480	(20	2092	DROUND
	????		STATPAR <>
)		
04A8	????		
04AA	????		
04AC	????		
04AE	????		
04B0	????		
04B2	????		
04B4	????		
04B6	????		
04B8	(20	2093	DROUNDA
	????		STATPAR <>
)		
04E0	????		
04E2	????		
04E4	????		
04E6	????		
04E8	????		
04EA	????		
04EC	????		
04EE	????		
04F0	(20	2094	DROUNDB
	????		STATPAR <>
)		
0518	????		
051A	????		
051C	????		
051E	????		
0520	????		
0522	????		
0524	????		
0526	????		
		2095	
		2096	+1 *EJECT

LOC	OBJ	LINE	SOURCE
		2097	;-----
		2098	
		2099	; THIS AREA CONTAINS DIFFICULTY LEVEL SETTING PARAMETERS
		2100	
		2101	; THIS AREA IS PRESET AT COLD_COLD START.
		2102	; THIS AREA CAN BE MODIFIED AT DIAGNOSTIC TIME.
		2103	
0528 ??		2104	GAME_CREDIT DB ? ;ONE OF THE GAME CREDIT HOLDER
0529 ??		2105	HALF_CREDIT DB ? ;0/NO CREDIT, -1/HALF CREDIT
		2106	
052A		2107	PARMS LABEL BYTE
		2108	
052A ??		2109	CR_PR_GM DB ?
052B ??		2110	CR_PR_CN DB ?
052C ??		2111	SHIP_SET DB ?
052D ??		2112	EXTRAH_SET DB ?
052E ??		2113	EXTRAL_SET DB ?
052F ??		2114	DIFF_SET DB ?
		2115	
0530		2116	PFIN LABEL BYTE
		2117	
0530 ?????		2118	PCHK DW ? ;CHECKSUM FOR THE ABOVE VARIABLES
		2119	
0532 ?????		2120	NUM_COINS DW ? ;SOFTWARE COIN METER
		2121	
0534 ??		2122	GAME_CREDITX DB ? ;THE OTHER CREDIT HOLDER
0535 ??		2123	HALF_CREDITX DB ? ;THE OTHER HALF CREDIT HOLDER
		2124	
		2125 +1	\$EJECT

LOC	OBJ	LINE	SOURCE
		2126	;=====
		2127	
		2128	
		2129	; HIGH SCORE TABLE AREA
		2130	
		2131	; THIS AREA IS NEVER CLEARED EXCEPT WHEN THE CHECKSUM
		2132	SHOWS ERROR.
		2133	
		2134	
		2135	
0536	00	2136	MEM_VALID_FL DB 0 ; =0 HI SCORE TABLE BAD
0537	????	2137	
0539	????	2138	CHKSUM DW ? ; HSE'S CHECKSUM
0538	????	2139	CHKSUM2 DW ? ; ULTRA'S CHECKSUM
0530	????	2140	CHKSUMA DW ? ; HSEA'S CHECKSUM
		2141	CHKSUMB DW ? ; HSEB'S CHECKSUM
		2142	
		2143	
		2144	
		2145	+1 \$EJ

LOC	OBJ	LINE	SOURCE
		2146	;-----
		2147	
		2148	; ORIGINAL HSE AREA
		2149	
053F FD		2150	HSE HI_SCORE_ENTRY <> ;0
0540 ??			
0541 ??			
0542 F9			
0543 F9			
0544 F9			
0545 ??			
0546 ??			
0547 ??			
0548 ??			
0549 F9			
054A ??			
054B ??			
054C ??			
054D FD		2151	HI_SCORE_ENTRY <>
054E ??			
054F ??			
0550 F9			
0551 F9			
0552 F9			
0553 ??			
0554 ??			
0555 ??			
0556 ??			
0557 F9			
0558 ??			
0559 ??			
055A ??			
055B FD		2152	HI_SCORE_ENTRY <>
055C ??			
055D ??			
055E F9			
055F F9			
0560 F9			
0561 ??			
0562 ??			
0563 ??			
0564 ??			
0565 F9			
0566 ??			
0567 ??			
0568 ??			
0569 FD		2153	HI_SCORE_ENTRY <>
056A ??			
056B ??			
056C F9			
056D F9			
056E F9			
056F ??			
0570 ??			
0571 ??			

LOC	OBJ	LINE	SOURCE
0572	??		
0573	F9		
0574	??		
0575	??		
0576	??		
0577	FD	2154	HI_SCORE_ENTRY <>
0578	??		
0579	??		
057A	F9		
057B	F9		
057C	F9		
057D	??		
057E	??		
057F	??		
0580	??		
0581	F9		
0582	??		
0583	??		
0584	??		
0585	FD	2155	
0586	??	2156	HI_SCORE_ENTRY <> ;5
0587	??		
0588	F9		
0589	F9		
058A	F9		
058B	??		
058C	??		
058D	??		
058E	??		
058F	F9		
0590	??		
0591	??		
0592	??		
0593	FD	2157	HI_SCORE_ENTRY <>
0594	??		
0595	??		
0596	F9		
0597	F9		
0598	F9		
0599	??		
059A	??		
059B	??		
059C	??		
059D	F9		
059E	??		
059F	??		
05A0	??		
05A1	FD	2158	HI_SCORE_ENTRY <>
05A2	??		
05A3	??		
05A4	F9		
05A5	F9		
05A6	F9		
05A7	??		

LOC	OBJ	LINE	SOURCE
05AB	??		
05A9	??		
05AA	??		
05AB	F9		
05AC	??		
05AD	??		
05AE	??		
05AF	FD	2159	HI_SCORE_ENTRY <>
05B0	??		
05B1	??		
05B2	F9		
05B3	F9		
05B4	F9		
05B5	??		
05B6	??		
05B7	??		
05B8	??		
05B9	F9		
05BA	??		
05BB	??		
05BC	??		
05BD	FD	2160	HI_SCORE_ENTRY <>
05BE	??		
05BF	??		
05C0	F9		
05C1	F9		
05C2	F9		
05C3	??		
05C4	??		
05C5	??		
05C6	??		
05C7	F9		
05C8	??		
05C9	??		
05CA	??		
		2161	
05CB	FD	2162	HI_SCORE_ENTRY <> ;10
05CC	??		
05CD	??		
05CE	F9		
05CF	F9		
05D0	F9		
05D1	??		
05D2	??		
05D3	??		
05D4	??		
05D5	F9		
05D6	??		
05D7	??		
05D8	??		
05D9	FD	2163	HI_SCORE_ENTRY <>
05DA	??		
05DB	??		
05DC	F9		
05DD	F9		

LOC	OBJ	LINE	SOURCE
05DE	F9		
05DF	??		
05E0	??		
05E1	??		
05E2	??		
05E3	F9		
05E4	??		
05E5	??		
05E6	??		
05E7	FD	2164	HI_SCORE_ENTRY <>
05E8	??		
05E9	??		
05EA	F9		
05EB	F9		
05EC	F9		
05ED	??		
05EE	??		
05EF	??		
05F0	??		
05F1	F9		
05F2	??		
05F3	??		
05F4	??		
05F5	FD	2165	HI_SCORE_ENTRY <>
05F6	??		
05F7	??		
05F8	F9		
05F9	F9		
05FA	F9		
05FB	??		
05FC	??		
05FD	??		
05FE	??		
05FF	F9		
0600	??		
0601	??		
0602	??		
0603	FD	2166	HI_SCORE_ENTRY <>
0604	??		
0605	??		
0606	F9		
0607	F9		
0608	F9		
0609	??		
060A	??		
060B	??		
060C	??		
060D	F9		
060E	??		
060F	??		
0610	??		
		2167	
0611	FD	2168	HI_SCORE_ENTRY <> ;15
0612	??		
0613	??		

LOC	OBJ	LINE	SOURCE
0614	F9		
0615	F9		
0616	F9		
0617	??		
0618	??		
0619	??		
061A	??		
061B	F9		
061C	??		
061D	??		
061E	??		
061F	FD	2169	HI_SCORE_ENTRY <>
0620	??		
0621	??		
0622	F9		
0623	F9		
0624	F9		
0625	??		
0626	??		
0627	??		
0628	??		
0629	F9		
062A	??		
062B	??		
062C	??		
062D	FD	2170	HI_SCORE_ENTRY <>
062E	??		
062F	??		
0630	F9		
0631	F9		
0632	F9		
0633	??		
0634	??		
0635	??		
0636	??		
0637	F9		
0638	??		
0639	??		
063A	??		
063B	FD	2171	HI_SCORE_ENTRY <>
063C	??		
063D	??		
063E	F9		
063F	F9		
0640	F9		
0641	??		
0642	??		
0643	??		
0644	??		
0645	F9		
0646	??		
0647	??		
0648	??		
0649	FD	2172	HI_SCORE_ENTRY <>
064A	??		

LOC	OBJ	LINE	SOURCE
064B	??		
064C	F9		
064D	F9		
064E	F9		
064F	??		
0650	??		
0651	??		
0652	??		
0653	F9		
0654	??		
0655	??		
0656	??		
		2173	
0657	FD	2174	HI_SCORE_ENTRY <> ;20
0658	??		
0659	??		
065A	F9		
065B	F9		
065C	F9		
065D	??		
065E	??		
065F	??		
0660	??		
0661	F9		
0662	??		
0663	??		
0664	??		
		2175	
		2176	+1 \$EJ

LOC	OBJ	LINE	SOURCE
		2177	;-----
		2178	
		2179	; ULTRA SCORE TABLE (TODAY'S HI SCORES)
		2180	
0665 FD		2181	ULTRA_HSE HI_SCORE_ENTRY <> ;0
0666 ??			
0667 ??			
0668 F9			
0669 F9			
066A F9			
066B ??			
066C ??			
066D ??			
066E ??			
066F F9			
0670 ??			
0671 ??			
0672 ??			
0673 FD		2182	HI_SCORE_ENTRY <>
0674 ??			
0675 ??			
0676 F9			
0677 F9			
0678 F9			
0679 ??			
067A ??			
067B ??			
067C ??			
067D F9			
067E ??			
067F ??			
0680 ??			
0681 FD		2183	HI_SCORE_ENTRY <>
0682 ??			
0683 ??			
0684 F9			
0685 F9			
0686 F9			
0687 ??			
0688 ??			
0689 ??			
068A ??			
068B F9			
068C ??			
068D ??			
068E ??			
068F FD		2184	HI_SCORE_ENTRY <>
0680 ??			
0691 ??			
0692 F9			
0693 F9			
0694 F9			
0695 ??			
0696 ??			
0697 ??			

LOC	OBJ	LINE	SOURCE
0698	??		
0699	F9		
069A	??		
069B	??		
069C	??		
069D	FD	2185	HI_SCORE_ENTRY <>
069E	??		
069F	??		
06A0	F9		
06A1	F9		
06A2	F9		
06A3	??		
06A4	??		
06A5	??		
06A6	??		
06A7	F9		
06A8	??		
06A9	??		
06AA	??		
06AB	FD	2186	
06AC	??	2187	HI_SCORE_ENTRY <> ;5
06AD	??		
06AE	F9		
06AF	F9		
06B0	F9		
06B1	??		
06B2	??		
06B3	??		
06B4	??		
06B5	F9		
06B6	??		
06B7	??		
06B8	??		
06B9	FD	2188	HI_SCORE_ENTRY <>
06BA	??		
06BB	??		
06BC	F9		
06BD	F9		
06BE	F9		
06BF	??		
06C0	??		
06C1	??		
06C2	??		
06C3	F9		
06C4	??		
06C5	??		
06C6	??		
06C7	FD	2189	HI_SCORE_ENTRY <>
06CB	??		
06C9	??		
06CA	F9		
06CB	F9		
06CC	F9		
06CD	??		

LOC	OBJ	LINE	SOURCE
-----	-----	------	--------

06CE ??			
06CF ??			
06D0 ??			
06D1 F9			
06D2 ??			
06D3 ??			
06D4 ??			
06D5 FD	2190		HI_SCORE_ENTRY <>
06D6 ??			
06D7 ??			
06D8 F9			
06D9 F9			
06DA F9			
06DB ??			
06DC ??			
06DD ??			
06DE ??			
06DF F9			
06E0 ??			
06E1 ??			
06E2 ??			
06E3 FD	2191		HI_SCORE_ENTRY <>
06E4 ??			
06E5 ??			
06E6 F9			
06E7 F9			
06E8 F9			
06E9 ??			
06EA ??			
06EB ??			
06EC ??			
06ED F9			
06EE ??			
06EF ??			
06F0 ??			
06F1 FD	2192		
06F2 ??	2193		HI_SCORE_ENTRY <> ;10
06F3 ??			
06F4 F9			
06F5 F9			
06F6 F9			
06F7 ??			
06F8 ??			
06F9 ??			
06FA ??			
06FB F9			
06FC ??			
06FD ??			
06FE ??			
06FF FD	2194		HI_SCORE_ENTRY <>
0700 ??			
0701 ??			
0702 F9			
0703 F9			

LOC	OBJ	LINE	SOURCE
0704	F9		
0705	??		
0706	??		
0707	??		
0708	??		
0709	F9		
070A	??		
070B	??		
070C	??		
070D	F0	2195	HI_SCORE_ENTRY <>
070E	??		
070F	??		
0710	F9		
0711	F9		
0712	F9		
0713	??		
0714	??		
0715	??		
0716	??		
0717	F9		
0718	??		
0719	??		
071A	??		
071B	F0	2196	HI_SCORE_ENTRY <>
071C	??		
071D	??		
071E	F9		
071F	F9		
0720	F9		
0721	??		
0722	??		
0723	??		
0724	??		
0725	F9		
0726	??		
0727	??		
0728	??		
0729	F0	2197	HI_SCORE_ENTRY <>
072A	??		
072B	??		
072C	F9		
072D	F9		
072E	F9		
072F	??		
0730	??		
0731	??		
0732	??		
0733	F9		
0734	??		
0735	??		
0736	??		
0737	F0	2198	
0738	??	2199	HI_SCORE_ENTRY <> ;15
0739	??		

LOC	OBJ	LINE	SOURCE
073A	F9		
073B	F9		
073C	F9		
073D	??		
073E	??		
073F	??		
0740	??		
0741	F9		
0742	??		
0743	??		
0744	??		
0745	FD	2200	HI_SCORE_ENTRY <>
0746	??		
0747	??		
0748	F9		
0749	F9		
074A	F9		
074B	??		
074C	??		
074D	??		
074E	??		
074F	F9		
0750	??		
0751	??		
0752	??		
0753	FD	2201	HI_SCORE_ENTRY <>
0754	??		
0755	??		
0756	F9		
0757	F9		
0758	F9		
0759	??		
075A	??		
075B	??		
075C	??		
075D	F9		
075E	??		
075F	??		
0760	??		
0761	FD	2202	HI_SCORE_ENTRY <>
0762	??		
0763	??		
0764	F9		
0765	F9		
0766	F9		
0767	??		
0768	??		
0769	??		
076A	??		
076B	F9		
076C	??		
076D	??		
076E	??		
076F	FD	2203	HI_SCORE_ENTRY <>
0770	??		

LOC	OBJ	LINE	SOURCE
0771	??		
0772	F9		
0773	F9		
0774	F9		
0775	??		
0776	??		
0777	??		
0778	??		
0779	F9		
077A	??		
077B	??		
077C	??		
		2204	
077D	FD	2205	HI_SCORE_ENTRY <> ;20
077E	??		
077F	??		
0780	F9		
0781	F9		
0782	F9		
0783	??		
0784	??		
0785	??		
0786	??		
0787	F9		
0788	??		
0789	??		
078A	??		
		2206	
		2207 +1 \$EJECT	

LOC	OBJ	LINE	SOURCE
		2208	;-----
		2209	
		2210	; BACKUP HSE AREA
		2211	
078B FD		2212	HSEA HI_SCORE_ENTRY <> ;0
078C ??			
078D ??			
078E F9			
078F F9			
0790 F9			
0791 ??			
0792 ??			
0793 ??			
0794 ??			
0795 F9			
0796 ??			
0797 ??			
0798 ??			
0799 FD		2213	HI_SCORE_ENTRY <>
079A ??			
079B ??			
079C F9			
079D F9			
079E F9			
079F ??			
07A0 ??			
07A1 ??			
07A2 ??			
07A3 F9			
07A4 ??			
07A5 ??			
07A6 ??			
07A7 FD		2214	HI_SCORE_ENTRY <>
07A8 ??			
07A9 ??			
07AA F9			
07AB F9			
07AC F9			
07AD ??			
07AE ??			
07AF ??			
07B0 ??			
07B1 F9			
07B2 ??			
07B3 ??			
07B4 ??			
07B5 FD		2215	HI_SCORE_ENTRY <>
07B6 ??			
07B7 ??			
07B8 F9			
07B9 F9			
07BA F9			
07BB ??			
07BC ??			
07BD ??			

LOC	OBJ	LINE	SOURCE
07BE ??			
07BF F9			
07C0 ??			
07C1 ??			
07C2 ??			
07C3 FD	2216		HI_SCORE_ENTRY <>
07C4 ??			
07C5 ??			
07C6 F9			
07C7 F9			
07C8 F9			
07C9 ??			
07CA ??			
07CB ??			
07CC ??			
07CD F9			
07CE ??			
07CF ??			
07D0 ??			
07D1 FD	2217	2218	HI_SCORE_ENTRY <> ;5
07D2 ??			
07D3 ??			
07D4 F9			
07D5 F9			
07D6 F9			
07D7 ??			
07D8 ??			
07D9 ??			
07DA ??			
07DB F9			
07DC ??			
07DD ??			
07DE ??			
07DF FD	2219		HI_SCORE_ENTRY <>
07E0 ??			
07E1 ??			
07E2 F9			
07E3 F9			
07E4 F9			
07E5 ??			
07E6 ??			
07E7 ??			
07E8 ??			
07E9 F9			
07EA ??			
07EB ??			
07EC ??			
07ED FD	2220		HI_SCORE_ENTRY <>
07EE ??			
07EF ??			
07F0 F9			
07F1 F9			
07F2 F9			
07F3 ??			

LOC	OBJ	LINE	SOURCE
07F4	??		
07F5	??		
07F6	??		
07F7	F9		
07F8	??		
07F9	??		
07FA	??		
07FB	FD	2221	HI_SCORE_ENTRY <>
07FC	??		
07FD	??		
07FE	F9		
07FF	F9		
0800	F9		
0801	??		
0802	??		
0803	??		
0804	??		
0805	F9		
0806	??		
0807	??		
0808	??		
0809	FD	2222	HI_SCORE_ENTRY <>
080A	??		
080B	??		
080C	F9		
080D	F9		
080E	F9		
080F	??		
0810	??		
0811	??		
0812	??		
0813	F9		
0814	??		
0815	??		
0816	??		
0817	FD	2223	
0818	??	2224	HI_SCORE_ENTRY <> ;10
0819	??		
081A	F9		
081B	F9		
081C	F9		
081D	??		
081E	??		
081F	??		
0820	??		
0821	F9		
0822	??		
0823	??		
0824	??		
0825	FD	2225	HI_SCORE_ENTRY <>
0826	??		
0827	??		
0828	F9		
0829	F9		

LOC	OBJ	LINE	SOURCE
-----	-----	------	--------

082A	F9		
082B	??		
082C	??		
082D	??		
082E	??		
082F	F9		
0830	??		
0831	??		
0832	??		
0833	FD	2226	HI_SCORE_ENTRY <>
0834	??		
0835	??		
0836	F9		
0837	F9		
0838	F9		
0839	??		
083A	??		
083B	??		
083C	??		
083D	F9		
083E	??		
083F	??		
0840	??		
0841	FD	2227	HI_SCORE_ENTRY <>
0842	??		
0843	??		
0844	F9		
0845	F9		
0846	F9		
0847	??		
0848	??		
0849	??		
084A	??		
084B	F9		
084C	??		
084D	??		
084E	??		
084F	FD	2228	HI_SCORE_ENTRY <>
0850	??		
0851	??		
0852	F9		
0853	F9		
0854	F9		
0855	??		
0856	??		
0857	??		
0858	??		
0859	F9		
085A	??		
085B	??		
085C	??		
085D	FD	2229	HI_SCORE_ENTRY <>
085E	??	2230	;15
085F	??		

LOC	OBJ	LINE	SOURCE
0897	??		
0898	F9		
0899	F9		
089A	F9		
089B	??		
089C	??		
089D	??		
089E	??		
089F	F9		
08A0	??		
08A1	??		
08A2	??		
		2235	
08A3	FD	2236	HI_SCORE_ENTRY <> ;20
08A4	??		
08A5	??		
08A6	F9		
08A7	F9		
08A8	F9		
08A9	??		
08AA	??		
08AB	??		
08AC	??		
08AD	F9		
08AE	??		
08AF	??		
08B0	??		
		2237	
		2238 +1 \$EJ	

LOC	OBJ	LINE	SOURCE
		2239	;-----
		2240	
		2241	; ANOTHER BACKUP HSE AREA
		2242	
08B1	FD	2243	HSEB HI_SCORE_ENTRY <0> ;0
08B2	??		
08B3	??		
08B4	F9		
08B5	F9		
08B6	F9		
08B7	??		
08B8	??		
08B9	??		
08BA	??		
08BB	F9		
08BC	??		
08BD	??		
08BE	??		
08BF	FD	2244	HI_SCORE_ENTRY <0>
08C0	??		
08C1	??		
08C2	F9		
08C3	F9		
08C4	F9		
08C5	??		
08C6	??		
08C7	??		
08C8	??		
08C9	F9		
08CA	??		
08CB	??		
08CC	??		
08CD	FD	2245	HI_SCORE_ENTRY <0>
08CE	??		
08CF	??		
08D0	F9		
08D1	F9		
08D2	F9		
08D3	??		
08D4	??		
08D5	??		
08D6	??		
08D7	F9		
08D8	??		
08D9	??		
08DA	??		
08DB	FD	2246	HI_SCORE_ENTRY <0>
08DC	??		
08DD	??		
08DE	F9		
08DF	F9		
08E0	F9		
08E1	??		
08E2	??		
08E3	??		

LOC	OBJ	LINE	SOURCE
08E4	??		
08E5	F9		
08E6	??		
08E7	??		
08E8	??		
08E9	FD	2247	HI_SCORE_ENTRY <>
08EA	??		
08EB	??		
08EC	F9		
08ED	F9		
08EE	F9		
08EF	??		
08F0	??		
08F1	??		
08F2	??		
08F3	F9		
08F4	??		
08F5	??		
08F6	??		
08F7	FD	2248	HI_SCORE_ENTRY <>
08F8	??	2249	;5
08F9	??		
08FA	F9		
08FB	F9		
08FC	F9		
08FD	??		
08FE	??		
08FF	??		
0900	??		
0901	F9		
0902	??		
0903	??		
0904	??		
0905	FD	2250	HI_SCORE_ENTRY <>
0906	??		
0907	??		
0908	F9		
0909	F9		
090A	F9		
090B	??		
090C	??		
090D	??		
090E	??		
090F	F9		
0910	??		
0911	??		
0912	??		
0913	FD	2251	HI_SCORE_ENTRY <>
0914	??		
0915	??		
0916	F9		
0917	F9		
0918	F9		
0919	??		

LOC	OBJ	LINE	SOURCE
-----	-----	------	--------

091A ??			
091B ??			
091C ??			
091D F9			
091E ??			
091F ??			
0920 ??			
0921 FD	2252		HI_SCORE_ENTRY <>
0922 ??			
0923 ??			
0924 F9			
0925 F9			
0926 F9			
0927 ??			
0928 ??			
0929 ??			
092A ??			
092B F9			
092C ??			
092D ??			
092E ??			
092F FD	2253		HI_SCORE_ENTRY <>
0930 ??			
0931 ??			
0932 F9			
0933 F9			
0934 F9			
0935 ??			
0936 ??			
0937 ??			
0938 ??			
0939 F9			
093A ??			
093B ??			
093C ??			
	2254		
093D FD	2255		HI_SCORE_ENTRY <> ;10
093E ??			
093F ??			
0940 F9			
0941 F9			
0942 F9			
0943 ??			
0944 ??			
0945 ??			
0946 ??			
0947 F9			
0948 ??			
0949 ??			
094A ??			
094B FD	2256		HI_SCORE_ENTRY <>
094C ??			
094D ??			
094E F9			
094F F9			

LOC	OBJ	LINE	SOURCE
-----	-----	------	--------

0950	F9		
0951	??		
0952	??		
0953	??		
0954	??		
0955	F9		
0956	??		
0957	??		
0958	??		
0959	F0	2257	HI_SCORE_ENTRY <>
095A	??		
095B	??		
095C	F9		
095D	F9		
095E	F9		
095F	??		
0960	??		
0961	??		
0962	??		
0963	F9		
0964	??		
0965	??		
0966	??		
0967	F0	2258	HI_SCORE_ENTRY <>
0968	??		
0969	??		
096A	F9		
096B	F9		
096C	F9		
096D	??		
096E	??		
096F	??		
0970	??		
0971	F9		
0972	??		
0973	??		
0974	??		
0975	F0	2259	HI_SCORE_ENTRY <>
0976	??		
0977	??		
0978	F9		
0979	F9		
097A	F9		
097B	??		
097C	??		
097D	??		
097E	??		
097F	F9		
0980	??		
0981	??		
0982	??		
0983	F0	2260	HI_SCORE_ENTRY <> ;15
0984	??		
0985	??		

LOC	OBJ	LINE	SOURCE
0986	F9		
0987	F9		
0988	F9		
0989	??		
098A	??		
098B	??		
098C	??		
098D	F9		
098E	??		
098F	??		
0990	??		
0991	FD	2262	HI_SCORE_ENTRY <>
0992	??		
0993	??		
0994	F9		
0995	F9		
0996	F9		
0997	??		
0998	??		
0999	??		
099A	??		
099B	F9		
099C	??		
099D	??		
099E	??		
099F	FD	2263	HI_SCORE_ENTRY <>
09A0	??		
09A1	??		
09A2	F9		
09A3	F9		
09A4	F9		
09A5	??		
09A6	??		
09A7	??		
09A8	??		
09A9	F9		
09AA	??		
09AB	??		
09AC	??		
09AD	FD	2264	HI_SCORE_ENTRY <>
09AE	??		
09AF	??		
09B0	F9		
09B1	F9		
09B2	F9		
09B3	??		
09B4	??		
09B5	??		
09B6	??		
09B7	F9		
09B8	??		
09B9	??		
09BA	??		
09BB	FD	2265	HI_SCORE_ENTRY <>
09BC	??		

LOC	OBJ	LINE	SOURCE
09BD ??			
09BE F9			
09BF F9			
09C0 F9			
09C1 ??			
09C2 ??			
09C3 ??			
09C4 ??			
09C5 F9			
09C6 ??			
09C7 ??			
09C8 ??			
09C9 FD	2266	2267	HI_SCORE_ENTRY <> ;20
09CA ??			
09CB ??			
09CC F9			
09CD F9			
09CE F9			
09CF ??			
09D0 ??			
09D1 ??			
09D2 ??			
09D3 F9			
09D4 ??			
09D5 ??			
09D6 ??			
09D7 (16	2268		
00	2269		
)	2270 ; GAP AREA		
2271			
2272	DB	16 DUP (0)	
09D7	2273		
	2274		
	2275 BLEN_REMAIN_RAM EQU	OFFSET \$ - OFFSET REMAIN_RAM	
	2276		
	2277 +1 \$EJECT		

LOC	OBJ	LINE	SOURCE
		2278	;=====
		2279	
09E7		2280	SCRATCH_PAD LABEL BYTE
		2281	
09E7		2282	VARIABLES LABEL BYTE
		2283	
		2284	
		2285	; =====
		2286	; VARIABLES
		2287	; =====
		2288	
		2289	
		2290	
		2291	; ALL VARIABLES ARE CLASSIFIED INTO 8 GROUPS.
		2292	
		2293	; 1. SYSTEM_VAR :CHANGED ONLY AT COLD START OR RESET
		2294	; 2. STAR_VAR :RESET AT WARM START
		2295	; 3. SPECIAL_VAR :RESET AT ROUND INIT
		2296	; 4. ROUND_VAR :RESET AT ROUND INIT
		2297	; 5. NEIL'S_VAR :RESET BEFORE USE
		2298	; 6. GAME_VAR :CHANGED AT GAME START
		2299	; 7. ACTIVE_VAR :FOR ACTIVE PLAYER
		2300	; 8. STORE_VAR :FOR INACTIVE PLAYER
		2301	
		2302	
		2303 +1	\$EJECT

LOC	OBJ	LINE	SOURCE
		2304	;=====
		2305	
		2306	
		2307	;=====
		2308	; SYSTEM VARIABLE AREA
		2309	;=====
		2310	
		2311	; THIS AREA IS THE MOST IMPORTANT VARIABLES.
		2312	
		2313	; INITIALIZED AT COLD START OR SYSTEM RESET
		2314	
		2315	;=====
		2316	
09E7 ??		2317	COIN_FL DB ? ;TRANSITION DETECT FLAG
09E8 ??		2318	COIN_TIMER DB ? ;COIN METER DELAY OUTPUT TIMER
09E9 ??		2319	CTRL_BYTE DB ? ;KEEPS TRACK OF SCREEN/CTRL OUTPUT
		2320	
		2321	; INTERRUPT RELATED VARIABLES
		2322	
09EA ??		2323	NMI_CAME_FL DB ? ;WHEN NMI OCCURS, THIS BYTE TURNS FF
		2324	
		2325	; CLOCK VARIABLES
		2326	
09EB ??		2327	ACTIVITY_FL DB ? ;0/IDLE, -1/BUSY
09EC ??		2328	PLAY_TIME_FL DB ? ;0/ATTRACT MODE, 1/GAME PLAYED
09ED ??		2329	FRAME_CTR DB ? ;COUNTER TO GET ONE SECOND
		2330	
09EE ??		2331	POWER_OFF_FL DB ? ;0/POWER HAS BEEN ON, -1/POWER OFF HAPPENED
09EF ??		2332	LEAP_SEC_CTR DB ? ;TEMPORARY COUNTER OF LEAP SECOND
09F0 ??		2333	HOUR_FL DB ? ;0/DO NOTHING, -1/HOURLY CHORES REQUESTED
09F1 ????		2334	ACTIVITY_BUF DW ? ;TEMP SAVING PLACE OF LAST ACTIVITY VALUE
09F3 ??		2335	FRESH_RND_FL DB ? ;0/CONT ROUND, -1/FRESH ROUND
09F4 ??		2336	STAR_DUST_FL DB ? ;STAR_DUST TURN OFF IF 0
09F5 ??		2337	SIMU_ENTRY_FL DB ? ;0/REPLAY MODE, -1/DATA ENTRY MODE
09F6 ??		2338	STAR_DIR_FL DB ? ;0/OUT, 1/IN, 2/OUT TO IN, 3/IN TO OUT
		2339	
09F7 ????		2340	COLOR_CYCLE_CTR DW ? ;COLOR ANIMATION DUE COUNTER
		2341	
		2342	+1 \$EJECT

LOC	OBJ	LINE	SOURCE
		2343	;-----
		2344	
		2345	
		2346	; =====
		2347	; STAR DUST DATA AREA
		2348	; =====
		2349	
		2350	; INITIALIZED AT WARM_START
		2351	
		2352	;-----
		2353	
		2354	
09F9		2355	STAR_DATA LABEL STARPAR
09F9 (62		2356	
01		2357	STARPAR 62 DUP(())
01			
0000			
0000			
0000			
)			
		2358	
		2359	
		2360	+1 \$EJECT

LOC	OBJ	LINE	SOURCE
		2361	;-----
		2362	
0BE9		2363	RND_CLR_AREA LABEL BYTE
		2364	
		2365	
		2366	; =====
		2367	; SPECIAL VARIABLES AREA
		2368	; =====
		2369	
		2370	; INITIALIZED AT ROUND_INIT
		2371	
		2372	;-----
		2373	
		2374	; FOREGROUND REGISTER BUFFER
		2375	
		2376	; THE CONTENT OF THIS BUFFER WILL BE COPIED INTO THE
		2377	; ACTUAL FGND REGISTER AFTER A NORMAL INTERRUPT
		2378	
		2379	; INITIALIZED AT ROUND_INIT
		2380	
		2381	;-----
		2382	
0BE9		2383	FGND_REG_BUF LABEL FGPAR
0BE9 ??		2384	
0BE9 ??		2385	FGND_SEED_SLOT FGPAR 8 DUP (<>) ;ALWAYS HERE
0BE9 ??		2386	
0009 (48 ??		2387	FGND_ACTIVE_SLOT FGPAR 48 DUP (<>) ;DYNAMICALLY ALLOCATED SLOT
0009 ??		2388	
0060 ??		2389	WLEN_ACTIVE_SLOT EQU (OFFSET \$ - OFFSET FGND_ACTIVE_SLOT)/2
0CC9 ??		2390	
0CCA ??		2391	FGND_COMET_SLOT FGPAR <>
0CCB ??		2392	
0CCD ??		2393	FGND_BULLET_SLOT FGPAR 3 DUP (<>) ;BULLETS
0CCD ??		2394	
0CD9 ??		2395	FGND_HUMAN_SLOT FGPAR <>
0CDA ??			
0CDB ??			

LOC	OBJ	LINE	SOURCE
0CDC ??			
0CDD {3	2396		
??	2397		F\$PAR 3 DUP (()
??			
??			
)			
	2398		
	2399 +1 \$EJECT		

LOC	OBJ	LINE	SOURCE
		2400	;-----
		2401	
		2402	; ENEMY'S DATA AREA
		2403	
0CE9	00FF	2404	KRYPTO_DATA KRYPTAR <>
0CEB	00FF		
0CED	0020		
0CEF	00		
0CF0	04		
0CF1	00FF		
0CF3	00FF		
0CF5	00FF		
0CF7	0C		
0CF8	00FF		
0CFA	0000		
0CFD	0000		
0CFE	1E		
0CFF	03		
0D00	1E		
0D01	05		
0D02	0000		
0D04	0000		
0D06	00		
0D07	00		
0D08	00		
0D09	F0FF		
0D0B	04		
0D0C	08		
0D0D	F0FF		
0D0F	00FF	2405	KRYPT1_DATA KRYPTAR <>
0D11	00FF	2406	
0D13	0020		
0D15	00		
0D16	04		
0D17	00FF		
0D19	00FF		
0D1B	00FF		
0D1D	0C		
0D1E	00FF		
0D20	0000		
0D22	0000		
0D24	1E		
0D25	03		
0D26	1E		
0D27	05		
0D28	0000		
0D2A	0000		
0D2C	00		
0D2D	00		
0D2E	00		
0D2F	F0FF		
0D31	04		
0D32	08		
0D33	F0FF		

LOC	OBJ	LINE	SOURCE
		2407	
0D35	00FF	2408	KRYPT2_DATA KRYPAR <>
0D37	00FF		
0D39	0020		
0D3B	00		
0D3C	04		
0D3D	00FF		
0D3F	00FF		
0D41	00FF		
0D43	0C		
0D44	00FF		
0D46	0000		
0D48	0000		
0D4A	1E		
0D4B	03		
0D4C	1E		
0D4D	05		
0D4E	0000		
0D50	0000		
0D52	00		
0D53	00		
0D54	00		
0D55	F0FF		
0D57	04		
0D58	08		
0D59	F0FF		
		2409	
0D5B	00FF	2410	KRYPT3_DATA KRYPAR <>
0D5D	00FF		
0D5F	0020		
0D61	00		
0D62	04		
0D63	00FF		
0D65	00FF		
0D67	00FF		
0D69	0C		
0D6A	00FF		
0D6C	0000		
0D6E	0000		
0D70	1E		
0D71	03		
0D72	1E		
0D73	05		
0D74	0000		
0D76	0000		
0D78	00		
0D79	00		
0D7A	00		
0D7B	F0FF		
0D7D	04		
0D7E	08		
0D7F	F0FF		
		2411	
0D81	00FF	2412	KRYPT4_DATA KRYPAR <>
0D83	00FF		

LOC	OBJ	LINE	SOURCE
-----	-----	------	--------

0D85	0020		
0D87	00		
0D88	04		
0D89	00FF		
0D8B	00FF		
0D8D	00FF		
0D8F	0C		
0D90	00FF		
0D92	0000		
0D94	0000		
0D96	1E		
0D97	03		
0D98	1E		
0D99	05		
0D9A	0000		
0D9C	0000		
0D9E	00		
0D9F	00		
0DA0	00		
0DA1	F0FF		
0DA3	04		
0DA4	08		
0DA5	F0FF		

2413

2414 +1 \$EJECT

LOC	OBJ	LINE	SOURCE	
0DA7 (2		2415	;-----	
		2416		
	00FF	2417	ELECT0_DATA	ELPAR 2 DUP (())
	00FF			
	0020			
	01			
	00			
	00			
	00			
	00			
	0000			
	F0FF			
	0000			
	0000			
	0000			
	0000			
0000				
0000				
05				
)				
0DE1 (3		2418		
		2419	ELECT1_DATA	ELPAR 3 DUP (())
	00FF			
	00FF			
	0020			
	01			
	00			
	00			
	00			
	00			
	0000			
	F0FF			
	0000			
	0000			
	0000			
	0000			
0000				
05				
)				
0E38 (4		2420		
		2421	ELECT2_DATA	ELPAR 4 DUP (())
	00FF			
	00FF			
	0020			
	01			
	00			
	00			
	00			
	00			
	0000			

LOC	OBJ	LINE	SOURCE
-----	-----	------	--------

F0FF			
0000			
0000			
0000			
0000			
0000			
0000			
05			
)			
0EAC (4	2422		
00FF	2423	ELECT3_DATA	ELPAR 4 DUP (())
00FF			
0020			
01			
00			
00			
00			
00			
0000			
F0FF			
0000			
0000			
0000			
0000			
0000			
05			
)			
0F20 (6	2424		
00FF	2425	ELECT4_DATA	ELPAR 6 DUP (())
00FF			
0020			
01			
00			
00			
00			
00			
0000			
F0FF			
0000			
0000			
0000			
0000			
0000			
05			
)			
2426			
2427 +1	\$EJECT		

LOC	OBJ	LINE	SOURCE
		2428	;-----
		2429	
0FCE 13		2430	BULLET_DATA BULPAR 3 DUP (0)
0000			
0000			
0000			
0000			
0000			
0000			
00			
00			
)			
		2431	
		2432	+1 \$EJECT

LOC	OBJ	LINE	SOURCE
		2433	;-----
		2434	
0FFE (16		2435	SEED_DATA SEEDPAR 16 DUP (())
FFFF			
)			
		2436	
107E		2437	SEED_END LABEL BYTE
		2438	
		2439	;-----
		2440	
107E (9		2441	MEXP_DATA MXDPAR 9 DUP (())
AAAA			
AAAA			
)			
		2442	
		2443 +1 \$EJECT	

LOC	OBJ	LINE	SOURCE
		2444	;-----
		2445	
		2446	; COMET'S DATA AREA
		2447	
10A2		2448	COMET_DATA LABEL BYTE
		2449	
10A2 ????		2450	COMET_XPOS DW ? ;X POSITION
10A4 ????		2451	COMET_YPOS DW ? ;Y POSITION
10A6 ????		2452	COMET_XVEL DW ? ;X VELOCITY
10AB ????		2453	COMET_YVEL DW ? ;Y VELOCITY
		2454	
10AA ??		2455	COMET_DIR_FL DB ? ;0/INWARD, -1/OUTWARD
10AB ??		2456	COMET_MASS DB ? ;MASS OF THE COMET
		2457	
10AC ????		2458	COMET_ACTJMP DW ? ;ACTION ADDR POINTER
10AE ????		2459	COMET_TIMER DW ? ;ACTION TIMER
		2460	
10B0 ????		2461	COMET_PNTPTR DW ? ;POINT OBJECT POINTER
10B2 ????		2462	COMET_FIGPTR DW ? ;EXPLOSION FIGURE POINTER
		2463	
10B4 ??		2464	COMET_SCORE3 DB ? ;SCORE FOR COMET HIT (#1000)
10B5 ??		2465	COMET_SCORE2 DB ? ;SCORE FOR COMET HIT (#100)
		2466	
		2467	
		2468 +1	\$EJECT

LOC	OBJ	LINE	SOURCE
		2469	;-----
		2470	
		2471	; HUMAN DATA AREA
		2472	
		2473	
10B6 ??		2474	HUMAN_CTR DB ? ;COUNTER FOR HUMAN ACTION LP
10B7 ????		2475	HUMAN_PNTPTR DW ? ;POINTER FOR HUMAN'S BONUS LOOKUP TABLE
		2476	
10B9 (11		2477	HUMAN_DATA HUMANPAR 11 DUP (())
????			
????			
????			
????			
????			
????			
????			
??			
??			
??			
??			
)			
		2478	
		2479	
		2480 +1 \$EJECT	

LOC	OBJ	LINE	SOURCE
		2481	;=====
		2482	
		2483	
		2484	; =====
		2485	; ROUND VARIABLES AREA
		2486	; =====
		2487	
		2488	; THE VARIABLES THAT IS USED TO KEEP TEMPORARY DATA.
		2489	; ALL INITIALIZED TO ZERO AT ROUND_INIT.
		2490	
1195 ??		2491	KVPN DB ? ;KRYPTON'S VPN (KEEP HPN RIGHT NEXT)
1196 ??		2492	KHPN DB ? ;KRYPTON'S HPN
		2493	
1197 ??		2494	ORB_CYCLE DB ? ;SUPPLY MULTIPLEXED ORBIT LOOKUP CODE
1198 ??		2495	KJOB_FL DB ? ;ONE JOB PER FRAME FLAG
1199 ??		2496	ORR_ADV_FL DB ?
119A ????		2497	GOVER_CTR DW ? ;COUNTER OF GAME OVER DISPLAY PERIOD
		2498	
119C ??		2499	KRYPT_CTR DB ?
119D ??		2500	ELECT_CTR DB ?
119E ??		2501	BULLET_CTR DB ?
		2502	
119F ????		2503	TEMP_CTR DW ?
11A1 ????		2504	TEMP_CTR2 DW ?
11A3 ????		2505	SEED_MUX_CTR DW ?
		2506	
11A5 ??		2507	ACTIVE_KRYPT_CTR DB ? ;NUMBER OF KRYPTON IN ACTION
11A6 ??		2508	QUE_FL DB ? ;0/QUE PTR VALID, -1/QUE PTR INVALID
11A7 ????		2509	QUE_PTR DW ? ;NEXT KRYPTON TO BE INTRODUCED
11A9 (6 ??)		2510	QUE_TABLE DB 6 DUP (?) ;QUE STATUS INDICATING TABLE
		2511	
11AF ??		2512	NASTY_CTR DB ? ;NASTY COUNT
11B0 ??		2513	NASTIER_FL DB ? ;0/NO ACTION, -1/MAKE KRYPT NASTIER
		2514	
11B1 ??		2515	BONUS_FL DB ? ;0/NO BONUS, 1/BONUS START REQ, 2/BONUS ACTIVE
11B2 ??		2516	EXTRA_DEB_FL DB ? ;0/BUTTON RELEASED, -1/BUTTON STILL PRESSED
		2517	
11B3 ??		2518	SPIN_CTR DB ? ;MAGNA'S PRE_EXPLOSION SPIN COUNTER
11B4 ??		2519	SPIN_DIR DB ? ;DIRECTION BYTE FOR SPIN
		2520	
11B5 ??		2521	MXOBJ_CTR DB ? ;MAGNA'S EXPLODING DEBRIS COUNTER
11B6 ????		2522	MX_PERDPTR DW ? ;MAGNA'S EXPLOSION PERIOD TABLE POINTER
11B8 ????		2523	MX_DSNPTR DW ? ;MAGNA'S EXPLOSION DSN TABLE POINTER
		2524	
11BA ??		2525	FLYEL_CTR DB ? ;FLYEL COUNTER IN THIS ROUND
		2526	
11BB ????		2527	DT_KSPEED_CTR DW ? ;DYNAMIC TWEAK KSPEED TIMER
11BD ????		2528	DT_KMASS_CTR DW ? ;DYNAMIC TWEAK KMASS TIMER
		2529	
11BF ??		2530	PERFECT_TIMER DB ? ;PERFECT DISPLAY TIMER
11C0 ??		2531	PERF_DISP_FL DB ? ;0/NO DISPLAY, -1/DISPLAY PERF MESSAGE
		2532	
11C1 ??		2533	COMET_ANGLE DB ? ;COMET ANGLE KEPT HERE (0-15)

LOC	OBJ	LINE	SOURCE
11C2 ??		2534	BONUS_RESET_FL DB ? ;0/NO RESET, -1/BONUS RESET REQUESTED
11C3 ??		2535	COM_SPIN_TIMER DB ? ;COMET SPIN TIMER (MUX COUNTER)
11C4 ??		2536	
11C4 ??		2537	BULLET_LIFE DB ? ;NUM OF FRAMES BULLETS STAY ACTIVE
11C5 ??		2538	
11C5 ??		2539	PERF_SOUND_TIMER DB ? ;FOR REPEATED FANFARE OF PERFECT ROUND
11C6 ??		2540	PERF_SOUND_CTR DB ? ;COUNT OF REPETITION
11C6 ??		2541	
11C7 ??		2542	CANIM_FL DB ? ;COLOR ANIMATION FLAG
11C8 ??		2543	CANIM_TIMER DB ? ;COLOR ANIMATION TIMER
11C9 ????		2544	CANIM_COLOR DW ? ;COLOR ANIMATION COLOR
11C9 ????		2545	
11CB ??		2546	MEXP_EX_TIMER DB ? ;POST MAGNA EXPLOSION PAUSE TIME
11CC ????		2547	
11CC ????		2548	ROUND_STAY_CLK DW ? ;0/ROUND CAN FINISH ANY TIME, NONO/WAIT
11CC ????		2549	
11CE ??		2550	HUMAN_FL DB ? ;0/NO HUMAN, -1/HUMAN INTRODUCED
11CF ??		2551	HUMAN_BUSY_FL DB ? ;0/NO HUMAN ON THE SCREEN, -1/HUMAN BUSY
11D0 ??		2552	HUMAN_TOOKOFF_FL DB ? ;0/NO HUMAN TOOK OFF YET, -1/HUMAN TOOK OFF
11D1 ??		2553	KILLER_KRYPT_FL DB ? ;0/NORMAL, -1/MAGNA KILLED BY A KRYPTON
11D2 ??		2554	HUMAN_NOW_FL DB ? ;0/NOTHING, -1/HUMAN NEEDED NOW
11D3 ??		2555	AGAIN_TIMER DB ? ;NONO/NOT GET KILLED BY COMET
11D4 ????		2556	KILL_TIMER DW ? ;0/KILLER COMET OK, NON ZERO/COUNT DOWN
11D6 ??		2557	NASTY_COMET_FL DB ? ;0/NOT NASTY, -1/MAKE COMETS NASTY
11D7 ????		2558	CUTOFF_TIMER DW ? ;COUNT DOWN BETWEEN KRYPT EXP
11D7 ????		2559	
11D7 ????		2560	
05F0		2561	BLEN_RND_CLR EQU OFFSET \$ - OFFSET RND_CLR_AREA
05F0		2562	
05F0		2563	; ===== MORE VARIABLE TO BE CLEARED ZERO =====
05F0		2564	
05F0		2565	+1 \$EJECT

LOC	OBJ	LINE	SOURCE
		2566	;=====
		2567	
		2568	
		2569	; =====
		2570	; NEIL'S SCRATCH PAD AREA
		2571	; =====
		2572	
		2573	
		2574	; BOX IS THE INITIALS SELECTION CHARACTER
		2575	FOR THE HIGH SCORE INPUT.
		2576	
11D9 00		2577	BOX_XPOS DB 0
11DA 00		2578	BOX_YPOS DB 0
		2579	
11DB ??		2580	HS_FL DB ? ; =0 FIRST TIME THRU HIGH SCORE
11DC ??		2581	INIT_COUNT DB ? ; # OF INITIALS ENTERED SO FAR
		2582	
		2583	; PART OF HIGH SCORE MESSAGES.
11DD FD		2584	NEW_INITS DB NEWP,14,11,BLNK,BLNK,BLNK,EOST
11DE 0E			
11DF 0B			
11E0 FF			
11E1 FF			
11E2 FF			
11E3 FE			
11E4 FD		2585	HS_PLYR_NUM DB NEWP,26,2,CRG1,EOST
11E5 1A			
11E6 02			
11E7 F9			
11E8 FE			
		2586	
11E9 01		2587	KEEP_FIVE_FL DB 1 ; =1 KEEP TOP 5 SCORES WHEN TABLE RESET
		2588	
11EA ??		2589	ULTRA_HSE_FL DB ?
11EB ????		2590	ULTRA DW ?
		2591	
11ED ??		2592	FIRST_DATUM_FL DB ? ; =1 FIRST PIECE OF DATA
11EE ??		2593	TABLE_FULL_FL DB ? ; =1 ATTRACT TABLE FULL
11EF ??		2594	TABLE_EMPTY_FL DB ? ; =1 ATTRACT TABLE EMPTY
11F0 ????		2595	ATT_TABLE_PTR DW ? ; POINTER INTO GENERATING TABLE
11F2 ????		2596	NEIL_CTR DW ? ; COUNTER
11F4 ????		2597	NEIL_CTR2 DW ? ; COUNTER
11F6 ????		2598	NEIL_CTR3 DW ? ; COUNTER
11F8 ????		2599	NEIL_CTR4 DW ? ; COUNTER
11FB ??		2600	ATT_TABLE_CTR DB ? ; ATTRACT_REGEN CYCLE COUNTER
		2601	
11FB ????		2602	NEIL_X1 DW ?
11FD ????		2603	NEIL_X2 DW ?
11FF ????		2604	NEIL_X3 DW ?
		2605	
1201 ??		2606	LOGO_XPOS DB ?
1202 ??		2607	LOGO_YPOS DB ?
		2608	
		2609	; FLASHING INITIALS/SCORE
		2610	

LOC	OBJ	LINE	SOURCE	
1203 ??		2611	NUM_FLASHING	DB ?
1204 ??		2612	NUM_FLASH	DB ?
		2613		
1205 ??		2614	FLASH_FL	DB ?
1206 (128 ??)		2615	FLASH_ON	DB 32#4 DUP (?)
				}
1286 ???		2616	FLASH_ON_PTR	DW ?
		2617		
1288 ??		2618	ATT_LP_CTR	DB ?
		2619		
		2620		
		2621	-----	
		2622		
		2623	; WARREN'S TEMPORARY VARIABLES	
		2624		
1289 ???		2625	WARRENO	DW ?
128B ???		2626	WARREN1	DW ?
128D ???		2627	WARREN2	DW ?
128F ???		2628	WARREN3	DW ?
1291 ???		2629	WARREN4	DW ?
1293 ???		2630	WARREN5	DW ?
1295 ???		2631	WARREN6	DW ?
1297 ???		2632	WARREN7	DW ?
1299 ???		2633	WARREN8	DW ?
129B ???		2634	WARREN9	DW ?
		2635		
		2636		
		2637 +1	\$EJECT	

LOC	OBJ	LINE	SOURCE
		2638	;=====
		2639	
		2640	
		2641	; =====
		2642	; GAME VARIABLES AREA
		2643	; =====
		2644	
		2645	; THIS AREA KEEPS TRACKS OF STATUS OF THE CURRENT GAME
		2646	
		2647	; INITIALIZED AT VARIOUS PLACES
		2648	
		2649	;-----
		2650	
		2651	; RANDOM NUMBER SEED (INITIALIZED AT ATTRACT_INIT AND SYSTEM INIT)
		2652	
1290	????	2653	RANDOM DW ? ;SEED FULL 16 BIT (MUST BE NON ZERO)
		2654	
		2655	; INITIALIZED AT GAME_OPTION_INPUT
		2656	
129F	??	2657	TWO_PLAYER_FL DB ? ;0/ONE PLYAER , 1/TWO PLAYER GAME
		2658	
		2659	; INITIALIZED AT PLAYER_SELECT (MAGNA_DEATH)
		2660	
12A0	??	2661	PLAYER_ID DB ? ;0/PLAYER1, 1/PLAYER2
		2662	
		2663	; INITIALIZED AT ROUND_INIT
		2664	
12A1	??	2665	SOUND_CODE DB ? ;SOUND CODE (INVERSE)
12A2	??	2666	SOUND_PRIOR DB ? ;PRIORITY CODE
12A3	????	2667	SOUND_TIMER DW ? ;TIMER OF CURRENT SOUND
12A5	??	2668	SOUND_FL DB ? ;0/ NO SOUND REQUESTED
		2669	
12A6	????	2670	SEED_PTR DW ? ;SEED DATA AREA PTR
		2671	
12A8	??	2672	SHOTGUN_CTR DB ? ;SHOTGUN TIME COUNTER
		2673	
12A9	????	2674	ANIMATOR DW ? ;COLOR ANIMATION WORD
12AB	????	2675	ANIM_PTR DW ? ;COLOR ANIM MASK INDEX PTR
12AD	??	2676	ANIM_CTR DB ? ;FRAME CTR TO CHANGE MASK
		2677	
		2678	;-----
		2679	
		2680	; TWEAK PARAMETERS (INIT BY ROUND_INIT)
		2681	
12AE		2682	RPT_VAR LABEL BYTE
		2683	
12AE	??	2684	GRACE_PERD DB ? ;KRYPT NO EJECT PERIOD AFTER NEW APPEARANCE
12AF	??	2685	KEJECT_PERD DB ? ;KRYPT NO EJECT PERIOD AFTER ONE EJECTION
12B0	??	2686	SPSM_NOEJ_PERD DB ? ;KRYPT NO EJECT PERIOD AFTER SPASHING
12B1	??	2687	RECOV_PERD DB ? ;ELECT NO EJECT PERIOD AFTER OUT OF SCREEN
12B2	????	2688	EJECT_MASK DW ? ;KRYPTON'S SHOOTING FREQUENCY
12B4	????	2689	INF_SPEED_PTR DW ? ;INFANT SPEED TABLE POINTER
		2690	
12B6	??	2691	KMASS_LIST DB ? ;FIRST KRYPTON MASS
12B7	??	2692	KMASS_MAD DB ? ;MAD KRYPTON'S MASS

LOC	OBJ	LINE	SOURCE
12B8 ??		2693	EMASS_1ST DB ? ;FIRST ELECTRON MASS
12B9 ??		2694	MIN_EMASS DB ? ;MINIMUM EMASS LIMIT
12BA ??		2695	EACCEL_MASK DB ? ;ELECTRON'S ACCELERATION MAGNITUDE
12BB ??		2696	NUM_KRYPTONS DB ? ;NUMBER OF KRYPTONS AT ONE TIME
12BC ??		2697	KRYPT_TOGO DB ? ;NUMBER OF KRYPTONS TO GO IN THE ROUND
12BD ??		2698	MAX_FLYEL DB ? ;NUMBER OF ELECT FROM ONE KRYPTON
		2699	
12BE ??		2700	KSPEED_MAX DB ? ;KRYPTON'S SPEED LIMIT (POSITIVE)
12BF ??		2701	KSPEED_MIN DB ? ;KRYPTON'S SPEED LIMIT (NEGATIVE)
12C0 ????		2702	COMET_GRACPERD DW ? ;GRACE PERIOD (AFTER COMET IS GONE)
12C2 ????		2703	COMET_RECVPERD DW ? ;RECOV PERIOD (AFTER COMET IS SHOT DOWN)
12C4 ????		2704	COMET_PTR DW ? ;COMET PARAMETER PTR
		2705	
12C6 ????		2706	COMET_BPTR DW ? ;COMET BONUS PTR
12C8 ??		2707	FLYEL_LIMIT DB ? ;TOTAL MAX FLYEL NUMBER
12C9 ??		2708	BGND_SOUND DB ? ;BACKGROUND SOUND CODE
12CA ????		2709	COLOR_SET_PTR DW ? ;COLOR SET POINTER
12CC ??		2710	NUM_HUMANS DB ? ;NUMBER OF HUMANS AT BONUS PERIOD
12CD ??		2711	HUMAN_PNTOBJ DB ? ;POINT OBJECT FOR HUMAN
		2712	
12CE ??		2713	HUMAN_SCORE2 DB ? ;POINT FOR THE HUMAN * 100
12CF ??		2714	HUMAN_SCORE3 DB ? ;POINT FOR THE HUMAN * 1000
		2715	
12D0 (16		2716	DB 16 DUP (?)
??			
)		2717	
		2718	;-----
		2719	
		2720	; LINKED LIST RELATED VARIABLES (INIT AT ROUND_INIT)
		2721	
12E0 ????		2722	KXOBJECT DW ? ;EXPLOSION PACET LIST POINTER
		2723	
12E2 00FF		2724	HEADER PACPAR <> ;HEADER OF THE LINKED LIST
12E4 00FF			
12E6 0020			
12E8 00			
		2725	
		2726	
		2727	; THIS AREA WILL BE INITIALIZED AT GAME_INIT
		2728	
12E9		2729	GAMEINIT_VAR LABEL BYTE
		2730	
12E9 00FF		2731	MAGNA_DATA MAGPAR <> ;MAGNA'S DATA
12EB 00FF			
12ED 0020			
12EF 00			
12F0 00			
12F1 00			
12F2 00			
12F3 00			
12F4 00			
12F5 0000			
12F7 F0FF			
12F9 0000			

LOC	OBJ	LINE	SOURCE
12FB	0000		
12FD	0000		
12FF	0000		
1301	00		
		2732	
1302	??	2733	SAME_PLAYER_FL DB ? ;0/THE OTHER PLAYER, -1/SAME PLAYER
1303	??	2734	SIMULATE_FL DB ? ;0/GAME MODE, -1/SIMULATE MODE
1304	??	2735	KEEP_MPOS_FL DB ? ;0/RESET MAGNA POS, -1/KEEP SAME POSITION
		2736	
1305		2737	TABLE_DATUM LABEL WORD
		2738	
1305	??	2739	JS_VALUE DB ? ;JOYSTICK READING STORED HERE
1306	??	2740	DIAL_VALUE DB ? ;ADJUSTED DIAL READING STORED HERE
1307	??	2741	DIAL_DIR_FL DB ? ;0/CLOCKWISE, -1/COUNTERCLOCKWISE
		2742	
001F		2743	BLEN_GAMEINIT_VAR EQU OFFSET \$ - OFFSET GAMEINIT_VAR
		2744	
		2745	+1 \$EJECT

LOC	OBJ	LINE	SOURCE
		2746	;=====
		2747	
		2748	; =====
		2749	; ACTIVE VARIABLES AREA
		2750	; =====
		2751	
		2752	; THIS AREA KEEPS TRACK OF THE CURRENT GAME PARAMETERS THAT ARE
		2753	; UNIQUE TO EACH PLAYER. THIS AREA CONTAINS THE PARAMETERS THAT
		2754	; BELONG TO THE ACTIVE PLAYER (PLAYER1 OR PLAYER2). WHEN THE OTHER
		2755	; PLAYER IS BROUGHT IN, THE DATA IN STORE_VAR AREA WILL BE BROUGHT IN.
		2756	
		2757	; INITIALIZED AT GAME_INIT, SWAPPED WITH STORE_VAR AREA AT PLAYER_SEL
		2758	
		2759	;=====
		2760	
		2761	
1308		2762	ACTIVE_VAR
		2763	LABEL
		2764	BYTE
130B ????		2764	SCORE_ADR_A DW ? ;SCORE POSITION ADDR IN BGND
130A ??		2765	NUM_SHIPS DB ? ;REMAINING SHIPS
130B ??		2766	NO_MORE_SHIP_FL DB ? ;0/MORE SHIPS OK, 1/NO EXTRA SHIPS
		2767	
130C ??		2768	SCORE7 DB ? ;MSB CURRENT SCORE
130D ??		2769	SCORE6 DB ?
130E ??		2770	SCORE5 DB ?
130F ??		2771	SCORE4 DB ?
1310 ??		2772	SCORE3 DB ?
1311 ??		2773	SCORE2 DB ?
1312 ??		2774	SCORE1 DB ?
1313 ??		2775	SCORE0 DB ? ;LSB
		2776	
1314 ??		2777	TARG7 DB ? ;TARGET SCORE TO GET EXTRA SHIP
1315 ??		2778	TARG6 DB ?
1316 ??		2779	TARG5 DB ?
1317 ??		2780	TARG4 DB ?
1318 ??		2781	TARG3 DB ?
		2782	
1319 ??		2783	ROUND_CTR DB ? ;ROUND NUMBER TO KEEP TRACK
131A ????		2784	RPT_PTR DW ? ;ROUND PARAMETER TABLE PTR
131C ????		2785	PLAY_TIME DW ? ;TOTAL ELAPSED PLAY TIME FOR THIS GAME
131E ??		2786	KILL_TOGO DB ? ;NUMBER OF KRYPTONS TO KILL
131F ??		2787	ADV_ROUND_FL DB ? ;0/NO ADVANCE, -1/ADVANCE ROUND
1320 ??		2788	KSPEED_CONT DB ? ;CARRY OVER FOR NEXT ROUND
1321 ??		2789	PERFECT_FL DB ? ;0/PERFECT ROUND SO FAR,-1/NOT PERFECT
		2790	
		2791	; ===== MORE ACTIVE VARIABLES COME HERE =====
		2792	
001A		2793	BLEN_ACTIVE_VAR EQU OFFSET \$ - OFFSET ACTIVE_VAR
		2794	
		2795	+1 \$EJECT

LOC	OBJ	LINE	SOURCE
		2796	;-----
		2797	
		2798	; =====
		2799	; COLOR REGISTER BUFFER
		2800	; =====
		2801	
		2802	
		2803	; THIS IS PART OF THE ACTIVE_VAR AREA THAT WILL BE SWAPPED
		2804	
		2805	; THE CONTENT OF THIS BUFFER WILL BE COPIED INTO THE
		2806	; ACTUAL COLOR REGISTER AFTER A NORMAL INTERRUPT
		2807	
		2808	; INITIALIZED (COPIED FROM ROM) AT GAME_INIT
		2809	; ALSO INITIALIZED AT ATT_SEQ
		2810	
		2811	;-----
		2812	
1322		2813	COLOR_REG_BUF LABEL WORD
		2814	
1322 ????		2815	CREG0 DW ?
1324 ????		2816	CREG1 DW ?
1326 ????		2817	CREG2 DW ?
1328 ????		2818	CREG3 DW ?
132A ????		2819	CREG4 DW ?
132C ????		2820	CREG5 DW ?
132E ????		2821	CREG6 DW ?
1330 ????		2822	CREG7 DW ?
1332 ????		2823	CREG8 DW ?
1334 ????		2824	CREG9 DW ?
1336 ????		2825	CREGA DW ?
1338 ????		2826	CREGB DW ?
133A ????		2827	CREGC DW ?
133C ????		2828	CREGD DW ?
133E ????		2829	CREGE DW ?
1340 ????		2830	CREGF DW ?
		2831	
		2832	
		2833	+1 \$EJECT

LOC	OBJ	LINE	SOURCE
		2834	;=====
		2835	
003A		2836	BLEN_SWAP EQU OFFSET \$ - OFFSET ACTIVE_VAR
		2837	
		2838	; =====
		2839	; STORE VARIABLES AREA
		2840	; =====
		2841	
		2842	; COPY OF THE ACTIVE VARIABLES FOR INACTIVE PLAYER COMES HERE.
		2843	
		2844	; INITIALIZED AT GAME_INIT, SWAPPED WITH ACTIVE_VAR AREA AT PLAYER_SEL
		2845	
		2846	;=====
		2847	
1342		2848	STORE_VAR LABEL BYTE
		2849	
1342 ???		2850	SCORE_ADR_I DW ? ;SCORE POSITION ADDR IN BGND
1344 ??		2851	NUM_SHIPS_I DB ? ;REMAINING SHIPS
1345 ??		2852	NOMORESHIPFL_I DB ? ;0/MORE SHIPS OK, 1/NO EXTRA SHIPS
		2853	
1346 ??		2854	SCORE7_I DB ? ;MSB CURRENT SCORE
1347 ??		2855	SCORE6_I DB ?
1348 ??		2856	SCORE5_I DB ?
1349 ??		2857	SCORE4_I DB ?
134A ??		2858	SCORE3_I DB ?
134B ??		2859	SCORE2_I DB ?
134C ??		2860	SCORE1_I DB ?
134D ??		2861	SCORE0_I DB ? ;LSB
		2862	
134E ??		2863	TARG7_I DB ? ;TARGET SCORE TO GET EXTRA SHIP
134F ??		2864	TARG6_I DB ?
1350 ??		2865	TARG5_I DB ?
1351 ??		2866	TARG4_I DB ?
1352 ??		2867	TARG3_I DB ?
		2868	
1353 ??		2869	ROUND_CTR_I DB ? ;ROUND NUMBER TO KEEP TRACK
1354 ????		2870	RPT_PTR_I DW ? ;ROUND PARAMETER TABLE PTR
1356 ????		2871	PLAY_TIME_I DW ? ;TOTAL ELAPSED PLAY TIME FOR THIS GAME
1358 ??		2872	KILL_TOGO_I DB ? ;KILL TO GO IN THIS ROUND
1359 ??		2873	ADV_ROUND_FL_I DB ?
135A ??		2874	KSPEED_CONT_I DB ?
135B ??		2875	PERFECT_FL_I DB ?
		2876	
135C (16 ????)		2877	COLOR_REG_BUF_I DW 16 DUP (?)
		2878	
		2879	
0995		2880	BLEN_SCRATCH_PAD EQU OFFSET \$ - OFFSET SCRATCH_PAD
0995		2881	BLEN_VARIABLES EQU OFFSET \$ - OFFSET VARIABLES
		2882	
		2883	+1 \$EJECT

LOC	OBJ	LINE	SOURCE
		2884	;-----
		2885	
		2886	; =====
		2887	; STACK AREA
		2888	; =====
		2889	
		2890	; NEVER INITIALIZED
		2891	
		2892	
137C	{63 AAAA })	2893	DW 63 DUP (0AAAAH)
		2894	
13FA	AAAA	2895	STACK_BOTTOM DW 0AAAAH
		2896	
		2897	
13FC	????	2898	MSG_DISP_POS DW ? ;TEMPORARY VARIABLE DURING MEM TEST
13FE	??	2899	BAD_MEM_FL DB ? ;BAD MEMORY DETECTION FLAG (BYTE)
13FF	??	2900	INI_TIMEOUT DB ? ;TIMEOUT COUNTER FOR NEWDAY ENTRY
1400	??	2901	INI_TIMER DB ? ;TIMER OUT SECOND COUNTER
		2902	
1401	{121 AA })	2903	DB 121 DUP (0AAH) ;EXTRA SPACE HERE
		2904	
147A	AAAA	2905	TEMP_STACK DW 0AAAAH
		2906	
		2907	+1 \$EJECT

LOC	OBJ	LINE	SOURCE
		2908	;=====
		2909	
		2910	
		2911	; =====
		2912	; VIDEO DRIVER SECTION ADDRESS ASSIGNMENT
		2913	; =====
		2914	
		2915	
3000		2916	ORG 3000H
3000		2917	
3000		2918	FGND_REG LABEL FGPAR
3000		2919	
3800		2920	
3800		2921	ORG 3800H
3800		2922	
3800		2923	BGND_REG LABEL BYTE
4000		2924	
4000		2925	ORG 4000H
4000		2926	
4000		2927	BGND_CHARGEN LABEL BYTE
4000		2928	
5000		2929	
5000		2930	ORG 5000H
5000		2931	
5000		2932	COLOR_REG LABEL WORD
5000		2933	
		2934	+1 \$EJECT

LOC	OBJ	LINE	SOURCE
		2935	;=====
		2936	
		2937	
		2938	; =====
		2939	; INPUT/OUTPUT PORTS
		2940	; =====
		2941	
		2942	
5800		2943	ORG 5800H
		2944	
5800		2945	OUTPORT LABEL BYTE
5800		2946	SSW0 LABEL BYTE ;GENERAL PURPOSE INPUT
5800		2947	WATCHDOG LABEL BYTE
		2948	
		2949	
5801		2950	ORG 5801H
		2951	
5801		2952	PANEL LABEL BYTE
5801		2953	TBALL_CLR LABEL BYTE
		2954	
5802		2955	ORG 5802H
		2956	
5802		2957	TBALLX LABEL BYTE
5802		2958	SOUND_OUT LABEL BYTE
		2959	
5803		2960	ORG 5803H
		2961	
5803		2962	TBALLY LABEL BYTE
5803		2963	SCREEN_CTRL LABEL BYTE ;OUTPUT BIT0(H): BGND DOMINANT
		2964	BIT1(H): HORIZ REVERSE
		2965	BIT2(H): VERT REVERSE
		2966	
5804		2967	ORG 5804H
		2968	
5804		2969	JOYSTICK LABEL BYTE
		2970	
		2971	
		2972	;=====
		2973	
----		2974	ALLSEG ENDS
		2975	
		2976	; END OF RAM AREA
		2977	
		2978	END

XREF SYMBOL TABLE LISTING

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
??SEG	SEGMENT		SIZE=0000H PARA PUBLIC
A	NUMBER	000AH	1040#
ACTIVE_CODE	NUMBER	0010H	1069#
ACTIVE_KRYPT_CTR. .	V BYTE	11A5H	ALLSEG PUBLIC 1677 2507#
ACTIVE_VAR.	V BYTE	1308H	ALLSEG PUBLIC 1676 2762# 2793 2836
ACTIVITY_BUF. . . .	V WORD	09F1H	ALLSEG PUBLIC 1679 2334#
ACTIVITY_CHKSUM. .	V WORD	012AH	ALLSEG PUBLIC 1687 2068#
ACTIVITY_CHKSUMA. .	V WORD	022CH	ALLSEG PUBLIC 1688 2071#
ACTIVITY_CHKSUMB. .	V WORD	032EH	ALLSEG PUBLIC 1689 2074#
ACTIVITY_DATA	V WORD	002AH	ALLSEG PUBLIC 1684 2067#
ACTIVITY_DATAA. . . .	V WORD	012CH	ALLSEG PUBLIC 1685 2070#
ACTIVITY_DATAB. . . .	V WORD	022EH	ALLSEG PUBLIC 1686 2073#
ACTIVITY_FL	V BYTE	09EBH	ALLSEG PUBLIC 1678 2327#
ACTIVITY_LEGAL_MASK	NUMBER	00FEH	916#
ACTIVITY_PTR. . . .	V WORD	0024H	ALLSEG PUBLIC 1680 2063#
ACTIVITY_PTRA	V WORD	0026H	ALLSEG PUBLIC 1681 2064#
ACTIVITY_PTRB	V WORD	0028H	ALLSEG PUBLIC 1682 2065#
ACTIVITY_TIME	V WORD	0022H	ALLSEG PUBLIC 1683 2061#
ADV_ROUND_FL.	V BYTE	131FH	ALLSEG PUBLIC 1690 2787#
ADV_ROUND_FL_I. . . .	V BYTE	1359H	ALLSEG 2873#
AGAIN_PERD.	NUMBER	003CH	682#
AGAIN_TIMER	V BYTE	11D3H	ALLSEG PUBLIC 1691 2555#
ALLSEG.	SEGMENT		SIZE=5804H PARA PUBLIC 290# 292 292 292 292 2974
ANIM_CTR.	V BYTE	12ADH	ALLSEG PUBLIC 1693 2676#
ANIM_PTR.	V WORD	12ABH	ALLSEG PUBLIC 1694 2675#
ANIMATOR.	V WORD	12A9H	ALLSEG PUBLIC 1692 2674#
APSD.	NUMBER	009FH	1074#
ATT_LP_CTR.	V BYTE	1288H	ALLSEG PUBLIC 1667 2618#
ATT_SOUND_MASK. . . .	NUMBER	0001H	581#
ATT_TABLE_CTR	V BYTE	11FAH	ALLSEG PUBLIC 2001 2600#
ATT_TABLE_PTR	V WORD	11F0H	ALLSEG PUBLIC 2000 2595#
B	NUMBER	0008H	1041#
BACK_SLOT_LIMIT . . .	NUMBER	000AH	948#
BACKUP.	NUMBER	007FH	1072#
BAD_MEM_FL.	V BYTE	13FEH	ALLSEG PUBLIC 1695 2899#
BAD_ROM_POS	NUMBER	02ADH	568#
BGND_CHARGEN.	V BYTE	4000H	ALLSEG PUBLIC 1698 2927#
BGND_REG.	V BYTE	3800H	ALLSEG PUBLIC 1696 2923#
BGND_SOUND.	V BYTE	12C9H	ALLSEG PUBLIC 1697 2708#
BLACK	NUMBER	0000H	1012#
BLEN_ACTIVE_VAR . .	NUMBER	001AH	PUBLIC 1701 2793#
BLEN_BGND_REG . . .	NUMBER	03C0H	537#
BLEN_BULPAR	NUMBER	0010H	1454#
BLEN_CPPAR.	NUMBER	0003H	1571#
BLEN_DTABLE	NUMBER	0036H	1614#
BLEN_ELPAR.	NUMBER	001DH	1435#
BLEN_FGPAR.	NUMBER	0004H	1295#
BLEN_GAMEINIT_VAR .	NUMBER	001FH	PUBLIC 1702 2743#
BLEN_HUMANPAR . . .	NUMBER	0014H	1638#
BLEN_KPPAR.	NUMBER	0007H	1390#
BLEN_KRYPAR	NUMBER	0026H	1373#

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
BLEN_KZERO.	NUMBER	0007H	1374#
BLEN_MAGPAR	NUMBER	0019H	1335#
BLEN_MXDPAR	NUMBER	0004H	1595#
BLEN_MXPPAR	NUMBER	0006H	1584#
BLEN_DRSPAR	NUMBER	0005H	1309#
BLEN_REMAIN_RAM	NUMBER	09C7H	PUBLIC 1704 22754
BLEN_RKPAR	NUMBER	000BH	1509#
BLEN_RND_CLR	NUMBER	05F0H	PUBLIC 1703 2561#
BLEN_RPTPAR	NUMBER	0022H	1547#
BLEN_SCRATCH_PAD	NUMBER	0995H	PUBLIC 1707 2880#
BLEN_SEEDPAR	NUMBER	0008H	1493#
BLEN_STARPAR	NUMBER	0008H	1469#
BLEN_SWAP	NUMBER	003AH	PUBLIC 1706 2836#
BLEN_VARIABLES	NUMBER	0995H	PUBLIC 1705 2881#
BLNK	NUMBER	-0001H	1106# 2584 2584 2584
BONUS_FL	V BYTE	11B1H	ALLSEG PUBLIC 1699 2515#
BONUS_HUMAN_PNT	NUMBER	0002H	691#
BONUS_RESET_FL	V BYTE	11C2H	ALLSEG PUBLIC 1700 2534#
BOTH_PLAYER_MASK	NUMBER	0060H	610#
BOX	NUMBER	00E5H	950#
BOX_XPOS	V BYTE	11D9H	ALLSEG PUBLIC 1968 2577#
BOX_YPOS	V BYTE	11DAH	ALLSEG PUBLIC 1969 2578#
BSLOT	V WORD	000CH	S FIELD 1448#
RSTAT	V BYTE	000EH	S FIELD 1449#
BTIMER	V BYTE	000FH	S FIELD 1450#
BULLET_CTR	V BYTE	119EH	ALLSEG PUBLIC 1708 2501#
BULLET_DATA	V 16	0FCEH	ALLSEG PUBLIC 1709 2430#
BULLET_DLIMIT	NUMBER	3980H	763#
BULLET_LLIMIT	V BYTE	11C4H	ALLSEG PUBLIC 1710 2537#
BULLET_RLIMIT	NUMBER	-3A80H	762#
BULLET_SPEED	NUMBER	3A80H	761#
BULLET_ULIMIT	NUMBER	0400H	737#
BULLET_XHOME	NUMBER	-3980H	764#
BULLET_YHOME	NUMBER	0076H	860#
BULPAR	STRUCT		SIZE=0010H #FIELDS=9 1439 1452# 2430
BXPOS	V WORD	0004H	S FIELD 1443#
BXVEL	V WORD	0000H	S FIELD 1441#
BYPOS	V WORD	0008H	S FIELD 1446#
BYVEL	V WORD	0006H	S FIELD 1444#
C	NUMBER	0002H	0002H
BYPOS	V WORD	0002H	S FIELD 1442#
BYVEL	V WORD	000AH	S FIELD 1447#
CANIM_COLOR	V WORD	000CH	1042#
CANIM_FL	V BYTE	11C9H	ALLSEG PUBLIC 1713 2544#
CANIM_PERD1	NUMBER	11C7H	ALLSEG PUBLIC 1711 2542#
CANIM_PERD2	NUMBER	0002H	841#
CANIM_TIMER	V BYTE	0007H	845#
CB_XNRANGE	NUMBER	11C8H	ALLSEG PUBLIC 1712 2543#
CB_XNRANGE1	NUMBER	-0280H	827#
CB_XPRANGE	NUMBER	-0780H	832#
CB_XPRANGE1	NUMBER	0280H	826#
CB_YNRANGE	NUMBER	0780H	831#
CB_YNRANGE1	NUMBER	-0300H	829#
CB_YPRANGE	NUMBER	-0A00H	834#
CB_YPRANGE1	NUMBER	0300H	828#

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
CB_YPRANGE1	NUMBER	0A00H	833#
COWN	NUMBER	-0006H	1111#
CFRAME	V BYTE	0002H	S FIELD 1567#
CHAR_SHIP	NUMBER	00F7H	1079#
CHECKER	V WORD	0036H	S FIELD 1610#
CHKSUM	V WORD	0537H	ALLSEG PUBLIC 1988 2138#
CHKSUM2	V WORD	0539H	ALLSEG PUBLIC 1989 2139#
CHKSUMA	V WORD	0538H	ALLSEG PUBLIC 1993 2140#
CHKSUMB	V WORD	053DH	ALLSEG PUBLIC 1994 2141#
CLFT	NUMBER	-0005H	1110#
CLR_VPN	NUMBER	0000H	926#
CMASSIST	V BYTE	0000H	S FIELD 1565#
CMASSMIN	V BYTE	0001H	S FIELD 1566#
COCKTAIL_MASK	NUMBER	0006H	574#
COIN_FL	V BYTE	09E7H	ALLSEG PUBLIC 1738 2317#
COIN_MASK	NUMBER	0003H	514#
COIN_MID_MASK	NUMBER	0010H	584#
COIN_TIMER	V BYTE	09E8H	ALLSEG PUBLIC 1739 2318#
COIN_VALUE_MASK	NUMBER	0014H	583#
COLOR_CYCLE_CTR	V WORD	09F7H	ALLSEG PUBLIC 1733 2340#
COLOR_REG	V WORD	5000H	ALLSEG PUBLIC 1737 2932#
COLOR_REG_BUF	V WORD	1322H	ALLSEG PUBLIC 1735 2813#
COLOR_REG_BUF_I	V WORD	135CH	ALLSEG PUBLIC 1736 2877#
COLOR_SET_PTR	V WORD	12CAH	ALLSEG PUBLIC 1734 2709#
COM_SPIN_PERD	NUMBER	0003H	660#
COM_SPIN_TIMER	V BYTE	11C3H	ALLSEG PUBLIC 1732 2535#
COMET_ACTJMP	V WORD	10ACh	ALLSEG PUBLIC 1715 2458#
COMET_ANGLE	V BYTE	11C1H	ALLSEG PUBLIC 1714 2533#
COMET_BONUSPERD	NUMBER	0019H	663#
COMET_BPTR	V WORD	12C6H	ALLSEG PUBLIC 1731 2706#
COMET_CLUE_PERD	NUMBER	000FH	664#
COMET_DATA	V BYTE	10A2H	ALLSEG PUBLIC 1716 2448#
COMET_DIR_FL	V BYTE	10AAH	ALLSEG PUBLIC 1717 2455#
COMET_DLIMIT	NUMBER	3A00H	778#
COMET_FIGPTR	V WORD	10B2H	ALLSEG PUBLIC 1718 2462#
COMET_GRACPERD	V WORD	12C0H	ALLSEG PUBLIC 1729 2702#
COMET_LLIMIT	NUMBER	-3B00H	777#
COMET_MASS	V BYTE	10ABH	ALLSEG PUBLIC 1720 2456#
COMET_PNTPTR	V WORD	10B0H	ALLSEG PUBLIC 1719 2461#
COMET_POINT_PERD	NUMBER	001EH	662#
COMET_PTR	V WORD	12C4H	ALLSEG PUBLIC 1730 2704#
COMET_RANGE	NUMBER	0400H	798#
COMET_RECVPERD	V WORD	12C2H	ALLSEG PUBLIC 1728 2703#
COMET_RLIMIT	NUMBER	3B00H	776#
COMET_SCORE2	V BYTE	10B5H	ALLSEG PUBLIC 1725 2465#
COMET_SCORE3	V BYTE	10B4H	ALLSEG PUBLIC 1726 2464#
COMET_TIMER	V WORD	10AEH	ALLSEG PUBLIC 1727 2459#
COMET_ULIMIT	NUMBER	-3A00H	779#
COMET_XHOME	NUMBER	0076H	872#
COMET_XPOS	V WORD	10A2H	ALLSEG PUBLIC 1721 2450#
COMET_XVEL	V WORD	10A6H	ALLSEG PUBLIC 1723 2452#
COMET_YHOME	NUMBER	0081H	873#
COMET_YPOS	V WORD	10A4H	ALLSEG PUBLIC 1722 2451#
COMET_YVEL	V WORD	10ABH	ALLSEG PUBLIC 1724 2453#
COMETEXP_PERD	NUMBER	000AH	661#

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
CPPAR	STRUC		SIZE=0003H #FIELDS=3 1563 1569#
CPRT.	NUMBER	00B7H	1075#
CR_PR_CN.	V BYTE	052BH	ALLSEG PUBLIC 1742 2110#
CR_PR_BM.	V BYTE	052AH	ALLSEG PUBLIC 1741 2109#
CREGO	V WORD	1322H	ALLSEG PUBLIC 1743 2815#
CREG1	V WORD	1324H	ALLSEG PUBLIC 1744 2816#
CREG2	V WORD	1326H	ALLSEG PUBLIC 1745 2817#
CREG3	V WORD	1328H	ALLSEG PUBLIC 1746 2818#
CREG4	V WORD	132AH	ALLSEG PUBLIC 1747 2819#
CREG5	V WORD	132CH	ALLSEG PUBLIC 1748 2820#
CREG6	V WORD	132EH	ALLSEG PUBLIC 1749 2821#
CREG7	V WORD	1330H	ALLSEG PUBLIC 1750 2822#
CREG8	V WORD	1332H	ALLSEG PUBLIC 1751 2823#
CREG9	V WORD	1334H	ALLSEG PUBLIC 1752 2824#
CREGA	V WORD	1336H	ALLSEG PUBLIC 1753 2825#
CREGB	V WORD	1338H	ALLSEG PUBLIC 1754 2826#
CREGC	V WORD	133AH	ALLSEG PUBLIC 1755 2827#
CREGD	V WORD	133CH	ALLSEG PUBLIC 1756 2828#
CREGE	V WORD	133EH	ALLSEG PUBLIC 1757 2829#
CREGF	V WORD	1340H	ALLSEG PUBLIC 1758 2830#
CRGT.	NUMBER	-0007H	1112# 1652 1653 1654 1659 2585
CTIME_DISP_POS. .	NUMBER	000EH	566#
CTPAR	STRUC		SIZE=0003H #FIELDS=4 1552 1559#
CTRL_BYTE	V BYTE	09E9H	ALLSEG PUBLIC 1740 2319#
CUPP.	NUMBER	-0004H	1109#
CUTOFF_PERD . . .	NUMBER	0E10H	639#
CUTOFF_TIMER. . .	V WORD	1107H	ALLSEG PUBLIC 1759 2558#
D	NUMBER	000DH	1043#
DIAL_DIR_FL . . .	V BYTE	1307H	ALLSEG PUBLIC 1761 2741#
DIAL_THRES. . . .	NUMBER	0003H	729#
DIAL_VALUE. . . .	V BYTE	1306H	ALLSEG PUBLIC 1760 2740#
DIFF_FTR_A. . . .	NUMBER	0006H	632#
DIFF_FTR_B. . . .	NUMBER	0001H	633#
DIFF_MASK	NUMBER	00C0H	590#
DIFF_MID_MASK . .	NUMBER	0080H	591#
DIFF_SET.	V BYTE	052FH	ALLSEG PUBLIC 1762 2114#
DKBLUE.	NUMBER	0047H	1021#
DKGREEN	NUMBER	0470H	1018#
DKPURPLE.	NUMBER	0C07H	1024#
DOMINANT_MASK . .	NUMBER	0001H	573#
DROUND.	V 56	0480H	ALLSEG PUBLIC 1771 2092#
DROUNDA.	V 56	0488H	ALLSEG PUBLIC 1772 2093#
DROUNDDB.	V 56	04F0H	ALLSEG PUBLIC 1773 2094#
DSCORE.	V 56	03D8H	ALLSEG PUBLIC 1768 2088#
DSCOREA	V 56	0410H	ALLSEG PUBLIC 1769 2089#
DSCOREB	V 56	0448H	ALLSEG PUBLIC 1770 2090#
DT_KMASS_CTR. . .	V WORD	11BDH	ALLSEG PUBLIC 1764 2528#
DT_KMASS_PERD . .	NUMBER	0209H	642#
DT_KSPEED_CTR . .	V WORD	11BBH	ALLSEG PUBLIC 1763 2527#
DT_KSPEED_PERD . .	NUMBER	01E0H	641#
DTIMES.	V 56	0330H	ALLSEG PUBLIC 1765 2084#
DTIMESA	V 56	0368H	ALLSEG PUBLIC 1766 2085#
DTIMESB	V 56	03A0H	ALLSEG PUBLIC 1767 2086#
DUM	V BYTE	0003H	S FIELD 1291#
E	NUMBER	000EH	1044#

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
EACCEL_MASK	V BYTE	12BAH	ALLSEG PUBLIC 1774 2695#
EACTJMP	V WORD	000EH	S FIELD 1422#
EASY_COLOR	NUMBER	0092H	623#
EB_XNRANGE	NUMBER	-0180H	812#
EB_XPRANGE	NUMBER	0180H	811#
EB_YNRANGE	NUMBER	-0200H	814#
EB_YPRANGE	NUMBER	0200H	813#
EFB_XNRANGE	NUMBER	-0200H	817#
EFB_XNRANGE1	NUMBER	-0600H	822#
EFB_XPRANGE	NUMBER	0200H	816#
EFB_XPRANGE1	NUMBER	0600H	821#
EFB_YNRANGE	NUMBER	-0280H	819#
EFB_YNRANGE1	NUMBER	-0800H	824#
EFB_YPRANGE	NUMBER	0280H	818#
EFB_YPRANGE1	NUMBER	0800H	823#
EHPN	V BYTE	0009H	S FIELD 1418#
EJECT_MASK	V WORD	12B2H	ALLSEG PUBLIC 1775 2688#
EJECT_MATCH	NUMBER	0006H	742#
ELAST	V WORD	0002H	S FIELD 1412#
ELECT_CTR	V BYTE	119DH	ALLSEG PUBLIC 1781 2500#
ELECT_RANGE	NUMBER	0380H	797#
ELECT_XHOME	NUMBER	0076H	863#
ELECT_YHOME	NUMBER	0081H	864#
ELECT0_DATA	V 29	0DA7H	ALLSEG PUBLIC 1776 2417#
ELECT1_DATA	V 29	0DE1H	ALLSEG PUBLIC 1777 2419#
ELECT2_DATA	V 29	0E38H	ALLSEG PUBLIC 1778 2421#
ELECT3_DATA	V 29	0EACH	ALLSEG PUBLIC 1779 2423#
ELECT4_DATA	V 29	0F20H	ALLSEG PUBLIC 1780 2425#
ELPAR	STRUC		SIZE=001DH #FIELDS=18 1409 1433# 2417 2419 2421 2423 2425
EMASS	V BYTE	001CH	S FIELD 1431#
EMASS_1ST	V BYTE	12B8H	ALLSEG PUBLIC 1782 2693#
ENEXT	V WORD	0000H	S FIELD 1411#
EORB PTR	V WORD	000CH	S FIELD 1421#
EDSN	V BYTE	000AH	S FIELD 1419#
EOST	NUMBER	-0002H	1107# 2584 2585
ESIZE	V BYTE	0006H	S FIELD 1414#
ESL0	NUMBER	0000H	936#
ESL1	NUMBER	0004H	937#
ESL2	NUMBER	0008H	938#
ESL3	NUMBER	0018H	940#
ESL4	NUMBER	001CH	941#
ESL5	NUMBER	0020H	942#
ESL6	NUMBER	0024H	943#
ESL7	NUMBER	0028H	944#
ESL8	NUMBER	002CH	945#
ESLOT	V WORD	0004H	S FIELD 1413#
EST_BACK	NUMBER	0002H	889#
EST_EXP	NUMBER	0003H	890#
EST_INACT	NUMBER	0004H	891#
EST_ORB	NUMBER	0000H	887#
EST_ORBOUT	NUMBER	0001H	888#
ESTAT	V BYTE	0007H	S FIELD 1415#
ETIME_1ST	NUMBER	0001H	658#
ETIMER	V BYTE	000BH	S FIELD 1420#
EVPN	V BYTE	0008H	S FIELD 1417#

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
EXPOS	V WORD	0018H	S FIELD 1429#
EXP_SPEED	NUMBER	0004H	714#
EXPOS	V WORD	0010H	S FIELD 1424#
EXTRA_DEB_FL	V BYTE	11B2H	ALLSEG PUBLIC 1783 2516#
EXTRA_SHIP_MASK	NUMBER	0002H	588#
EXTRAH_SET	V BYTE	0520H	ALLSEG PUBLIC 1784 2112#
EXTRAL_SET	V BYTE	052EH	ALLSEG PUBLIC 1785 2113#
EXVEL	V WORD	0014H	S FIELD 1426#
EYPOS	V WORD	001AH	S FIELD 1430#
EYPOS	V WORD	0012H	S FIELD 1425#
EYVEL	V WORD	0016H	S FIELD 1427#
F	NUMBER	000FH	1045#
FELECEXP_PERD	NUMBER	001EH	657#
FGND_ACTIVE_SLOT	V DWORD	0C09H	ALLSEG PUBLIC 1789 2387# 2389
FGND_BULLET_SLOT	V DWORD	0CCDH	ALLSEG PUBLIC 1790 2393#
FGND_COMET_SLOT	V DWORD	0CC9H	ALLSEG PUBLIC 1791 2391#
FGND_HUMAN_SLOT	V DWORD	0CD9H	ALLSEG PUBLIC 1792 2395#
FGND_REG	V DWORD	3000H	ALLSEG PUBLIC 1787 2918#
FGND_REG_BUF	V DWORD	0BE9H	ALLSEG PUBLIC 1788 2383#
FGND_SEED_SLOT	V DWORD	0BE9H	ALLSEG PUBLIC 1793 2385#
FGPAR	STRUCT		SIZE=0004H #FIELDS=4 1286 1293# 2383 2385 2387 2391 2393 2395 2397 2918
FILLH	NUMBER	003BH	721#
FILLL	NUMBER	00E0H	722#
FIRST_DATUM_FL	V BYTE	11EDH	ALLSEG PUBLIC 1997 2592#
FLASH_FL	V BYTE	1205H	ALLSEG PUBLIC 1970 2614#
FLASH_ON	V BYTE	1206H	ALLSEG PUBLIC 1971 2615#
FLASH_ON_PTR	V WORD	1286H	ALLSEG PUBLIC 1972 2616#
FLYEL_CTR	V BYTE	11BAH	ALLSEG PUBLIC 1794 2525#
FLYEL_DLIMIT	NUMBER	3A00H	773#
FLYEL_LIMIT	V BYTE	12C8H	ALLSEG PUBLIC 1795 2707#
FLYEL_LLIMIT	NUMBER	-3B00H	772#
FLYEL_RLIMIT	NUMBER	3B00H	771#
FLYEL_ULIMIT	NUMBER	-3A00H	774#
FLYEL_XHOME	NUMBER	0076H	866#
FLYEL_YHOME	NUMBER	0081H	867#
FRAME_CTR	V BYTE	09EDH	ALLSEG PUBLIC 1786 2329#
FRAME_TIME	NUMBER	0166H	550#
FRAME_TIMEH	NUMBER	0001H	552#
FRAME_TIMEL	NUMBER	0067H	551#
FRESH_RND_FL	V BYTE	09F3H	ALLSEG PUBLIC 1796 2335#
G	NUMBER	001AH	1046#
GAME_CREDIT	V BYTE	0528H	ALLSEG PUBLIC 1797 2104#
GAME_CREDITX	V BYTE	0534H	ALLSEG PUBLIC 1798 2122#
GAMEINIT_VAR	V BYTE	12E9H	ALLSEG PUBLIC 1799 2729# 2743
GOVER_CTR	V WORD	119AH	ALLSEG PUBLIC 1800 2497#
GOVER_MSG_PERD	NUMBER	0078H	666#
GRACE_PERD	V BYTE	12AEH	ALLSEG PUBLIC 1801 2684#
H	NUMBER	001BH	1047#
HACTJMP	V WORD	000CH	S FIELD 1627#
HALF_CREDIT	V BYTE	0529H	ALLSEG PUBLIC 1802 2105#
HALF_CREDITX	V BYTE	0535H	ALLSEG PUBLIC 1803 2123#
HARD_COLOR	NUMBER	0280H	624#
HBAR	NUMBER	00D7H	1077#
HBXRANGE	NUMBER	0003H	794#
HYBYRANGE	NUMBER	0003H	795#

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
HEADER	V 7	12E2H	ALLSEG PUBLIC 1804 2724#
HEXP_PERD	NUMBER	000FH	678#
HI_SCORE_ENTRY	STRUCT		SIZE=001EH #FIELDS=14 1647 1664# 2150 2151 2152 2153 2154 2156 2157 2158 2159 2160 2162 2163 2164 2165 2166 2168 2169 2170 2171 2172 2174 2181 2182 2183 2184 2185 2187 2188 2189 2190 2191 2193 2194 2195 2196 2197 2199 2200 2201 2202 2203 2205 2212 2213 2214 2215 2216 2218 2219 2220 2221 2222 2224 2225 2226 2227 2228 2230 2231 2232 2233 2234 2236 2243 2244 2245 2246 2247 2249 2250 2251 2252 2253 2255 2256 2257 2258 2259 2261 2262 2263 2264 2265 2267
HIGHH	V WORD	002AH	S FIELD 1604#
HIGHL	V WORD	002BH	S FIELD 1603#
HMODE	V BYTE	0011H	S FIELD 1631#
HMODE0_PERD	NUMBER	003CH	685#
HMODE1_PERD	NUMBER	0064H	686#
HMODE3_PERD	NUMBER	0014H	687#
HMODE4_PERD	NUMBER	002DH	688#
HMODE7_PERD	NUMBER	000AH	689#
HDSN	V BYTE	0012H	S FIELD 1632#
HOUR_FL	V BYTE	09F0H	ALLSEG PUBLIC 1805 2333#
HPERD	V BYTE	0013H	S FIELD 1633#
HPN	V BYTE	0001H	S FIELD 1289#
HPOINT_PERD	NUMBER	001EH	675#
HPTR	V WORD	000EH	S FIELD 1626#
HS_FL	V BYTE	110BH	ALLSEG PUBLIC 1973 2580#
HS_PLYR_NUM	V BYTE	11E4H	ALLSEG PUBLIC 1985 2585#
HSE	V 14	053FH	ALLSEG PUBLIC 1990 2150#
HSEA	V 14	0788H	ALLSEG PUBLIC 1991 2212#
HSEB	V 14	08B1H	ALLSEG PUBLIC 1992 2243#
HTIMER	V BYTE	0010H	S FIELD 1630#
HUMAN_BUSY_FL	V BYTE	11CFH	ALLSEG PUBLIC 1809 2551#
HUMAN_CONPERD	NUMBER	001EH	677#
HUMAN_CTR	V BYTE	10B6H	ALLSEG PUBLIC 1807 2474#
HUMAN_DATA	V 20	10B9H	ALLSEG PUBLIC 1806 2477#
HUMAN_DLIMIT	NUMBER	3700H	788#
HUMAN_DLIMITH	NUMBER	0039H	783#
HUMAN_FL	V BYTE	11CEH	ALLSEG PUBLIC 1808 2550#
HUMAN_INITPERD	NUMBER	0014H	679#
HUMAN_INTERVAL	NUMBER	000FH	680#
HUMAN_LLIMIT	NUMBER	-3800H	787#
HUMAN_LLIMITH	NUMBER	-003AH	782#
HUMAN_NOW_FL	V BYTE	11D2H	ALLSEG PUBLIC 1815 2554#
HUMAN_PNTOBJ	V BYTE	12CDH	ALLSEG PUBLIC 1810 2711#
HUMAN_PNTPTR	V WORD	10B7H	ALLSEG PUBLIC 1811 2475#
HUMAN_RECVPERD	NUMBER	00B4H	676#
HUMAN_RLIMIT	NUMBER	3800H	786#
HUMAN_RLIMITH	NUMBER	003AH	781#
HUMAN_SCORE2	V BYTE	12CEH	ALLSEG PUBLIC 1812 2713#
HUMAN_SCORE3	V BYTE	12CFH	ALLSEG PUBLIC 1813 2714#
HUMAN_START_ROUND	NUMBER	0004H	636#
HUMAN_TOOKOFF_FL	V BYTE	11D0H	ALLSEG PUBLIC 1814 2552#
HUMAN_ULIMIT	NUMBER	-3700H	789#
HUMAN_ULIMITH	NUMBER	-0039H	784#
HUMAN_XHOME	NUMBER	0076H	875#
HUMAN_YHOME	NUMBER	0081H	876#
HUMANPAR	STRUCT		SIZE=0014H #FIELDS=12 1618 1636# 2477
HUMANSPEED_MASK	NUMBER	001FH	674#

NAME TYPE VALUE ATTRIBUTES, XREFS

HXACC	V WORD	0008H	S FIELD	1625#
HXPOS	V WORD	0000H	S FIELD	1620#
HXVEL	V WORD	0004H	S FIELD	1622#
HYACC	V WORD	000AH	S FIELD	1626#
HYPOS	V WORD	0002H	S FIELD	1621#
HYVEL	V WORD	0008H	S FIELD	1623#
I	NUMBER	001CH		1048#
IAVEL	V WORD	0002H	S FIELD	1555#
IB_XRANGE1.	NUMBER	0380H		800#
IB_XRANGE2.	NUMBER	0100H		802#
IB_YRANGE1.	NUMBER	0480H		801#
IB_YRANGE2.	NUMBER	0180H		803#
IBVEL	V WORD	0004H	S FIELD	1556#
ICPOS	V WORD	0000H	S FIELD	1554#
INF_SPEED_PTR	V WORD	12B4H	ALLSEG PUBLIC	1847 2689#
INF_XLIMIT0	NUMBER	000FH		747#
INF_XLIMIT1	NUMBER	0014H		750#
INF_XLIMIT2	NUMBER	0019H		753#
INF_YLIMIT0	NUMBER	0012H		748#
INF_YLIMIT1	NUMBER	0019H		751#
INF_YLIMIT2	NUMBER	0020H		754#
INI_TIME_POS.	NUMBER	01D6H		569#
INI_TIMEOUT	V BYTE	13FFH	ALLSEG PUBLIC	1822 2900#
INI_TIMER	V BYTE	1400H	ALLSEG PUBLIC	1823 2901#
INIT_COUNT.	V BYTE	11DCH	ALLSEG PUBLIC	1974 2581#
INITIAL	V BYTE	000BH	S FIELD	1660#
INITIALX1	V BYTE	000CH	S FIELD	1661#
INITIALX2	V BYTE	000DH	S FIELD	1662#
INT_BREAK_POINT	V WORD	000CH	ALLSEG PUBLIC	1819 202B#
INT_DIV_ERROR	V WORD	0000H	ALLSEG PUBLIC	1816 2022#
INT_MSG	L NEAR	0000H	EXTRN	1960# 2022 2024 2028 2030 2032 2034 2036
INT_NMI	V WORD	0008H	ALLSEG PUBLIC	1818 2026#
INT_OVERFLOW.	V WORD	0010H	ALLSEG PUBLIC	1820 2030#
INT_RESERVED.	V WORD	0014H	ALLSEG PUBLIC	1821 2032#
INT_SINGLE_STEP	V WORD	0004H	ALLSEG PUBLIC	1817 2024#
IXXX	V WORD	0006H	S FIELD	1557#
J	NUMBER	001DH		1049#
JOYSTICK.	V BYTE	5804H	ALLSEG PUBLIC	1824 2969#
JS_VALUE.	V BYTE	1305H	ALLSEG PUBLIC	1825 2739#
JSALL_MASK.	NUMBER	000FH		600#
JSDN_MASK	NUMBER	0004H		604#
JSLT_MASK	NUMBER	0008H		602#
JSRT_MASK	NUMBER	0002H		601#
JSUP_MASK	NUMBER	0001H		603#
K	NUMBER	001EH		1050#
KACTION	V WORD	0020H	S FIELD	1366#
KECTR	V BYTE	0022H	S FIELD	1367#
KEEP_FIVE_FL.	V BYTE	11E9H	ALLSEG PUBLIC	1986 2587#
KEEP_MPOS_FL.	V BYTE	1304H	ALLSEG PUBLIC	1826 2735#
KEJECT_PERD	V BYTE	12AFH	ALLSEG PUBLIC	1834 2685#
KEMAX	V BYTE	0007H	S FIELD	1345#
KEPTR	V WORD	0008H	S FIELD	1347#
KEXP_COLOR.	NUMBER	0950H		842#
KEXP_DIFF	NUMBER	0210H		843#
KFECTR.	V BYTE	001FH	S FIELD	1364#

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
KHPN	V BYTE	1196H	ALLSEG PUBLIC 1833 2492#
KIBRANG	V BYTE	0004H	S FIELD 1400#
KILL_TIMER	V WORD	11D4H	ALLSEG PUBLIC 1829 2556#
KILL_TOGO	V BYTE	131EH	ALLSEG PUBLIC 1827 2786#
KILL_TOGO_I	V BYTE	1358H	ALLSEG 2872#
KILLER_KRYPT_FL	V BYTE	11D1H	ALLSEG PUBLIC 1828 2553#
KILLER_PERD	NUMBER	0960H	638#
KINTVL	V BYTE	0017H	S FIELD 1357#
KINUM	V BYTE	0003H	S FIELD 1399#
KIOSN	V BYTE	0002H	S FIELD 1398#
KIPAR	STRUCT		SIZE=0007H #FIELDS=7 1394 1404#
KIPPTR	V WORD	000AH	S FIELD 1348#
KISTEEF	V BYTE	0016H	S FIELD 1356#
KIXHOME	V BYTE	0000H	S FIELD 1396#
KIXLIMIT	V BYTE	0005H	S FIELD 1401#
KIXPTR	V WORD	000CH	S FIELD 1349#
KIYHOME	V BYTE	0001H	S FIELD 1397#
KIYLIMIT	V BYTE	0006H	S FIELD 1402#
KJOB_FL	V BYTE	1198H	ALLSEG PUBLIC 1835 2495#
KLAST	V WORD	0002H	S FIELD 1342#
KMASS	V BYTE	0023H	S FIELD 1368#
KMASS_1ST	V BYTE	1286H	ALLSEG PUBLIC 1830 2691#
KMASS_MAD	V BYTE	1287H	ALLSEG PUBLIC 1831 2692#
KMRANG	V BYTE	000EH	S FIELD 1350#
KNEXT	V WORD	0000H	S FIELD 1341#
KORBIT	V WORD	000FH	S FIELD 1351#
KOSHIFTX	NUMBER	0006H	903#
KOSHIFTY	NUMBER	000CH	904#
KOSHIFTZ	NUMBER	0018H	905#
KPACKFL	V BYTE	001DH	S FIELD 1362#
KPBRANG	V BYTE	0004H	S FIELD 1385#
KPNUM	V BYTE	0003H	S FIELD 1384#
KPOSN	V BYTE	0002H	S FIELD 1383#
KPPAR	STRUCT		SIZE=0007H #FIELDS=6 1379 1388#
KPPTR	V WORD	0024H	S FIELD 1369#
KPSCORE	V WORD	0005H	S FIELD 1386#
KPXHOME	V BYTE	0000H	S FIELD 1381#
KPYHOME	V BYTE	0001H	S FIELD 1382#
KRYPTAR	STRUCT		SIZE=0026H #FIELDS=25 1339 1371# 2404 2406 2408 2410 2412
KRYPTEXP_PERD	NUMBER	000AH	655#
KRYPT_CTR	V BYTE	119CH	ALLSEG PUBLIC 1846 2499#
KRYPT_DLIMIT	NUMBER	3300H	768#
KRYPT_LLIMIT	NUMBER	-3700H	767#
KRYPT_RLIMIT	NUMBER	3700H	766#
KRYPT_SAFE_PERD	NUMBER	000BH	653#
KRYPT_TOGO	V BYTE	128CH	ALLSEG PUBLIC 1836 2697#
KRYPT_ULIMIT	NUMBER	-3300H	769#
KRYPTO_DATA	V 38	0CE9H	ALLSEG PUBLIC 1937 2404#
KRYPT1_DATA	V 38	0D0FH	ALLSEG PUBLIC 1838 2406#
KRYPT2_DATA	V 38	0D35H	ALLSEG PUBLIC 1839 2408#
KRYPT3_DATA	V 38	0D5BH	ALLSEG PUBLIC 1840 2410#
KRYPT4_DATA	V 38	0DB1H	ALLSEG PUBLIC 1841 2412#
KSAFE	V BYTE	0018H	S FIELD 1359#
KSIZE	V BYTE	0006H	S FIELD 1344#
KSLDT	V WORD	0004H	S FIELD 1343#

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
KSPED_ABS_MAX . . .	NUMBER	000AH	643#
KSPED_CONT . . .	V BYTE	1320H	ALLSEG PUBLIC 1844 2786#
KSPED_CONT_I . . .	V BYTE	135AH	ALLSEG 2874#
KSPED_MAX . . .	V BYTE	12BEH	ALLSEG PUBLIC 1842 2700#
KSPED_MIN. . . .	V BYTE	12BFH	ALLSEG PUBLIC 1843 2701#
KST_DEAD. . . .	NUMBER	0005H	898#
KST_EXP	NUMBER	0003H	896#
KST_INACT	NUMBER	0004H	897#
KST_NOEJ. . . .	NUMBER	0000H	893#
KST_OKEJ. . . .	NUMBER	0001H	894#
KST_RDYEJ	NUMBER	0002H	895#
KSTAT	V BYTE	001EH	S FIELD 1363#
KTIMER. . . .	V BYTE	0015H	S FIELD 1355#
KVPN. . . .	V BYTE	1195H	ALLSEG PUBLIC 1832 2491#
KXOBJECT. . . .	V WORD	12E0H	ALLSEG PUBLIC 1845 2722#
KXPOS	V WORD	0011H	S FIELD 1353#
KKVEL	V WORD	0019H	S FIELD 1360#
KYPOS	V WORD	0013H	S FIELD 1354#
KYVEL	V WORD	001BH	S FIELD 1361#
L	NUMBER	001FH	1051#
LEAP_SEC_CTR. . . .	V BYTE	09EFH	ALLSEG PUBLIC 1848 2332#
LOC	V BYTE	0000H	S FIELD 1649#
LOCK1	V BYTE	0001H	S FIELD 1650#
LOCK2	V BYTE	0002H	S FIELD 1651#
LOGO_XPOS	V BYTE	1201H	ALLSEG PUBLIC 1995 2606#
LOGO_YPOS	V BYTE	1202H	ALLSEG PUBLIC 1996 2607#
LOWH. . . .	V WORD	002EH	S FIELD 1606#
LOWL. . . .	V WORD	002CH	S FIELD 1605#
LTBLUE. . . .	NUMBER	007AH	1019#
LTGRAY. . . .	NUMBER	0999H	1025#
LTGREEN. . . .	NUMBER	0490H	1017#
LTPURPLE. . . .	NUMBER	0F0FH	1022#
LTYELLOW. . . .	NUMBER	0FFOH	1016#
M	NUMBER	002AH	1052#
MACTIMP	V WORD	000EH	S FIELD 1325#
MAD_FACTOR. . . .	NUMBER	001FH	739#
MAGNA_DATA. . . .	V 25	12E9H	ALLSEG PUBLIC 1851 2731#
MAGNA_DLIMIT. . . .	NUMBER	3500H	758#
MAGNA_DX_SPEED. . . .	NUMBER	00CCH	726#
MAGNA_DY_SPEED. . . .	NUMBER	00FCH	727#
MAGNA_LLIMIT. . . .	NUMBER	-3900H	757#
MAGNA_RLIMIT. . . .	NUMBER	3900H	736#
MAGNA_SIZE. . . .	NUMBER	0008H	928#
MAGNA_SX_SPEED. . . .	NUMBER	0122H	724#
MAGNA_SY_SPEED. . . .	NUMBER	0168H	725#
MAGNA_ULIMIT. . . .	NUMBER	-3500H	759#
MAGNA_XHOME	NUMBER	0076H	857#
MAGNA_YHOME	NUMBER	0089H	858#
MAGPAR. . . .	STRUC		SIZE=0019H #FIELDS=16 1313 1333# 2731
MASTER_CLK. . . .	V WORD	0020H	ALLSEG PUBLIC 1850 2060#
MAX_BULLET_LIFE . . .	NUMBER	0019H	731#
MAX_BULLET_LIFE2. . .	NUMBER	0014H	732#
MAX_CREDIT. . . .	NUMBER	0025H	699#
MAX_FLYEL	V BYTE	12BDH	ALLSEG PUBLIC 1853 2698#
MAX_NUM_FLYEL . . .	NUMBER	0003H	704#

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
MAX_NUM_HUMANS	NUMBER	000AH	707#
MAX_NUM_KRYPT	NUMBER	0005H	705#
MAX_NUM_SEEDS	NUMBER	0010H	706#
MAX_NUM_SHIPS	NUMBER	0006H	703#
MCTR	V BYTE	0018H	S FIELD 1331#
MDBLUE	NUMBER	006AH	1020#
MDPURPLE	NUMBER	0F0AH	1023#
MEM_VALID_FL	V BYTE	0336H	ALLSEG PUBLIC 1987 2136#
MEXP_COLOR	NUMBER	0F80H	846#
MEXP_DATA	V DWORD	107EH	ALLSEG PUBLIC 1859 2441#
MEXP_DIFF	NUMBER	0210H	847#
MEXP_EX_TIMER	V BYTE	11CBH	ALLSEG PUBLIC 1852 2546#
MEXTRA_PERD	NUMBER	0078H	651#
MHPN	V BYTE	0009H	S FIELD 1321#
MHXRANGE	NUMBER	0003H	791#
MHYRANGE	NUMBER	0003H	792#
MIN_BULLET_LIFE	NUMBER	000CH	733#
MIN_EMASS	V BYTE	12B9H	ALLSEG PUBLIC 1849 2694#
MIN_KMASS	NUMBER	0003H	740#
MLAST	V WORD	0002H	S FIELD 1316#
MNEXT	V WORD	0000H	S FIELD 1315#
MOSN	V BYTE	000AH	S FIELD 1322#
MRESET_XPOS	NUMBER	1800H	854#
MRESET_YPOS	NUMBER	0000H	855#
MSG_DISP_POS	V WORD	13FCH	ALLSEG PUBLIC 1854 2898#
MSIZE	V BYTE	0006H	S FIELD 1318#
MSLOT	V WORD	0004H	S FIELD 1317#
MST_EXP	NUMBER	0001H	885#
MST_NORM	NUMBER	0000H	884#
MSTAT	V BYTE	0007H	S FIELD 1319#
MTIMER	V BYTE	000BH	S FIELD 1323#
MTIMER2	V WORD	000CH	S FIELD 1324#
MVPN	V BYTE	000BH	S FIELD 1320#
MX_DSNPTR	V WORD	11B8H	ALLSEG PUBLIC 1858 2523#
MX_PERDPTR	V WORD	11B6H	ALLSEG PUBLIC 1857 2522#
MXDPAR	STRUCT		SIZE=0004H #FIELDS=2 1588 1593# 2441
MXOBJ_CTR	V BYTE	11B5H	ALLSEG PUBLIC 1856 2521#
MXOUT_POS	NUMBER	4600H	719#
MXPOS	V WORD	0010H	S FIELD 1327#
MXPPAR	STRUCT		SIZE=0006H #FIELDS=4 1575 1582#
MXVEL	V WORD	0014H	S FIELD 1329#
MYPOS	V WORD	0012H	S FIELD 1328#
MYVEL	V WORD	0016H	S FIELD 1330#
N	NUMBER	002BH	1053#
NASTIER_FL	V BYTE	11B0H	ALLSEG 2513#
NASTY_COMET_FL	V BYTE	11D6H	ALLSEG PUBLIC 1860 2557#
NASTY_CTR	V BYTE	11AFH	ALLSEG 2512#
NEIL_CTR	V WORD	11F2H	ALLSEG PUBLIC 1976 2596#
NEIL_CTR2	V WORD	11F4H	ALLSEG PUBLIC 1977 2587#
NEIL_CTR3	V WORD	11F6H	ALLSEG PUBLIC 1978 2598#
NEIL_CTR4	V WORD	11FBH	ALLSEG PUBLIC 1979 2599#
NEIL_X1	V WORD	11FBH	ALLSEG PUBLIC 1980 2602#
NEIL_X2	V WORD	11FDH	ALLSEG PUBLIC 1981 2603#
NEIL_X3	V WORD	11FFH	ALLSEG PUBLIC 1982 2604#
NEW_DAY_PERD	NUMBER	0009H	648#

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
NEW_INITS	V BYTE	1100H	ALLSEG PUBLIC 1975 2584#
NEWP.	NUMBER	-0003H	1108# 1649 2584 2585
NHI_CAME_FL	V BYTE	09EAH	ALLSEG PUBLIC 1855 2323#
NO_MORE_SHIP_FL	V BYTE	130BH	ALLSEG PUBLIC 1861 2766#
NOMORESHIPFL_I	V BYTE	1345H	ALLSEG 2852#
NUM_BULLETS	NUMBER	0003H	707#
NUM_COINS	V WORD	0532H	ALLSEG PUBLIC 1862 2120#
NUM_ELECTRONS	NUMBER	0016H	711#
NUM_FLASH	V BYTE	1204H	ALLSEG PUBLIC 1984 2612#
NUM_FLASHING.	V BYTE	1203H	ALLSEG PUBLIC 1983 2611#
NUM_HUMANS.	V BYTE	12CCH	ALLSEG PUBLIC 1866 2710#
NUM_KRYPTONS.	V BYTE	12BBH	ALLSEG PUBLIC 1863 2696#
NUM_MAGNAOJBS	NUMBER	0010H	710#
NUM_MAPPIECES.	NUMBER	0008H	718#
NUM_DSLOTS.	NUMBER	0040H	932#
NUM_PERF_SOUND.	NUMBER	0004H	672#
NUM_ROMS.	NUMBER	0005H	532#
NUM_SHIP_MASK	NUMBER	0020H	586#
NUM_SHIPS	V BYTE	130AH	ALLSEG PUBLIC 1864 2765#
NUM_SHIPS_I	V BYTE	1344H	ALLSEG PUBLIC 1865 2851#
NUM_SPINS	NUMBER	0001H	716#
NUM_STARS	NUMBER	003DH	712#
NUMSUM.	V WORD	0034H	S FIELD 1607#
O	NUMBER	002CH	1054#
OBULLET	NUMBER	0001H	954#
OCOMETA	NUMBER	007BH	961#
OCOMETB	NUMBER	008BH	962#
OCOMEPI.	NUMBER	0005H	964#
OCOMEPI2.	NUMBER	00D6H	965#
OELECEXP_PERD	NUMBER	0014H	656#
OELECT.	NUMBER	0046H	958#
OELECTEXP	NUMBER	0003H	959#
DFLYEL.	NUMBER	0048H	957#
DHEXP	NUMBER	000AH	984#
DHUMANIA.	NUMBER	0036H	968#
DHUMANIB.	NUMBER	0047H	969#
DHUMANIC.	NUMBER	00CFH	970#
DHUMANZA.	NUMBER	00AFH	972#
DHUMANZB.	NUMBER	00B3H	973#
DHUMANZC.	NUMBER	00C9H	974#
DHUMANZA.	NUMBER	00CAH	976#
DHUMANZB.	NUMBER	00CBH	977#
DHUMANZC.	NUMBER	00CCH	978#
DHUMAN4A.	NUMBER	0036H	980#
DHUMAN4B.	NUMBER	0047H	981#
DHUMAN4C.	NUMBER	00CFH	982#
DMAGNA.	NUMBER	0016H	930#
ONE_GOVER_PERD.	NUMBER	007BH	667#
DP10.	NUMBER	0047H	989#
DP100.	NUMBER	00B0H	991#
DP1000.	NUMBER	00DBH	1000#
DP200.	NUMBER	00B1H	992#
DP300.	NUMBER	00D9H	993# 1542
DP400.	NUMBER	00B2H	994#
DP50.	NUMBER	00CFH	990#

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
DP500	NUMBER	000CH	995#
DP600	NUMBER	00D8H	996#
DP700	NUMBER	00D0H	997#
DP800	NUMBER	00D7H	998#
DP900	NUMBER	00DAH	999#
ORANGE.	NUMBER	0F40H	1014#
ORB_ADV_FL.	V BYTE	1199H	ALLSEG PUBLIC 1867 2496#
ORB_CYCLE	V BYTE	1197H	ALLSEG PUBLIC 1869 2494#
OREPAR.	STRUCT		SIZE=0005H #FIELDS=3 1301 1307#
OSEED	NUMBER	0037H	952#
DSN	V BYTE	0002H	S FIELD 1290#
OUTPORT	V BYTE	5800H	ALLSEG PUBLIC 1868 2945#
P	NUMBER	002DH	1055#
PACKET.	V WORD	0004H	S FIELD 1477#
PACPAR.	STRUCT		SIZE=0007H #FIELDS=4 1473 1480# 2724
PANEL	V BYTE	5801H	ALLSEG PUBLIC 1883 2952#
PARMS	V BYTE	052AH	ALLSEG PUBLIC 1870 2107#
PB_XRANGE1.	NUMBER	0480H	805#
PB_XRANGE2.	NUMBER	0200H	807#
PB_YRANGE1.	NUMBER	0600H	806#
PB_YRANGE2.	NUMBER	0300H	808#
PCHK.	V WORD	0530H	ALLSEG PUBLIC 1871 2118#
PERD.	NUMBER	0097H	1073#
PERF_DISP_FL.	V BYTE	11C0H	ALLSEG PUBLIC 1875 2531#
PERF_SOUND_CTR.	V BYTE	11C6H	ALLSEG PUBLIC 1876 2540#
PERF_SOUND_PERD	NUMBER	0019H	671#
PERF_SOUND_TIMER.	V BYTE	11C5H	ALLSEG PUBLIC 1877 2539#
PERFECT_FL.	V BYTE	1321H	ALLSEG PUBLIC 1873 2789#
PERFECT_FL_I.	V BYTE	1358H	ALLSEG 2875#
PERFECT_PERD.	NUMBER	0046H	669#
PERFECT_PERD2	NUMBER	00CBH	670#
PERFECT_TIMER	V BYTE	11BFH	ALLSEG PUBLIC 1874 2530#
PFIN.	V BYTE	0530H	ALLSEG PUBLIC 1872 2116#
PLAST	V WORD	0002H	S FIELD 1476#
PLAY_TIME	V WORD	131CH	ALLSEG PUBLIC 1880 2785#
PLAY_TIME_FL.	V BYTE	09ECH	ALLSEG PUBLIC 1879 2328#
PLAY_TIME_I	V WORD	1356H	ALLSEG PUBLIC 1881 2871#
PLAYER_ID	V BYTE	12A0H	ALLSEG PUBLIC 1878 2661#
PNEXT	V WORD	0000H	S FIELD 1475#
POWER_OFF_FL.	V BYTE	09EEH	ALLSEG PUBLIC 1882 2331#
PSIZE	V BYTE	0006H	S FIELD 1478#
Q	NUMBER	002EH	1056#
QST_ACTIVE.	NUMBER	-0001H	900#
QST_INACTIVE.	NUMBER	0000H	901#
QUE_FL.	V BYTE	11A6H	ALLSEG PUBLIC 1885 2503#
QUE_PTR	V WORD	11A7H	ALLSEG PUBLIC 1884 2509#
QUE_TABLE	V BYTE	11A9H	ALLSEG PUBLIC 1886 2510#
R	NUMBER	002FH	1057#
R1.	NUMBER	0020H	1081#
R10	NUMBER	0029H	1090#
R11	NUMBER	0030H	1091#
R12	NUMBER	0031H	1092#
R13	NUMBER	0032H	1093#
R14	NUMBER	0033H	1094#
R15	NUMBER	0034H	1095#

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
R16	NUMBER	0035H	1096#
R17	NUMBER	0036H	1097#
R18	NUMBER	0037H	1098#
R19	NUMBER	0038H	1099#
R2.	NUMBER	0021H	1082#
R20	NUMBER	0039H	1100#
R3.	NUMBER	0022H	1083#
R4.	NUMBER	0023H	1084#
R5.	NUMBER	0024H	1085#
R6.	NUMBER	0025H	1086#
R7.	NUMBER	0026H	1087#
R8.	NUMBER	0027H	1088#
R9.	NUMBER	0028H	1089#
RACCEL_MASK . . .	V BYTE	000CH	S FIELD 1526#
RAM_TEST_CYCLES . .	NUMBER	0010H	912#
RANDOM.	V WORD	129DH	ALLSEG PUBLIC 1887 2653#
RBGND_SOUND . . .	V BYTE	001BH	S FIELD 1539#
RCOLOR_SET_PTR. . .	V WORD	001CH	S FIELD 1540#
RCOMET_BPTR . . .	V WORD	0018H	S FIELD 1537#
RCOMET_GRACPERD . .	V WORD	0012H	S FIELD 1533#
RCOMET_PTR. . . .	V WORD	0016H	S FIELD 1535#
RCOMET_RECVPERD . .	V WORD	0014H	S FIELD 1534#
READY_PERD. . . .	NUMBER	005AH	668#
RECOV_PERD. . . .	V BYTE	12B1H	ALLSEG PUBLIC 1888 2687#
RED	NUMBER	0000H	1013#
REJECT_MASK	V WORD	0004H	S FIELD 1519#
REMAIN_RAM.	V BYTE	0020H	ALLSEG PUBLIC 1889 2056# 2275
REMASS_1ST.	V BYTE	000AH	S FIELD 1524#
RFLYEL_LIMIT. . . .	V BYTE	001AH	S FIELD 1538#
RGRACE_PERD	V BYTE	0000H	S FIELD 1515#
RHUMAN_PNTOBJ . . .	V BYTE	001FH	S FIELD 1542#
RHUMAN_SCORE. . . .	V WORD	0020H	S FIELD 1544#
RINF_SPEED_PTR. . .	V WORD	0006H	S FIELD 1520#
RKEJECT_PERD. . . .	V BYTE	0001H	S FIELD 1516#
RKEMAX.	V BYTE	0001H	S FIELD 1501#
RKEPTR.	V WORD	0002H	S FIELD 1502#
RKMASS_1ST.	V BYTE	0008H	S FIELD 1522#
RKMASS_MAD.	V BYTE	0009H	S FIELD 1523#
RKMRANG	V BYTE	0008H	S FIELD 1505#
RKORBIT	V WORD	0009H	S FIELD 1506#
RKPAR	STRUC		SIZE=000BH #FIELDS=7 1498 1508#
RKPPTR.	V WORD	0004H	S FIELD 1503#
RKRYPT_TOGO	V BYTE	000EH	S FIELD 1528#
RKSIZE.	V BYTE	0000H	S FIELD 1500#
RKSPEED_MAX	V BYTE	0010H	S FIELD 1531#
RKSPEED_MIN	V BYTE	0011H	S FIELD 1532#
RKXPTR.	V WORD	0006H	S FIELD 1504#
RMAX_FLYEL.	V BYTE	000FH	S FIELD 1529#
RMIN_EMASS.	V BYTE	000BH	S FIELD 1525#
RND_CLR_AREA.	V BYTE	0BE9H	ALLSEG PUBLIC 1893 2363# 2561
RND_POS1.	NUMBER	033EH	563#
RND_POS2.	NUMBER	009EH	564#
RNUM_HUMANS	V BYTE	001EH	S FIELD 1541#
RNUM_KRYPTONS . . .	V BYTE	000DH	S FIELD 1527#
ROM_TEST_CYCLES . .	NUMBER	0010H	911#

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
ROUND_CTR	V BYTE	1319H	ALLSEG PUBLIC 1891 2783#
ROUND_CTR_I	V BYTE	1353H	ALLSEG PUBLIC 1892 2869#
ROUND_OPT_MASK.	NUMBER	0008H	579#
ROUND_STAY_CLK.	V WORD	11CCH	ALLSEG PUBLIC 1890 2548#
ROUND_THRES	NUMBER	0014H	620#
RPT_PTR	V WORD	131AH	ALLSEG PUBLIC 1894 2784#
RPT_PTR_I	V WORD	1354H	ALLSEG 2870#
RPT_VAR	V BYTE	12AEH	ALLSEG PUBLIC 1895 2682#
RPTPAR.	STRUCT		SIZE=0022H #FIELDS=26 1513 1546#
RRECOV_PERD	V BYTE	0003H	S FIELD 1518#
RSPSM_NDEJ_PERD	V BYTE	0002H	S FIELD 1517#
S	NUMBER	003AH	1058#
SAME_PLAYER_FL.	V BYTE	1302H	ALLSEG PUBLIC 1896 2733#
SC_BOND1.	NUMBER	-000CH	1190#
SC_BOND2.	NUMBER	-000DH	1191#
SC_BOND3.	NUMBER	-000EH	1192#
SC_BOND4.	NUMBER	-000FH	1193#
SC_BK_HIT.	NUMBER	-0003H	1173#
SC_CEXP.	NUMBER	-0010H	1161#
SC_COIN.	NUMBER	-0012H	1125#
SC_COMET.	NUMBER	-000BH	1145#
SC_EEXP.	NUMBER	-0009H	1169#
SC_EJECT.	NUMBER	-0002H	1177#
SC_EXTSHIP.	NUMBER	-0007H	1129#
SC_FEXP.	NUMBER	-0009H	1165#
SC_HENTER.	NUMBER	-0029H	1153#
SC_HPICK.	NUMBER	-0015H	1157#
SC_KEXP.	NUMBER	-0004H	1149#
SC_MEXP.	NUMBER	-0005H	1137#
SC_MSPIN.	NUMBER	-0013H	1141#
SC_NO_MUSIC.	NUMBER	-002DH	1121#
SC_ROUND.	NUMBER	-000AH	1133#
SC_STOP.	NUMBER	-002DH	1119#
SC_TRIGGER.	NUMBER	-0006H	1181#
SCHAR_TIMER	V BYTE	0000H	S FIELD 1461#
SCORE	V BYTE	0003H	S FIELD 1652#
SCORE_ADR_A	V WORD	1308H	ALLSEG PUBLIC 1898 2764#
SCORE_ADR_I	V WORD	1342H	ALLSEG PUBLIC 1899 2850#
SCORE_POS1.	NUMBER	03A1H	556#
SCORE_POS2.	NUMBER	0121H	557#
SCORE_POSH.	NUMBER	0241H	558#
SCORE0.	V BYTE	1313H	ALLSEG PUBLIC 1900 2775#
SCORE0_I.	V BYTE	134DH	ALLSEG 2861#
SCORE1.	V BYTE	1312H	ALLSEG PUBLIC 1901 2774#
SCORE1_I.	V BYTE	134CH	ALLSEG 2860#
SCORE2.	V BYTE	1311H	ALLSEG PUBLIC 1902 2773#
SCORE2_I.	V BYTE	134BH	ALLSEG 2859#
SCORE3.	V BYTE	1310H	ALLSEG PUBLIC 1903 2772#
SCORE3_I.	V BYTE	134AH	ALLSEG 2858#
SCORE4.	V BYTE	130FH	ALLSEG PUBLIC 1904 2771#
SCORE4_I.	V BYTE	1349H	ALLSEG 2857#
SCORE5.	V BYTE	130EH	ALLSEG PUBLIC 1905 2770#
SCORE5_I.	V BYTE	1348H	ALLSEG 2856#
SCORE6.	V BYTE	130DH	ALLSEG PUBLIC 1906 2769#
SCORE6_I.	V BYTE	1347H	ALLSEG 2855#

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
SCORE7	V BYTE	130CH	ALLSEG PUBLIC 1907 2764#
SCORE7_I	V BYTE	1346H	ALLSEG PUBLIC 1908 2854#
SCOREX1	V BYTE	0004H	S FIELD 1653#
SCOREX2	V BYTE	0005H	S FIELD 1654#
SCOREX3	V BYTE	0006H	S FIELD 1655#
SCOREX4	V BYTE	0007H	S FIELD 1656#
SCOREX5	V BYTE	0008H	S FIELD 1657#
SCOREX6	V BYTE	0009H	S FIELD 1658#
SCOREX7	V BYTE	000AH	S FIELD 1659#
SCRATCH_PAD	V BYTE	09E7H	ALLSEG PUBLIC 1897 2280# 2380
SCREEN_CTRL	V BYTE	5803H	ALLSEG PUBLIC 1931 2963#
SEED_DATA	V WORD	OFFEH	ALLSEG PUBLIC 1909 2435#
SEED_END	V BYTE	107EH	ALLSEG PUBLIC 1910 2437#
SEED_MUX_CTR	V WORD	11A3H	ALLSEG PUBLIC 1912 2505#
SEED_PTR	V WORD	12A6H	ALLSEG PUBLIC 1911 2670#
SEED_XHOME	NUMBER	0076H	869#
SEED_YHOME	NUMBER	0081H	870#
SEEDPAR	STRUCT		SIZE=0008H #FIELDS=4 1484 1491# 2435
SHIP_POS1	NUMBER	02FEH	560#
SHIP_POS2	NUMBER	00DEH	561#
SHIP_SET	V BYTE	052CH	ALLSEG PUBLIC 1913 2111#
SHIPS_EASY_GAME	NUMBER	0005H	702#
SHIPS_PER_GAME	NUMBER	0003H	701#
SHOTGUN_CTR	V BYTE	12A8H	ALLSEG PUBLIC 1914 2672#
SHOTGUN_FACTOR	NUMBER	0006H	735#
SHOTGUN_FACTOR2	NUMBER	0009H	736#
SIMU_ENTRY_FL	V BYTE	09F5H	ALLSEG PUBLIC 1916 2337#
SIMULATE_FL	V BYTE	1303H	ALLSEG PUBLIC 1915 2734#
SLAM_MASK	NUMBER	0004H	615#
SLOTN	V BYTE	0000H	S FIELD 1303#
SOUND_CODE	V BYTE	12A1H	ALLSEG PUBLIC 1927 2665#
SOUND_FL	V BYTE	12A5H	ALLSEG PUBLIC 1930 2668#
SOUND_OUT	V BYTE	5802H	ALLSEG PUBLIC 1925 2958#
SOUND_PRIOR	V BYTE	12A2H	ALLSEG PUBLIC 1928 2666#
SOUND_TIMER	V WORD	12A3H	ALLSEG PUBLIC 1929 2667#
SP_BKHT	NUMBER	0002H	1174#
SP_CEXP	NUMBER	0005H	1162#
SP_COIN	NUMBER	000FH	1126#
SP_COMET	NUMBER	0008H	1146#
SP_EEXP	NUMBER	0003H	1170#
SP_EJECT	NUMBER	0002H	1178#
SP_EXTSHIP	NUMBER	000EH	1130#
SP_FEXP	NUMBER	0004H	1166#
SP_HENTER	NUMBER	0006H	1154#
SP_HPICK	NUMBER	0006H	1158#
SP_KEXP	NUMBER	0007H	1150#
SP_MEXP	NUMBER	000AH	1138#
SP_MSPIN	NUMBER	0009H	1142#
SP_NOMUSIC	NUMBER	004DH	1122#
SP_ROUND	NUMBER	000BH	1134#
SP_TRIGGER	NUMBER	0001H	1182#
SPACE	NUMBER	0077H	1071#
SPASM_PERD	NUMBER	0008H	654#
SPIN_ANGLE	NUMBER	0002H	717#
SPIN_CTR	V BYTE	11B3H	ALLSEG PUBLIC 1917 2518#

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
SPIN_DIR	V BYTE	1184H	ALLSEG PUBLIC 1918 2519#
SPIN_FRAMES	NUMBER	0002H	715#
SPIX_TIMER	V BYTE	0001H	S FIELD 1462#
SPIXEL_PTR	V WORD	0004H	S FIELD 1464#
SPOSITION	V WORD	0006H	S FIELD 1465#
SPSM_NOEJ_PERD	V BYTE	12B0H	ALLSEG PUBLIC 1920 2686#
SSWO	V BYTE	5800H	ALLSEG PUBLIC 1925 2946#
ST_BKHT	NUMBER	0005H	1175#
ST_CEXP	NUMBER	0019H	1163#
ST_COIN	NUMBER	0023H	1127#
ST_COMET	NUMBER	002DH	1147#
ST_EEXP	NUMBER	0005H	1171#
ST_EJECT	NUMBER	0006H	1179#
ST_EXITSHIP	NUMBER	003CH	1131#
ST_FEXP	NUMBER	0005H	1167#
ST_HENTER	NUMBER	0014H	1155#
ST_HPICK	NUMBER	001EH	1159#
ST_KEXP	NUMBER	003CH	1151#
ST_MEXP	NUMBER	00B4H	1139#
ST_MSPIN	NUMBER	0078H	1143#
ST_NOMUSIC	NUMBER	0001H	1123#
ST_ROUND	NUMBER	001EH	1135#
ST_TRIGGER	NUMBER	0003H	1183#
STABLE_PTR	V WORD	0002H	S FIELD 1463#
STACK_BOTTOM	V WORD	13FAH	ALLSEG PUBLIC 1921 2895#
STAR_DATA	V QWORD	09F9H	ALLSEG PUBLIC 1924 2355#
STAR_DIR_FL	V BYTE	09F6H	ALLSEG PUBLIC 1922 2338#
STAR_DUST_FL	V BYTE	09F4H	ALLSEG PUBLIC 1923 2336#
STARPAR	STRUCT		SIZE=0008H #FIELDS=5 1459 1467# 2355 2357
START_ONE_MASK	NUMBER	0020H	608#
START_TWO_MASK	NUMBER	0040H	609#
STATCTR	V WORD	0000H	S FIELD 1602#
STATPAR	STRUCT		SIZE=0038H #FIELDS=9 1600 1612# 2084 2085 2086 2088 2089 2090 2092 2093 2094
STD_COLOR	NUMBER	0F72H	622#
STORE_VAR	V BYTE	1342H	ALLSEG PUBLIC 1919 2848#
STORED_CHKSUM	NUMBER	FFEOH	534#
SUMH	V WORD	0032H	S FIELD 1608#
SUML	V WORD	0030H	S FIELD 1607#
SXPOS	V WORD	0000H	S FIELD 1486#
SXVEL	V WORD	0004H	S FIELD 1488#
SYPOS	V WORD	0002H	S FIELD 1487#
SYVEL	V WORD	0006H	S FIELD 1489#
T	NUMBER	003BH	1059#
TABLE_DATUM	V WORD	1305H	ALLSEG PUBLIC 1932 2737#
TABLE_EMPTY_FL	V BYTE	11EFH	ALLSEG PUBLIC 1999 2594#
TABLE_FULL_FL	V BYTE	11EEH	ALLSEG PUBLIC 1998 2593#
TARG3	V BYTE	1318H	ALLSEG PUBLIC 1933 2781#
TARG3_I	V BYTE	1352H	ALLSEG 2867#
TARG4	V BYTE	1317H	ALLSEG PUBLIC 1934 2780#
TARG4_I	V BYTE	1351H	ALLSEG 2866#
TARG5	V BYTE	1316H	ALLSEG PUBLIC 1935 2779#
TARG5_I	V BYTE	1350H	ALLSEG 2865#
TARG6	V BYTE	1315H	ALLSEG PUBLIC 1936 2778#
TARG6_I	V BYTE	134FH	ALLSEG 2864#
TARG7	V BYTE	1314H	ALLSEG PUBLIC 1937 2777#

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
TARG7_I	V BYTE	134EH	ALLSEG 2863#
TBALL_CLR	V BYTE	5801H	ALLSEG PUBLIC 1941 2953#
TBALIX	V BYTE	5802H	ALLSEG PUBLIC 1942 2957#
TBALY	V BYTE	5803H	ALLSEG PUBLIC 1943 2962#
TEMP_CTR	V WORD	119FH	ALLSEG PUBLIC 1938 2503#
TEMP_CTR2	V WORD	11A1H	ALLSEG PUBLIC 1939 2504#
TEMP_STACK	V WORD	147AH	ALLSEG PUBLIC 1940 2905#
TEST_ON_MASK	NUMBER	0080H	616#
TEST_STEP_MASK	NUMBER	0040H	617#
TIMEOUT_PERD	NUMBER	003CH	647#
TRIGGER_MASK	NUMBER	0010H	606#
TWO_PLAYER_FL	V BYTE	129FH	ALLSEG PUBLIC 1944 2657#
U	NUMBER	003CH	1060#
ULTRA	V WORD	11EBH	ALLSEG PUBLIC 2004 2590#
ULTRA_HSE	V 14	0665H	ALLSEG PUBLIC 2002 2181#
ULTRA_HSE_FL	V BYTE	11EAH	ALLSEG PUBLIC 2003 2589#
V	NUMBER	003DH	1061#
V1	NUMBER	0001H	524#
V2	NUMBER	0000H	525#
VARIABLES	V BYTE	09E7H	ALLSEG PUBLIC 1945 2282# 2881
VBAR	NUMBER	00DFH	1078#
VHARD_COLOR	NUMBER	0F31H	625#
VPN	V BYTE	0000H	S FIELD 1288#
W	NUMBER	003EH	1062#
WARRENO	V WORD	1289H	ALLSEG PUBLIC 1947 2625#
WARREN1	V WORD	128BH	ALLSEG PUBLIC 1948 2626#
WARREN2	V WORD	128DH	ALLSEG PUBLIC 1949 2627#
WARREN3	V WORD	128FH	ALLSEG PUBLIC 1950 2628#
WARREN4	V WORD	1291H	ALLSEG PUBLIC 1951 2629#
WARREN5	V WORD	1293H	ALLSEG PUBLIC 1952 2630#
WARREN6	V WORD	1295H	ALLSEG PUBLIC 1953 2631#
WARREN7	V WORD	1297H	ALLSEG PUBLIC 1954 2632#
WARRENB	V WORD	1299H	ALLSEG PUBLIC 1955 2633#
WARREN9	V WORD	129BH	ALLSEG PUBLIC 1956 2634#
WATCHDOG	V BYTE	5800H	ALLSEG PUBLIC 1946 2947#
WLEN_ACTIVE_SLOT	NUMBER	0060H	PUBLIC 1957 2389#
WLEN_COLOR_REG	NUMBER	0010H	536#
WLEN_FGND_REG	NUMBER	007CH	536#
X	NUMBER	003FH	1063#
XCLM	NUMBER	00BFH	1076#
XDISP	V WORD	0001H	S FIELD 1304#
XXHOME	V BYTE	0004H	S FIELD 1579#
XXPOS	V WORD	0000H	S FIELD 1590#
XXVEL	V WORD	0000H	S FIELD 1577#
XYHOME	V BYTE	0005H	S FIELD 1580#
XYPOS	V WORD	0002H	S FIELD 1591#
XYVEL	V WORD	0002H	S FIELD 1578#
Y	NUMBER	0057H	1064#
YDISP	V WORD	0003H	S FIELD 1305#
YELLOW	NUMBER	0F60H	1015#
Z	NUMBER	005FH	1065#

SERIES-III 8086/8087/8088 MACRO ASSEMBLER V1.0 ASSEMBLY OF MODULE MSIMU_700
OBJECT MODULE PLACED IN :F1:MSIMU.OBJ
INVOCATION LINE CONTROLS: DJ(:F1:MSIMU.OBJ) EP(:F2:MSIMU.ERR) WF(:F2:,;F0;) PR(:F2:MSIMU.LST) XR NOMR

LOC	OBJ	LINE	SOURCE
		1	NAME MSIMU_700
		2	; 7.00 02/28/83 PRODUCTION VERSION BV-102-0
		3	
		4	; (C) COPYRIGHT 1982
		5	; D. GOTTLIEB & CO.
		6	; ALL RIGHTS RESERVED
		7	
		8	
		9	; MSIMU.SRC
		10	
		11	; #####
		12	; MAGNA SIMULATION TABLE
		13	; #####
		14	
		15	
		16	
		17	; 6.02 02/24/83 WE DONE IT!!!
		18	; 6.01 02/22/83 FINAL VERSION BLANK
		19	; 6.00 01/13/83 MADE FOR VERSION 06
		20	
----		21	ALLSEG SEGMENT AT 0
		22	
		23	ASSUME CS:ALLSEG
		24	
		25	PUBLIC ATT_TABLE_TOP ;WORD
		26	PUBLIC ATTRACT_TABLE ;BYTE
		27	
		28	-----
		29	
6000		30	ORG 6000H
		31	
6000 (2560		32	DB 0A00H DUP (90H) ;NOP AREA
90)
		33	
		34	
		35	; ATTRACT MODE GAME SIMULATION LOOKUP TABLE AREA
		36	
		37	
6A00 AE09		38	ATT_TABLE_TOP DW 09AEH
		39	
6A02 22		40	ATTRACT_TABLE DB 22H,00H,00H,04H,01H,00H,05H,00H,00H,05H,01H,00H,01H,00H
6A03 00			
6A04 00			
6A05 04			
6A06 01			
6A07 00			
6A08 05			
6A09 00			
6A0A 00			

LOC	OBJ	LINE	SOURCE
6A0B	05		
6A0C	01		
6A0D	00		
6A0E	01		
6A0F	00		
6A10	00	41	DB 00H,03H,02H,00H,07H,03H,00H,07H,03H,0FH,0AH,13H,0FH,0BH,13H,00H
6A11	03		
6A12	02		
6A13	00		
6A14	07		
6A15	03		
6A16	00		
6A17	07		
6A18	03		
6A19	0F		
6A1A	0A		
6A1B	13		
6A1C	0F		
6A1D	08		
6A1E	13		
6A1F	00		
6A20	06	42	DB 06H,13H,01H,09H,11H,01H,02H,10H,01H,02H,11H,01H,04H,10H,01H,05H
6A21	13		
6A22	01		
6A23	09		
6A24	11		
6A25	01		
6A26	02		
6A27	10		
6A28	01		
6A29	02		
6A2A	11		
6A2B	01		
6A2C	04		
6A2D	10		
6A2E	01		
6A2F	05		
6A30	18	43	DB 18H,02H,0FH,10H,02H,04H,11H,02H,01H,11H,01H,05H,19H,01H,03H,18H
6A31	02		
6A32	0F		
6A33	10		
6A34	02		
6A35	04		
6A36	11		
6A37	02		
6A38	01		
6A39	11		
6A3A	01		
6A3B	05		
6A3C	19		
6A3D	01		
6A3E	03		
6A3F	18		
6A40	01	44	DB 01H,01H,10H,01H,02H,18H,01H,0EH,1CH,01H,03H,1CH,00H,02H,18H,00H
6A41	01		

LOC	OBJ	LINE	SOURCE
6A42	10		
6A43	01		
6A44	02		
6A45	18		
6A46	01		
6A47	0E		
6A48	1C		
6A49	01		
6A4A	03		
6A4B	1C		
6A4C	00		
6A4D	02		
6A4E	18		
6A4F	00		
6A50	08	45	DB 08H,18H,0FH,0BH,18H,0EH,02H,11H,0EH,05H,11H,0DH,03H,10H,0DH,08H
6A51	18		
6A52	0F		
6A53	0B		
6A54	18		
6A55	0E		
6A56	02		
6A57	11		
6A58	0E		
6A59	05		
6A5A	11		
6A5B	0D		
6A5C	03		
6A5D	10		
6A5E	0D		
6A5F	0B		
6A60	10	46	DB 10H,0EH,07H,14H,0FH,0BH,14H,00H,0AH,16H,00H,10H,14H,00H,05H,12H
6A61	0E		
6A62	07		
6A63	14		
6A64	0F		
6A65	0B		
6A66	14		
6A67	00		
6A68	0A		
6A69	16		
6A6A	00		
6A6B	10		
6A6C	14		
6A6D	00		
6A6E	05		
6A6F	12		
6A70	00	47	DB 00H,06H,13H,00H,08H,11H,00H,14H,10H,00H,07H,10H,01H,05H,14H,01H
6A71	06		
6A72	13		
6A73	00		
6A74	08		
6A75	11		
6A76	00		
6A77	14		
6A78	10		

LOC	OBJ	LINE	SOURCE
6A79	00		
6A7A	07		
6A7B	10		
6A7C	01		
6A7D	05		
6A7E	14		
6A7F	01		
6A80	1A	48	DB 1AH,10H,01H,02H,10H,02H,09H,00H,02H,0CH,10H,02H,05H,14H,02H,06H
6A81	10		
6A82	01		
6A83	02		
6A84	10		
6A85	02		
6A86	09		
6A87	00		
6A88	02		
6A89	0C		
6A8A	10		
6A8B	02		
6A8C	05		
6A8D	14		
6A8E	02		
6A8F	06		
6A90	10	49	DB 10H,02H,0BH,10H,03H,02H,10H,04H,02H,14H,04H,04H,14H,05H,03H,10H
6A91	02		
6A92	08		
6A93	10		
6A94	03		
6A95	02		
6A96	10		
6A97	04		
6A98	02		
6A99	14		
6A9A	04		
6A9B	04		
6A9C	14		
6A9D	05		
6A9E	03		
6A9F	10		
6AA0	06	50	DB 06H,07H,10H,07H,05H,10H,08H,02H,11H,07H,01H,01H,07H,05H,01H,06H
6AA1	07		
6AA2	10		
6AA3	07		
6AA4	05		
6AA5	10		
6AA6	08		
6AA7	02		
6AA8	11		
6AA9	07		
6AAA	01		
6AAAB	01		
6AAC	07		
6AAD	05		
6AAE	01		
6AAF	06		

LOC	OBJ	LINE	SOURCE
6AB0	06	51	DB 06H,01H,05H,02H,01H,04H,05H,00H,04H,01H,01H,03H,04H,03H,03H,06H
6AB1	01		
6AB2	05		
6AB3	02		
6AB4	01		
6AB5	04		
6AB6	05		
6AB7	00		
6ABB	04		
6AB9	01		
6ABA	01		
6ABB	03		
6ABC	04		
6ABD	03		
6ABE	03		
6ABF	06		
6AC0	03	52	DB 03H,02H,09H,03H,01H,0FH,01H,01H,04H,00H,01H,04H,01H,06H,0CH
6AC1	02		
6AC2	09		
6AC3	03		
6AC4	01		
6AC5	0F		
6AC6	01		
6AC7	01		
6ACB	04		
6AC9	00		
6ACA	01		
6ACB	01		
6ACC	04		
6ACD	01		
6ACE	06		
6ACF	0C		
6AD0	01	53	DB 01H,03H,08H,01H,04H,09H,01H,01H,08H,01H,02H,08H,00H,06H,0CH,00H
6AD1	03		
6AD2	08		
6AD3	01		
6AD4	04		
6AD5	09		
6AD6	01		
6AD7	01		
6ADB	08		
6AD9	01		
6ADA	02		
6ADB	08		
6ADC	00		
6ADD	06		
6ADE	0C		
6ADF	00		
6AE0	04	54	DB 04H,04H,00H,03H,04H,01H,03H,00H,01H,01H,02H,01H,03H,00H,01H,02H
6AE1	04		
6AE2	00		
6AE3	03		
6AE4	04		
6AE5	01		
6AE6	03		

LOC	OBJ	LINE	SOURCE
6AE7	00		
6AE8	01		
6AE9	01		
6AEA	02		
6AEB	01		
6AEC	03		
6AED	00		
6AEE	01		
6AEF	02		
6AF0	02	55	DB 02H,02H,04H,02H,01H,02H,00H,00H,07H,04H,00H,04H,0CH,00H,06H,04H
6AF1	02		
6AF2	04		
6AF3	02		
6AF4	01		
6AF5	02		
6AF6	00		
6AF7	00		
6AF8	07		
6AF9	04		
6AFA	00		
6AFB	04		
6AFC	0C		
6AFD	00		
6AFE	06		
6AFF	04		
6B00	00	56	DB 00H,09H,04H,0FH,01H,00H,0FH,0BH,02H,0FH,01H,02H,00H,02H,00H,00H
6B01	09		
6B02	04		
6B03	0F		
6B04	01		
6B05	00		
6B06	0F		
6B07	0B		
6B08	02		
6B09	0F		
6B0A	01		
6B0B	02		
6B0C	00		
6B0D	02		
6B0E	00		
6B0F	00		
6B10	02	57	DB 02H,01H,00H,05H,01H,01H,11H,09H,02H,01H,08H,02H,04H,18H,02H,01H
6B11	01		
6B12	00		
6B13	05		
6B14	01		
6B15	01		
6B16	11		
6B17	09		
6B18	02		
6B19	01		
6B1A	08		
6B1B	02		
6B1C	04		
6B1D	18		

LOC	OBJ	LINE	SOURCE
6B1E	02		
6B1F	01		
6B20	18	58	DB 18H,03H,11H,10H,03H,01H,11H,03H,04H,11H,04H,03H,19H,04H,09H,18H
6B21	03		
6B22	11		
6B23	10		
6B24	03		
6B25	01		
6B26	11		
6B27	03		
6B28	04		
6B29	11		
6B2A	04		
6B2B	03		
6B2C	19		
6B2D	04		
6B2E	09		
6B2F	18		
6B30	04	59	DB 04H,0FH,18H,03H,02H,18H,02H,0BH,10H,02H,1FH,12H,02H,01H,10H,02H
6B31	0F		
6B32	18		
6B33	03		
6B34	02		
6B35	18		
6B36	02		
6B37	08		
6B38	10		
6B39	02		
6B3A	1F		
6B3B	12		
6B3C	02		
6B3D	01		
6B3E	10		
6B3F	02		
6B40	02	60	DB 02H,10H,03H,0CH,1CH,03H,06H,14H,03H,04H,10H,03H,0AH,10H,04H,03H
6B41	10		
6B42	03		
6B43	0C		
6B44	1C		
6B45	03		
6B46	06		
6B47	14		
6B48	03		
6B49	04		
6B4A	10		
6B4B	03		
6B4C	0A		
6B4D	10		
6B4E	04		
6B4F	03		
6B50	10	61	DB 10H,03H,05H,12H,03H,01H,16H,02H,06H,06H,02H,02H,16H,02H,06H,14H
6B51	03		
6B52	05		
6B53	12		
6B54	03		

LOC	OBJ	LINE	SOURCE
6855	01		
6856	16		
6857	02		
6858	06		
6859	06		
685A	02		
685B	02		
685C	16		
685D	02		
685E	06		
685F	14		
6860	02	62	DB 02H,02H,10H,02H,17H,10H,01H,01H,11H,01H,03H,01H,01H,06H,03H,01H
6861	02		
6862	10		
6863	02		
6864	17		
6865	10		
6866	01		
6867	01		
6868	11		
6869	01		
686A	03		
686B	01		
686C	01		
686D	06		
686E	03		
686F	01		
6870	0F	63	DB 0FH,01H,01H,07H,01H,00H,01H,01H,01H,09H,01H,03H,09H,02H,01H
6871	01		
6872	01		
6873	07		
6874	01		
6875	00		
6876	01		
6877	01		
6878	01		
6879	01		
687A	09		
687B	01		
687C	03		
687D	09		
687E	02		
687F	01		
6880	09	64	DB 09H,03H,05H,08H,03H,09H,08H,04H,09H,0CH,05H,04H,04H,05H,07H,04H
6881	03		
6882	05		
6883	08		
6884	03		
6885	09		
6886	08		
6887	04		
6888	09		
6889	0C		
688A	05		
688B	04		

LOC	OBJ	LINE	SOURCE
6B8C	04		
6B8D	05		
6B8E	07		
6B8F	04		
6B90	06	65	DB 06H,02H,04H,05H,0CH,14H,05H,03H,16H,05H,01H,14H,05H,0FH,14H,04H
6B91	02		
6B92	04		
6B93	05		
6B94	0C		
6B95	14		
6B96	05		
6B97	03		
6B98	16		
6B99	05		
6B9A	01		
6B9B	14		
6B9C	05		
6B9D	0F		
6B9E	14		
6B9F	04		
6BA0	01	66	DB 01H,14H,03H,03H,12H,03H,04H,10H,03H,04H,12H,03H,04H,10H,03H,01H
6BA1	14		
6BA2	03		
6BA3	03		
6BA4	12		
6BA5	03		
6BA6	04		
6BA7	10		
6BA8	03		
6BA9	04		
6BAA	12		
6BAB	03		
6BAC	04		
6BAD	10		
6BAE	03		
6BAF	01		
6BB0	12	67	DB 12H,03H,06H,10H,03H,01H,14H,03H,03H,1CH,03H,02H,14H,03H,03H,10H
6BB1	03		
6BB2	06		
6BB3	10		
6BB4	03		
6BB5	01		
6BB6	14		
6BB7	03		
6BB8	03		
6BB9	1C		
6BBA	03		
6BBB	02		
6BBC	14		
6BBD	03		
6BBE	03		
6BBF	10		
6BC0	03	68	DB 03H,16H,10H,02H,02H,11H,02H,01H,01H,02H,0AH,01H,01H,05H,00H,01H
6BC1	16		
6BC2	10		

LOC	OBJ	LINE	SOURCE
6BC3	02		
6BC4	02		
6BC5	11		
6BC6	02		
6BC7	01		
6BC8	01		
6BC9	02		
6BCA	0A		
6BCB	01		
6BCC	01		
6BCD	05		
6BCE	00		
6BCF	01		
6BD0	04	69	DB 04H,01H,02H,05H,03H,02H,06H,02H,02H,03H,00H,02H,02H,01H,02H,03H
6BD1	01		
6BD2	02		
6BD3	05		
6BD4	03		
6BD5	02		
6BD6	06		
6BD7	02		
6BD8	02		
6BD9	03		
6BDA	00		
6BDB	02		
6BDC	02		
6BDD	01		
6BDE	02		
6BDF	03		
6BE0	01	70	DB 01H,03H,07H,09H,03H,01H,01H,03H,09H,00H,03H,01H,08H,03H,01H,09H
6BE1	03		
6BE2	07		
6BE3	09		
6BE4	03		
6BE5	01		
6BE6	01		
6BE7	03		
6BE8	09		
6BE9	00		
6BEA	03		
6BEB	01		
6BEC	08		
6BED	03		
6BEE	01		
6BEF	09		
6BF0	03	71	DB 03H,02H,09H,02H,02H,08H,02H,04H,00H,02H,04H,04H,02H,05H,06H,02H
6BF1	02		
6BF2	09		
6BF3	02		
6BF4	02		
6BF5	08		
6BF6	02		
6BF7	04		
6BF8	00		
6BF9	02		

LOC	OBJ	LINE	SOURCE
6BFA	04		
6BFB	04		
6BFC	02		
6BFD	05		
6BFE	06		
6BFF	02		
6C00	08	72	DB 08H,02H,02H,02H,02H,01H,01H,00H,01H,08H,04H,01H,01H,0CH,01H,03H
6C01	02		
6C02	02		
6C03	02		
6C04	02		
6C05	01		
6C06	01		
6C07	00		
6C08	01		
6C09	08		
6C0A	04		
6C0B	01		
6C0C	01		
6C0D	0C		
6C0E	01		
6C0F	03		
6C10	08	73	DB 08H,01H,01H,09H,01H,01H,09H,00H,02H,08H,00H,05H,00H,00H,06H,03H
6C11	01		
6C12	01		
6C13	09		
6C14	01		
6C15	01		
6C16	09		
6C17	00		
6C18	02		
6C19	08		
6C1A	00		
6C1B	05		
6C1C	00		
6C1D	00		
6C1E	06		
6C1F	03		
6C20	01	74	DB 01H,01H,01H,00H,04H,00H,00H,04H,00H,0FH,04H,08H,0FH,04H,09H,0FH
6C21	01		
6C22	01		
6C23	00		
6C24	04		
6C25	00		
6C26	00		
6C27	04		
6C28	00		
6C29	0F		
6C2A	04		
6C2B	08		
6C2C	0F		
6C2D	04		
6C2E	09		
6C2F	0F		
6C30	04	75	DB 04H,08H,0FH,07H,09H,0FH,04H,08H,0FH,07H,00H,0FH,0CH,02H,0FH,01H

LOC	OBJ	LINE	SOURCE
6C31	08		
6C32	0F		
6C33	07		
6C34	09		
6C35	0F		
6C36	04		
6C37	08		
6C38	0F		
6C39	07		
6C3A	00		
6C3B	0F		
6C3C	0C		
6C3D	02		
6C3E	0F		
6C3F	01		
6C40	06	76	DB 06H,0EH,04H,04H,0EH,02H,04H,0FH,04H,00H,0FH,01H,08H,0FH,01H,08H
6C41	0E		
6C42	04		
6C43	04		
6C44	0E		
6C45	02		
6C46	04		
6C47	0F		
6C48	04		
6C49	00		
6C4A	0F		
6C4B	01		
6C4C	08		
6C4D	0F		
6C4E	01		
6C4F	08		
6C50	00	77	DB 00H,03H,00H,00H,02H,14H,00H,01H,16H,00H,02H,14H,00H,0DH,10H,00H
6C51	03		
6C52	00		
6C53	00		
6C54	02		
6C55	14		
6C56	00		
6C57	01		
6C58	16		
6C59	00		
6C5A	02		
6C5B	14		
6C5C	00		
6C5D	0D		
6C5E	10		
6C5F	00		
6C60	17	78	DB 17H,10H,01H,01H,12H,01H,02H,13H,01H,01H,11H,01H,04H,10H,01H,03H
6C61	10		
6C62	01		
6C63	01		
6C64	12		
6C65	01		
6C66	02		
6C67	13		

LOC	OBJ	LINE	SOURCE
6C68	01		
6C69	01		
6C6A	11		
6C6B	01		
6C6C	04		
6C6D	10		
6C6E	01		
6C6F	03		
6C70	12	79	DB 12H,01H,0FH,10H,01H,04H,10H,02H,04H,12H,02H,03H,10H,02H,06H,11H
6C71	01		
6C72	0F		
6C73	10		
6C74	01		
6C75	04		
6C76	10		
6C77	02		
6C78	04		
6C79	12		
6C7A	02		
6C7B	03		
6C7C	10		
6C7D	02		
6C7E	06		
6C7F	11		
6C80	02	80	DB 02H,04H,19H,02H,02H,11H,02H,05H,10H,02H,0AH,10H,01H,01H,10H,00H
6C81	04		
6C82	19		
6C83	02		
6C84	02		
6C85	11		
6C86	02		
6C87	05		
6C88	10		
6C89	02		
6C8A	0A		
6C8B	10		
6C8C	01		
6C8D	01		
6C8E	10		
6C8F	00		
6C90	08	81	DB 0BH,14H,00H,06H,10H,00H,01H,14H,00H,02H,16H,00H,06H,16H,0FH,03H
6C91	14		
6C92	00		
6C93	06		
6C94	10		
6C95	00		
6C96	01		
6C97	14		
6C98	00		
6C99	02		
6C9A	16		
6C9B	00		
6C9C	06		
6C9D	16		
6C9E	0F		

LOC	OBJ	LINE	SOURCE
6C9F	03		
6CA0	16	82	DB 16H,00H,05H,10H,00H,06H,11H,00H,03H,10H,00H,03H,14H,00H,05H,14H
6CA1	00		
6CA2	05		
6CA3	10		
6CA4	00		
6CA5	06		
6CA6	11		
6CA7	00		
6CA8	03		
6CA9	10		
6CAA	00		
6CAB	03		
6CAC	14		
6CAD	00		
6CAE	05		
6CAF	14		
6CB0	01	83	DB 01H,06H,10H,01H,02H,12H,01H,05H,12H,00H,06H,10H,00H,02H,14H,00H
6CB1	06		
6CB2	10		
6CB3	01		
6CB4	02		
6CB5	12		
6CB6	01		
6CB7	05		
6CB8	12		
6CB9	00		
6CBA	06		
6CBB	10		
6CBC	00		
6CBD	02		
6CBE	14		
6CBF	00		
6CC0	03	84	DB 03H,0CH,00H,02H,04H,00H,03H,04H,01H,07H,0CH,01H,0BH,08H,01H,05H
6CC1	0C		
6CC2	00		
6CC3	02		
6CC4	04		
6CC5	00		
6CC6	03		
6CC7	04		
6CC8	01		
6CC9	07		
6CCA	0C		
6CCB	01		
6CCC	0B		
6CCD	08		
6CCE	01		
6CCF	05		
6CD0	00	85	DB 00H,01H,02H,09H,01H,08H,01H,01H,02H,09H,01H,02H,01H,01H,03H,00H
6CD1	01		
6CD2	02		
6CD3	09		
6CD4	01		
6CD5	08		

LOC	OBJ	LINE	SOURCE
6CD6	01		
6CD7	01		
6CDB	02		
6CD9	09		
6CDA	01		
6CDB	02		
6CDC	01		
6CDD	01		
6CDE	03		
6CDF	00		
6CE0	01	86	DB 01H,0BH,00H,00H,05H,08H,00H,02H,08H,0FH,03H,0CH,0FH,04H,0CH,00H
6CE1	08		
6CE2	00		
6CE3	00		
6CE4	05		
6CE5	08		
6CE6	00		
6CE7	02		
6CE8	08		
6CE9	0F		
6CEA	03		
6CEB	0C		
6CEC	0F		
6CED	04		
6CEE	0C		
6CEF	00		
6CF0	05	87	DB 05H,04H,00H,03H,04H,01H,02H,02H,01H,04H,00H,01H,10H,01H,01H,09H
6CF1	04		
6CF2	00		
6CF3	03		
6CF4	04		
6CF5	01		
6CF6	02		
6CF7	02		
6CF8	01		
6CF9	04		
6CFA	00		
6CFB	01		
6FCF	10		
6CFD	01		
6CFE	01		
6CFF	09		
6D00	01	88	DB 01H,00H,01H,03H,00H,02H,03H,01H,04H,02H,01H,02H,02H,02H,03H,06H
6D01	00		
6D02	01		
6D03	03		
6D04	00		
6D05	02		
6D06	03		
6D07	01		
6D08	04		
6D09	02		
6D0A	01		
6D0B	02		
6D0C	02		

LOC	OBJ	LINE	SOURCE
6D00	02		
6D0E	03		
6D0F	06		
6D10	02	89	DB 02H,03H,06H,03H,03H,04H,03H,05H,04H,04H,01H,04H,05H,05H,00H,05H
6D11	03		
6D12	06		
6D13	03		
6D14	03		
6D15	04		
6D16	03		
6D17	05		
6D18	04		
6D19	04		
6D1A	01		
6D1B	04		
6D1C	05		
6D1D	05		
6D1E	00		
6D1F	05		
6D20	02	90	DB 02H,01H,05H,03H,09H,04H,14H,01H,04H,08H,00H,04H,02H,08H,04H,01H
6D21	01		
6D22	05		
6D23	03		
6D24	09		
6D25	04		
6D26	14		
6D27	01		
6D28	04		
6D29	08		
6D2A	00		
6D2B	04		
6D2C	02		
6D2D	08		
6D2E	04		
6D2F	01		
6D30	09	91	DB 09H,03H,03H,01H,03H,01H,01H,04H,02H,00H,04H,01H,02H,04H,03H,06H
6D31	03		
6D32	03		
6D33	01		
6D34	03		
6D35	01		
6D36	01		
6D37	04		
6D38	02		
6D39	00		
6D3A	04		
6D3B	01		
6D3C	02		
6D3D	04		
6D3E	03		
6D3F	06		
6D40	04	92	DB 04H,03H,06H,05H,02H,04H,05H,07H,00H,05H,01H,02H,05H,07H,02H,06H
6D41	03		
6D42	06		
6D43	05		

LOC	OBJ	LINE	SOURCE
6D44	02		
6D45	04		
6D46	05		
6D47	07		
6D48	00		
6D49	05		
6D4A	01		
6D4B	02		
6D4C	05		
6D4D	07		
6D4E	02		
6D4F	06		
6D50	03	93	DB 03H,02H,05H,04H,00H,05H,03H,08H,05H,02H,00H,04H,01H,01H,04H,02H
6D51	02		
6D52	05		
6D53	04		
6D54	00		
6D55	05		
6D56	03		
6D57	08		
6D58	05		
6D59	02		
6D5A	00		
6D5B	04		
6D5C	01		
6D5D	01		
6D5E	04		
6D5F	02		
6D60	01	94	DB 01H,05H,01H,01H,06H,01H,03H,06H,01H,03H,07H,02H,03H,08H,04H,02H
6D61	05		
6D62	01		
6D63	01		
6D64	06		
6D65	01		
6D66	03		
6D67	06		
6D68	01		
6D69	03		
6D6A	07		
6D6B	02		
6D6C	03		
6D6D	08		
6D6E	04		
6D6F	02		
6D70	09	95	DB 09H,03H,02H,0AH,05H,06H,0AH,03H,06H,0BH,03H,06H,0CH,0EH,04H,0CH
6D71	03		
6D72	02		
6D73	0A		
6D74	05		
6D75	06		
6D76	0A		
6D77	03		
6D78	06		
6D79	08		
6D7A	03		

LOC	OBJ	LINE	SOURCE
6D7B	06		
6D7C	0C		
6D7D	0E		
6D7E	04		
6D7F	0C		
6D80	06	96	DB 06H,04H,0DH,05H,0CH,0EH,05H,08H,0EH,0AH,09H,0EH,03H,08H,0EH,03H
6D81	04		
6D82	0D		
6D83	05		
6D84	0C		
6D85	0E		
6D86	05		
6D87	08		
6D88	0E		
6D89	0A		
6D8A	09		
6D8B	0E		
6D8C	03		
6D8D	08		
6D8E	0E		
6D8F	03		
6D90	08	97	DB 08H,0DH,07H,0CH,0DH,05H,08H,0DH,02H,08H,0EH,03H,09H,0EH,1FH,01H
6D91	0D		
6D92	07		
6D93	0C		
6D94	0D		
6D95	05		
6D96	08		
6D97	0D		
6D98	02		
6D99	08		
6D9A	0E		
6D9B	03		
6D9C	09		
6D9D	0E		
6D9E	1F		
6D9F	01		
6DA0	0E	98	DB 0EH,10H,09H,0FH,07H,01H,0FH,01H,00H,0FH,05H,00H,0EH,04H,01H,0EH
6DA1	10		
6DA2	09		
6DA3	0F		
6DA4	07		
6DA5	01		
6DA6	0F		
6DA7	01		
6DA8	00		
6DA9	0F		
6DAA	05		
6DAB	00		
6DAC	0E		
6DAD	04		
6DAE	01		
6DAF	0E		
6DB0	04	99	DB 04H,03H,0FH,02H,03H,00H,02H,03H,01H,02H,02H,02H,02H,02H,03H,03H
6DB1	03		

LOC	OBJ	LINE	SOURCE
6DB2	0F		
6DB3	02		
6DB4	03		
6DB5	00		
6DB6	02		
6DB7	03		
6DB8	01		
6DB9	02		
6DBA	02		
6DBB	02		
6DBC	02		
6DBD	02		
6DBE	03		
6DBF	03		
6DC0	02	100	DB 02H,04H,03H,02H,05H,0FH,02H,06H,05H,02H,07H,01H,02H,06H,02H,00H
6DC1	04		
6DC2	03		
6DC3	02		
6DC4	05		
6DC5	0F		
6DC6	02		
6DC7	06		
6DC8	05		
6DC9	02		
6DCA	07		
6DCB	01		
6DCC	02		
6DCD	06		
6DCE	02		
6DCF	00		
6DD0	06	101	DB 06H,02H,04H,05H,14H,06H,05H,07H,06H,04H,01H,06H,05H,03H,04H,05H
6DD1	02		
6DD2	04		
6DD3	05		
6DD4	14		
6DD5	06		
6DD6	05		
6DD7	07		
6DD8	06		
6DD9	04		
6DDA	01		
6DDB	06		
6DDC	05		
6DDD	03		
6DDE	04		
6DDF	05		
6DE0	02	102	DB 02H,04H,06H,02H,04H,05H,02H,04H,04H,04H,04H,03H,03H,04H,02H,03H
6DE1	04		
6DE2	06		
6DE3	02		
6DE4	04		
6DE5	05		
6DE6	02		
6DE7	04		
6DEB	04		

LOC	OBJ	LINE	SOURCE
6DE9	04		
6DEA	04		
6DEB	03		
6DEC	03		
6DED	04		
6DEE	02		
6DEF	03		
6DF0	04	103	DB 04H,01H,03H,04H,00H,03H,0CH,00H,03H,08H,00H,0AH,08H,0FH,01H,0CH
6DF1	01		
6DF2	03		
6DF3	04		
6DF4	00		
6DF5	03		
6DF6	0C		
6DF7	00		
6DF8	03		
6DF9	08		
6DFA	00		
6DFB	0A		
6DFC	08		
6DFD	0F		
6DFE	01		
6DFF	0C		
6E00	0F	104	DB 0FH,01H,04H,0FH,03H,14H,0FH,03H,16H,0FH,0DH,14H,0FH,01H,14H,0EH
6E01	01		
6E02	04		
6E03	0F		
6E04	03		
6E05	14		
6E06	0F		
6E07	03		
6E08	16		
6E09	0F		
6E0A	00		
6E0B	14		
6E0C	0F		
6E0D	01		
6E0E	14		
6E0F	0E		
6E10	03	105	DB 03H,1CH,0EH,03H,18H,0EH,06H,19H,0FH,02H,09H,00H,04H,01H,00H,05H
6E11	1C		
6E12	0E		
6E13	03		
6E14	18		
6E15	0E		
6E16	06		
6E17	19		
6E18	0F		
6E19	02		
6E1A	09		
6E1B	00		
6E1C	04		
6E1D	01		
6E1E	00		
6E1F	05		

LOC	OBJ	LINE	SOURCE
6E20	01		
6E21	01	106	DB 01H,01H,01H,00H,01H,05H,00H,02H,03H,00H,03H,09H,00H,04H,05H,00H
6E22	01		
6E23	00		
6E24	01		
6E25	05		
6E26	00		
6E27	02		
6E28	03		
6E29	00		
6E2A	03		
6E2B	09		
6E2C	00		
6E2D	04		
6E2E	05		
6E2F	00		
6E30	05	107	DB 05H,09H,00H,06H,02H,04H,07H,06H,14H,07H,07H,14H,08H,08H,10H,08H
6E31	09		
6E32	00		
6E33	06		
6E34	02		
6E35	04		
6E36	07		
6E37	06		
6E38	14		
6E39	07		
6E3A	07		
6E3B	14		
6E3C	08		
6E3D	08		
6E3E	10		
6E3F	08		
6E40	07	108	DB 07H,10H,09H,16H,11H,09H,07H,01H,09H,01H,09H,09H,02H,08H,09H,04H
6E41	10		
6E42	09		
6E43	16		
6E44	11		
6E45	09		
6E46	07		
6E47	01		
6E48	09		
6E49	01		
6E4A	09		
6E4B	09		
6E4C	02		
6E4D	08		
6E4E	09		
6E4F	04		
6E50	08	109	DB 08H,0AH,02H,00H,0AH,04H,00H,0BH,04H,01H,0CH,04H,00H,0CH,02H,00H
6E51	0A		
6E52	02		
6E53	00		
6E54	0A		
6E55	04		
6E56	00		

LOC	OBJ	LINE	SOURCE
6E57	0B		
6E58	04		
6E59	01		
6E5A	0C		
6E5B	04		
6E5C	00		
6E5D	0C		
6E5E	02		
6E5F	00		
6E60	0D	110	DB 0DH,03H,01H,0DH,05H,09H,0DH,01H,09H,0EH,01H,01H,0EH,04H,00H,0EH
6E61	03		
6E62	01		
6E63	0D		
6E64	05		
6E65	09		
6E66	0D		
6E67	01		
6E68	09		
6E69	0E		
6E6A	01		
6E6B	01		
6E6C	0E		
6E6D	04		
6E6E	00		
6E6F	0E		
6E70	02	111	DB 02H,02H,0EH,03H,02H,0FH,09H,06H,0FH,04H,04H,0FH,06H,04H,0EH,04H
6E71	02		
6E72	0E		
6E73	03		
6E74	02		
6E75	0F		
6E76	09		
6E77	06		
6E78	0F		
6E79	04		
6E7A	04		
6E7B	0F		
6E7C	06		
6E7D	04		
6E7E	0E		
6E7F	04		
6E80	00	112	DB 00H,0EH,02H,18H,0EH,02H,19H,0EH,09H,11H,0EH,04H,11H,0FH,03H,10H
6E81	0E		
6E82	02		
6E83	18		
6E84	0E		
6E85	02		
6E86	19		
6E87	0E		
6E88	09		
6E89	11		
6E8A	0E		
6E8B	04		
6E8C	11		
6E8D	0F		

LOC	OBJ	LINE	SOURCE
6EBE	03		
6EBF	10		
6E90	0F	113	DB 0FH,02H,11H,0FH,03H,19H,0FH,02H,18H,0FH,05H,10H,0FH,05H,10H,00H
6E91	02		
6E92	11		
6E93	0F		
6E94	03		
6E95	19		
6E96	0F		
6E97	02		
6E98	18		
6E99	0F		
6E9A	05		
6E9B	10		
6E9C	0F		
6E9D	05		
6E9E	10		
6E9F	00		
6EA0	01	114	DB 01H,18H,00H,09H,10H,00H,03H,1CH,00H,05H,18H,00H,03H,19H,00H,01H
6EA1	18		
6EA2	00		
6EA3	09		
6EA4	10		
6EA5	00		
6EA6	03		
6EA7	1C		
6EA8	00		
6EA9	05		
6EA9	18		
6EA8	00		
6EAC	03		
6EAD	19		
6EAE	00		
6EAF	01		
6EB0	09	115	DB 09H,00H,02H,01H,00H,02H,00H,00H,03H,10H,00H,03H,18H,00H,0DH,10H
6EB1	00		
6EB2	02		
6EB3	01		
6EB4	00		
6EB5	02		
6EB6	00		
6EB7	00		
6EBB	03		
6EB9	10		
6EBA	00		
6EBB	03		
6EBC	18		
6EBD	00		
6EBE	0D		
6EBF	10		
6EC0	00	116	DB 00H,03H,1CH,00H,04H,1CH,0FH,04H,14H,0FH,01H,10H,0FH,01H,12H,0FH
6EC1	03		
6EC2	1C		
6EC3	00		
6EC4	04		

LOC	OBJ	LINE	SOURCE
6EC5	1C		
6EC6	0F		
6EC7	04		
6EC8	14		
6EC9	0F		
6ECA	01		
6ECB	10		
6ECC	0F		
6ECD	01		
6ECE	12		
6ECF	0F		
6ED0	01	117	DB 01H,10H,0FH,03H,14H,0FH,04H,1CH,0FH,05H,1CH,00H,03H,14H,00H,09H
6ED1	10		
6ED2	0F		
6ED3	03		
6ED4	14		
6ED5	0F		
6ED6	04		
6ED7	1C		
6ED8	0F		
6ED9	05		
6EDA	1C		
6EDB	00		
6EDC	03		
6EDD	14		
6EDE	00		
6EDF	09		
6EE0	14	118	DB 14H,01H,0CH,10H,01H,0CH,14H,01H,05H,1CH,02H,01H,14H,02H,03H,14H
6EE1	01		
6EE2	0C		
6EE3	10		
6EE4	01		
6EE5	0C		
6EE6	14		
6EE7	01		
6EE8	05		
6EE9	1C		
6EEA	02		
6EEB	01		
6EEC	14		
6EED	02		
6EEE	03		
6EEF	14		
6EF0	03	119	DB 03H,04H,10H,04H,04H,10H,05H,01H,11H,05H,07H,13H,05H,0AH,13H,06H
6EF1	04		
6EF2	10		
6EF3	04		
6EF4	04		
6EF5	10		
6EF6	05		
6EF7	01		
6EF8	11		
6EF9	05		
6EFA	07		
6EFB	13		

LOC	OBJ	LINE	SOURCE
6EFC	05		
6EFD	0A		
6EFE	13		
6EFF	06		
6F00	01	120	DB 01H,13H,05H,03H,12H,05H,02H,12H,04H,01H,12H,03H,01H,02H,03H,01H
6F01	13		
6F02	05		
6F03	03		
6F04	12		
6F05	03		
6F06	02		
6F07	12		
6F08	04		
6F09	01		
6F0A	12		
6F0B	03		
6F0C	01		
6F0D	02		
6F0E	03		
6F0F	01		
6F10	02	121	DB 02H,02H,02H,02H,01H,01H,02H,00H,01H,00H,00H,02H,00H,0FH,04H,00H
6F11	02		
6F12	02		
6F13	02		
6F14	01		
6F15	01		
6F16	02		
6F17	00		
6F18	01		
6F19	00		
6F1A	00		
6F1B	02		
6F1C	00		
6F1D	0F		
6F1E	04		
6F1F	00		
6F20	0E	122	DB 0EH,02H,08H,0EH,03H,08H,0DH,01H,00H,0DH,05H,08H,0DH,08H,18H,0DH
6F21	02		
6F22	08		
6F23	0E		
6F24	03		
6F25	08		
6F26	0D		
6F27	01		
6F28	00		
6F29	00		
6F2A	05		
6F2B	08		
6F2C	0D		
6F2D	08		
6F2E	18		
6F2F	0D		
6F30	09	123	DB 09H,10H,0CH,0AH,10H,0BH,06H,12H,0BH,03H,02H,0BH,03H,02H,0AH,02H
6F31	10		
6F32	0C		

LOC	OBJ	LINE	SOURCE
6F33	0A		
6F34	10		
6F35	0B		
6F36	06		
6F37	12		
6F38	0B		
6F39	03		
6F3A	02		
6F3B	0B		
6F3C	03		
6F3D	02		
6F3E	0A		
6F3F	02		
6F40	13	124	DB 13H,0AH,05H,11H,0AH,01H,10H,0AH,09H,00H,0AH,0DH,02H,0AH,02H,04H
6F41	0A		
6F42	05		
6F43	11		
6F44	0A		
6F45	01		
6F46	10		
6F47	0A		
6F48	09		
6F49	00		
6F4A	0A		
6F4B	0D		
6F4C	02		
6F4D	0A		
6F4E	02		
6F4F	04		
6F50	0A	125	DB 0AH,02H,04H,0BH,02H,04H,0AH,03H,04H,09H,03H,00H,08H,05H,00H,07H
6F51	02		
6F52	04		
6F53	0B		
6F54	02		
6F55	04		
6F56	0A		
6F57	03		
6F58	04		
6F59	09		
6F5A	03		
6F5B	00		
6F5C	08		
6F5D	05		
6F5E	00		
6F5F	07		
6F60	04	126	DB 04H,10H,07H,02H,10H,06H,05H,14H,06H,11H,10H,06H,08H,11H,06H,0AH
6F61	10		
6F62	07		
6F63	02		
6F64	10		
6F65	06		
6F66	05		
6F67	14		
6F68	06		
6F69	11		

LOC	OBJ	LINE	SOURCE
6F6A	10		
6F6B	06		
6F6C	08		
6F6D	11		
6F6E	06		
6F6F	0A		
6F70	11	127	DB 11H,07H,08H,19H,07H,05H,18H,07H,10H,10H,07H,01H,18H,07H,09H,08H
6F71	07		
6F72	08		
6F73	19		
6F74	07		
6F75	05		
6F76	18		
6F77	07		
6F78	10		
6F79	10		
6F7A	07		
6F7B	01		
6F7C	18		
6F7D	07		
6F7E	09		
6F7F	08		
6F80	07	128	DB 07H,04H,09H,07H,07H,08H,07H,08H,00H,06H,02H,04H,06H,02H,00H,06H
6F81	04		
6F82	09		
6F83	07		
6F84	07		
6F85	08		
6F86	07		
6F87	08		
6F88	00		
6F89	06		
6F8A	02		
6F8B	04		
6F8C	06		
6F8D	02		
6F8E	00		
6F8F	06		
6F90	04	129	DB 04H,02H,06H,01H,00H,06H,03H,00H,07H,02H,00H,06H,01H,02H,05H,02H
6F91	02		
6F92	06		
6F93	01		
6F94	00		
6F95	06		
6F96	03		
6F97	00		
6F98	07		
6F99	02		
6F9A	00		
6F9B	06		
6F9C	01		
6F9D	02		
6F9E	05		
6F9F	02		
6FA0	02	130	DB 02H,04H,02H,02H,03H,01H,06H,03H,02H,04H,02H,02H,04H,01H,0DH,04H

LOC	OBJ	LINE	SOURCE
6FA1	04		
6FA2	02		
6FA3	02		
6FA4	03		
6FA5	01		
6FA6	06		
6FA7	03		
6FA8	02		
6FA9	04		
6FAA	02		
6FAB	02		
6FAC	04		
6FAD	01		
6FAE	00		
6FAF	04		
6FB0	00	131	DB 00H,02H,00H,00H,01H,02H,00H,01H,02H,0FH,02H,00H,0FH,04H,00H,0EH
6FB1	02		
6FB2	00		
6FB3	00		
6FB4	01		
6FB5	02		
6FB6	00		
6FB7	01		
6FB8	02		
6FB9	0F		
6FBAA	02		
6FBBA	00		
6FBC	0F		
6FBD	04		
6FBE	00		
6FBF	0E		
6FC0	07	132	DB 07H,00H,0DH,01H,00H,0CH,2AH,10H,0CH,0AH,10H,0BH,01H,12H,0BH,09H
6FC1	00		
6FC2	00		
6FC3	01		
6FC4	00		
6FC5	0C		
6FC6	2A		
6FC7	10		
6FCB	0C		
6FC9	0A		
6FCA	10		
6FCB	0B		
6FCC	01		
6FCD	12		
6FCE	0B		
6FCF	09		
6FD0	02	133	DB 02H,0BH,0DH,00H,0BH,01H,00H,0CH,0EH,01H,0CH,01H,00H,0CH,09H,00H
6FD1	0B		
6FD2	0D		
6FD3	00		
6FD4	0B		
6FD5	01		
6FD6	00		
6FD7	0C		

LOC	OBJ	LINE	SOURCE
6FDB	0E		
6FD9	01		
6FDA	0C		
6FDB	01		
6FDC	00		
6FDD	0C		
6FDE	09		
6FDF	00		
6FE0	0D	134	DB 0DH,03H,08H,0DH,07H,08H,0EH,04H,00H,0EH,08H,00H,0FH,05H,00H,0EH
6FE1	03		
6FE2	08		
6FE3	0D		
6FE4	07		
6FE5	08		
6FE6	0E		
6FE7	04		
6FEB	00		
6FE9	0E		
6FEA	08		
6FEB	00		
6FEC	0F		
6FED	05		
6FEE	00		
6FEF	0E		
6FF0	0C	135	DB 0CH,00H,0DH,25H,10H,0DH,02H,12H,0DH,06H,02H,0DH,08H,00H,0DH,02H
6FF1	00		
6FF2	0D		
6FF3	25		
6FF4	10		
6FF5	0D		
6FF6	02		
6FF7	12		
6FF8	0D		
6FF9	06		
6FFA	02		
6FFB	0D		
6FFC	08		
6FFD	00		
6FFE	0D		
6FFF	02		
7000	00	136	DB 00H,0CH,04H,02H,0CH,08H,00H,0CH,0FH,00H,0BH,05H,00H,0AH,13H,10H
7001	0C		
7002	04		
7003	02		
7004	0C		
7005	08		
7006	00		
7007	0C		
7008	0F		
7009	00		
700A	0B		
700B	05		
700C	00		
700D	0A		
700E	13		

LOC	OBJ	LINE	SOURCE
700F	10		
7010	0A	137	DB 0AH,08H,00H,0AH,04H,00H,09H,02H,08H,09H,01H,00H,09H,02H,01H,09H
7011	0B		
7012	00		
7013	0A		
7014	04		
7015	00		
7016	09		
7017	02		
7018	08		
7019	09		
701A	01		
701B	00		
701C	09		
701D	02		
701E	01		
701F	09		
7020	0B	138	DB 0BH,01H,0AH,04H,09H,0AH,04H,01H,0AH,05H,00H,0AH,08H,04H,0AH,05H
7021	01		
7022	0A		
7023	04		
7024	09		
7025	0A		
7026	04		
7027	01		
7028	0A		
7029	05		
702A	00		
702B	0A		
702C	08		
702D	04		
702E	0A		
702F	05		
7030	06	139	DB 06H,0AH,0FH,06H,0BH,03H,04H,0CH,03H,00H,0CH,01H,0BH,0CH,01H,09H
7031	0A		
7032	0F		
7033	06		
7034	08		
7035	03		
7036	04		
7037	0C		
7038	03		
7039	00		
703A	0C		
703B	01		
703C	08		
703D	0C		
703E	01		
703F	09		
7040	0C	140	DB 0CH,03H,09H,0DH,01H,01H,0DH,03H,01H,0EH,05H,01H,0FH,07H,00H,0FH
7041	03		
7042	09		
7043	0D		
7044	01		
7045	01		

LOC	OBJ	LINE	SOURCE
7046	0D		
7047	03		
7048	01		
7049	0E		
704A	05		
704B	01		
704C	0F		
704D	07		
704E	00		
704F	0F		
7050	02	141	DB 02H,0BH,0FH,02H,00H,00H,06H,01H,00H,01H,11H,00H,13H,10H,0FH,0BH
7051	08		
7052	0F		
7053	02		
7054	00		
7055	00		
7056	06		
7057	01		
7058	00		
7059	01		
705A	11		
705B	00		
705C	13		
705D	10		
705E	0F		
705F	08		
7060	12	142	DB 12H,0FH,05H,10H,0FH,09H,12H,0FH,05H,10H,0FH,08H,10H,00H,02H,14H
7061	0F		
7062	03		
7063	10		
7064	0F		
7065	09		
7066	12		
7067	0F		
7068	05		
7069	10		
706A	0F		
706B	08		
706C	10		
706D	00		
706E	02		
706F	14		
7070	00	143	DB 00H,01H,16H,00H,01H,16H,01H,05H,14H,01H,06H,16H,01H,0AH,12H,01H
7071	01		
7072	16		
7073	00		
7074	01		
7075	16		
7076	01		
7077	05		
7078	14		
7079	01		
707A	06		
707B	16		
707C	01		

LOC	OBJ	LINE	SOURCE
707D	0A		
707E	12		
707F	01		
7080	01	144	DB 01H,16H,01H,04H,14H,01H,02H,14H,02H,07H,1CH,02H,01H,18H,02H,02H
7081	16		
7082	01		
7083	04		
7084	14		
7085	01		
7086	02		
7087	14		
7088	02		
7089	07		
708A	1C		
708B	02		
708C	01		
708D	18		
708E	02		
708F	02		
7090	10	145	DB 10H,02H,04H,11H,01H,06H,19H,01H,07H,18H,01H,06H,1CH,01H,09H,18H
7091	02		
7092	04		
7093	11		
7094	01		
7095	06		
7096	19		
7097	01		
7098	07		
7099	18		
709A	01		
709B	06		
709C	1C		
709D	01		
709E	09		
709F	18		
70A0	01	146	DB 01H,08H,18H,00H,06H,10H,00H,01H,10H,01H,03H,11H,01H,0FH,11H,02H
70A1	08		
70A2	18		
70A3	00		
70A4	06		
70A5	10		
70A6	00		
70A7	01		
70A8	10		
70A9	01		
70AA	03		
70AB	11		
70AC	01		
70AD	0F		
70AE	11		
70AF	02		
70B0	06	147	DB 06H,10H,02H,05H,12H,02H,08H,12H,03H,05H,10H,03H,04H,14H,02H,08H
70B1	10		
70B2	02		
70B3	05		

LOC	OBJ	LINE	SOURCE
70B4	12		
70B5	02		
70B6	08		
70B7	12		
70B8	03		
70B9	05		
70BA	10		
70BB	03		
70BC	04		
70BD	14		
70BE	02		
70BF	08		
70C0	10	148	DB 10H,02H,0AH,10H,01H,08H,14H,01H,07H,14H,00H,0FH,10H,00H,01H,12H
70C1	02		
70C2	0A		
70C3	10		
70C4	01		
70C5	08		
70C6	14		
70C7	01		
70C8	07		
70C9	14		
70CA	00		
70CB	0F		
70CC	10		
70CD	00		
70CE	01		
70CF	12		
70D0	01	149	DB 01H,01H,13H,01H,0CH,11H,01H,02H,10H,01H,06H,18H,01H,05H,08H,01H
70D1	01		
70D2	13		
70D3	01		
70D4	0C		
70D5	11		
70D6	01		
70D7	02		
70D8	10		
70D9	01		
70DA	06		
70DB	18		
70DC	01		
70DD	05		
70DE	08		
70DF	01		
70E0	05	150	DB 05H,18H,01H,03H,18H,02H,01H,18H,03H,01H,10H,03H,0CH,11H,03H,02H
70E1	18		
70E2	01		
70E3	03		
70E4	18		
70E5	02		
70E6	01		
70E7	18		
70EB	03		
70E9	01		
70EA	10		

LOC	OBJ	LINE	SOURCE
70EB	03		
70EC	0C		
70ED	11		
70EE	03		
70EF	02		
70F0	10	151	DB 10H,03H,02H,10H,04H,05H,18H,04H,03H,1CH,04H,04H,14H,04H,0EH,04H
70F1	03		
70F2	02		
70F3	10		
70F4	04		
70F5	05		
70F6	18		
70F7	04		
70F8	03		
70F9	1C		
70FA	04		
70FB	04		
70FC	14		
70FD	04		
70FE	0E		
70FF	04		
7100	04	152	DB 04H,03H,08H,04H,03H,0CH,04H,05H,04H,09H,06H,05H,03H,02H,05H
7101	03		
7102	08		
7103	04		
7104	03		
7105	0C		
7106	04		
7107	05		
7108	04		
7109	04		
710A	09		
710B	06		
710C	05		
710D	03		
710E	02		
710F	05		
7110	07	153	DB 07H,02H,04H,01H,03H,04H,11H,01H,04H,02H,00H,04H,05H,02H,04H,02H
7111	02		
7112	04		
7113	01		
7114	03		
7115	04		
7116	11		
7117	01		
7118	04		
7119	02		
711A	00		
711B	04		
711C	05		
711D	02		
711E	04		
711F	02		
7120	00	154	DB 00H,04H,0CH,01H,04H,0AH,00H,04H,0CH,0BH,04H,01H,08H,05H,03H,0CH
7121	04		

LOC	OBJ	LINE	SOURCE
7122	0C		
7123	01		
7124	04		
7125	0A		
7126	00		
7127	04		
7128	0C		
7129	08		
712A	04		
712B	01		
712C	08		
712D	05		
712E	03		
712F	0C		
7130	05	155	DB 05H,09H,04H,05H,03H,00H,05H,01H,00H,04H,01H,02H,04H,05H,12H,03H
7131	09		
7132	04		
7133	05		
7134	03		
7135	00		
7136	05		
7137	01		
7138	00		
7139	04		
713A	01		
713B	02		
713C	04		
713D	05		
713E	12		
713F	03		
7140	0A	156	DB 0AH,12H,02H,07H,12H,01H,03H,10H,01H,09H,11H,01H,03H,10H,01H,06H
7141	12		
7142	02		
7143	07		
7144	12		
7145	01		
7146	03		
7147	10		
7148	01		
7149	09		
714A	11		
714B	01		
714C	03		
714D	10		
714E	01		
714F	06		
7150	18	157	DB 18H,01H,08H,1CH,00H,0EH,14H,00H,16H,10H,00H,01H,10H,01H,06H,18H
7151	01		
7152	08		
7153	1C		
7154	00		
7155	0E		
7156	14		
7157	00		
7158	16		

LOC	OBJ	LINE	SOURCE
7159	10		
715A	00		
715B	01		
715C	10		
715D	01		
715E	06		
715F	18		
7160	01	158	DB 01H,05H,08H,01H,05H,08H,02H,04H,08H,03H,01H,08H,04H,02H,01H,04H
7161	05		
7162	08		
7163	01		
7164	05		
7165	08		
7166	02		
7167	04		
7168	08		
7169	03		
716A	01		
716B	08		
716C	04		
716D	02		
716E	01		
716F	04		
7170	01	159	DB 01H,00H,04H,0FH,10H,04H,0CH,10H,05H,03H,11H,05H,01H,10H,05H,01H
7171	00		
7172	04		
7173	0F		
7174	10		
7175	04		
7176	0C		
7177	10		
7178	05		
7179	03		
717A	11		
717B	05		
717C	01		
717D	10		
717E	05		
717F	01		
7180	12	160	DB 12H,05H,07H,13H,04H,06H,12H,04H,04H,12H,03H,01H,02H,03H,02H,02H
7181	05		
7182	07		
7183	13		
7184	04		
7185	06		
7186	12		
7187	04		
7188	04		
7189	12		
718A	03		
718B	01		
718C	02		
718D	03		
718E	02		
718F	02		

LOC	OBJ	LINE	SOURCE
7190	04	161	DB 04H,02H,02H,05H,04H,02H,06H,02H,02H,07H,04H,00H,07H,01H,10H,08H
7191	02		
7192	02		
7193	05		
7194	04		
7195	02		
7196	06		
7197	02		
7198	02		
7199	07		
719A	04		
719B	00		
719C	07		
719D	01		
719E	10		
719F	08		
71A0	01	162	DB 01H,14H,09H,02H,14H,0AH,01H,14H,0BH,02H,14H,0CH,02H,10H,0CH,02H
71A1	14		
71A2	09		
71A3	02		
71A4	14		
71A5	0A		
71A6	01		
71A7	14		
71A8	0B		
71A9	02		
71AA	14		
71AB	0C		
71AC	02		
71AD	10		
71AE	0C		
71AF	02		
71B0	10	163	DB 10H,0DH,07H,12H,0DH,04H,12H,0EH,05H,12H,0DH,02H,10H,0DH,03H,00H
71B1	0D		
71B2	07		
71B3	12		
71B4	0D		
71B5	04		
71B6	12		
71B7	0E		
71B8	05		
71B9	12		
71BA	0D		
71BB	02		
71BC	10		
71BD	00		
71BE	03		
71BF	00		
71C0	0D	164	DB 0DH,07H,08H,0DH,02H,09H,0CH,02H,01H,0CH,03H,01H,0DH,02H,01H,0EH
71C1	07		
71C2	08		
71C3	0D		
71C4	02		
71C5	09		
71C6	0C		

LOC	OBJ	LINE	SOURCE
71C7	02		
71C8	01		
71C9	0C		
71CA	03		
71CB	01		
71CC	0D		
71CD	02		
71CE	01		
71CF	0E		
71D0	01	165	DB 01H,01H,0FH,02H,03H,0FH,01H,03H,00H,0DH,01H,00H,01H,09H,00H,03H
71D1	01		
71D2	0F		
71D3	02		
71D4	03		
71D5	0F		
71D6	01		
71D7	03		
71D8	00		
71D9	0D		
71DA	01		
71DB	00		
71DC	01		
71DD	09		
71DE	00		
71DF	03		
71E0	08	166	DB 08H,00H,03H,0CH,00H,06H,0CH,01H,02H,0CH,02H,02H,0CH,03H,01H,0CH
71E1	00		
71E2	03		
71E3	0C		
71E4	00		
71E5	06		
71E6	0C		
71E7	01		
71E8	02		
71E9	0C		
71EA	02		
71EB	02		
71EC	0C		
71ED	03		
71EE	01		
71EF	0C		
71F0	04	167	DB 04H,02H,08H,04H,02H,08H,05H,05H,08H,06H,06H,04H,06H,05H,04H,07H
71F1	02		
71F2	08		
71F3	04		
71F4	02		
71F5	08		
71F6	05		
71F7	05		
71F8	08		
71F9	06		
71FA	06		
71FB	04		
71FC	06		
71FD	05		

LOC	OBJ	LINE	SOURCE
71FE	04		
71FF	07		
7200	01	168	DB 01H,00H,07H,03H,00H,08H,07H,09H,08H,01H,09H,07H,05H,01H,07H,02H
7201	00		
7202	07		
7203	03		
7204	00		
7205	08		
7206	07		
7207	09		
7208	08		
7209	01		
720A	09		
720B	07		
720C	03		
720D	01		
720E	07		
720F	02		
7210	10	169	DB 10H,07H,08H,10H,08H,06H,14H,08H,04H,14H,09H,04H,14H,0AH,03H,14H
7211	07		
7212	08		
7213	10		
7214	08		
7215	06		
7216	14		
7217	08		
7218	04		
7219	14		
721A	09		
721B	04		
721C	14		
721D	0A		
721E	03		
721F	14		
7220	08	170	DB 0BH,09H,10H,0BH,07H,12H,0BH,03H,12H,0CH,09H,10H,0BH,0CH,10H,0AH
7221	09		
7222	10		
7223	08		
7224	07		
7225	12		
7226	08		
7227	03		
7228	12		
7229	0C		
722A	09		
722B	10		
722C	08		
722D	0C		
722E	10		
722F	0A		
7230	04	171	DB 04H,11H,09H,07H,11H,08H,02H,11H,07H,09H,10H,07H,03H,10H,06H,03H
7231	11		
7232	09		
7233	07		
7234	11		

LOC	OBJ	LINE	SOURCE
7235	08		
7236	02		
7237	11		
7238	07		
7239	08		
723A	10		
723B	07		
723C	03		
723D	10		
723E	06		
723F	03		
7240	10	172	DB 10H,05H,09H,10H,04H,05H,12H,04H,06H,12H,03H,01H,12H,02H,06H,10H
7241	05		
7242	09		
7243	10		
7244	04		
7245	05		
7246	12		
7247	04		
7248	06		
7249	12		
724A	03		
724B	01		
724C	12		
724D	02		
724E	06		
724F	10		
7250	02	173	DB 02H,14H,00H,02H,09H,00H,01H,02H,00H,00H,02H,08H,00H,01H,00H,00H
7251	14		
7252	00		
7253	02		
7254	09		
7255	00		
7256	01		
7257	02		
7258	00		
7259	00		
725A	02		
725B	08		
725C	00		
725D	01		
725E	00		
725F	00		
7260	04	174	DB 04H,00H,0FH,1AH,00H,0EH,04H,08H,0DH,03H,00H,0DH,0BH,00H,0EH,05H
7261	00		
7262	0F		
7263	1A		
7264	00		
7265	0E		
7266	04		
7267	08		
7268	00		
7269	03		
726A	00		
726B	00		

LOC	OBJ	LINE	SOURCE
726C	0B		
726D	00		
726E	0E		
726F	05		
7270	10	175	DB 10H,0EH,04H,10H,0DH,06H,14H,0DH,01H,10H,0DH,01H,14H,0DH,01H,14H
7271	0E		
7272	04		
7273	10		
7274	0D		
7275	06		
7276	14		
7277	00		
7278	01		
7279	10		
727A	0D		
727B	01		
727C	14		
727D	0D		
727E	01		
727F	14		
7280	0C	176	DB 0CH,03H,10H,0CH,01H,12H,0CH,16H,02H,0CH,06H,00H,0CH,03H,08H,0CH
7281	03		
7282	10		
7283	0C		
7284	01		
7285	12		
7286	0C		
7287	16		
7288	02		
7289	0C		
728A	06		
728B	00		
728C	0C		
728D	03		
728E	08		
728F	0C		
7290	01	177	DB 01H,09H,0CH,04H,01H,0CH,05H,09H,0BH,08H,18H,0BH,01H,10H,0BH,05H
7291	09		
7292	0C		
7293	04		
7294	01		
7295	0C		
7296	05		
7297	09		
7298	08		
7299	08		
729A	18		
729B	08		
729C	01		
729D	10		
729E	08		
729F	05		
72A0	10	178	DB 10H,0CH,06H,10H,0DH,01H,14H,0DH,02H,14H,0EH,04H,10H,0EH,0AH,14H
72A1	0C		
72A2	06		

LOC	OBJ	LINE	SOURCE
72A3	10		
72A4	0D		
72A5	01		
72A6	14		
72A7	0D		
72A8	02		
72A9	14		
72AA	0E		
72AB	04		
72AC	10		
72AD	0E		
72AE	0A		
72AF	14		
72B0	0E	179	DB 0EH,04H,14H,0FH,06H,10H,0FH,02H,18H,0FH,01H,10H,0FH,0AH,10H,00H
72B1	04		
72B2	14		
72B3	0F		
72B4	06		
72B5	10		
72B6	0F		
72B7	02		
72B8	18		
72B9	0F		
72BA	01		
72BB	10		
72BC	0F		
72BD	0A		
72BE	10		
72BF	00		
72C0	05	180	DB 05H,19H,00H,02H,09H,00H,02H,01H,00H,04H,01H,0FH,01H,00H,0FH,02H
72C1	19		
72C2	00		
72C3	02		
72C4	09		
72C5	00		
72C6	02		
72C7	01		
72C8	00		
72C9	04		
72CA	01		
72CB	0F		
72CC	01		
72CD	00		
72CE	0F		
72CF	02		
72D0	08	181	DB 08H,0FH,08H,08H,0EH,0CH,00H,0EH,02H,10H,0EH,04H,10H,0DH,03H,12H
72D1	0F		
72D2	08		
72D3	08		
72D4	0E		
72D5	0C		
72D6	00		
72D7	0E		
72D8	02		
72D9	10		

LOC	OBJ	LINE	SOURCE
72DA	0E		
72DB	04		
72DC	10		
72DD	00		
72DE	03		
72DF	12		
72E0	0D	182	DB 0DH,05H,12H,0EH,01H,10H,0EH,0EH,10H,0FH,03H,14H,0FH,03H,14H,00H
72E1	05		
72E2	12		
72E3	0E		
72E4	01		
72E5	10		
72E6	0E		
72E7	0E		
72EB	10		
72E9	0F		
72EA	03		
72EB	14		
72EC	0F		
72ED	03		
72EE	14		
72EF	00		
72F0	03	183	DB 03H,14H,01H,02H,14H,02H,04H,10H,02H,07H,10H,03H,08H,10H,02H,01H
72F1	14		
72F2	01		
72F3	02		
72F4	14		
72F5	02		
72F6	04		
72F7	10		
72FB	02		
72F9	07		
72FA	10		
72FB	03		
72FC	08		
72FD	10		
72FE	02		
72FF	01		
7300	12	184	DB 12H,01H,0BH,10H,01H,04H,10H,02H,09H,10H,03H,0BH,10H,04H,03H,10H
7301	01		
7302	0B		
7303	10		
7304	01		
7305	04		
7306	10		
7307	02		
7308	09		
7309	10		
730A	03		
730B	0B		
730C	10		
730D	04		
730E	03		
730F	10		
7310	03	185	DB 03H,02H,10H,02H,02H,14H,01H,03H,16H,01H,05H,14H,00H,03H,14H,0FH

LOC	OBJ	LINE	SOURCE
7311	02		
7312	10		
7313	02		
7314	02		
7315	14		
7316	01		
7317	03		
7318	16		
7319	01		
731A	05		
731B	14		
731C	00		
731D	03		
731E	14		
731F	0F		
7320	07	186	DB 07H,14H,0EH,06H,10H,0DH,14H,10H,0CH,07H,18H,0CH,04H,18H,0BH,04H
7321	14		
7322	0E		
7323	06		
7324	10		
7325	00		
7326	14		
7327	10		
7328	0C		
7329	07		
732A	18		
732B	0C		
732C	04		
732D	18		
732E	0B		
732F	04		
7330	19	187	DB 19H,0BH,04H,11H,0BH,07H,11H,0CH,07H,10H,0CH,03H,10H,0DH,02H,14H
7331	0B		
7332	04		
7333	11		
7334	0B		
7335	07		
7336	11		
7337	0C		
7338	07		
7339	10		
733A	0C		
733B	03		
733C	10		
733D	00		
733E	02		
733F	14		
7340	0E	188	DB 0EH,01H,16H,0EH,0AH,16H,0FH,02H,16H,00H,02H,12H,00H,05H,16H,01H
7341	01		
7342	16		
7343	0E		
7344	0A		
7345	16		
7346	0F		
7347	02		

LOC	OBJ	LINE	SOURCE
7348	16		
7349	00		
734A	02		
734B	12		
734C	00		
734D	05		
734E	16		
734F	01		
7350	0A	189	DB 0AH,12H,01H,05H,10H,01H,05H,10H,02H,06H,11H,01H,0EH,11H,00H,0CH
7351	12		
7352	01		
7353	05		
7354	10		
7355	01		
7356	05		
7357	10		
7358	02		
7359	06		
735A	11		
735B	01		
735C	0E		
735D	11		
735E	00		
735F	0C		
7360	11	190	DB 11H,0FH,05H,11H,0EH,04H,11H,0DH,01H,11H,0CH,07H,10H,0CH,18H,18H
7361	0F		
7362	05		
7363	11		
7364	0E		
7365	04		
7366	11		
7367	0D		
7368	01		
7369	11		
736A	0C		
736B	07		
736C	10		
736D	0C		
736E	18		
736F	18		
7370	0C	191	DB 0CH,0BH,10H,0CH,07H,14H,0CH,01H,10H,0CH,0BH,14H,0CH,10H,10H,0CH
7371	0B		
7372	10		
7373	0C		
7374	07		
7375	14		
7376	0C		
7377	01		
7378	10		
7379	0C		
737A	08		
737B	14		
737C	0C		
737D	10		
737E	10		

LOC	OBJ	LINE	SOURCE
737F	0C		
7380	01	192	DB 01H,12H,0CH,02H,12H,0BH,05H,10H,0BH,06H,10H,0CH,09H,10H,0DH,27H
7381	12		
7382	0C		
7383	02		
7384	12		
7385	0B		
7386	05		
7387	10		
7388	0B		
7389	06		
738A	10		
738B	0C		
738C	09		
738D	10		
738E	0D		
738F	27		
7390	10	193	DB 10H,0CH,02H,12H,0CH,04H,12H,0DH,0CH,13H,0DH,0CH,11H,0DH,07H,10H
7391	0C		
7392	02		
7393	12		
7394	0C		
7395	04		
7396	12		
7397	0D		
7398	0C		
7399	13		
739A	0D		
739B	0C		
739C	11		
739D	0D		
739E	07		
739F	10		
73A0	0D	194	DB 0DH,10H,14H,0DH,03H,14H,0EH,06H,14H,0FH,06H,14H,00H,09H,10H,0FH
73A1	10		
73A2	14		
73A3	0D		
73A4	03		
73A5	14		
73A6	0E		
73A7	06		
73AB	14		
73A9	0F		
73AA	06		
73AB	14		
73AC	00		
73AD	09		
73AE	10		
73AF	0F		
73B0	06	195	DB 06H,12H,0EH,00H,00H,00H,00H
73B1	12		
73B2	0E		
73B3	00		
73B4	00		
73B5	00		

LOC	OBJ	LINE	SOURCE
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73B6 00

		196	
		197	
----		198	ALLSEG
		199	ENDS
		200	END

NEXT = 73C0H

XREF SYMBOL TABLE LISTING

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
------	------	-------	-------------------

??SEG	SEGMENT		SIZE=0000H PARA PUBLIC
ALLSEG. . . .	SEGMENT		SIZE=73B7H PARA ABS 21# 23 198
ATT_TABLE_TOP	V WORD	6A00H	ALLSEG PUBLIC 25 38#
ATTRACT_TABLE	V BYTE	6A02H	ALLSEG PUBLIC 26 40#

ASSEMBLY COMPLETE, NO ERRORS FOUND

SERIES-III 8086/8087/8088 MACRO ASSEMBLER V1.0 ASSEMBLY OF MODULE STAR_700
OBJECT MODULE PLACED IN :F1:MSTAR.OBJ
INVOCATION LINE CONTROLS: DJ(:F1:MSTAR.OBJ) EP(:F2:MSTAR.ERR) WF(:F0:) PR(:F2:MSTAR.LST) XR NOMR

LOC	OBJ	LINE	SOURCE
1			NAME STAR_700
2		; 7.00 02/28/83	PRODUCTION VERSION GV-102-0
3			
4		; (C) COPYRIGHT 1982	
5		; D. GOTTLIEB & CO.	
6		; ALL RIGHTS RESERVED	
7			
8			
9		; MSTAR.SRC	
10			
11		; #####	
12		; STAR DUST GENERATOR	
13		; #####	
14			
15			
16			
17		; 6.17 02/25/83	WITH WAIT FOR NMI, SET STAR DUST FL AT RESET
18		; 6.16 02/24/83	RESET WITHOUT WAIT FOR NMI
19		; 6.15 02/15/83	DRY RUN LOOP ELIMINATED FROM RESETTER
20		; 6.14 02/11/83	NUM STARS FIXED
21		; 6.13 02/11/83	INITIALIZER CHANGED FOR EQUAL TIME INTERVAL
22		; 6.12 02/11/83	END OF TABLE POINTER ADJUSTED
23		; 6.11 02/10/83	SYNTAX CORRECTIONS
24		; 6.10 02/10/83	IT WORKS NOW--- MADE PART OF MADPLANETS
25		; 6.09 02/10/83	NO TRUNCATION AT REVERSING
26		; 6.08 02/10/83	REVERSING FIXED
27		; 6.07 02/10/83	VARIABLE NUMSTARS
28		; 6.06 02/09/83	BLANK CHAR DETECTION ADDED
29		; 6.05 02/09/83	DEBUGGED
30		; 6.04 02/07/83	STAND ALONE TESTING
31			
32		; 6.03 02/07/83	NO RANDOM NEW STARS
33		; 6.02 02/02/83	TEST FILE OF MSTARL.S1 WRITTEN
34		; 6.01 02/01/83	DEBUG SYNTAX
35		; 6.00 02/01/83	NEW FORMAT OF STAR DUST
36			
37		; ----- RELEASE VERSION 07 -----	
38			
39		; ----- RELEASE VERSION 06 -----	
40			
41		; ----- RELEASE VERSION 05 -----	
42			
43		; ----- RELEASE VERSION 04 -----	
44			
45		; ----- RELEASE VERSION 03 -----	
46			
47		; 5.02 01/13/83	STAR RESET AREA INCLUDE RANDOM SEED RESET
48		; 5.01 11/03/82	CODE GAP REMOVED
49			
50		; ----- RELEASE VERSION 02 -----	

LOC	OBJ	LINE	SOURCE
51			
52		;	----- RELEASE VERSION 01 -----
53			
54		;	5.00 XX/XX/XX OK
55			
56		;	4.05 09/29/82 STAR RESET COLOR REG MANIPULATION CHANGED
57		;	4.04 09/27/82 CODE GAP ADDED
58		;	4.03 09/16/82 STARBANK SELECTION FIX
59		;	4.02 09/16/82 FOR NEW CHAR SET
60		;	4.01 09/13/82 SYNTAX CORRECTION
61		;	4.00 09/13/82 RANDOM NUMBER GENERATED SEPARATELY
62		;	1.01 08/13/82 CLEAR BACKGROUND AT RESET
63		;	1.00 07/28/82 SPLIT FROM MUTIL MODULE
64			
65			
66	+1	\$EJECT	

LOC	OBJ	LINE	SOURCE
		67	;=====
		68	
---		69	ALLSEG SEGMENT AT 0
		70	
		71	ASSUME CS:ALLSEG, DS:ALLSEG, SS:ALLSEG, ES:ALLSEG
		72	
		73	
73CO		74	ORG 73COH
		75	
		76	; EQUATES FOR THIS MODULE
		77	
		78	
00FF		79	BLNK EQU OFFH
		80	
3BE0		81	DUMMY_BGND_REG EQU 03BE0H
		82	
003D		83	NUM_STARS EQU 61
		84	
		85	;-----
		86	
---		87	STARPAR STRUC
		88	
0000		89	SCHAR_TIMER DB 1
0001		90	SPIX_TIMER DB 1
0002		91	STABLE_PTR DW 0
0004		92	SPIXEL_PTR DW 0
0006		93	SPOSITION DW 0
		94	
---		95	STARPAR ENDS
		96	
0008		97	BLEN_STARPAR EQU 8
		98	
		99	
100		101	;-----
		102	
		103	; SYMBOL DECLARATIONS
		104	
		105	PUBLIC STAR_DUST ;NEAR
		106	PUBLIC STAR_RESET ;NEAR
		107	
		108	
		109	EXTRN BGND_REG:BYTE
		110	EXTRN COLOR_REG:WORD
		111	EXTRN RANDOM:WORD
		112	EXTRN STAR_DATA:STARPAR
		113	EXTRN STAR_DUST_FL:BYTE
		114	EXTRN STAR_DIR_FL:BYTE
		115	EXTRN TEMP_CTR:WORD
		116	EXTRN WAIT_FOR_NMI:NEAR
		117	EXTRN CLR_BGND_PART:NEAR
		118	
		119	+1 \$EJECT

LOC	OBJ	LINE	SOURCE
		120	;=====
		121	
		122	
		123	; =====
		124	; STAR RESET
		125	; =====
		126	
		127	; (A GENERAL UTILITY PROCEDURE)
		128	
		129	
		130	; THIS PROCEDURE WILL INITIALIZE STAR_DATA AREA AND START PLACING
		131	; ALL STARS ON THE SCREEN. AT FIRST, ALL COLOR REGISTERS WILL BE
		132	; BLANKED OUT. WITHIN A SECOND, THE STARS WILL BE SCATTERED.
		133	
		134	; DO THIS ONCE AT EVERY GAME START OR EVERY ATTRACT SEQUENCE CYCLE.
		135	
		136	;-----
		137	
73C0		138	STAR_RESET PROC NEAR
		139	
73C0 E80000	E	140	CALL WAIT_FOR_NMI
		141	
		142	; CLEAR THE COLOR REGISTERS FOR NOW
		143	
73C3 BF0000	E	144	MOV DI,OFFSET COLOR_REG
73C6 B91000		145	MOV CX,16
73C9 FC		146	CLD
73CA 33C0		147	XOR AX,AX
		148	
73CC F3		149	REP STOSW
73CD AB		150	
		151	; INITIALIZE STAR_DATA AREA
		152	
73CE BB0000	E	153	MOV BX,OFFSET STAR_DATA
73D1 C70600003D00	E	154	MOV TEMP_CTR,NUM_STARS
73D7 BE219890		155	MOV SI,OFFSET STAR_PATHXX
		156	
73DB B90200		157	RESET_STAR_LP: MOV CX,2 ;AT LEAST 3 CHARACTERS APPART
73DE BA6400		158	MOV DX,100 ;AT LEAST 100 FRAMES APART
		159	
		160	; GET 15TH ENTRY POINT BY BACK TRACK USING LINK BYTE
		161	
73E1 B1FE3375		162	FIND_ENTRY_LP: CMP SI,OFFSET STAR_PATH00
73E5 7706		163	JA FIND_ENTRY2
		164	
73E7 BE219890		165	MOV SI,OFFSET STAR_PATHXX
73EB EB06		166	JMP SHORT NXT_FIND_ENTRY
		167	
73ED 8A4403		168	FIND_ENTRY2: MOV AL,[SI]+3 ;FETCH CURRENT LINK BYTE
73F0 98		169	CBW
73F1 2BF0		170	SUB SI,AX ;SI IS ENTRY POINT ONE BEFORE
		171	
73F3 8A4402		172	NXT_FIND_ENTRY: MOV AL,[SI]+2 ;FETCH NEXT CHAR TIMER
73F6 98		173	CBW

LOC	OBJ	LINE	SOURCE	
73F7 2BD0		174	SUB DX,AX	;GET REMAINING TIME FROM 100
73F9 49		175	DEC CX	
73FA 79E5		176	JNS FIND_ENTRY_LP	;REPEAT AT LEAST 3 TIMES
73FC 0BD2		177	OR DX,DX	;SEE IF 100 OR OVER TOTAL
73FE 79E1		178	JNS FIND_ENTRY_LP	;IF NOT, CONT
		179		
		180	; NOW, THIS STAR_DATA WILL BE COMPLETED	
		181		
7400 897702		182	MOV [BX].STABLE_PTR,SI	
		183		
7403 88FE		184	MOV DI,SI	
7405 47		185	INC DI	
7406 47		186	INC DI	
7407 8A05		187	MOV AL,[DI]	;AL IS CHAR_TIMER
7409 47		188	INC DI	
740A 47		189	NXT_PIX_LP:	INC DI
740B 47		190	INC DI	
740C 2A05		191	SUB AL,[DI]	;REDUCE BY PIX_TIMER
740E 77FA		192	JA NXT_PIX_LP	
7410 4F		193	DEC DI	;NEXT ENTRY POINT FOUND
		194		
7411 897F04		195	MOV [BX].SPIXEL_PTR,DI	
7414 C60701		196	MOV [BX].SCHAR_TIMER,1	
7417 C6470101		197	MOV [BX].SPIX_TIMER,1	
741B C74706E03B		198	MOV [BX].SPOSITION,DUMMY_BGND_REG	
		199		
7420 83C308		200	ADD BX,BLEN_STARPAR	
7423 FF0E0000	E	201	DEC TEMP_CTR	
7427 75B2		202	JNZ RESET_STAR_LP	
		203		
		204	; MAKE SURE THAT RANDOM NUMBER SEED IS NOT ZERO	
		205		
7429 C7060000AAAA	E	206	MOV RANDOM,0AAAAH	;INITIALIZE RANDOM SEED
742F C606000000	E	207	MOV STAR_DIR_FL,0	;OUTWARD DIRECTION SET
		208		
7434 C6060000FF	E	209	MOV STAR_DUST_FL,-1	;STAR_DUST ACTIVATE
		210		
7439 C3		211	RET	
		212		
		213	STAR_RESET	ENDP
		214		
		215		
		216		
		217	+1 \$EJECT	

LOC	OBJ	LINE	SOURCE
		218	;=====
		219	
		220	
		221	; =====
		222	; STAR DUST
		223	; =====
		224	
		225	
743A		226	STAR_DUST PROC NEAR
		227	
743A FC		228	CLD ;THROUGHOUT THE PROC
743B BA4040		229	MOV DX,4040H ;DH:= INCREMENT FOR COLOR
		230	
		231	; BRANCHOUT FOR THE DIRECTION
		232	
743E 803E000001	E	233	STAR_DUST2: CMP STAR_DIR_FL,1
7443 7205		234	JB CONT_STAR_OUT ;IF 0, CONTINUE OUTWARD
7445 7454		235	JE CONT_STAR_IN ;IF 1, CONTINUE INWARD
7447 E9B200		236	JMP STAR_REVERSE ;OTHER WISE IT'S REVERSING
		237	
		238	
		239 +1	\$EJECT

LOC	OBJ	LINE	SOURCE
		240	;-----
		241	
		242	; CONTINUATION OF STAR OUTWARD
		243	
744A	B93D00	244	CONT_STAR_OUT: MOV CX,NUM_STARS
744D	BB0000	E 245	MOV BX,OFFSET STAR_DATA
		246	
7450	02D6	247	STAR_OUT_LP: ADD DL,DH ;CHANGE TO NEXT COLOR
7452	7502	248	JNZ STAR_OUT2
7454	8AD6	249	MOV DL,DH ;IF 0, SET TO 40H
		250	
		251	; CHECK THE CHARACTER POSITION IS DONE
		252	
7456	FE0F	253	STAR_OUT2: DEC [BX].SCHAR_TIMER
7458	741E	254	JZ NEW_STAR_OUT ;IF DONE, FIND NEW POSITION
		255	
		256	; SAME CHARACTER POSITION, CHECK PIXEL TIMER
		257	
745A	FE4F01	258	DEC [BX].SPIX_TIMER
745D	7513	259	JNZ NEXT_STAR_OUT ;IF NOT OVER, STAY WHERE IT IS
		260	
		261	; SAME CHARACTER POSITION, DIFFERENT PIXEL POSITION
		262	
745F	887F06	263	MOV DI,[BX].SPOSITION
7462	887704	264	MOV SI,[BX].SPIXEL_PTR
7465	46	265	INC SI
7466	46	266	INC SI ;SI POINTING NEW PIXEL POSITION
		267	
7467	897704	268	STAR_OUT3: MOV [BX].SPIXEL_PTR,SI ;SAVE IT FOR NEXT TIME
746A	AC	269	LODSB ;AL:= NEW PIXEL INFO
746B	0AC2	270	OR AL,DL ;COLOR CORRECTION
746D	AA	271	STOSB ;SAVED AT SAME STAR POSITION
746E	AC	272	LODSB ;AL:= NEW PIXEL TIME INFO
746F	884701	273	MOV [BX].SPIX_TIMER,AL ;UPDATE PIXEL TIMER
		274	
7472	83C308	275	NEXT_STAR_OUT: ADD BX,BLEN_STARPAR
7475	E2D9	276	LOOP STAR_OUT_LP
7477	C3	277	RET
		278	
		279	+1 \$EJECT

LOC	OBJ	LINE	SOURCE
		280	;-----
		281	
		282	; GET NEW OUTWARD STAR POSITION FROM TABLE
		283	
7478	887F06	284	NEW_STAR_OUT: MOV DI,[BX].SPOSITION ;GET LAST POSITION
747B	C605FF	285	MOV BYTE PTR [DI],BLNK ;CLEAR THE LAST STAR
		286	
		287	; CHECK IF END OF TABLE REACHED
		288	
747E	887704	289	MOV SI,[BX].SPIXEL_PTR ;MUST BE POINTING AT NEXT ENTRY
7481	46	290	INC SI
7482	46	291	INC SI
7483	81FE2198	292	CMP SI,OFFSET STAR_PATHXX ;LAST PATH?
7487	7604	293	JBE NEW_STAR_OUT2
		294	
		295	; NEW STAR PICKUP
		296	
7489	BE337590	297	MOV SI,OFFSET STAR_PATH00
		298	
		299	; IF NOT, GET THE INFO FROM NEXT TABLE ENTRY
		300	
748D	897702	301	NEW_STAR_OUT2: MOV [BX].STABLE_PTR,SI ;SAVE IT FOR FUTURE
7490	AD	302	LODSW ;AX:= CHAR POSITION
7491	894706	303	MOV [BX].SPOSITION,AX ;SAVE IT
7494	88F8	304	MOV DI,AX ;ALSO DI POINTING THE BGND
		305	
7496	AD	306	LODSW ;AL:= CHAR TIMER VALUE
7497	8807	307	MOV [BX].SCHAR_TIMER,AL ;SAVE IT
		308	
7499	EBCC	309	JMP STAR_OUT3 ;FINISH THE NEW STAR
		310	
		311	+1 \$EJECT

LOC	OBJ	LINE	SOURCE
		312	;-----
		313	
		314	; CONTINUATION OF STAR INWARD
		315	
749B	B93D00	316	CONT_STAR_IN: MOV CX,NUM_STARS
749E	BB0000	E 317	MOV BX,OFFSET STAR_DATA
		318	
74A1	02D6	319	STAR_IN_LP: ADD DL,DH ;CHANGE TO NEXT COLOR
74A3	7502	320	JNZ STAR_IN2
74A5	8AD6	321	MOV DL,DH ;IF 0, SET TO 40H
		322	
		323	; CHECK THE CHARACTER POSITION IS DONE
		324	
74A7	FEOF	325	STAR_IN2: DEC [BX].SCHAR_TIMER
74A9	741E	326	JZ NEW_STAR_IN ;IF DONE, FIND NEW POSITION
		327	
		328	; SAME CHARACTER POSITION, CHECK PIXEL TIMER
		329	
74AB	FE4F01	330	DEC [BX].SPIX_TIMER
74AE	7513	331	JNZ NEXT_STAR_IN ;IF NOT OVER, STAY WHERE IT IS
		332	
		333	; SAME CHARACTER POSITION, DIFFERENT PIXEL POSITION
		334	
74B0	BB7F06	335	MOV DI,[BX].SPOSITION
74B3	BB7704	336	MOV SI,[BX].SPIXEL_PTR
74B6	4E	337	DEC SI
74B7	4E	338	DEC SI
		339	
74BB	B97704	340	STAR_IN3: MOV [BX].SPIXEL_PTR,SI
74BB	AC	341	LODSB ;AL:= NEW PIXEL INFO
74BC	0AC2	342	DR AL,DL ;COLOR CORRECTION
74BE	AA	343	STOSB ;SAVED AT SAME STAR POSITION
74BF	AC	344	LODSB ;AL:= NEW PIXEL TIME INFO
74C0	BB4701	345	MOV [BX].SPIX_TIMER,AL ;UPDATE PIXEL TIMER
		346	
74C3	B3C308	347	NEXT_STAR_IN: ADD BX,BLEN_STARPAR
74C6	E2D9	348	LOOP STAR_IN_LP
74CB	C3	349	RET
		350	
		351	+1 \$EJECT

LOC	OBJ	LINE	SOURCE
		352	;-----
		353	
		354	; GET NEW STAR POSITION FROM TABLE
		355	
74C9	887F06	356	NEW_STAR_IN1: MOV DI,[BX].SPOSITION ;GET LAST POSITION
74CC	C605FF	357	MOV BYTE PTR [DI],BLNK ;CLEAR THE LAST STAR
		358	
		359	; CHECK IF END OF TABLE REACHED
		360	
74CF	887702	361	MOV SI,[BX].STABLE_PTR ;PREPARE FOR BACK TRACKING
74D2	81FE3375	362	CMP SI,OFFSET STAR_PATH00 ;FIRST PATH TABLE?
74D6	760C	363	JBE NEW_STAR_IN1 ;IF SO, GOTO BOTTOM OF TABLE
		364	
		365	; IN CASE OF CONTINUATION OF BACK TRACKING
		366	
74D8	8BEE	367	MOV BP,SI
74DA	4D	368	DEC BP
74DB	4D	369	DEC BP ;NEXT PIX POINTER
		370	
74DC	8A4403	371	MOV AL,[SI]+3 ;AL:= LINK
74DF	98	372	CBW
74E0	2BF0	373	SUB SI,AX ;NEXT CHAR POINTER
74E2	EB08	374	JMP SHORT NEW_STAR_IN2
		375	
		376	; IN CASE OF STARTING AT BOTTOM OF THE STAR TABLE
		377	
74E4	8E219890	378	NEW_STAR_IN1: MOV SI,OFFSET STAR_PATHXX
74E8	B0339B90	379	MOV BP,OFFSET STAR_PIXXX
		380	
74EC	897702	381	NEW_STAR_IN2: MOV [BX].STABLE_PTR,SI ;SAVE IT FOR FUTURE
		382	
74EF	AD	383	LODSW ;AX:= CHAR POSITION
74F0	894706	384	MOV [BX].SPOSITION,AX ;SAVE IT
74F3	BBF8	385	MOV DI,AX ;ALSO DI POINTING THE BGND
		386	
74F5	AC	387	LODSB ;AL:= CHAR TIMER VALUE
74F6	8807	388	MOV [BX].SCHAR_TIMER,AL ;SAVE IT
74FB	8BF5	389	MOV SI,BP ;PIX POINTER
74FA	EBBC	390	JMP STAR_IN3 ;FINISH THE NEW STAR
		391	
		392	+1 \$EJECT

LOC	OBJ	LINE	SOURCE
		393	;-----
		394	
		395	; CASE OF CHANGING DIRECTION, SET FLAG ACCORDINGLY
		396	
74FC	803E000002	E 397	STAR_REVERSE: CMP STAR_DIR_FL,2
7501	C606000001	E 398	MOV STAR_DIR_FL,1
7506	7405	399	JE STAR_REVERSE2 ;IF 2, CONVERT OUT TO IN
7508	C606000000	E 400	MOV STAR_DIR_FL,0 ;IF 3, CONVERT IN TO OUT
		401	
		402	;-----
		403	
		404	; DIRECTION CHANGE HANDLED HERE (BOTH IN AND OUT)
		405	
750D	893D00	406	STAR_REVERSE2: MOV CX,NUM_STARS
7510	BB0000	E 407	MOV BX,OFFSET STAR_DATA
		408	
7513	BB7702	409	REVERSE_LP: MOV SI,[BX].STABLE_PTR
7516	B44402	410	MOV AL,[SI]+2 ;GET CHAR TIME
7519	2A07	411	SUB AL,[BX].SCHAR_TIMER
751B	40	412	INC AX
751C	BB07	413	MOV [BX].SCHAR_TIMER,AL ;CHAR TIMER ADJUSTED
		414	
751E	BB7704	415	MOV SI,[BX].SPIXEL_PTR
7521	B44401	416	MOV AL,[SI]+1 ;GET PIX TIME
7524	2A4701	417	SUB AL,[BX].SPIX_TIMER
7527	40	418	INC AX
7528	BB4701	419	MOV [BX].SPIX_TIMER,AL ;PIX TIMER ADJUSTED
		420	
752B	83C308	421	NEXT_REVERSE: ADD BX,BLEN_STARPAR
752E	E2E3	422	LOOP REVERSE_LP
7530	E90BFF	423	JMP STAR_DUST2 ;DO THE ACTUAL STAR OPERATIONS
		424	
		425	STAR_DUST ENDP
		426	
		427	
		428 +1	\$EJECT

LOC	OBJ	LINE	SOURCE
		429	;-----
		430	
		431	; INCLUDE MSTABL.S1 (NOLIST) FOR STAR TABLE OF STAR_DUST
		432	
		433 +1	\$INCLUDE(:F1:MSTABL.S1)
		=1 434	; ===== TO BE INCLUDED FILE "MSTABL.S1" =====
		=1 435	
		=1 436	; STAR PATH # 0
		=1 437	
7533		=1 438	STAR_PATH00 LABEL BYTE
		=1 439	
7533 F7		=1 440	DB 0F7H,039H,25, 0, 0, 4, 1, 3, 2, 3, 3, 3, 4, 3, 5, 3, 6, 3,-1, 3
7534 39			
7535 19			
7536 00			
7537 00			
7538 04			
7539 01			
753A 03			
753B 02			
753C 03			
753D 03			
753E 03			
753F 04			
7540 03			
7541 05			
7542 03			
7543 06			
7544 03			
7545 FF			
7546 03			
7547 F8		=1 441	DB 0F8H,039H,19,20, 0, 2, 1, 3, 2, 2, 3, 3, 4, 2, 5, 2, 6, 3,-1, 2
7548 39			
7549 13			
754A 14			
754B 00			
754C 02			
754D 01			
754E 03			
754F 02			
7550 02			
7551 03			
7552 03			
7553 04			
7554 02			
7555 05			
7556 02			
7557 06			
7558 03			
7559 FF			
755A 02			
755B F9		=1 442	DB 0F9H,039H,15,20, 0, 2, 1, 2, 2, 3, 2, 4, 2, 5, 1, 6, 2,-1, 2
755C 39			
755D 0F			
755E 14			

LOC	OBJ	LINE	SOURCE
755F	00		
7560	02		
7561	01		
7562	02		
7563	02		
7564	02		
7565	03		
7566	02		
7567	04		
7568	02		
7569	05		
756A	01		
756B	06		
756C	02		
756D	FF		
756E	02		
756F	FA	=1 443	DB OFAH,039H,12,20, 0, 2, 1, 1, 2, 2, 3, 2, 4, 1, 5, 2, 6, 1,-1, 1
7570	39		
7571	0C		
7572	14		
7573	00		
7574	02		
7575	01		
7576	01		
7577	02		
7578	02		
7579	03		
757A	02		
757B	04		
757C	01		
757D	05		
757E	02		
757F	06		
7580	01		
7581	FF		
7582	01		
7583	FB	=1 444	DB OFBH,039H,11,20, 0, 2, 1, 1, 2, 2, 3, 1, 4, 1, 5, 1, 6, 2,-1, 1
7584	39		
7585	08		
7586	14		
7587	00		
7588	02		
7589	01		
758A	01		
758B	02		
758C	02		
758D	03		
758E	01		
758F	04		
7590	01		
7591	05		
7592	01		
7593	06		
7594	02		
7595	FF		

LOC	OBJ	LINE	SOURCE
7596	01		
7597	FC	=1 445	DB 0FCH,039H, 9,20, 0, 1, 1, 1, 2, 1, 3, 1, 4, 2, 5, 1, 6, 1,-1, 1
7598	39		
7599	09		
759A	14		
759B	00		
759C	01		
759D	01		
759E	01		
759F	02		
75A0	01		
75A1	03		
75A2	01		
75A3	04		
75A4	02		
75A5	05		
75A6	01		
75A7	06		
75A8	01		
75A9	FF		
75AA	01		
75AB	FD	=1 446	DB 0FDH,039H, 7,20, 0, 1, 1, 1, 2, 1, 3, 1, 4, 1, 6, 1,-1, 1
75AC	39		
75AD	07		
75AE	14		
75AF	00		
75B0	01		
75B1	01		
75B2	01		
75B3	02		
75B4	01		
75B5	03		
75B6	01		
75B7	04		
75B8	01		
75B9	06		
75BA	01		
75BB	FF		
75BC	01		
75BD	FE	=1 447	DB 0FEH,039H, 6,18, 0, 1, 1, 1, 2, 1, 3, 1, 5, 1, 6, 1
75BE	39		
75BF	06		
75C0	12		
75C1	00		
75C2	01		
75C3	01		
75C4	01		
75C5	02		
75C6	01		
75C7	03		
75C8	01		
75C9	05		
75CA	01		
75CB	06		
75CC	01		

LOC	OBJ	LINE	SOURCE
		=1 448	
		=1 449	
		=1 450	; STAR PATH # 1
		=1 451	
75CD		=1 452	STAR_PATH01 LABEL BYTE
		=1 453	
75CD AD		=1 454	DB 0ADH,03AH,12,16,33, 2,41, 4,48, 3,56, 3
75CE 3A			
75CF 0C			
75D0 10			
75D1 21			
75D2 02			
75D3 29			
75D4 04			
75D5 30			
75D6 03			
75D7 38			
75D8 03			
75D9 CD		=1 455	DB 0CDH,03AH, 2,12, 0, 2
75DA 3A			
75DB 02			
75DC 0C			
75DD 00			
75DE 02			
75DF CC		=1 456	0CCH,03AH,22, 6,-1, 8,30, 3,38, 3,46, 1,45, 2,53, 2,61, 2,60, 1
75E0 3A			
75E1 16			
75E2 06			
75E3 FF			
75E4 08			
75E5 1E			
75E6 03			
75E7 26			
75E8 03			
75E9 2E			
75EA 01			
75EB 2D			
75EC 02			
75ED 35			
75EE 02			
75EF 3D			
75F0 02			
75F1 3C			
75F2 01			
75F3 EC		=1 457	0ECH,03AH,18,20, 4, 3,12, 2,19, 2,27, 3,34, 2,42, 2,50, 2,57, 2
75F4 3A			
75F5 12			
75F6 14			
75F7 04			
75F8 03			
75F9 0C			
75FA 02			
75FB 13			
75FC 02			
75FD 1B			

LOC	OBJ	LINE	SOURCE
75FE	03		
75FF	22		
7600	02		
7601	2A		
7602	02		
7603	32		
7604	02		
7605	39		
7606	02		
7607	0C	=1 458	DB 00CH,03BH, 7,20, 1, 2, 8, 2,16, 2,24, 1
7608	3B		
7609	07		
760A	14		
760B	01		
760C	02		
760D	08		
760E	02		
760F	10		
7610	02		
7611	18		
7612	01		
7613	0B	=1 459	DB 00BH,03BH, 8,12,-1, 4,46, 1,54, 1,62, 2
7614	3B		
7615	08		
7616	0C		
7617	FF		
7618	04		
7619	2E		
761A	01		
761B	36		
761C	01		
761D	3E		
761E	02		
761F	2B	=1 460	DB 02BH,03BH,12,12, 5, 2,13, 2,20, 1,28, 2,35, 1,43, 1,51, 2,58, 1
7620	3B		
7621	0C		
7622	0C		
7623	05		
7624	02		
7625	0D		
7626	02		
7627	14		
7628	01		
7629	1C		
762A	02		
762B	23		
762C	01		
762D	2B		
762E	01		
762F	33		
7630	02		
7631	3A		
7632	01		
7633	4B	=1 461	DB 04BH,03BH, 8,20, 2, 1,10, 1, 9, 1,17, 1,25, 1,32, 1,40, 1,48, 1
7634	3B		

LOC	OBJ	LINE	SOURCE
7635	08		
7636	14		
7637	02		
7638	01		
7639	0A		
763A	01		
763B	09		
763C	01		
763D	11		
763E	01		
763F	19		
7640	01		
7641	20		
7642	01		
7643	28		
7644	01		
7645	30		
7646	01		
7647	6A	=1 462	DB 06AH,03BH,10,20,-1, 3,14, 1,22, 1,29, 1,37, 1,45, 1,52, 1,60, 1
7648	3B		
7649	0A		
764A	14		
764B	FF		
764C	03		
764D	0E		
764E	01		
764F	16		
7650	01		
7651	1D		
7652	01		
7653	25		
7654	01		
7655	2D		
7656	01		
7657	34		
7658	01		
7659	3C		
765A	01		
765B	8A	=1 463	DB 08AH,03BH, 7,20, 3, 1,11, 1,18, 1,26, 1,33, 1,41, 1,48, 1
765C	3B		
765D	07		
765E	14		
765F	03		
7660	01		
7661	0B		
7662	01		
7663	12		
7664	01		
7665	1A		
7666	01		
7667	21		
7668	01		
7669	29		
766A	01		
766B	30		

LOC	OBJ	LINE	SOURCE
766C	01		
766D	AA	=1 464	DB 0AAH,03BH, 1,1B, 0, 1
766E	3B		
766F	01		
7670	12		
7671	00		
7672	01		
7673	A9	=1 465	DB 0A9H,03BH, 6, 6,-1, 2,30, 1,3B, 1,53, 1,61, 1
7674	3B		
7675	06		
7676	06		
7677	FF		
7678	02		
7679	1E		
767A	01		
767B	26		
767C	01		
767D	35		
767E	01		
767F	3D		
7680	01		
		=1 466	
		=1 467	
		=1 468	; STAR PATH # 2
		=1 469	
7681		=1 470	STAR_PATH02 LABEL BYTE
		=1 471	
7681	2A	=1 472	DB 02AH,039H,26,14,54, 1,45, 4,36, 5,27, 4,1B, 4, 9, 4, 0, 4
7682	39		
7683	1A		
7684	0E		
7685	36		
7686	01		
7687	2D		
7688	04		
7689	24		
768A	05		
768B	1B		
768C	04		
768D	12		
768E	04		
768F	09		
7690	04		
7691	00		
7692	04		
7693	09	=1 473	DB 009H,039H,25,1B,-1, 3,54, 4,45, 3,36, 3,27, 3,1B, 3, 9, 3, 0, 3
7694	39		
7695	19		
7696	12		
7697	FF		
7698	03		
7699	36		
769A	04		
769B	2D		
769C	03		

LOC	OBJ	LINE	SOURCE
769D	24		
769E	03		
769F	1B		
76A0	03		
76A1	12		
76A2	03		
76A3	09		
76A4	03		
76A5	00		
76A6	03		
76A7	E8	=1 474	DB 0EBH,03BH,18,20,-1, 2,54, 3,45, 2,36, 3,27, 2,18, 2, 9, 2, 0, 2
76A8	38		
76A9	12		
76AA	14		
76AB	FF		
76AC	02		
76AD	36		
76AE	03		
76AF	20		
76B0	02		
76B1	24		
76B2	03		
76B3	1B		
76B4	02		
76B5	12		
76B6	02		
76B7	09		
76B8	02		
76B9	00		
76BA	02		
76BB	C7	=1 475	DB 0C7H,038H,15,20,-1, 2,54, 2,45, 2,36, 2,27, 2,18, 2, 9, 1, 0, 2
76BC	38		
76BD	0F		
76BE	14		
76BF	FF		
76C0	02		
76C1	36		
76C2	02		
76C3	20		
76C4	02		
76C5	24		
76C6	02		
76C7	1B		
76CB	02		
76C9	12		
76CA	02		
76CB	09		
76CC	01		
76CD	00		
76CE	02		
76CF	A6	=1 476	DB 0A6H,038H,12,20,-1, 1,54, 2,45, 2,36, 1,27, 1,18, 2, 9, 1, 0, 2
76D0	38		
76D1	0C		
76D2	14		
76D3	FF		

LOC	OBJ	LINE	SOURCE
76D4	01		
76D5	36		
76D6	02		
76D7	20		
76D8	02		
76D9	24		
76DA	01		
76DB	1B		
76DC	01		
76DD	12		
76DE	02		
76DF	09		
76E0	01		
76E1	00		
76E2	02		
76E3	85	=1 477	DB 085H,03BH, 9,20,-1, 1,54, 1,45, 1,36, 2,27, 1,18, 1, 9, 1, 0, 1
76E4	38		
76E5	09		
76E6	14		
76E7	FF		
76E8	01		
76E9	36		
76EA	01		
76EB	20		
76EC	01		
76ED	24		
76EE	02		
76EF	1B		
76F0	01		
76F1	12		
76F2	01		
76F3	09		
76F4	01		
76F5	00		
76F6	01		
76F7	64	=1 478	DB 064H,03BH, 8,20,-1, 1,54, 1,45, 1,36, 1,27, 1,18, 1, 9, 1, 0, 1
76FB	38		
76F9	08		
76FA	14		
76FB	FF		
76FC	01		
76FD	36		
76FE	01		
76FF	20		
7700	01		
7701	24		
7702	01		
7703	1B		
7704	01		
7705	12		
7706	01		
7707	09		
7708	01		
7709	00		
770A	01		

LOC	OBJ	LINE	SOURCE
770B	43	=1 479	DB 043H,038H, 7,20,-1, 1,54, 1,45, 1,36, 1,18, 1, 9, 1, 0, 1
770C	38		
770D	07		
770E	14		
770F	FF		
7710	01		
7711	36		
7712	01		
7713	20		
7714	01		
7715	24		
7716	01		
7717	12		
7718	01		
7719	09		
771A	01		
771B	00		
771C	01		
771D	22	=1 480	DB 022H,038H, 6,18,-1, 1,45, 1,36, 1,18, 1, 9, 1, 0, 1
771E	38		
771F	06		
7720	12		
7721	FF		
7722	01		
7723	20		
7724	01		
7725	24		
7726	01		
7727	12		
7728	01		
7729	09		
772A	01		
772B	00		
772C	01		
772D	01	=1 481	DB 001H,038H, 5,16,54, 1,36, 1,27, 1, 9, 1, 0, 1
772E	38		
772F	05		
7730	10		
7731	36		
7732	01		
7733	24		
7734	01		
7735	18		
7736	01		
7737	09		
7738	01		
7739	00		
773A	01		
		=1 482	
		=1 483	
		=1 484 ;	STAR PATH # 3
		=1 485	
773B		=1 486	STAR_PATH03 LABEL BYTE
		=1 487	
773B	77	=1 488	DB 077H,039H,14,14,59, 2,60, 3,61, 3,54, 3,-1, 3

LOC	OBJ	LINE	SOURCE
773C	39		
773D	0E		
773E	0E		
773F	3B		
7740	02		
7741	3C		
7742	03		
7743	3D		
7744	03		
7745	36		
7746	03		
7747	FF		
7748	03		
7749	78	=1 489	DB 078H,039H,20,14,40, 3,41, 3,42, 2,35, 3,36, 2,29, 2,30, 3,-1, 2
774A	39		
774B	14		
774C	0E		
774D	28		
774E	03		
774F	29		
7750	03		
7751	2A		
7752	02		
7753	23		
7754	03		
7755	24		
7756	02		
7757	1B		
7758	02		
7759	1E		
775A	03		
775B	FF		
775C	02		
775D	79	=1 490	DB 079H,039H,14,20,16, 2,17, 2,18, 1,10, 1,11, 2,12, 2, 5, 2, b, 2
775E	39		
775F	0E		
7760	14		
7761	10		
7762	02		
7763	11		
7764	02		
7765	12		
7766	01		
7767	0A		
7768	01		
7769	08		
776A	02		
776B	0C		
776C	02		
776D	05		
776E	02		
776F	06		
7770	02		
7771	59	=1 491	DB 059H,039H, 2,20,-1, 2
7772	39		

LOC	OBJ	LINE	SOURCE
7773	02		
7774	14		
7775	FF		
7776	02		
7777	5A	=1 492	DB 05AH,039H,13, 6,56, 2,57, 1,50, 2,51, 2,44, 1,45, 2,46, 1,-1, 2
7778	39		
7779	0D		
777A	06		
777B	38		
777C	02		
777D	39		
777E	01		
777F	32		
7780	02		
7781	33		
7782	02		
7783	2C		
7784	01		
7785	2D		
7786	02		
7787	2E		
7788	01		
7789	FF		
778A	02		
778B	58	=1 493	DB 05BH,039H,11,20,32, 1,25, 2,26, 1,27, 1,20, 2,21, 1,14, 1,-1, 2
778C	39		
778D	08		
778E	14		
778F	20		
7790	01		
7791	19		
7792	02		
7793	1A		
7794	01		
7795	1B		
7796	01		
7797	14		
7798	02		
7799	15		
779A	01		
779B	0E		
779C	01		
779D	FF		
779E	02		
779F	5C	=1 494	DB 05CH,039H, 3,20, 0, 1, 1, 1, 2, 1
77A0	39		
77A1	03		
77A2	14		
77A3	00		
77A4	01		
77A5	01		
77A6	01		
77A7	02		
77A8	01		
77A9	3C	=1 495	DB 03CH,039H, 6,10,59, 1,60, 1,61, 1,53, 1,54, 1,-1, 1

LOC	OBJ	LINE	SOURCE
77AA	39		
77AB	06		
77AC	0A		
77AD	3B		
77AE	01		
77AF	3C		
77B0	01		
77B1	3D		
77B2	01		
77B3	35		
77B4	01		
77B5	36		
77B6	01		
77B7	FF		
77B8	01		
77B9	3D	=1 496	DB 03DH,039H, 8,16,40, 1,41, 1,34, 1,35, 1,36, 1,29, 1,30, 1,-1, 1
77BA	39		
77BB	08		
77BC	10		
77BD	28		
77BE	01		
77BF	29		
77C0	01		
77C1	22		
77C2	01		
77C3	23		
77C4	01		
77C5	24		
77C6	01		
77C7	1D		
77C8	01		
77C9	1E		
77CA	01		
77CB	FF		
77CC	01		
		=1 497	
		=1 498	
		=1 499 ;	STAR_PATH \$ 4
		=1 500	
77CD		=1 501	STAR_PATH04 LABEL BYTE
		=1 502	
77CD	F0	=1 503	DB 0FOH,03AH,22,20, 0, 3, 8, 3,16, 3,24, 3,32, 3,40, 2,48, 3,56, 2
77CE	3A		
77CF	16		
77D0	14		
77D1	00		
77D2	03		
77D3	08		
77D4	03		
77D5	10		
77D6	03		
77D7	18		
77D8	03		
77D9	20		
77DA	03		

LOC	OBJ	LINE	SOURCE
77DB	28		
77DC	02		
77DD	30		
77DE	03		
77DF	38		
77E0	02		
77E1	10	=1 504	DB 010H,03BH,18,20, 0, 3, 8, 2,16, 2,24, 3,32, 2,40, 2,48, 2,56, 2
77E2	3B		
77E3	12		
77E4	14		
77E5	00		
77E6	03		
77E7	08		
77E8	02		
77E9	10		
77EA	02		
77EB	18		
77EC	03		
77ED	20		
77EE	02		
77EF	28		
77F0	02		
77F1	30		
77F2	02		
77F3	38		
77F4	02		
77F5	30	=1 505	DB 030H,03BH,15,20, 0, 2, 8, 2,16, 2,24, 2,32, 1,40, 2,48, 2,56, 2
77F6	3B		
77F7	0F		
77F8	14		
77F9	00		
77FA	02		
77FB	08		
77FC	02		
77FD	10		
77FE	02		
77FF	18		
7800	02		
7801	20		
7802	01		
7803	28		
7804	02		
7805	30		
7806	02		
7807	38		
7808	02		
7809	50	=1 506	DB 050H,03BH,12,20, 0, 1, 8, 2,16, 1,24, 2,32, 1,40, 2,48, 1,56, 2
780A	3B		
780B	0C		
780C	14		
780D	00		
780E	01		
780F	08		
7810	02		
7811	10		

LOC	OBJ	LINE	SOURCE
7812	01		
7813	18		
7814	02		
7815	20		
7816	01		
7817	28		
7818	02		
7819	30		
781A	01		
781B	38		
781C	02		
781D	70	=1 507	DB 070H,03BH,10,20, 0, 1, 8, 1,16, 2,24, 1,32, 1,40, 1,48, 2,56, 1
781E	38		
781F	0A		
7820	14		
7821	00		
7822	01		
7823	08		
7824	01		
7825	10		
7826	02		
7827	18		
7828	01		
7829	20		
782A	01		
782B	28		
782C	01		
782D	30		
782E	02		
782F	38		
7830	01		
7831	90	=1 508	DB 090H,03BH, 9,20, 0, 1, 8, 1,16, 1,24, 1,32, 2,40, 1,48, 1,56, 1
7832	38		
7833	09		
7834	14		
7835	00		
7836	01		
7837	08		
7838	01		
7839	10		
783A	01		
783B	18		
783C	01		
783D	20		
783E	02		
783F	28		
7840	01		
7841	30		
7842	01		
7843	38		
7844	01		
7845	80	=1 509	DB 0B0H,03BH, 7,20, 0, 1, 8, 1,16, 1,24, 1,32, 1,48, 1,56, 1
7846	38		
7847	07		
7848	14		

LOC	OBJ	LINE	SOURCE
7849	00		
784A	01		
784B	08		
784C	01		
784D	10		
784E	01		
784F	18		
7850	01		
7851	20		
7852	01		
7853	30		
7854	01		
7855	38		
7856	01	=1 510	
		=1 511	
		=1 512 ; STAR PATH # 5	
		=1 513	
7857		=1 514 STAR_PATH05	LABEL BYTE
		=1 515	
7857	68	=1 516	DB 068H,039H,11,18,51, 1,50, 1,42, 3,41, 3,40, 2,32, 1
7858	39		
7859	08		
785A	12		
785B	33		
785C	01		
785D	32		
785E	01		
785F	2A		
7860	03		
7861	29		
7862	03		
7863	28		
7864	02		
7865	20		
7866	01		
7867	67	=1 517	DB 067H,039H,21,16,-1, 3,38, 2,29, 3,28, 3,19, 3,18, 2,17, 2, 8, 3
7868	39		
7869	15		
786A	10		
786B	FF		
786C	03		
786D	26		
786E	02		
786F	1D		
7870	03		
7871	1C		
7872	03		
7873	13		
7874	03		
7875	12		
7876	02		
7877	11		
7878	02		
7879	08		

LOC	OBJ	LINE	SOURCE
787A	03		
787B	66	=1 518	DB 066H,039H, 7,20,-1, 2, 6, 2, 5, 3
787C	39		
787D	07		
787E	14		
787F	FF		
7880	02		
7881	06		
7882	02		
7883	05		
7884	03		
7885	46	=1 519	DB 046H,039H,10,10,60, 2,59, 2,58, 1,50, 1,49, 2,48, 2
7886	39		
7887	0A		
7888	0A		
7889	3C		
788A	02		
788B	38		
788C	02		
788D	3A		
788E	01		
788F	32		
7890	01		
7891	31		
7892	02		
7893	30		
7894	02		
7895	45	=1 520	DB 045H,039H,14,16,-1, 2,46, 1,45, 2,36, 2,35, 2,26, 1,25, 2,16, 2
7896	39		
7897	0E		
7898	10		
7899	FF		
789A	02		
789B	2E		
789C	01		
789D	2D		
789E	02		
789F	24		
78A0	02		
78A1	23		
78A2	02		
78A3	1A		
78A4	01		
78A5	19		
78A6	02		
78A7	10		
78A8	02		
78A9	44	=1 521	DB 044H,039H, 9,20,-1, 1,22, 2,13, 1,12, 1, 4, 1, 3, 1, 2, 1, 1, 1
78AA	39		
78AB	09		
78AC	14		
78AD	FF		
78AE	01		
78AF	16		
78B0	02		

LOC	OBJ	LINE	SOURCE
78B1	0D		
78B2	01		
78B3	0C		
78B4	01		
78B5	04		
78B6	01		
78B7	03		
78B8	01		
78B9	02		
78BA	01		
78BB	01		
78BC	01		
78BD	24	=1 522	DB 024H,039H, 2,20,57, 1,56, 1
78BE	39		
78BF	02		
78C0	14		
78C1	39		
78C2	01		
78C3	38		
78C4	01		
78C5	23	=1 523	DB 023H,039H,10, 8,-1, 1,54, 2,53, 1,44, 1,43, 1,42, 1,33, 2,24, 1
78C6	39		
78C7	0A		
78C8	0B		
78C9	FF		
78CA	01		
78CB	36		
78CC	02		
78CD	35		
78CE	01		
78CF	2C		
78D0	01		
78D1	2B		
78D2	01		
78D3	2A		
78D4	01		
78D5	21		
78D6	02		
78D7	18		
78D8	01		
78D9	22	=1 524	DB 022H,039H, 8,20,-1, 1,30, 1,21, 1,20, 1,11, 1,10, 1, 9, 1, 0, 1
78DA	39		
78DB	08		
78DC	14		
78DD	FF		
78DE	01		
78DF	1E		
78E0	01		
78E1	15		
78E2	01		
78E3	14		
78E4	01		
78E5	0B		
78E6	01		
78E7	0A		

LOC	OBJ	LINE	SOURCE
78E8	01		
78E9	09		
78EA	01		
78EB	00		
78EC	01		
		=1 525	
		=1 526	
		=1 527 ; STAR PATH # 6	
		=1 528	
78ED		=1 529	STAR_PATH06 LABEL BYTE
		=1 530	
78ED	16	=1 531	DB 016H,039H,28,20,56, 4,49, 4,42, 4,35, 3,28, 4,21, 3,14, 3,-1, 3
78EE	39		
78EF	1C		
78F0	14		
78F1	38		
78F2	04		
78F3	31		
78F4	04		
78F5	2A		
78F6	04		
78F7	23		
78F8	03		
78F9	1C		
78FA	04		
78FB	15		
78FC	03		
78FD	0E		
78FE	03		
78FF	FF		
7900	03		
7901	F7	=1 532	DB 0F7H,038H,22,20,56, 3,49, 3,42, 3,35, 3,28, 3,21, 2,14, 3,-1, 2
7902	38		
7903	16		
7904	14		
7905	38		
7906	03		
7907	31		
7908	03		
7909	2A		
790A	03		
790B	23		
790C	03		
790D	1C		
790E	03		
790F	15		
7910	02		
7911	0E		
7912	03		
7913	FF		
7914	02		
7915	DB	=1 533	DB 0D8H,038H,17,20,56, 2,49, 3,42, 2,35, 2,28, 2,21, 2,14, 2,-1, 2
7916	38		
7917	11		
7918	14		

LOC	OBJ	LINE	SOURCE
7919	38		
791A	02		
791B	31		
791C	03		
791D	2A		
791E	02		
791F	23		
7920	02		
7921	1C		
7922	02		
7923	15		
7924	02		
7925	0E		
7926	02		
7927	FF		
7928	02		
7929	B9	=1 534	DB 0B9H,038H,13,20,56, 2,49, 1,42, 2,35, 2,28, 1,21, 2,14, 2,-1, 1
792A	38		
792B	0D		
792C	14		
792D	38		
792E	02		
792F	31		
7930	01		
7931	2A		
7932	02		
7933	23		
7934	02		
7935	1C		
7936	01		
7937	15		
7938	02		
7939	0E		
793A	02		
793B	FF		
793C	01		
793D	9A	=1 535	DB 09AH,038H,11,20,56, 2,49, 1,42, 1,35, 2,28, 1,21, 1,14, 2,-1, 1
793E	38		
793F	0B		
7940	14		
7941	38		
7942	02		
7943	31		
7944	01		
7945	2A		
7946	01		
7947	23		
7948	02		
7949	1C		
794A	01		
794B	15		
794C	01		
794D	0E		
794E	02		
794F	FF		

LOC	OBJ	LINE	SOURCE
7950	01		
7951	7B	=1 536	DB 07BH,038H, 9,20,56, 1,49, 1,42, 2,35, 1,28, 1,21, 1,14, 1,-1, 1
7952	3B		
7953	09		
7954	14		
7955	3B		
7956	01		
7957	31		
7958	01		
7959	2A		
795A	02		
795B	23		
795C	01		
795D	1C		
795E	01		
795F	15		
7960	01		
7961	0E		
7962	01		
7963	FF		
7964	01		
7965	5C	=1 537	DB 05CH,038H, 8,20,56, 1,49, 1,42, 1,35, 1,28, 1,21, 1,14, 1,-1, 1
7966	3B		
7967	08		
7968	14		
7969	3B		
796A	01		
796B	31		
796C	01		
796D	2A		
796E	01		
796F	23		
7970	01		
7971	1C		
7972	01		
7973	15		
7974	01		
7975	0E		
7976	01		
7977	FF		
7978	01		
7979	3D	=1 538	DB 03DH,038H, 6,20,56, 1,49, 1,35, 1,28, 1,21, 1,14, 1
797A	3B		
797B	06		
797C	14		
797D	3B		
797E	01		
797F	31		
7980	01		
7981	23		
7982	01		
7983	1C		
7984	01		
7985	15		
7986	01		

LOC	OBJ	LINE	SOURCE
7987	0E		
7988	01		
7989	1E	=1 539	DB 01EH,03BH, 6,16,56, 1,49, 1,42, 1,28, 1,21, 1,14, 1
798A	38		
798B	06		
798C	10		
798D	38		
798E	01		
798F	31		
7990	01		
7991	2A		
7992	01		
7993	1C		
7994	01		
7995	15		
7996	01		
7997	0E		
7998	01		
		=1 540	
		=1 541	
		=1 542 ;	STAR PATH # 7
		=1 543	
7999		=1 544	STAR_PATH07 LABEL BYTE
		=1 545	
7999	F3	=1 546	0F3H,03AH,19,16,10, 3,18, 2,19, 1,27, 3,35, 3,44, 2,52, 3,60, 2
799A	3A		
799B	13		
799C	10		
799D	0A		
799E	03		
799F	12		
79A0	02		
79A1	13		
79A2	01		
79A3	1B		
79A4	03		
79A5	23		
79A6	03		
79A7	2C		
79A8	02		
79A9	34		
79AA	03		
79AB	3C		
79AC	02		
79AD	13	=1 547	013H,03BH,17,20, 5, 3,13, 2,21, 1,22, 2,30, 2,38, 2,-1, 5
79AE	3B		
79AF	11		
79B0	14		
79B1	05		
79B2	03		
79B3	0D		
79B4	02		
79B5	15		
79B6	01		
79B7	16		

LOC	OBJ	LINE	SOURCE
79B8	02		
79B9	1E		
79BA	02		
79BB	26		
79BC	02		
79BD	FF		
79BE	05		
79BF	14	=1 548	DB 014H,03BH, 2,18,56, 2
79C0	3B		
79C1	02		
79C2	12		
79C3	3B		
79C4	02		
79C5	34	=1 549	DB 034H,03BH,14, 6, 0, 2, 8, 1,17, 2,25, 2,33, 2,42, 2,50, 2,59, 1
79C6	3B		
79C7	0E		
79C8	06		
79C9	00		
79CA	02		
79CB	08		
79CC	01		
79CD	11		
79CE	02		
79CF	19		
79D0	02		
79D1	21		
79D2	02		
79D3	2A		
79D4	02		
79D5	32		
79D6	02		
79D7	3B		
79D8	01		
79D9	54	=1 550	DB 054H,03BH,13,20, 3, 2,12, 2,20, 2,29, 1,37, 1,45, 2,54, 1,62, 2
79DA	3B		
79DB	0D		
79DC	14		
79DD	03		
79DE	02		
79DF	0C		
79E0	02		
79E1	14		
79E2	02		
79E3	1D		
79E4	01		
79E5	25		
79E6	01		
79E7	2D		
79E8	02		
79E9	36		
79EA	01		
79EB	3E		
79EC	02		
79ED	74	=1 551	DB 074H,03BH, 4,20,-1, 4
79EE	3B		

LOC	OBJ	LINE	SOURCE
79EF	04		
79F0	14		
79F1	FF		
79F2	04		
79F3	75	=1 552	DB 075H,03BH, 6, 6,24, 1,32, 1,40, 1,41, 1,49, 1,57, 1
79F4	3B		
79F5	06		
79F6	06		
79F7	18		
79F8	01		
79F9	20		
79FA	01		
79FB	28		
79FC	01		
79FD	29		
79FE	01		
79FF	31		
7A00	01		
7A01	39		
7A02	01		
7A03	95	=1 553	DB 095H,03BH, 9,16, 2, 1,10, 1,18, 2,27, 1,35, 1,44, 1,52, 1,61, 1
7A04	3B		
7A05	09		
7A06	10		
7A07	02		
7A08	01		
7A09	0A		
7A0A	01		
7A0B	12		
7A0C	02		
7A0D	1B		
7A0E	01		
7A0F	23		
7A10	01		
7A11	2C		
7A12	01		
7A13	34		
7A14	01		
7A15	3D		
7A16	01		
		=1 554	
		=1 555	
		=1 556 ;	STAR PATH # 8
		=1 557	
7A17		=1 558	STAR_PATH08 LABEL BYTE
		=1 559	
7A17	E6	=1 560	DB 0E6H,039H,19,20,-1, 2, 6, 3, 5, 2, 4, 3, 3, 2, 2, 3, 1, 2, 0, 2
7A18	39		
7A19	13		
7A1A	14		
7A1B	FF		
7A1C	02		
7A1D	06		
7A1E	03		
7A1F	05		

LOC	OBJ	LINE	SOURCE
7A20	02		
7A21	04		
7A22	03		
7A23	03		
7A24	02		
7A25	02		
7A26	03		
7A27	01		
7A28	02		
7A29	00		
7A2A	02		
7A2B	E5	=1 561	DB 0E5H,039H,17,20,-1, 2, 6, 3, 5, 2, 4, 2, 3, 2, 2, 2, 1, 2, 0, 2
7A2C	39		
7A2D	11		
7A2E	14		
7A2F	FF		
7A30	02		
7A31	06		
7A32	03		
7A33	05		
7A34	02		
7A35	04		
7A36	02		
7A37	03		
7A38	02		
7A39	02		
7A3A	02		
7A3B	01		
7A3C	02		
7A3D	00		
7A3E	02		
7A3F	E4	=1 562	DB 0E4H,039H,13,20,-1, 2, 6, 1, 5, 2, 4, 2, 3, 2, 2, 1, 1, 2, 0, 1
7A40	39		
7A41	0D		
7A42	14		
7A43	FF		
7A44	02		
7A45	06		
7A46	01		
7A47	05		
7A48	02		
7A49	04		
7A4A	02		
7A4B	03		
7A4C	02		
7A4D	02		
7A4E	01		
7A4F	01		
7A50	02		
7A51	00		
7A52	01		
7A53	E3	=1 563	DB 0E3H,039H,12,20,-1, 2, 6, 2, 5, 1, 4, 1, 3, 2, 2, 1, 1, 2, 0, 1
7A54	39		
7A55	0C		
7A56	14		

LOC	OBJ	LINE	SOURCE
7A57	FF		
7A58	02		
7A59	06		
7A5A	02		
7A5B	05		
7A5C	01		
7A5D	04		
7A5E	01		
7A5F	03		
7A60	02		
7A61	02		
7A62	01		
7A63	01		
7A64	02		
7A65	00		
7A66	01		
7A67	E2	=1 564	DB 0E2H,039H,10,20,-1, 1, 6, 2, 5, 1, 4, 1, 3, 1, 2, 2, 1, 1, 0, 1
7A68	39		
7A69	0A		
7A6A	14		
7A6B	FF		
7A6C	01		
7A6D	06		
7A6E	02		
7A6F	05		
7A70	01		
7A71	04		
7A72	01		
7A73	03		
7A74	01		
7A75	02		
7A76	02		
7A77	01		
7A78	01		
7A79	00		
7A7A	01		
		=1 565	
		=1 566	
		=1 567 ; STAR PATH # 9	
		=1 568	
7A7B		=1 569 STAR_PATH09	LABEL BYTE
		=1 570	
7A7B	D3	=1 571	DB 0D3H,038H,10,20,29, 1,21, 3,13, 2,14, 1, 6, 3
7A7C	38		
7A7D	0A		
7A7E	14		
7A7F	1D		
7A80	01		
7A81	15		
7A82	03		
7A83	0D		
7A84	02		
7A85	0E		
7A86	01		
7A87	06		

LOC	OBJ	LINE	SOURCE
7A88	03		
7A89	83	=1 572	DB 0B3H,038H, 8,14,62, 2,-1, 6
7A8A	38		
7A8B	08		
7A8C	0E		
7A8D	3E		
7A8E	02		
7A8F	FF		
7A90	06		
7A91	B4	=1 573	DB 0B4H,038H,11, 8,32, 2,24, 2,16, 2, 9, 2, 1, 3
7A92	38		
7A93	0B		
7A94	0B		
7A95	20		
7A96	02		
7A97	18		
7A98	02		
7A99	10		
7A9A	02		
7A9B	09		
7A9C	02		
7A9D	01		
7A9E	03		
7A9F	94	=1 574	DB 094H,038H,15,14,58, 2,50, 2,42, 2,35, 2,27, 2,20, 2,12, 2, 5, 1
7AA0	38		
7AA1	0F		
7AA2	0E		
7AA3	3A		
7AA4	02		
7AA5	32		
7AA6	02		
7AA7	2A		
7AA8	02		
7AA9	23		
7AAA	02		
7AAAB	1B		
7AAC	02		
7AAD	14		
7AAE	02		
7AAF	0C		
7AB0	02		
7AB1	05		
7AB2	01		
7AB3	74	=1 575	DB 074H,038H,11,20,61, 2,53, 1,54, 1,46, 1,38, 2,-1, 4
7AB4	38		
7AB5	0B		
7AB6	14		
7AB7	3D		
7AB8	02		
7AB9	35		
7ABA	01		
7ABB	36		
7ABC	01		
7ABD	2E		
7ABE	01		

LOC	OBJ	LINE	SOURCE
7ABF	26		
7AC0	02		
7AC1	FF		
7AC2	04		
7AC3	75	=1 576	DB 075H,038H, 2,16, 8, 1, 0, 1
7AC4	38		
7AC5	02		
7AC6	10		
7AC7	08		
7AC8	01		
7AC9	00		
7ACA	01		
7ACB	55	=1 577	DB 055H,038H,11, 8,56, 2,49, 1,41, 2,34, 1,26, 1,18, 2,11, 1, 3, 1
7ACC	38		
7ACD	08		
7ACE	08		
7ACF	38		
7AD0	02		
7AD1	31		
7AD2	01		
7AD3	29		
7AD4	02		
7AD5	22		
7AD6	01		
7AD7	1A		
7AD8	01		
7AD9	12		
7ADA	02		
7ADB	08		
7ADC	01		
7ADD	03		
7ADE	01		
7ADF	35	=1 578	DB 035H,038H,11,20,60, 2,52, 1,45, 1,37, 1,29, 1,22, 1,14, 1,-1, 3
7AE0	38		
7AE1	08		
7AE2	14		
7AE3	3C		
7AE4	02		
7AE5	34		
7AE6	01		
7AE7	2D		
7AE8	01		
7AE9	25		
7AEA	01		
7AEB	1D		
7AEC	01		
7AED	16		
7AEE	01		
7AEF	0E		
7AF0	01		
7AF1	FF		
7AF2	03		
7AF3	16	=1 579	DB 016H,038H, 7,20,48, 1,40, 1,33, 1,25, 1,17, 1,10, 1, 2, 1
7AF4	38		
7AF5	07		

LOC	OBJ	LINE	SOURCE
7AF6	14		
7AF7	30		
7AF8	01		
7AF9	28		
7AFA	01		
7AFB	21		
7AFC	01		
7AFD	19		
7AFE	01		
7AFF	11		
7B00	01		
7B01	0A		
7B02	01		
7B03	02		
7B04	01		
		=1 580	
		=1 581	
		=1 582 ; STAR PATH # 10	
		=1 583	
7B05		=1 584 STAR_PATH10 LABEL BYTE	
		=1 585	
7B05	07	=1 586 DB 0D7H,03AH,25,18, 0, 4, 9, 3,18, 3,27, 3,36, 3,45, 3,54, 3,-1, 3	
7B06	3A		
7B07	19		
7B08	12		
7B09	00		
7B0A	04		
7B0B	09		
7B0C	03		
7B0D	12		
7B0E	03		
7B0F	1B		
7B10	03		
7B11	24		
7B12	03		
7B13	2D		
7B14	03		
7B15	36		
7B16	03		
7B17	FF		
7B18	03		
7B19	F8	=1 587 DB 0FBH,03AH,19,20, 0, 2, 9, 3,18, 2,27, 3,36, 2,45, 2,54, 2,-1, 3	
7B1A	3A		
7B1B	13		
7B1C	14		
7B1D	00		
7B1E	02		
7B1F	09		
7B20	03		
7B21	12		
7B22	02		
7B23	1B		
7B24	03		
7B25	24		
7B26	02		

LOC	OBJ	LINE	SOURCE
7B27	2D		
7B28	02		
7B29	36		
7B2A	02		
7B2B	FF		
7B2C	03		
7B2D	19	=1 588	DB 019H,03BH,15,20, 0, 2, 9, 2,18, 2,27, 1,36, 2,45, 2,54, 2,-1, 2
7B2E	3B		
7B2F	0F		
7B30	14		
7B31	00		
7B32	02		
7B33	09		
7B34	02		
7B35	12		
7B36	02		
7B37	1B		
7B38	01		
7B39	24		
7B3A	02		
7B3B	2D		
7B3C	02		
7B3D	36		
7B3E	02		
7B3F	FF		
7B40	02		
7B41	3A	=1 589	DB 03AH,03BH,12,20, 0, 1, 9, 2,18, 2,27, 1,36, 2,45, 1,54, 2,-1, 1
7B42	3B		
7B43	0C		
7B44	14		
7B45	00		
7B46	01		
7B47	09		
7B48	02		
7B49	12		
7B4A	02		
7B4B	1B		
7B4C	01		
7B4D	24		
7B4E	02		
7B4F	2D		
7B50	01		
7B51	36		
7B52	02		
7B53	FF		
7B54	01		
7B55	58	=1 590	DB 05BH,03BH,10,20, 0, 1, 9, 2,18, 1,27, 1,36, 2,45, 1,54, 1,-1, 1
7B56	3B		
7B57	0A		
7B58	14		
7B59	00		
7B5A	01		
7B5B	09		
7B5C	02		
7B5D	12		

LOC	OBJ	LINE	SOURCE
7B5E	01		
7B5F	1B		
7B60	01		
7B61	24		
7B62	02		
7B63	2D		
7B64	01		
7B65	36		
7B66	01		
7B67	FF		
7B68	01		
7B69	7C	=1 591	DB 07CH,03BH, 9,20, 0, 1, 9, 2,18, 1,27, 1,36, 1,45, 1,54, 1,-1, 1
7B6A	3B		
7B6B	09		
7B6C	14		
7B6D	00		
7B6E	01		
7B6F	09		
7B70	02		
7B71	12		
7B72	01		
7B73	1B		
7B74	01		
7B75	24		
7B76	01		
7B77	2D		
7B78	01		
7B79	36		
7B7A	01		
7B7B	FF		
7B7C	01		
7B7D	9D	=1 592	DB 09DH,03BH, 7,20, 0, 1, 9, 1,18, 1,27, 1,36, 1,45, 1,54, 1
7B7E	3B		
7B7F	07		
7B80	14		
7B81	00		
7B82	01		
7B83	09		
7B84	01		
7B85	12		
7B86	01		
7B87	1B		
7B88	01		
7B89	24		
7B8A	01		
7B8B	2D		
7B8C	01		
7B8D	36		
7B8E	01		
7B8F	8E	=1 593	DB 0BEH,03BH, 6,18, 0, 1, 9, 1,18, 1,27, 1,36, 1,54, 1
7B90	3B		
7B91	06		
7B92	12		
7B93	00		
7B94	01		

LOC	OBJ	LINE	SOURCE
7B95	09		
7B96	01		
7B97	12		
7B98	01		
7B99	18		
7B9A	01		
7B9B	24		
7B9C	01		
7B9D	36		
7B9E	01		
		=1 594	
		=1 595	
		=1 596 ; STAR PATH # 11	
		=1 597	
7B9F		=1 598 STAR_PATH11	LABEL BYTE
		=1 599	
7B9F	46	=1 600	DB 046H,03AH,15,16,46, 2,45, 1,53, 2,52, 3,51, 1,59, 1,58, 3,57, 2
7BA0	3A		
7BA1	0F		
7BA2	10		
7BA3	2E		
7BA4	02		
7BA5	2D		
7BA6	01		
7BA7	35		
7BA8	02		
7BA9	34		
7BAA	03		
7BAB	33		
7BAC	01		
7BAD	3B		
7BAE	01		
7BAF	3A		
7BB0	03		
7BB1	39		
7BB2	02		
7BB3	66	=1 601	DB 066H,03AH, 2,20, 0, 2
7BB4	3A		
7BB5	02		
7BB6	14		
7BB7	00		
7BB8	02		
7BB9	65	=1 602	DB 065H,03AH,17, 6,-1, 2, 6, 3,13, 2,12, 2,19, 2,18, 2,17, 2,24, 2
7BBA	3A		
7BBC	11		
7BBC	06		
7BBE	FF		
7BBE	02		
7BBF	06		
7BC0	03		
7BC1	0D		
7BC2	02		
7BC3	0C		
7BC4	02		
7BC5	13		

LOC	OBJ	LINE	SOURCE
7BC6	02		
7BC7	12		
7BCB	02		
7BC9	11		
7BCA	02		
7BCB	18		
7BCC	02		
7BCD	64	=1 603	DB 064H,03AH,14,20,-1, 2,3B, 2,37, 1,36, 2,43, 2,42, 2,49, 1,48, 2
7BCE	3A		
7BCF	0E		
7BD0	14		
7BD1	FF		
7BD2	02		
7BD3	26		
7BD4	02		
7BD5	25		
7BD6	01		
7BD7	24		
7BD8	02		
7BD9	2B		
7BDA	02		
7BDB	2A		
7BDC	02		
7BDD	31		
7BDE	01		
7BDF	30		
7BE0	02		
7BE1	63	=1 604	DB 063H,03AH, 4,20,-1, 1,62, 2,61, 1
7BE2	3A		
7BE3	04		
7BE4	14		
7BE5	FF		
7BE6	01		
7BE7	3E		
7BE8	02		
7BE9	3D		
7BEA	01		
7BEB	83	=1 605	DB 0B3H,03AH, 8,10, 4, 2, 3, 1, 2, 1,10, 1, 9, 1, 8, 1,16, 1
7BEC	3A		
7BED	08		
7BEE	0A		
7BEF	04		
7BF0	02		
7BF1	03		
7BF2	01		
7BF3	02		
7BF4	01		
7BF5	0A		
7BF6	01		
7BF7	09		
7BF8	01		
7BF9	0B		
7BFA	01		
7BFB	10		
7BFC	01		

LOC	OBJ	LINE	SOURCE
7BFD	82	=1 606	DB 082H,03AH,10,18,-1, 1,22, 1,21, 1,28, 2,27, 1,34, 1,33, 2,40, 1
7BFE	3A		
7BFF	0A		
7C00	12		
7C01	FF		
7C02	01		
7C03	16		
7C04	01		
7C05	15		
7C06	01		
7C07	1C		
7C08	02		
7C09	1B		
7C0A	01		
7C0B	22		
7C0C	01		
7C0D	21		
7C0E	02		
7C0F	28		
7C10	01		
7C11	81	=1 607	DB 081H,03AH, 7,20,-1, 1,46, 1,53, 1,52, 1,59, 1,58, 1,57, 1
7C12	3A		
7C13	07		
7C14	14		
7C15	FF		
7C16	01		
7C17	2E		
7C18	01		
7C19	35		
7C1A	01		
7C1B	34		
7C1C	01		
7C1D	3B		
7C1E	01		
7C1F	3A		
7C20	01		
7C21	39		
7C22	01		
		=1 608	
		=1 609	
7C23		=1 610	STAR_PATH12 LABEL BYTE ;FAILED TO MAKE GOOD PATH
		=1 611	
		=1 612	
		=1 613	; STAR PATH # 13
		=1 614	
7C23	79	=1 615	STAR_PATH13 LABEL BYTE
		=1 616	
		=1 617	DB 079H,03AH, 8,18, 4, 1, 5, 2,13, 1,14, 2,-1, 2
7C24	3A		
7C25	0B		
7C26	12		
7C27	04		
7C28	01		
7C29	05		
7C2A	02		

LOC	OBJ	LINE	SOURCE
7C2B	0D		
7C2C	01		
7C2D	0E		
7C2E	02		
7C2F	FF		
7C30	02		
7C31	7A	=1 618	DB 07AH,03AH,18,14,16, 3,17, 2,26, 2,27, 3,36, 2,37, 2,38, 2,-1, 2
7C32	3A		
7C33	12		
7C34	0E		
7C35	10		
7C36	03		
7C37	11		
7C38	02		
7C39	1A		
7C3A	02		
7C3B	1B		
7C3C	03		
7C3D	24		
7C3E	02		
7C3F	25		
7C40	02		
7C41	26		
7C42	02		
7C43	FF		
7C44	02		
7C45	7B	=1 619	DB 07BH,03AH,11,20,40, 2,41, 1,49, 1,50, 2,51, 1,59, 1,60, 1,61, 2
7C46	3A		
7C47	0B		
7C48	14		
7C49	28		
7C4A	02		
7C4B	29		
7C4C	01		
7C4D	31		
7C4E	01		
7C4F	32		
7C50	02		
7C51	33		
7C52	01		
7C53	3B		
7C54	01		
7C55	3C		
7C56	01		
7C57	3D		
7C58	02		
7C59	9B	=1 620	DB 09BH,03AH, 3,20, 6, 2,-1, 1
7C5A	3A		
7C5B	03		
7C5C	14		
7C5D	06		
7C5E	02		
7C5F	FF		
7C60	01		
7C61	9C	=1 621	DB 09CH,03AH,13, 8, 8, 2, 9, 2,10, 1,19, 2,20, 1,29, 2,30, 1,-1, 2

LOC	OBJ	LINE	SOURCE
7C62	3A		
7C63	0D		
7C64	0B		
7C65	0B		
7C66	02		
7C67	09		
7C68	02		
7C69	0A		
7C6A	01		
7C6B	13		
7C6C	02		
7C6D	14		
7C6E	01		
7C6F	1D		
7C70	02		
7C71	1E		
7C72	01		
7C73	FF		
7C74	02		
7C75	9D	=1 622	DB 09DH,03AH, 9,20,32, 1,33, 2,42, 1,43, 1,44, 1,52, 1,53, 1,54, 1
7C76	3A		
7C77	09		
7C78	14		
7C79	20		
7C7A	01		
7C7B	21		
7C7C	02		
7C7D	2A		
7C7E	01		
7C7F	2B		
7C80	01		
7C81	2C		
7C82	01		
7C83	34		
7C84	01		
7C85	35		
7C86	01		
7C87	36		
7C88	01		
		=1 623	
		=1 624	
		=1 625 ;	STAR PATH # 14
		=1 626	
7C89		=1 627	STAR_PATH14 LABEL BYTE
		=1 628	
7C89	C8	=1 629	DB 0CBH,03AH,11,20,35, 2,42, 3,49, 3,56, 3
7C8A	3A		
7C8B	0B		
7C8C	14		
7C8D	23		
7C8E	02		
7C8F	2A		
7C90	03		
7C91	31		
7C92	03		

LOC	OBJ	LINE	SOURCE
7C93	3B		
7C94	03		
7C95	E7	=1 630	DB 0E7H,03AH,21,12,-1, 3,14, 3,21, 3,28, 2,35, 3,42, 3,49, 2,56, 2
7C96	3A		
7C97	15		
7C98	0C		
7C99	FF		
7C9A	03		
7C9B	0E		
7C9C	03		
7C9D	15		
7C9E	03		
7C9F	1C		
7CA0	02		
7CA1	23		
7CA2	03		
7CA3	2A		
7CA4	03		
7CA5	31		
7CA6	02		
7CA7	3B		
7CAB	02		
7CA9	06	=1 631	DB 006H,03BH,17,20,-1, 3,14, 2,21, 2,28, 2,35, 2,42, 2,49, 2,56, 2
7CAA	3B		
7CAB	11		
7CAC	14		
7CAD	FF		
7CAE	03		
7CAF	0E		
7CB0	02		
7CB1	15		
7CB2	02		
7CB3	1C		
7CB4	02		
7CB5	23		
7CB6	02		
7CB7	2A		
7CB8	02		
7CB9	31		
7CBA	02		
7CBB	3B		
7CBC	02		
7CBD	25	=1 632	DB 025H,03BH,14,20,-1, 2,14, 2,21, 2,28, 1,35, 2,42, 2,49, 1,56, 2
7CBE	3B		
7CBF	0E		
7CC0	14		
7CC1	FF		
7CC2	02		
7CC3	0E		
7CC4	02		
7CC5	15		
7CC6	02		
7CC7	1C		
7CC8	01		
7CC9	23		

LOC	OBJ	LINE	SOURCE
7CCA	02		
7CCB	2A		
7CCC	02		
7CCD	31		
7CCE	01		
7CCF	3B		
7CD0	02		
7CD1	44	=1 633	DB 044H,03BH,11,20,-1, 1,14, 2,21, 1,28, 2,35, 1,42, 2,49, 1,56, 1
7CD2	3B		
7CD3	0B		
7CD4	14		
7CD5	FF		
7CD6	01		
7CD7	0E		
7CD8	02		
7CD9	15		
7CDA	01		
7CDB	1C		
7CDC	02		
7CDD	23		
7CDE	01		
7CDF	2A		
7CE0	02		
7CE1	31		
7CE2	01		
7CE3	3B		
7CE4	01		
7CE5	63	=1 634	DB 063H,03BH,10,20,-1, 2,14, 1,21, 1,28, 1,35, 2,42, 1,49, 1,56, 1
7CE6	3B		
7CE7	0A		
7CE8	14		
7CE9	FF		
7CEA	02		
7CEB	0E		
7CEC	01		
7CED	15		
7CEE	01		
7CEF	1C		
7CF0	01		
7CF1	23		
7CF2	02		
7CF3	2A		
7CF4	01		
7CF5	31		
7CF6	01		
7CF7	3B		
7CF8	01		
7CF9	82	=1 635	DB 082H,03BH, 8,20,-1, 1,14, 1,21, 1,28, 1,35, 1,42, 1,49, 1,56, 1
7CFA	3B		
7CFB	0B		
7CFC	14		
7CFD	FF		
7CFE	01		
7cff	0E		
7D00	01		

LOC	OBJ	LINE	SOURCE
7D01	15		
7D02	01		
7D03	1C		
7D04	01		
7D05	23		
7D06	01		
7D07	2A		
7D08	01		
7D09	31		
7D0A	01		
7D0B	38		
7D0C	01		
		=1 636	
		=1 637	
		=1 638 ; STAR PATH # 15	
		=1 639	
7D0D		=1 640 STAR_PATH15	LABEL BYTE
		=1 641	
7D0D	88	=1 642	DB 08BH,038H,15,20,-1, 1,54, 1,46, 2,38, 3,29, 2,21, 2,13, 2, 4, 2
7D0E	38		
7D0F	0F		
7D10	14		
7D11	FF		
7D12	01		
7D13	36		
7D14	01		
7D15	2E		
7D16	02		
7D17	26		
7D18	03		
7D19	1D		
7D1A	02		
7D1B	15		
7D1C	02		
7D1D	0D		
7D1E	02		
7D1F	04		
7D20	02		
7D21	6B	=1 643	DB 06BH,038H,16,20,60, 3,51, 2,43, 2,35, 2,26, 1,18, 2, 9, 2, 1, 2
7D22	38		
7D23	10		
7D24	14		
7D25	3C		
7D26	03		
7D27	33		
7D28	02		
7D29	28		
7D2A	02		
7D2B	23		
7D2C	02		
7D2D	1A		
7D2E	01		
7D2F	12		
7D30	02		
7D31	09		

LOC	OBJ	LINE	SOURCE
7D32	02		
7D33	01		
7D34	02		
7D35	4B	=1 644	DB 04BH,03BH, 5,20,57, 1,56, 1,48, 1,40, 2
7D36	3B		
7D37	05		
7D38	14		
7D39	39		
7D3A	01		
7D3B	3B		
7D3C	01		
7D3D	30		
7D3E	01		
7D3F	28		
7D40	02		
7D41	4A	=1 645	DB 04AH,03BH, 8,12,-1, 4,22, 1,14, 1, 6, 2
7D42	3B		
7D43	08		
7D44	0C		
7D45	FF		
7D46	04		
7D47	16		
7D48	01		
7D49	0E		
7D4A	01		
7D4B	06		
7D4C	02		
7D4D	2A	=1 646	DB 02AH,03BH,11,12,61, 1,53, 2,44, 1,36, 2,28, 1,19, 1,11, 2, 2, 1
7D4E	3B		
7D4F	08		
7D50	0C		
7D51	3D		
7D52	01		
7D53	35		
7D54	02		
7D55	2C		
7D56	01		
7D57	24		
7D58	02		
7D59	1C		
7D5A	01		
7D5B	13		
7D5C	01		
7D5D	0B		
7D5E	02		
7D5F	02		
7D60	01		
7D61	0A	=1 647	DB 00AH,03BH, 8,20,58, 1,50, 1,49, 1,41, 1,33, 1,25, 1,16, 2
7D62	3B		
7D63	08		
7D64	14		
7D65	3A		
7D66	01		
7D67	32		
7D68	01		

LOC	OBJ	LINE	SOURCE
7D69	31		
7D6A	01		
7D6B	29		
7D6C	01		
7D6D	21		
7D6E	01		
7D6F	19		
7D70	01		
7D71	10		
7D72	02		
		=1 648	
		=1 649	
		=1 650 ; STAR PATH # 16	
		=1 651	
7D73		=1 652	STAR_PATH16 LABEL BYTE
		=1 653	
7D73	F4	=1 654	DB 0F4H,039H,34,18,34, 3,35, 4,43, 3,44, 6,45, 6,46, 6,-1, 6
7D74	39		
7D75	22		
7D76	12		
7D77	22		
7D78	03		
7D79	23		
7D7A	04		
7D7B	28		
7D7C	03		
7D7D	2C		
7D7E	06		
7D7F	2D		
7D80	06		
7D81	2E		
7D82	06		
7D83	FF		
7D84	06		
7D85	F5	=1 655	DB 0F5H,039H,36,18,40, 5,41, 5,42, 5,51, 5,52, 4,53, 4,54, 4,-1, 4
7D86	39		
7D87	24		
7D88	12		
7D89	28		
7D8A	05		
7D8B	29		
7D8C	05		
7D8D	2A		
7D8E	05		
7D8F	33		
7D90	05		
7D91	34		
7D92	04		
7D93	35		
7D94	04		
7D95	36		
7D96	04		
7D97	FF		
7D98	04		
7D99	F6	=1 656	DB 0F6H,039H,26,20,48, 4,49, 3,58, 4,59, 3,60, 3,61, 3,62, 3,-1, 3

LOC	OBJ	LINE	SOURCE
7D9A	39		
7D9B	1A		
7D9C	14		
7D9D	30		
7D9E	04		
7D9F	31		
7DA0	03		
7DA1	3A		
7DA2	04		
7DA3	3B		
7DA4	03		
7DA5	3C		
7DA6	03		
7DA7	3D		
7DA8	03		
7DA9	3E		
7DAA	03		
7DAB	FF		
7DAC	03		
7DAD	F7	=1 657	DB 0F7H,039H, 2,20,56, 2
7DAE	39		
7DAF	02		
7DB0	14		
7DB1	3B		
7DB2	02		
7DB3	17	=1 658	DB 017H,03AH,17, 6, 1, 3, 2, 3, 3, 2, 4, 2, 5, 3, 6, 2,-1, 2
7DB4	3A		
7DB5	11		
7DB6	06		
7DB7	01		
7DB8	03		
7DB9	02		
7DBA	03		
7DBB	03		
7DBC	02		
7DBD	04		
7DBE	02		
7DBF	05		
7DC0	03		
7DC1	06		
7DC2	02		
7DC3	FF		
7DC4	02		
7DC5	18	=1 659	DB 018H,03AH,15,18, 8, 2, 9, 2,10, 2,11, 2,12, 2,13, 2,14, 1,-1, 2
7DC6	3A		
7DC7	0F		
7DC8	12		
7DC9	08		
7DCA	02		
7DCB	09		
7DCC	02		
7DCD	0A		
7DCE	02		
7DCF	0B		
7DD0	02		

LOC	OBJ	LINE	SOURCE
7DD1	0C		
7DD2	02		
7DD3	0D		
7DD4	02		
7DD5	0E		
7DD6	01		
7DD7	FF		
7DD8	02		
7DD9	19	=1 660	DB 019H,03AH,12,20,16, 2,17, 1,18, 2,19, 1,20, 2,21, 2,30, 1,-1, 1
7DDA	3A		
7DDB	0C		
7DDC	14		
7DDD	10		
7DDE	02		
7DDF	11		
7DE0	01		
7DE1	12		
7DE2	02		
7DE3	13		
7DE4	01		
7DE5	14		
7DE6	02		
7DE7	15		
7DE8	02		
7DE9	1E		
7DEA	01		
7DEB	FF		
7DEC	01		
7DED	1A	=1 661	DB 01AH,03AH,10,20,24, 2,25, 1,26, 1,27, 1,28, 2,37, 1,38, 1,-1, 1
7DEE	3A		
7DEF	0A		
7DF0	14		
7DF1	18		
7DF2	02		
7DF3	19		
7DF4	01		
7DF5	1A		
7DF6	01		
7DF7	1B		
7DF8	01		
7DF9	1C		
7DFA	02		
7DFB	25		
7DFC	01		
7DFD	26		
7DFE	01		
7DFF	FF		
7E00	01		
7E01	1B	=1 662	DB 01BH,03AH, 8,20,32, 1,33, 1,34, 1,35, 1,36, 1,45, 1,46, 1,-1, 1
7E02	3A		
7E03	0B		
7E04	14		
7E05	20		
7E06	01		
7E07	21		

LOC	OBJ	LINE	SOURCE
7E08	01		
7E09	22		
7E0A	01		
7E0B	23		
7E0C	01		
7E0D	24		
7E0E	01		
7E0F	2D		
7E10	01		
7E11	2E		
7E12	01		
7E13	FF		
7E14	01		
7E15	1C	=1 663	DB 01CH,03AH, 7,20,40, 1,41, 1,42, 1,43, 1,52, 1,53, 1,-1, 1
7E16	3A		
7E17	07		
7E18	14		
7E19	28		
7E1A	01		
7E1B	29		
7E1C	01		
7E1D	2A		
7E1E	01		
7E1F	2B		
7E20	01		
7E21	34		
7E22	01		
7E23	35		
7E24	01		
7E25	FF		
7E26	01		
7E27	1D	=1 664	DB 01DH,03AH, 6,18,48, 1,49, 1,58, 1,60, 1,61, 1,-1, 1
7E28	3A		
7E29	06		
7E2A	12		
7E2B	30		
7E2C	01		
7E2D	31		
7E2E	01		
7E2F	3A		
7E30	01		
7E31	3C		
7E32	01		
7E33	3D		
7E34	01		
7E35	FF		
7E36	01		
7E37	1E	=1 665	DB 01EH,03AH, 1,16,56, 1
7E38	3A		
7E39	01		
7E3A	10		
7E3B	38		
7E3C	01		
7E3D	3E	=1 666	DB 03EH,03AH, 4, 6, 2, 1, 3, 1, 5, 1, 6, 1
7E3E	3A		

LOC	OBJ	LINE	SOURCE
7E3F	04		
7E40	06		
7E41	02		
7E42	01		
7E43	03		
7E44	01		
7E45	05		
7E46	01		
7E47	06		
7E48	01		
		=1 667	
		=1 668	
		=1 669 ; STAR PATH # 17	
		=1 670	
7E49		=1 671 STAR_PATH17	LABEL BYTE
		=1 672	
7E49	60	=1 673 DB	06DH,03AH,49,12, 5, 7,12, 7,20, 6,27, 7,34, 6,42, 6,49, 5,57, 5
7E4A	3A		
7E4B	31		
7E4C	0C		
7E4D	05		
7E4E	07		
7E4F	0C		
7E50	07		
7E51	14		
7E52	06		
7E53	1B		
7E54	07		
7E55	22		
7E56	06		
7E57	2A		
7E58	06		
7E59	31		
7E5A	05		
7E5B	39		
7E5C	05		
7E5D	8D	=1 674 DB	08DH,03AH, 8,20, 0, 5, 8, 3
7E5E	3A		
7E5F	08		
7E60	14		
7E61	00		
7E62	05		
7E63	08		
7E64	03		
7E65	8C	=1 675 DB	08CH,03AH,26, 8,-1, 8,30, 3,38, 4,45, 3,53, 3,52, 1,60, 4
7E66	3A		
7E67	1A		
7E68	08		
7E69	FF		
7E6A	08		
7E6B	1E		
7E6C	03		
7E6D	26		
7E6E	04		
7E6F	2D		

LOC	OBJ	LINE	SOURCE
7E70	03		
7E71	35		
7E72	03		
7E73	34		
7E74	01		
7E75	3C		
7E76	04		
7E77	AC	=1 676	DB 0ACh,03AH,22,18, 4, 1, 3, 2,11, 4,18, 3,26, 3,33, 3,41, 2,48, 4
7E78	3A		
7E79	16		
7E7A	12		
7E7B	04		
7E7C	01		
7E7D	03		
7E7E	02		
7E7F	08		
7E80	04		
7E81	12		
7E82	03		
7E83	1A		
7E84	03		
7E85	21		
7E86	03		
7E87	29		
7E88	02		
7E89	30		
7E8A	04		
7E8B	CB	=1 677	DB 0CBH,03AH,20,20,-1, 5,14, 2,22, 2,29, 2,37, 3,44, 2,51, 2,59, 2
7E8C	3A		
7E8D	14		
7E8E	14		
7E8F	FF		
7E90	05		
7E91	0E		
7E92	02		
7E93	16		
7E94	02		
7E95	1D		
7E96	02		
7E97	25		
7E98	03		
7E99	2C		
7E9A	02		
7E9B	33		
7E9C	02		
7E9D	3B		
7E9E	02		
7E9F	EB	=1 678	DB 0EBH,03AH, 9,20, 2, 2,10, 1, 9, 1,17, 1,25, 1,24, 1,32, 2
7EA0	3A		
7EA1	09		
7EA2	14		
7EA3	02		
7EA4	02		
7EA5	0A		
7EA6	01		

LOC	OBJ	LINE	SOURCE
7EA7	09		
7EA8	01		
7EA9	11		
7EAA	01		
7EAB	19		
7EAC	01		
7EAD	18		
7EAE	01		
7EAF	20		
7EB0	02		
7EB1	EA	=1 679	DB 0EAH,03AH, 5,18,-1, 3,62, 2
7EB2	3A		
7EB3	05		
7EB4	12		
7EB5	FF		
7EB6	03		
7EB7	3E		
7EB8	02		
7EB9	0A	=1 680	DB 00AH,03BH,11, 8, 6, 1,13, 2,20, 1,28, 2,35, 1,43, 1,50, 2,57, 1
7EBA	3B		
7EBB	08		
7EBC	08		
7EBD	06		
7EBE	01		
7EBF	0D		
7EC0	02		
7EC1	14		
7EC2	01		
7EC3	1C		
7EC4	02		
7EC5	23		
7EC6	01		
7EC7	2B		
7EC8	01		
7EC9	32		
7ECA	02		
7ECB	39		
7ECC	01		
7ECD	2A	=1 681	DB 02AH,03BH, 4,20, 1, 1, 9, 1,16, 1,24, 1
7ECE	3B		
7ECF	04		
7ED0	14		
7ED1	01		
7ED2	01		
7ED3	09		
7ED4	01		
7ED5	10		
7ED6	01		
7ED7	18		
7ED8	01		
7ED9	29	=1 682	DB 029H,03BH, 5,12,-1, 2,46, 1,54, 1,61, 1
7EDA	3B		
7EDB	05		
7EDC	0C		
7EDD	FF		

LOC	OBJ	LINE	SOURCE
7EDE	02		
7EDF	2E		
7EE0	01		
7EE1	36		
7EE2	01		
7EE3	30		
7EE4	01		
7EE5	49	=1 683	DB 049H,03BH, 8,12, 4, 1,12, 1,19, 1,27, 1,34, 1,41, 1,49, 1,56, 1
7EE6	3B		
7EE7	08		
7EE8	0C		
7EE9	04		
7EEA	01		
7EEB	0C		
7EEC	01		
7EED	13		
7EEE	01		
7EEF	1B		
7EF0	01		
7EF1	22		
7EF2	01		
7EF3	29		
7EF4	01		
7EF5	31		
7EF6	01		
7EF7	38		
7EF8	01		
7EF9	68	=1 684	DB 068H,03BH, 6,20,-1, 2,30, 1,37, 1,45, 1,60, 1
7EFA	3B		
7EFB	06		
7EFC	14		
7EFD	FF		
7EFE	02		
7EFF	1E		
7F00	01		
7F01	25		
7F02	01		
7F03	2D		
7F04	01		
7F05	3C		
7F06	01		
7F07	88	=1 685	DB 088H,03BH, 5,14, 3, 1,10, 1,26, 1,33, 1,48, 1
7F08	3B		
7F09	05		
7F0A	0E		
7F0B	03		
7F0C	01		
7F0D	0A		
7F0E	01		
7F0F	1A		
7F10	01		
7F11	21		
7F12	01		
7F13	30		
7F14	01		

LOC	OBJ	LINE	SOURCE
7F15	87	=1 686	DB 087H,03BH, 1,14,-1, 1
7F16	3B		
7F17	01		
7F18	0E		
7F19	FF		
7F1A	01		
7F1B	A7	=1 687	DB 0A7H,03BH, 4, 6,14, 1,29, 1,36, 1,51, 1
7F1C	3B		
7F1D	04		
7F1E	06		
7F1F	0E		
7F20	01		
7F21	1D		
7F22	01		
7F23	24		
7F24	01		
7F25	33		
7F26	01		
		=1 688	
		=1 689	
		=1 690 ; STAR PATH # 18	
		=1 691	
7F27		=1 692 STAR_PATH18	LABEL BYTE
		=1 693	
7F27	4C	=1 694	DB 04CH,039H,40,12,54, 5,46, 4,45, 3,37, 6,28, 7,19, 5,11, 5, 2, 5
7F28	39		
7F29	28		
7F2A	0C		
7F2B	36		
7F2C	05		
7F2D	2E		
7F2E	04		
7F2F	2D		
7F30	03		
7F31	25		
7F32	06		
7F33	1C		
7F34	07		
7F35	13		
7F36	05		
7F37	08		
7F38	05		
7F39	02		
7F3A	05		
7F3B	2C	=1 695	DB 02CH,039H,11,20,57, 5,48, 4,40, 2
7F3C	39		
7F3D	08		
7F3E	14		
7F3F	39		
7F40	05		
7F41	30		
7F42	04		
7F43	28		
7F44	02		
7F45	2B	=1 696	DB 02BH,039H,22,10,-1, 6,38, 1,30, 4,21, 4,13, 1,12, 2, 4, 3, 3, 1

LOC	OBJ	LINE	SOURCE
7F46	39		
7F47	16		
7F48	0A		
7F49	FF		
7F4A	06		
7F4B	26		
7F4C	01		
7F4D	1E		
7F4E	04		
7F4F	15		
7F50	04		
7F51	0D		
7F52	01		
7F53	0C		
7F54	02		
7F55	04		
7F56	03		
7F57	03		
7F58	01		
7F59	0B	=1 697	DB 00BH,039H,15,20,59, 3,50, 3,42, 2,41, 1,33, 3,24, 3
7F5A	39		
7F5B	0F		
7F5C	14		
7F5D	3B		
7F5E	03		
7F5F	32		
7F60	03		
7F61	2A		
7F62	02		
7F63	29		
7F64	01		
7F65	21		
7F66	03		
7F67	18		
7F68	03		
7F69	0A	=1 698	DB 00AH,039H, 8,16,-1, 4,14, 2, 6, 1, 5, 1
7F6A	39		
7F6B	08		
7F6C	10		
7F6D	FF		
7F6E	04		
7F6F	0E		
7F70	02		
7F71	06		
7F72	01		
7F73	05		
7F74	01		
7F75	EA	=1 699	DB 0EAH,038H,17,12,61, 3,52, 2,44, 2,35, 2,26, 3,17, 2, 8, 2, 0, 1
7F76	38		
7F77	11		
7F78	0C		
7F79	3D		
7F7A	03		
7F7B	34		
7F7C	02		

LOC	OBJ	LINE	SOURCE
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7F7D	2C		
7F7E	02		
7F7F	23		
7F80	02		
7F81	1A		
7F82	03		
7F83	11		
7F84	02		
7F85	08		
7F86	02		
7F87	00		
7F88	01		
7F89	C9	=1 700	DB 0C9H,038H,14,20,-1, 3,54, 1,46, 1,45, 1,37, 1,36, 1,28, 2,19, 1
7F8A	38		
7F8B	0E		
7F8C	14		
7F8D	FF		
7F8E	03		
7F8F	36		
7F90	01		
7F91	2E		
7F92	01		
7F93	2D		
7F94	01		
7F95	25		
7F96	01		
7F97	24		
7F98	01		
7F99	1C		
7F9A	02		
7F9B	13		
7F9C	01		
7F9D	08	=1 701	DB 11, 1,10, 1, 2, 1
7F9E	01		
7F9F	0A		
7FA0	01		
7FA1	02		
7FA2	01		
7FA3	A9	=1 702	DB 0A9H,038H, 4,26,57, 2,48, 1,40, 1
7FA4	38		
7FA5	04		
7FA6	1A		
7FA7	39		
7FA8	02		
7FA9	30		
7FAA	01		
7FAB	28		
7FAC	01		
7FAD	A8	=1 703	DB 0A8H,038H, 7,10,-1, 2,30, 1,21, 2,12, 1, 4, 1
7FAE	38		
7FAF	07		
7FB0	0A		
7FB1	FF		
7FB2	02		
7FB3	1E		

LOC	OBJ	LINE	SOURCE
7FB4	01		
7FB5	15		
7FB6	02		
7FB7	0C		
7FB8	01		
7FB9	04		
7FBA	01		
7FBB	88	=1 704	DB 088H,038H, 6,14,59, 1,50, 2,41, 1,32, 1,24, 1
7FBC	38		
7FBD	06		
7FBE	0E		
7FBF	3B		
7FC0	01		
7FC1	32		
7FC2	02		
7FC3	29		
7FC4	01		
7FC5	20		
7FC6	01		
7FC7	18		
7FC8	01		
7FC9	87	=1 705	DB 087H,038H, 3,14,-1, 1,14, 1, 6, 1
7FCA	38		
7FCB	03		
7FCC	0E		
7FCD	FF		
7FCE	01		
7FCF	0E		
7FD0	01		
7FD1	06		
7FD2	01		
7FD3	67	=1 706	DB 067H,038H, 7,10,61, 1,52, 1,43, 1,35, 1,26, 1,17, 1, 8, 1
7FD4	38		
7FD5	07		
7FD6	0A		
7FD7	3D		
7FD8	01		
7FD9	34		
7FDA	01		
7FDB	28		
7FDC	01		
7FDD	23		
7FDE	01		
7FDF	1A		
7FE0	01		
7FE1	11		
7FE2	01		
7FE3	08		
7FE4	01		
7FE5	66	=1 707	DB 066H,038H, 1,18,-1, 1
7FE6	38		
7FE7	01		
7FE8	12		
7FE9	FF		
7FEA	01		

LOC OBJ

LINE

SOURCE

7FEB 46 =1 708 DB 046H,038H, 6, 6,54, 1,45, 1,37, 1,28, 1,11, 1, 2, 1
7FEC 38
7FED 06
7FEE 06
7FEF 36
7FF0 01
7FF1 2D
7FF2 01
7FF3 25
7FF4 01
7FF5 1C
7FF6 01
7FF7 0B
7FF8 01
7FF9 02
7FFA 01
7FFB 26 =1 709 DB 026H,038H, 1,16,57, 1
7FFC 38
7FFD 01
7FFE 10
7FFF 39
8000 01
8001 25 =1 710 DB 025H,038H, 4, 6,-1, 1,38, 1,21, 1,12, 1
8002 38
8003 04
8004 06
8005 FF
8006 01
8007 26
8008 01
8009 15
800A 01
800B 0C
800C 01
800D 05 =1 711 DB 005H,038H, 3,12,59, 1,50, 1,32, 1
800E 38
800F 03
8010 0C
8011 3B
8012 01
8013 32
8014 01
8015 20
8016 01
8017 04 =1 712 DB 004H,038H, 2,10,-1, 1, 6, 1
8018 38
8019 02
801A 0A
801B FF
801C 01
801D 06
801E 01
=1 713
=1 714
=1 715 ; STAR PATH # 19

LOC	OBJ	LINE	SOURCE
		=1 716	
801F		=1 717	STAR_PATH19 LABEL BYTE
		=1 718	
801F B5		=1 719	DB 0B5H,039H,41, 8,40, 6,33, 6,34, 5,35, 5,36, 4,28, 1,29, 5,30, 5
8020 39			
8021 29			
8022 08			
8023 28			
8024 06			
8025 21			
8026 06			
8027 22			
8028 05			
8029 23			
802A 05			
802B 24			
802C 04			
802D 1C			
802E 01			
802F 1D			
8030 05			
8031 1E			
8032 05			
8033 FF		=1 720	DB -1, 4
8034 04			
8035 B6		=1 721	DB 0B6H,039H,30,22,24, 3,16, 2,17, 4,18, 4,19, 3,20, 1,12, 3,13, 4
8036 39			
8037 1E			
8038 16			
8039 18			
803A 03			
803B 10			
803C 02			
803D 11			
803E 04			
803F 12			
8040 04			
8041 13			
8042 03			
8043 14			
8044 01			
8045 0C			
8046 03			
8047 0D			
8048 04			
8049 0E		=1 722	DB 14, 3,-1, 3
804A 03			
804B FF			
804C 03			
804D B7		=1 723	DB 0B7H,039H,11,24, 0, 3, 1, 3, 2, 3, 3, 2
804E 39			
804F 0B			
8050 18			
8051 00			
8052 03			

LOC	OBJ	LINE	SOURCE
8053	01		
8054	03		
8055	02		
8056	03		
8057	03		
8058	02		
8059	97	=1 724	DB 097H,039H,12,12,59, 1,60, 3,61, 3,62, 2,-1, 3
805A	39		
805B	0C		
805C	0C		
805D	3B		
805E	01		
805F	3C		
8060	03		
8061	3D		
8062	03		
8063	3E		
8064	02		
8065	FF		
8066	03		
8067	98	=1 725	DB 098H,039H,17,14,48, 2,49, 2,50, 3,43, 2,44, 2,45, 2,46, 2,-1, 2
8068	39		
8069	11		
806A	0E		
806B	30		
806C	02		
806D	31		
806E	02		
806F	32		
8070	03		
8071	2B		
8072	02		
8073	2C		
8074	02		
8075	2D		
8076	02		
8077	2E		
8078	02		
8079	FF		
807A	02		
807B	99	=1 726	DB 099H,039H,14,20,32, 2,33, 2,34, 1,26, 1,27, 1,28, 2,29, 2,22, 1
807C	39		
807D	0E		
807E	14		
807F	20		
8080	02		
8081	21		
8082	02		
8083	22		
8084	01		
8085	1A		
8086	01		
8087	1B		
8088	01		
8089	1C		

LOC	OBJ	LINE	SOURCE
808A	02		
808B	1D		
808C	02		
808D	16		
808E	01		
808F	FF	=1 727	DB -1, 2
8090	02		
8091	9A	=1 728	DB 09AH,039H,11,22,16, 2,17, 1,10, 2,11, 1,12, 1,13, 2, 6, 1,-1, 1
8092	39		
8093	08		
8094	16		
8095	10		
8096	02		
8097	11		
8098	01		
8099	0A		
809A	02		
809B	08		
809C	01		
809D	0C		
809E	01		
809F	0D		
80A0	02		
80A1	06		
80A2	01		
80A3	FF		
80A4	01		
80A5	9B	=1 729	DB 09BH,039H, 2,20, 0, 2
80A6	39		
80A7	02		
80A8	14		
80A9	00		
80AA	02		
80AB	7B	=1 730	DB 07BH,039H, B, 6,57, 1,58, 1,59, 1,60, 2,53, 1,54, 1,-1, 1
80AC	39		
80AD	08		
80AE	06		
80AF	39		
80B0	01		
80B1	3A		
80B2	01		
80B3	3B		
80B4	01		
80B5	3C		
80B6	02		
80B7	35		
80B8	01		
80B9	36		
80BA	01		
80BB	FF		
80BC	01		
80BD	7C	=1 731	DB 07CH,039H, 8,18,48, 1,41, 1,42, 1,43, 1,44, 1,37, 1,38, 1,-1, 1
80BE	39		
80BF	08		
80C0	12		

LOC	OBJ	LINE	SOURCE
80C1	30		
80C2	01		
80C3	29		
80C4	01		
80C5	2A		
80C6	01		
80C7	2B		
80C8	01		
80C9	2C		
80CA	01		
80CB	25		
80CC	01		
80CD	26		
80CE	01		
80CF	FF		
80D0	01		
80D1	7D	=1 732	DB 07DH,039H, 7,20,24, 1,25, 1,26, 1,27, 1,21, 1,22, 1,-1, 1
80D2	39		
80D3	07		
80D4	14		
80D5	18		
80D6	01		
80D7	19		
80D8	01		
80D9	1A		
80DA	01		
80DB	1B		
80DC	01		
80DD	15		
80DE	01		
80DF	16		
80E0	01		
80E1	FF		
80E2	01		
		=1 733	
		=1 734	
		=1 735 ;	STAR PATH # 20
		=1 736	
80E3		=1 737	STAR_PATH20 LABEL BYTE
		=1 738	
80E3	8F	=1 739	DB 08FH,03AH,25,18,25, 4,33, 6,41, 5,49, 5,57, 5
80E4	3A		
80E5	19		
80E6	12		
80E7	19		
80E8	04		
80E9	21		
80EA	06		
80EB	29		
80EC	05		
80ED	31		
80EE	05		
80EF	39		
80F0	05		
80F1	AF	=1 740	DB 0AFH,03AH,32,14, 1, 4, 9, 4, 8, 1,16, 4,24, 4,32, 4,40, 4,48, 4

LOC	OBJ	LINE	SOURCE
80F2	3A		
80F3	20		
80F4	0E		
80F5	01		
80F6	04		
80F7	09		
80F8	04		
80F9	08		
80FA	01		
80FB	10		
80FC	04		
80FD	18		
80FE	04		
80FF	20		
8100	04		
8101	28		
8102	04		
8103	30		
8104	04		
8105	38	=1 741	DB 56, 3
8106	03		
8107	CF	=1 742	DB 0CFH,03AH, 3,22, 0, 3
8108	3A		
8109	03		
810A	16		
810B	00		
810C	03		
810D	CE	=1 743	DB 0CEH,03AH,21, 6,-1,21
810E	3A		
810F	15		
8110	06		
8111	FF		
8112	15		
8113	EE	=1 744	DB 0EEH,03AH,19, 6, 6, 3,14, 2,22, 3,30, 2,38, 3,46, 2,54, 2,61, 2
8114	3A		
8115	13		
8116	06		
8117	06		
8118	03		
8119	0E		
811A	02		
811B	16		
811C	03		
811D	1E		
811E	02		
811F	26		
8120	03		
8121	2E		
8122	02		
8123	36		
8124	02		
8125	3D		
8126	02		
8127	0E	=1 745	DB 00EH,03BH,15,20, 5, 2,13, 2,21, 2,29, 2,37, 2,45, 2,52, 1,60, 2
8128	38		

LOC	OBJ	LINE	SOURCE
8129	0F		
812A	14		
812B	05		
812C	02		
812D	0D		
812E	02		
812F	15		
8130	02		
8131	1D		
8132	02		
8133	25		
8134	02		
8135	2D		
8136	02		
8137	34		
8138	01		
8139	3C		
813A	02		
813B	2E	=1 746	DB 02EH,03BH,12,20, 4, 2,12, 1,20, 2,28, 2,36, 1,44, 1,43, 1,51, 1
813C	3B		
813D	0C		
813E	14		
813F	04		
8140	02		
8141	0C		
8142	01		
8143	14		
8144	02		
8145	1C		
8146	02		
8147	24		
8148	01		
8149	2C		
814A	01		
814B	2B		
814C	01		
814D	33		
814E	01		
814F	3B	=1 747	DB 59, 1
8150	01		
8151	4E	=1 748	DB 04EH,03BH,11,22, 3, 2,11, 1,19, 1,27, 2,34, 1,42, 1,50, 1,58, 2
8152	3B		
8153	08		
8154	16		
8155	03		
8156	02		
8157	0B		
8158	01		
8159	13		
815A	01		
815B	1B		
815C	02		
815D	22		
815E	01		
815F	2A		

LOC	OBJ	LINE	SOURCE
8160	01		
8161	32		
8162	01		
8163	3A		
8164	02		
8165	6E	=1 749	DB 06EH,03BH, 8,20, 2, 1,10, 1,18, 1,26, 1,33, 1,41, 1,49, 1,57, 1
8166	3B		
8167	08		
8168	14		
8169	02		
816A	01		
816B	0A		
816C	01		
816D	12		
816E	01		
816F	1A		
8170	01		
8171	21		
8172	01		
8173	29		
8174	01		
8175	31		
8176	01		
8177	39		
8178	01		
8179	8E	=1 750	DB 08EH,03BH, 8,20, 1, 1, 9, 1,17, 1,24, 1,32, 1,40, 1,48, 1,56, 1
817A	3B		
817B	08		
817C	14		
817D	01		
817E	01		
817F	09		
8180	01		
8181	11		
8182	01		
8183	18		
8184	01		
8185	20		
8186	01		
8187	28		
8188	01		
8189	30		
818A	01		
818B	38		
818C	01		
		=1 751	
		=1 752	
		=1 753 ;	STAR PATH # 21
		=1 754	
818D		=1 755	STAR_PATH21 LABEL BYTE
		=1 756	
818D	6A	=1 757	DB 06AH,039H,32,20,62, 3,61, 5,60, 2,52, 3,51, 5,50, 1,42, 4,41, 4
818E	39		
818F	20		
8190	14		

LOC	OBJ	LINE	SOURCE
8191	3E		
8192	03		
8193	3D		
8194	05		
8195	3C		
8196	02		
8197	34		
8198	03		
8199	33		
819A	05		
819B	32		
819C	01		
819D	2A		
819E	04		
819F	29		
81A0	04		
81A1	21	=1 758	DB 33, 1, 32, 4
81A2	01		
81A3	20		
81A4	04		
81A5	69	=1 759	DB 069H, 039H, 28, 24, -1, 5, 30, 4, 21, 3, 20, 4, 11, 4, 10, 2, 2, 1, 1, 4
81A6	39		
81A7	1C		
81A8	18		
81A9	FF		
81AA	05		
81AB	1E		
81AC	04		
81AD	15		
81AE	03		
81AF	14		
81B0	04		
81B1	0B		
81B2	04		
81B3	0A		
81B4	02		
81B5	02		
81B6	01		
81B7	01		
81B8	04		
81B9	00	=1 760	DB 0, 1
81BA	01		
81BB	49	=1 761	DB 049H, 039H, 2, 22, 56, 2
81BC	39		
81BD	02		
81BE	16		
81BF	38		
81C0	02		
81C1	48	=1 762	DB 048H, 039H, 22, 6, -1, 3, 54, 3, 53, 3, 44, 3, 43, 1, 35, 1, 34, 3, 33, 1
81C2	39		
81C3	16		
81C4	06		
81C5	FF		
81C6	03		
81C7	36		

LOC	OBJ	LINE	SOURCE
81C8	03		
81C9	35		
81CA	03		
81CB	2C		
81CC	03		
81CD	2B		
81CE	01		
81CF	23		
81D0	01		
81D1	22		
81D2	03		
81D3	21		
81D4	01		
81D5	19	=1 763	DB 25, 2, 24, 2
81D6	02		
81D7	18		
81D8	02		
81D9	47	=1 764	DB 047H, 039H, 12, 24, -1, 2, 22, 2, 14, 1, 13, 2, 12, 1, 4, 1, 3, 2, 2, 1
81DA	39		
81DB	0C		
81DC	18		
81DD	FF		
81DE	02		
81DF	16		
81E0	02		
81E1	0E		
81E2	01		
81E3	0D		
81E4	02		
81E5	0C		
81E6	01		
81E7	04		
81E8	01		
81E9	03		
81EA	02		
81EB	02		
81EC	01		
81ED	27	=1 765	DB 027H, 039H, 5, 20, 58, 1, 57, 2, 48, 2
81EE	39		
81EF	05		
81F0	14		
81F1	3A		
81F2	01		
81F3	39		
81F4	02		
81F5	30		
81F6	02		
81F7	26	=1 766	DB 026H, 039H, 14, 10, -1, 2, 46, 2, 45, 1, 37, 1, 36, 2, 27, 1, 26, 2, 17, 2
81F8	39		
81F9	0E		
81FA	0A		
81FB	FF		
81FC	02		
81FD	2E		
81FE	02		

LOC	OBJ	LINE	SOURCE
81FF	2D		
8200	01		
8201	25		
8202	01		
8203	24		
8204	02		
8205	1B		
8206	01		
8207	1A		
8208	02		
8209	11		
820A	02		
820B	10	=1 767	DB 16, 1
820C	01		
820D	25	=1 768	DB 025H,039H, 5,22,-1, 2, 6, 1, 5, 2
820E	39		
820F	05		
8210	16		
8211	FF		
8212	02		
8213	06		
8214	01		
8215	05		
8216	02		
8217	05	=1 769	DB 005H,039H, 6,10,60, 1,59, 1,50, 2,49, 1,40, 1
8218	39		
8219	06		
821A	0A		
821B	3C		
821C	01		
821D	38		
821E	01		
821F	32		
8220	02		
8221	31		
8222	01		
8223	28		
8224	01		
8225	04	=1 770	DB 004H,039H,10,14,-1, 2,38, 1,29, 1,28, 1,19, 2,10, 1, 9, 1, 0, 1
8226	39		
8227	0A		
8228	0E		
8229	FF		
822A	02		
822B	26		
822C	01		
822D	1D		
822E	01		
822F	1C		
8230	01		
8231	13		
8232	02		
8233	0A		
8234	01		
8235	09		

LOC	OBJ	LINE	SOURCE
8236	01		
8237	00		
8238	01		
8239	03	=1 771	DB 003H,039H, 1,20,-1, 1
823A	39		
823B	01		
823C	14		
823D	FF		
823E	01		
823F	E3	=1 772	DB 0E3H,038H, 7, 6,62, 1,61, 1,52, 1,43, 1,42, 1,33, 1,32, 1
8240	38		
8241	07		
8242	06		
8243	3E		
8244	01		
8245	3D		
8246	01		
8247	34		
8248	01		
8249	28		
824A	01		
824B	2A		
824C	01		
824D	21		
824E	01		
824F	20		
8250	01		
8251	E2	=1 773	DB 0E2H,038H, 6,18,-1, 1,22, 1,21, 1,11, 1, 2, 1, 1, 1
8252	38		
8253	06		
8254	12		
8255	FF		
8256	01		
8257	16		
8258	01		
8259	15		
825A	01		
825B	08		
825C	01		
825D	02		
825E	01		
825F	01		
8260	01		
		=1 774	
		=1 775	
		=1 776 ;	STAR_PATH # 22
		=1 777	
8261		=1 778	STAR_PATH22 LABEL BYTE
		=1 779	
8261	74	=1 780	DB 074H,039H,10,16,30, 1,22, 3,-1, 6
8262	39		
8263	0A		
8264	10		
8265	1E		
8266	01		

LOC	OBJ	LINE	SOURCE
8267	16		
8268	03		
8269	FF		
826A	06		
826B	75	=1 781	DB 075H,039H,14,10, 8, 6, 9, 1, 1, 5, 2, 2
826C	39		
826D	0E		
826E	0A		
826F	08		
8270	06		
8271	09		
8272	01		
8273	01		
8274	05		
8275	02		
8276	02		
8277	55	=1 782	DB 055H,039H,26,12,58, 3,59, 4,51, 1,52, 5,53, 1,45, 4,46, 2,38, 2
8278	39		
8279	1A		
827A	0C		
827B	3A		
827C	03		
827D	3B		
827E	04		
827F	33		
8280	01		
8281	34		
8282	05		
8283	35		
8284	01		
8285	20		
8286	04		
8287	2E		
8288	02		
8289	26		
828A	02		
828B	FF	=1 783	DB -1, 4
828C	04		
828D	56	=1 784	DB 056H,039H,19,22,24, 4,25, 1,17, 3,18, 2,10, 2,11, 3, 3, 1, 4, 3
828E	39		
828F	13		
8290	16		
8291	18		
8292	04		
8293	19		
8294	01		
8295	11		
8296	03		
8297	12		
8298	02		
8299	0A		
829A	02		
829B	0B		
829C	03		
829D	03		

LOC	OBJ	LINE	SOURCE
829E	01		
829F	04		
82A0	03		
82A1	36	=1 785	DB 036H,039H,10,20,61, 4,62, 1,54, 2,-1, 3
82A2	39		
82A3	0A		
82A4	14		
82A5	3D		
82A6	04		
82A7	3E		
82A8	01		
82A9	36		
82AA	02		
82AB	FF		
82AC	03		
82AD	37	=1 786	DB 037H,039H,21,12,40, 3,33, 3,34, 1,26, 2,27, 2,20, 3,13, 3, 6, 2
82AE	39		
82AF	15		
82B0	0C		
82B1	28		
82B2	03		
82B3	21		
82B4	03		
82B5	22		
82B6	01		
82B7	1A		
82B8	02		
82B9	1B		
82BA	02		
82BB	14		
82BC	03		
82BD	0D		
82BE	03		
82BF	06		
82C0	02		
82C1	FF	=1 787	DB -1, 2
82C2	02		
82C3	18	=1 788	DB 018H,039H,17,22,56, 3,49, 2,50, 1,42, 1,43, 2,36, 2,29, 2,30, 1
82C4	39		
82C5	11		
82C6	16		
82C7	38		
82C8	03		
82C9	31		
82CA	02		
82CB	32		
82CC	01		
82CD	2A		
82CE	01		
82CF	2B		
82D0	02		
82D1	24		
82D2	02		
82D3	1D		
82D4	02		

LOC	OBJ	LINE	SOURCE
82D5	1E		
82D6	01		
82D7	16	=1 789	DB 22, 1,-1, 2
82D8	01		
82D9	FF		
82DA	02		
82DB	19	=1 790	DB 019H,039H, 4,24, 8, 2, 1, 2
82DC	39		
82DD	04		
82DE	18		
82DF	08		
82E0	02		
82E1	01		
82E2	02		
82E3	F9	=1 791	DB 0F9H,038H, 9, 8,58, 1,59, 1,51, 1,52, 2,45, 1,46, 1,38, 1,-1, 1
82E4	38		
82E5	09		
82E6	08		
82E7	3A		
82E8	01		
82E9	3B		
82EA	01		
82EB	33		
82EC	01		
82ED	34		
82EE	02		
82EF	2D		
82F0	01		
82F1	2E		
82F2	01		
82F3	26		
82F4	01		
82F5	FF		
82F6	01		
82F7	FA	=1 792	DB 0FAH,038H, 7,20,24, 2,17, 1,18, 1,10, 1,11, 1, 4, 1
82F8	38		
82F9	07		
82FA	14		
82FB	18		
82FC	02		
82FD	11		
82FE	01		
82FF	12		
8300	01		
8301	0A		
8302	01		
8303	0B		
8304	01		
8305	04		
8306	01		
8307	DA	=1 793	DB 0DAH,038H, 4,16,61, 2,54, 1,-1, 1
8308	38		
8309	04		
830A	10		
830B	3D		

LOC	OBJ	LINE	SOURCE
830C	02		
830D	36		
830E	01		
830F	FF		
8310	01		
8311	DB	=1 794	0DBH,03BH, 9,10,40, 1,32, 1,33, 1,26, 1,27, 1,20, 1,13, 1,14, 1
8312	38		
8313	09		
8314	0A		
8315	28		
8316	01		
8317	20		
8318	01		
8319	21		
831A	01		
831B	1A		
831C	01		
831D	1B		
831E	01		
831F	14		
8320	01		
8321	00		
8322	01		
8323	0E		
8324	01		
8325	FF	=1 795	DB -1, 1
8326	01		
8327	BC	=1 796	0BCH,03BH, 8,22,56, 1,49, 1,50, 1,43, 1,36, 1,29, 1,22, 1,-1, 1
8328	38		
8329	08		
832A	16		
832B	38		
832C	01		
832D	31		
832E	01		
832F	32		
8330	01		
8331	2B		
8332	01		
8333	24		
8334	01		
8335	1D		
8336	01		
8337	16		
8338	01		
8339	FF		
833A	01		
833B	BD	=1 797	0BDH,03BH, 2,20, 8, 1, 1, 1
833C	38		
833D	02		
833E	14		
833F	08		
8340	01		
8341	01		
8342	01		

LOC	OBJ	LINE	SOURCE
8343	9D	=1 798	DB 09DH,038H, 5, 8,58, 1,51, 1,45, 1,38, 1,-1, 1
8344	38		
8345	05		
8346	08		
8347	3A		
8348	01		
8349	33		
834A	01		
834B	2D		
834C	01		
834D	26		
834E	01		
834F	FF		
8350	01		
		=1 799	
		=1 800	
		=1 801 ;	STAR PATH # 23
		=1 802	
8351		=1 803	STAR_PATH23 LABEL BYTE
		=1 804	
8351	B1	=1 805	DB 0B1H,03AH,47,14, 5, 3,13, 5,21, 4,29, 5,37, 1,38, 3,46, 5,54, 4
8352	3A		
8353	2F		
8354	0E		
8355	05		
8356	03		
8357	0D		
8358	05		
8359	15		
835A	04		
835B	1D		
835C	05		
835D	25		
835E	01		
835F	26		
8360	03		
8361	2E		
8362	05		
8363	36		
8364	04		
8365	3E	=1 806	DB 62, 3,-1,14
8366	03		
8367	FF		
8368	0E		
8369	D2	=1 807	DB 0D2H,03AH,14,24,24, 1,32, 3,40, 4,48, 3,56, 1,57, 2
836A	3A		
836B	0E		
836C	18		
836D	18		
836E	01		
836F	20		
8370	03		
8371	28		
8372	04		
8373	30		

LOC	OBJ	LINE	SOURCE
8374	03		
8375	38		
8376	01		
8377	39		
8378	02		
8379	F2	=1 808	DB 0F2H,03AH,21,16, 1, 3, 9, 2,17, 3,25, 1,26, 2,34, 2,42, 3,50, 2
837A	3A		
837B	15		
837C	10		
837D	01		
837E	03		
837F	09		
8380	02		
8381	11		
8382	03		
8383	19		
8384	01		
8385	1A		
8386	02		
8387	22		
8388	02		
8389	2A		
838A	03		
838B	32		
838C	02		
838D	3B	=1 809	DB 59, 3
838E	03		
838F	12	=1 810	DB 012H,03BH,17,22, 3, 2,11, 2,19, 2,20, 1,28, 2,36, 2,44, 2,53, 2
8390	3B		
8391	11		
8392	16		
8393	03		
8394	02		
8395	08		
8396	02		
8397	13		
8398	02		
8399	14		
839A	01		
839B	1C		
839C	02		
839D	24		
839E	02		
839F	2C		
83A0	02		
83A1	35		
83A2	02		
83A3	3D	=1 811	DB 61, 2
83A4	02		
83A5	32	=1 812	DB 032H,03BH,16,22, 5, 2,13, 1,21, 1,22, 1,30, 2,38, 2,46, 1,-1, 6
83A6	3B		
83A7	10		
83A8	16		
83A9	05		
83AA	02		

LOC	OBJ	LINE	SOURCE
83AB	0D		
83AC	01		
83AD	15		
83AE	01		
83AF	16		
83B0	01		
83B1	1E		
83B2	02		
83B3	26		
83B4	02		
83B5	2E		
83B6	01		
83B7	FF		
83B8	06		
83B9	53	=1 813	DB 053H,03BH, 9,20, 8, 1,16, 1,24, 1,32, 2,41, 1,49, 2,57, 1
83BA	3B		
83BB	09		
83BC	14		
83BD	08		
83BE	01		
83BF	10		
83C0	01		
83C1	18		
83C2	01		
83C3	20		
83C4	02		
83C5	29		
83C6	01		
83C7	31		
83C8	02		
83C9	39		
83CA	01		
83CB	73	=1 814	DB 073H,03BH,10,18, 1, 1,10, 2,18, 1,26, 1,34, 1,43, 1,51, 2,59, 1
83CC	3B		
83CD	0A		
83CE	12		
83CF	01		
83D0	01		
83D1	0A		
83D2	02		
83D3	12		
83D4	01		
83D5	1A		
83D6	01		
83D7	22		
83D8	01		
83D9	2B		
83DA	01		
83DB	33		
83DC	02		
83DD	3B		
83DE	01		
83DF	93	=1 815	DB 093H,03BH, 8,20, 4, 1,12, 1,20, 1,28, 1,37, 1,45, 1,53, 1,61, 1
83E0	3B		
83E1	08		

LOC	OBJ	LINE	SOURCE
83E2	14		
83E3	04		
83E4	01		
83E5	0C		
83E6	01		
83E7	14		
83E8	01		
83E9	1C		
83EA	01		
83EB	25		
83EC	01		
83ED	20		
83EE	01		
83EF	35		
83F0	01		
83F1	3D		
83F2	01		
		=1 816	
		=1 817	
		=1 818 ; STAR PATH # 24	
		=1 819	
83F3		=1 820 STAR_PATH24	LABEL BYTE
		=1 821	
83F3	C9	=1 822	DB 0C9H,039H,18,20, 4, 1, 3, 4, 2, 5, 1, 4, 0, 4
83F4	39		
83F5	12		
83F6	14		
83F7	04		
83F8	01		
83F9	03		
83FA	04		
83FB	02		
83FC	05		
83FD	01		
83FE	04		
83FF	00		
8400	04		
8401	C8	=1 823	DB 0C9H,039H, 4,14,-1, 4
8402	39		
8403	04		
8404	0E		
8405	FF		
8406	04		
8407	A8	=1 824	DB 0ABH,039H,25, 6,62, 4,61, 4,60, 4,59, 3,58, 4,57, 3,56, 3
8408	39		
8409	19		
840A	06		
840B	3E		
840C	04		
840D	3D		
840E	04		
840F	3C		
8410	04		
8411	3B		
8412	03		

LOC	OBJ	LINE	SOURCE
8413	3A		
8414	04		
8415	39		
8416	03		
8417	38		
8418	03		
8419	A7	=1 825	DB 0A7H,039H,23,18,-1, 4,54, 3,53, 3,52, 2,51, 3,50, 3,49, 2,48, 1
841A	39		
841B	17		
841C	12		
841D	FF		
841E	04		
841F	36		
8420	03		
8421	35		
8422	03		
8423	34		
8424	02		
8425	33		
8426	03		
8427	32		
8428	03		
8429	31		
842A	02		
842B	30		
842C	01		
842D	28	=1 826	DB 40, 2
842E	02		
842F	A6	=1 827	DB 0A6H,039H,18,22,-1, 2,46, 3,45, 2,44, 2,43, 3,42, 2,33, 2,32, 2
8430	39		
8431	12		
8432	16		
8433	FF		
8434	02		
8435	2E		
8436	03		
8437	2D		
8438	02		
8439	2C		
843A	02		
843B	2B		
843C	03		
843D	2A		
843E	02		
843F	21		
8440	02		
8441	20		
8442	02		
8443	A5	=1 828	DB 0A5H,039H,15,20,-1, 2,38, 2,37, 2,36, 2,35, 2,26, 1,25, 2,24, 2
8444	39		
8445	0F		
8446	14		
8447	FF		
8448	02		
8449	26		

LOC	OBJ	LINE	SOURCE
844A	02		
844B	25		
844C	02		
844D	24		
844E	02		
844F	23		
8450	02		
8451	1A		
8452	01		
8453	19		
8454	02		
8455	18		
8456	02		
8457	A4	=1 829	DB 0A4H,039H,12,20,-1, 1,30, 2,29, 2,28, 1,27, 1,19, 1,18, 1,17, 2
8458	39		
8459	0C		
845A	14		
845B	FF		
845C	01		
845D	1E		
845E	02		
845F	1D		
8460	02		
8461	1C		
8462	01		
8463	1B		
8464	01		
8465	13		
8466	01		
8467	12		
8468	01		
8469	11		
846A	02		
846B	10	=1 830	DB 16, 1
846C	01		
846D	A3	=1 831	DB 0A3H,039H,11,22,-1, 2,22, 1,21, 1,20, 1,12, 1,11, 1,10, 1, 9, 1
846E	39		
846F	0B		
8470	16		
8471	FF		
8472	02		
8473	16		
8474	01		
8475	15		
8476	01		
8477	14		
8478	01		
8479	0C		
847A	01		
847B	0B		
847C	01		
847D	0A		
847E	01		
847F	09		
8480	01		

LOC	OBJ	LINE	SOURCE
8481	08	=1 832	DB 8, 2
8482	02		
8483	A2	=1 833	DB 0A2H,039H, 8,22,-1, 1,14, 1,13, 1, 4, 1, 3, 1, 2, 1, 1, 1, 0, 1
8484	39		
8485	08		
8486	16		
8487	FF		
8488	01		
8489	0E		
848A	01		
848B	0D		
848C	01		
848D	04		
848E	01		
848F	03		
8490	01		
8491	02		
8492	01		
8493	01		
8494	01		
8495	00		
8496	01		
		=1 834	
		=1 835	
		=1 836 ; STAR PATH # 25	
		=1 837	
8497		=1 838 STAR_PATH25	LABEL BYTE
		=1 839	
8497	13	=1 840	DB 013H,039H,33,20,59, 2,60, 3,52, 5,44, 1,45, 3,37, 5,30, 4,22, 3
8498	39		
8499	21		
849A	14		
849B	38		
849C	02		
849D	3C		
849E	03		
849F	34		
84A0	05		
84A1	2C		
84A2	01		
84A3	2D		
84A4	03		
84A5	25		
84A6	05		
84A7	1E		
84A8	04		
84A9	16		
84AA	03		
84AB	FF	=1 841	DB -1, 7
84AC	07		
84AD	14	=1 842	DB 014H,039H, 2,22, 0, 2
84AE	39		
84AF	02		
84B0	16		
84B1	00		

LOC	OBJ	LINE	SOURCE
84B2	02		
84B3	F4	=1 843	DB 0F4H,038H,26, 6,56, 4,49, 3,41, 3,42, 1,34, 3,26, 2,27, 1,19, 4
84B4	38		
84B5	1A		
84B6	06		
84B7	38		
84B8	04		
84B9	31		
84BA	03		
84BB	29		
84BC	03		
84BD	2A		
84BE	01		
84BF	22		
84C0	03		
84C1	1A		
84C2	02		
84C3	1B		
84C4	01		
84C5	13		
84C6	04		
84C7	0B	=1 844	DB 11, 1,12, 2, 4, 2
84C8	01		
84C9	0C		
84CA	02		
84CB	04		
84CC	02		
84CD	D4	=1 845	DB 0D4H,038H,15,26,60, 1,61, 2,53, 3,46, 3,38, 1,-1, 5
84CE	38		
84CF	0F		
84D0	1A		
84D1	3C		
84D2	01		
84D3	3D		
84D4	02		
84D5	35		
84D6	03		
84D7	2E		
84D8	03		
84D9	26		
84DA	01		
84DB	FF		
84DC	05		
84DD	D5	=1 846	DB 0D5H,038H, 6,16,16, 1, 8, 3, 1, 2
84DE	38		
84DF	06		
84E0	10		
84E1	10		
84E2	01		
84E3	08		
84E4	03		
84E5	01		
84E6	02		
84E7	B5	=1 847	DB 0B5H,038H,16,10,57, 2,50, 2,42, 2,43, 1,35, 2,28, 2,20, 2,13, 2
84E8	38		

LOC	OBJ	LINE	SOURCE
84E9	10		
84EA	0A		
84EB	39		
84EC	02		
84ED	32		
84EE	02		
84EF	2A		
84F0	02		
84F1	2B		
84F2	01		
84F3	23		
84F4	02		
84F5	1C		
84F6	02		
84F7	14		
84F8	02		
84F9	0D		
84FA	02		
84FB	05	=1 848	DB 5, 1
84FC	01		
84FD	95	=1 849	DB 095H,038H, 6,22,62, 2,54, 1,-1, 3
84FE	38		
84FF	06		
8500	16		
8501	3E		
8502	02		
8503	36		
8504	01		
8505	FF		
8506	03		
8507	96	=1 850	DB 096H,038H, 8,10,32, 2,24, 1,17, 2, 9, 1, 2, 2
8508	38		
8509	08		
850A	0A		
850B	20		
850C	02		
850D	18		
850E	01		
850F	11		
8510	02		
8511	09		
8512	01		
8513	02		
8514	02		
8515	76	=1 851	DB 076H,038H,12,14,59, 1,51, 2,44, 1,36, 2,29, 1,21, 1,22, 1,14, 1
8516	38		
8517	0C		
8518	0E		
8519	3B		
851A	01		
851B	33		
851C	02		
851D	2C		
851E	01		
851F	24		

LOC	OBJ	LINE	SOURCE
8520	02		
8521	1D		
8522	01		
8523	15		
8524	01		
8525	16		
8526	01		
8527	0E		
8528	01		
8529	FF	=1 852	DB -1, 2
852A	02		
852B	57	=1 853	DB 057H,038H, 9,22,48, 2,40, 1,33, 1,25, 1,18, 1,10, 1,11, 1, 3, 1
852C	38		
852D	09		
852E	16		
852F	30		
8530	02		
8531	28		
8532	01		
8533	21		
8534	01		
8535	19		
8536	01		
8537	12		
8538	01		
8539	0A		
853A	01		
853B	0B		
853C	01		
853D	03		
853E	01		
853F	37	=1 854	DB 037H,038H, 7,20,60, 1,53, 1,45, 1,38, 1,30, 1,-1, 2
8540	38		
8541	07		
8542	14		
8543	3C		
8544	01		
8545	35		
8546	01		
8547	2D		
8548	01		
8549	26		
854A	01		
854B	1E		
854C	01		
854D	FF		
854E	02		
854F	38	=1 855	DB 038H,038H, 1,16, 0, 1
8550	38		
8551	01		
8552	10		
8553	00		
8554	01		
8555	18	=1 856	DB 018H,038H, 7, 6,57, 1,49, 1,42, 1,27, 1,19, 1,12, 1, 5, 1
8556	38		

LOC	OBJ	LINE	SOURCE
8557	07		
8558	06		
8559	39		
855A	01		
855B	31		
855C	01		
855D	2A		
855E	01		
855F	1B		
8560	01		
8561	13		
8562	01		
8563	0C		
8564	01		
8565	05		
8566	01		
		=1 857	
		=1 858	
		=1 859 ; STAR PATH # 26	
		=1 860	
8567		=1 861 STAR_PATH26	LABEL BYTE
		=1 862	
8567	94	=1 863	DB 094H,03AH,14,18,42, 4,50, 2,51, 3,59, 4,60, 1
8568	3A		
8569	0E		
856A	12		
856B	2A		
856C	04		
856D	32		
856E	02		
856F	33		
8570	03		
8571	3B		
8572	04		
8573	3C		
8574	01		
8575	B4	=1 864	DB 0B4H,03AH,23,14, 4, 5,13, 4,21, 2,22, 3,30, 3,-1, 6
8576	3A		
8577	17		
8578	0E		•
8579	04		
857A	05		
857B	0D		
857C	04		
857D	15		
857E	02		
857F	16		
8580	03		
8581	1E		
8582	03		
8583	FF		
8584	06		
8585	B5	=1 865	DB 0B5H,03AH,11,16,40, 3,48, 2,49, 2,57, 3,58, 1
8586	3A		
8587	0B		

LOC	OBJ	LINE	SOURCE
8588	10		
8589	28		
858A	03		
858B	30		
858C	02		
858D	31		
858E	02		
858F	39		
8590	03		
8591	3A		
8592	01		
8593	05	=1 866	DB 005H,03AH,24,14, 2, 3,11, 4,19, 1,20, 2,28, 2,29, 1,37, 3,46, 3
8594	3A		
8595	18		
8596	0E		
8597	02		
8598	03		
8599	08		
859A	04		
859B	13		
859C	01		
859D	14		
859E	02		
859F	1C		
85A0	02		
85A1	1D		
85A2	01		
85A3	25		
85A4	03		
85A5	2E		
85A6	03		
85A7	36	=1 867	DB 54, 1,-1, 4
85A8	01		
85A9	FF		
85AA	04		
85AB	06	=1 868	DB 0D6H,03AH, 1,24,56, 1
85AC	3A		
85AD	01		
85AE	18		
85AF	38		
85B0	01		
85B1	F6	=1 869	DB 0F6H,03AH,20, 6, 0, 3, 9, 2,17, 1,18, 2,26, 2,27, 1,35, 2,44, 2
85B2	3A		
85B3	14		
85B4	06		
85B5	00		
85B6	03		
85B7	09		
85B8	02		
85B9	11		
85BA	01		
85BB	12		
85BC	02		
85BD	1A		
85BE	02		

LOC OBJ

LINE

SOURCE

85BF 1B
85C0 01
85C1 23
85C2 02
85C3 2C
85C4 02
85C5 34 =1 870 DB 52, 1,53, 2,61, 1,62, 1
85C6 01
85C7 35
85C8 02
85C9 3D
85CA 01
85CB 3E
85CC 01
85CD 16 =1 871 DB 016H,03BH, 5,28, 6, 2,-1, 3
85CE 3B
85CF 05
85D0 1C
85D1 06
85D2 02
85D3 FF
85D4 03
85D5 17 =1 872 DB 017H,03BH,11, 8,16, 1,24, 1,25, 1,33, 2,42, 2,51, 2,59, 1,60, 1
85D6 3B
85D7 0B
85D8 08
85D9 10
85DA 01
85DB 1B
85DC 01
85DD 19
85DE 01
85DF 21
85E0 02
85E1 2A
85E2 02
85E3 33
85E4 02
85E5 3B
85E6 01
85E7 3C
85E8 01
85E9 37 =1 873 DB 037H,03BH, 8,20, 4, 1,13, 2,22, 2,30, 1,-1, 2
85EA 3B
85EB 08
85EC 14
85ED 04
85EE 01
85EF 00
85F0 02
85F1 16
85F2 02
85F3 1E
85F4 01
85F5 FF

LOC	OBJ	LINE	SOURCE
85F6	02		
85F7	38	=1 874	DB 03BH,03BH, 4,14,40, 1,48, 1,49, 1,57, 1
85F8	38		
85F9	04		
85FA	0E		
85FB	28		
85FC	01		
85FD	30		
85FE	01		
85FF	31		
8600	01		
8601	39		
8602	01		
8603	58	=1 875	DB 058H,03BH,11,12, 2, 2,11, 1,19, 1,20, 1,29, 1,37, 1,46, 2,-1, 2
8604	3B		
8605	0B		
8606	0C		
8607	02		
8608	02		
8609	0B		
860A	01		
860B	13		
860C	01		
860D	14		
860E	01		
860F	1D		
8610	01		
8611	25		
8612	01		
8613	2E		
8614	02		
8615	FF		
8616	02		
8617	79	=1 876	DB 079H,03BH, 9,20, 0, 1, 9, 2,18, 1,27, 1,35, 1,44, 1,53, 1,61, 1
8618	38		
8619	09		
861A	14		
861B	00		
861C	01		
861D	09		
861E	02		
861F	12		
8620	01		
8621	1B		
8622	01		
8623	23		
8624	01		
8625	2C		
8626	01		
8627	35		
8628	01		
8629	3D		
862A	01		
862B	99	=1 877	DB 099H,03BH, 3,20, 6, 1,-1, 2
862C	3B		

LOC	OBJ	LINE	SOURCE
862D	03		
862E	14		
862F	06		
8630	01		
8631	FF		
8632	02		
8633	9A	=1 878	DB 09AH,03BH, 5, 8,24, 1,33, 1,42, 1,51, 1,59, 1
8634	3B		
8635	05		
8636	08		
8637	18		
8638	01		
8639	21		
863A	01		
863B	2A		
863C	01		
863D	33		
863E	01		
863F	3B		
8640	01		
8641	BA	=1 879	DB 0BAH,03BH, 4,14, 4, 1,13, 1,22, 1,-1, 1
8642	3B		
8643	04		
8644	0E		
8645	04		
8646	01		
8647	0D		
8648	01		
8649	16		
864A	01		
864B	FF		
864C	01		
864D	BB	=1 880	DB 0BBH,03BH, 3,12,40, 1,49, 1,58, 1
864E	3B		
864F	03		
8650	0C		
8651	28		
8652	01		
8653	31		
8654	01		
8655	3A		
8656	01		
		=1 881	
		=1 882	
		=1 883 ;	STAR PATH # 27
		=1 884	
8657		=1 885	STAR_PATH27 LABEL BYTE
		=1 886	
8657	08	=1 887	DB 008H,03AH,12,10,62, 5,61, 4,60, 3
8658	3A		
8659	0C		
865A	0A		
865B	3E		
865C	05		
865D	3D		

LOC	OBJ	LINE	SOURCE
865E	04		
865F	3C		
8660	03		
8661	28	=1 888	DB 028H,03AH,16,10, 4, 1, 3, 4, 2, 3, 1, 4, 0, 2, 8, 2
8662	3A		
8663	10		
8664	0A		
8665	04		
8666	01		
8667	03		
8668	04		
8669	02		
866A	03		
866B	01		
866C	04		
866D	00		
866E	02		
866F	08		
8670	02		
8671	27	=1 889	DB 027H,03AH,24,16,-1, 3,14, 3,13, 4,20, 3,19, 3,18, 3,17, 2,25, 1
8672	3A		
8673	18		
8674	10		
8675	FF		
8676	03		
8677	0E		
8678	03		
8679	0D		
867A	04		
867B	14		
867C	03		
867D	13		
867E	03		
867F	12		
8680	03		
8681	11		
8682	02		
8683	19		
8684	01		
8685	18	=1 890	DB 24, 2
8686	02		
8687	26	=1 891	DB 026H,03AH,20,22,-1, 3,30, 3,29, 1,37, 1,36, 3,35, 2,34, 3,33, 1
8688	3A		
8689	14		
868A	16		
868B	FF		
868C	03		
868D	1E		
868E	03		
868F	1D		
8690	01		
8691	25		
8692	01		
8693	24		
8694	03		

LOC	OBJ	LINE	SOURCE
8695	23		
8696	02		
8697	22		
8698	03		
8699	21		
869A	01		
869B	29	=1 892	DB 41, 1,40, 2
869C	01		
869D	28		
869E	02		
869F	25	=1 893	DB 025H,03AH,16,24,-1, 2,46, 3,53, 2,52, 2,51, 2,50, 1,58, 1,57, 2
86A0	3A		
86A1	10		
86A2	18		
86A3	FF		
86A4	02		
86A5	2E		
86A6	03		
86A7	35		
86A8	02		
86A9	34		
86AA	02		
86AB	33		
86AC	02		
86AD	32		
86AE	01		
86AF	3A		
86B0	01		
86B1	39		
86B2	02		
86B3	38	=1 894	DB 56, 1
86B4	01		
86B5	24	=1 895	DB 024H,03AH, 3,22,-1, 2,62, 1
86B6	3A		
86B7	03		
86B8	16		
86B9	FF		
86BA	02		
86BB	3E		
86BC	01		
86BD	44	=1 896	DB 044H,03AH,11, 8, 6, 1, 5, 2, 4, 1, 3, 2, 2, 1,10, 1, 9, 1, 8, 2
86BE	3A		
86BF	0B		
86C0	0B		
86C1	06		
86C2	01		
86C3	05		
86C4	02		
86C5	04		
86C6	01		
86C7	03		
86C8	02		
86C9	02		
86CA	01		
86CB	0A		

LOC	OBJ	LINE	SOURCE
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86CC	01		
86CD	09		
86CE	01		
86CF	08		
86D0	02		
86D1	43	=1 897	DB 043H,03AH,11,20,-1, 1,14, 1,22, 1,21, 1,20, 2,19, 1,26, 2,25, 1
86D2	3A		
86D3	0B		
86D4	14		
86D5	FF		
86D6	01		
86D7	0E		
86D8	01		
86D9	16		
86DA	01		
86DB	15		
86DC	01		
86DD	14		
86DE	02		
86DF	13		
86E0	01		
86E1	1A		
86E2	02		
86E3	19		
86E4	01		
86E5	18	=1 898	DB 24, 1
86E6	01		
86E7	42	=1 899	DB 042H,03AH,10,22,-1, 2,38, 1,37, 1,36, 1,35, 1,43, 1,42, 1,41, 1
86E8	3A		
86E9	0A		
86EA	16		
86EB	FF		
86EC	02		
86ED	26		
86EE	01		
86EF	25		
86F0	01		
86F1	24		
86F2	01		
86F3	23		
86F4	01		
86F5	28		
86F6	01		
86F7	24		
86F8	01		
86F9	29		
86FA	01		
86FB	28	=1 900	DB 40, 1
86FC	01		
		=1 901	
		=1 902	
		=1 903 ;	STAR PATH # 28
		=1 904	
86FD		=1 905	STAR_PATH28 LABEL BYTE
		=1 906	

LOC	OBJ	LINE	SOURCE
86FD	F1	=1 907	DB 0F1H,038H,14,22,24, 2,16, 4, 8, 4, 0, 4
86FE	38		
86FF	0E		
8700	16		
8701	18		
8702	02		
8703	10		
8704	04		
8705	08		
8706	04		
8707	00		
8708	04		
8709	D1	=1 908	DB 0D1H,038H,26,12,57, 3,49, 4,41, 3,33, 4,25, 3,17, 3, 9, 3, 2, 3
870A	38		
870B	1A		
870C	0C		
870D	39		
870E	03		
870F	31		
8710	04		
8711	29		
8712	03		
8713	21		
8714	04		
8715	19		
8716	03		
8717	11		
8718	03		
8719	09		
871A	03		
871B	02		
871C	03		
871D	B1	=1 909	DB 0B1H,038H,21,20,58, 3,50, 3,42, 2,34, 3,26, 3,18, 2,10, 1,11, 2
871E	38		
871F	15		
8720	14		
8721	3A		
8722	03		
8723	32		
8724	03		
8725	2A		
8726	02		
8727	22		
8728	03		
8729	1A		
872A	03		
872B	12		
872C	02		
872D	0A		
872E	01		
872F	0B		
8730	02		
8731	03	=1 910	DB 3, 2
8732	02		
8733	91	=1 911	DB 091H,038H,17,22,59, 2,51, 3,43, 2,35, 2,27, 2,19, 1,20, 1,12, 2

LOC	OBJ	LINE	SOURCE
8734	38		
8735	11		
8736	16		
8737	38		
8738	02		
8739	33		
873A	03		
873B	28		
873C	02		
873D	23		
873E	02		
873F	18		
8740	02		
8741	13		
8742	01		
8743	14		
8744	01		
8745	0C		
8746	02		
8747	04	=1 912	DB 4, 2
8748	02		
8749	71	=1 913	DB 071H,038H,15,22,60, 2,52, 2,44, 2,36, 2,28, 1,21, 2,13, 2, 5, 2
874A	38		
874B	0F		
874C	16		
874D	3C		
874E	02		
874F	34		
8750	02		
8751	2C		
8752	02		
8753	24		
8754	02		
8755	1C		
8756	01		
8757	15		
8758	02		
8759	0D		
875A	02		
875B	05		
875C	02		
875D	51	=1 914	DB 051H,038H,12,20,61, 1,53, 2,45, 1,37, 1,38, 1,30, 1,22, 2,14, 1
875E	38		
875F	0C		
8760	14		
8761	3D		
8762	01		
8763	35		
8764	02		
8765	2D		
8766	01		
8767	25		
8768	01		
8769	26		
876A	01		

LOC	OBJ	LINE	SOURCE
876B	1E		
876C	01		
876D	16		
876E	02		
876F	0E		
8770	01		
8771	06	=1 915	DB 6, 2
8772	02		
8773	31	=1 916	DB 031H,038H,12,22,62, 1,54, 1,46, 1,-1, 9
8774	38		
8775	0C		
8776	16		
8777	3E		
8778	01		
8779	36		
877A	01		
877B	2E		
877C	01		
877D	FF		
877E	09		
877F	12	=1 917	DB 012H,038H, 7,12,40, 2,32, 1,24, 1,16, 1, 8, 1, 0, 1
8780	38		
8781	07		
8782	0C		
8783	28		
8784	02		
8785	20		
8786	01		
8787	18		
8788	01		
8789	10		
878A	01		
878B	08		
878C	01		
878D	00		
878E	01		
		=1 918	
		=1 919	
		=1 920 ;	STAR PATH # 29
		=1 921	
878F		=1 922	STAR_PATH29 LABEL BYTE
		=1 923	
878F	77	=1 924	DB 077H,03AH,31,16, 0, 5, 9, 4,10, 3,18, 1,19, 4,20, 2,28, 1,29, 4
8790	3A		
8791	1F		
8792	10		
8793	00		
8794	05		
8795	09		
8796	04		
8797	0A		
8798	03		
8799	12		
879A	01		
879B	13		

LOC	OBJ	LINE	SOURCE
879C	04		
879D	14		
879E	02		
879F	1C		
87A0	01		
87A1	1D		
87A2	04		
87A3	1E	=1 925	DB 30, 1,38, 2,-1, 4
87A4	01		
87A5	26		
87A6	02		
87A7	FF		
87A8	04		
87A9	78	=1 926	DB 078H,03AH,16,26,40, 3,41, 3,50, 4,51, 1,59, 2,60, 2,61, 1
87AA	3A		
87AB	10		
87AC	1A		
87AD	28		
87AE	03		
87AF	29		
87B0	03		
87B1	32		
87B2	04		
87B3	33		
87B4	01		
87B5	3B		
87B6	02		
87B7	3C		
87B8	02		
87B9	3D		
87BA	01		
87BB	98	=1 927	DB 098H,03AH, 8,18, 5, 2, 6, 3,-1, 3
87BC	3A		
87BD	08		
87BE	12		
87BF	05		
87C0	02		
87C1	06		
87C2	03		
87C3	FF		
87C4	03		
87C5	99	=1 928	DB 099H,03AH,19,10, 8, 2,17, 3,18, 1,26, 1,27, 3,36, 2,37, 2,46, 3
87C6	3A		
87C7	13		
87C8	0A		
87C9	08		
87CA	02		
87CB	11		
87CC	03		
87CD	12		
87CE	01		
87CF	1A		
87D0	01		
87D1	1B		
87D2	03		

LOC	OBJ	LINE	SOURCE
87D3	24		
87D4	02		
87D5	25		
87D6	02		
87D7	2E		
87D8	03		
87D9	FF	=1 929	DB -1, 2
87DA	02		
87DB	9A	=1 930	DB 09AH,03AH, 6,22,48, 2,49, 1,57, 1,58, 2
87DC	3A		
87DD	06		
87DE	16		
87DF	30		
87E0	02		
87E1	31		
87E2	01		
87E3	39		
87E4	01		
87E5	3A		
87E6	02		
87E7	8A	=1 931	DB 0BAH,03AH, 9,12, 3, 2, 4, 2,13, 2,14, 1,22, 1,-1, 1
87E8	3A		
87E9	09		
87EA	0C		
87EB	03		
87EC	02		
87ED	04		
87EE	02		
87EF	0D		
87F0	02		
87F1	0E		
87F2	01		
87F3	16		
87F4	01		
87F5	FF		
87F6	01		
87F7	BB	=1 932	DBB,03AH,13,16,16, 1,24, 1,25, 2,34, 2,35, 1,44, 2,45, 1,54, 2
87F8	3A		
87F9	0D		
87FA	10		
87FB	10		
87FC	01		
87FD	18		
87FE	01		
87FF	19		
8800	02		
8801	22		
8802	02		
8803	23		
8804	01		
8805	2C		
8806	02		
8807	2D		
8808	01		
8809	36		

LOC	OBJ	LINE	SOURCE
880A	02		
880B	FF	=1 933	DB -1, 1
880C	01		
880D	BC	=1 934	DB 0BCH,03AH, 2,22,56, 2
880E	3A		
880F	02		
8810	16		
8811	38		
8812	02		
8813	DC	=1 935	DB 0DCH,03AH, 9, 6, 1, 1, 2, 1,10, 1,11, 1,12, 1,20, 1,21, 1,30, 1
8814	3A		
8815	09		
8816	06		
8817	01		
8818	01		
8819	02		
881A	01		
881B	0A		
881C	01		
881D	0B		
881E	01		
881F	0C		
8820	01		
8821	14		
8822	01		
8823	15		
8824	01		
8825	1E		
8826	01		
8827	FF	=1 936	DB -1, 1
8828	01		
8829	DD	=1 937	ODDH,03AH, 9,22,32, 2,33, 1,42, 1,43, 1,52, 1,53, 1,61, 1,62, 1
882A	3A		
882B	09		
882C	16		
882D	20		
882E	02		
882F	21		
8830	01		
8831	2A		
8832	01		
8833	2B		
8834	01		
8835	34		
8836	01		
8837	35		
8838	01		
8839	3D		
883A	01		
883B	3E		
883C	01		
		=1 938	
		=1 939	
		=1 940 ;	STAR PATH # 30
		=1 941	

LOC	OBJ	LINE	SOURCE	LABEL	BYTE
883D		=1 942	STAR_PATH30		
		=1 943			
883D	89	=1 944		DB	089H,03AH,13,20, 2, 4, 1, 2, 9, 2, 8, 3,16, 2
883E	3A				
883F	0D				
8840	14				
8841	02				
8842	04				
8843	01				
8844	02				
8845	09				
8846	02				
8847	08				
8848	03				
8849	10				
884A	02				
884B	88	=1 945		DB	0BBH,03AH,28,14,-1, 4,30, 4,29, 1,37, 2,36, 3,44, 1,43, 4,50, 3
884C	3A				
884D	1C				
884E	0E				
884F	FF				
8850	04				
8851	1E				
8852	04				
8853	1D				
8854	01				
8855	25				
8856	02				
8857	24				
8858	03				
8859	2C				
885A	01				
885B	2B				
885C	04				
885D	32				
885E	03				
885F	31	=1 946		DB	49, 1,57, 3,56, 2
8860	01				
8861	39				
8862	03				
8863	38				
8864	02				
8865	A8	=1 947		DB	0A8H,03AH, 1,26, 0, 1
8866	3A				
8867	01				
8868	1A				
8869	00				
886A	01				
886B	A7	=1 948		DB	0A7H,03AH,23, 6,-1, 3,14, 3,13, 1,21, 2,20, 2,28, 1,27, 3,34, 2
886C	3A				
886D	17				
886E	06				
886F	FF				
8870	03				
8871	0E				

LOC	OBJ	LINE	SOURCE
8872	03		
8873	0D		
8874	01		
8875	15		
8876	02		
8877	14		
8878	02		
8879	1C		
887A	01		
887B	18		
887C	03		
887D	22		
887E	02		
887F	21	=1 949	DB 33, 1,41, 2,40, 2,48, 1
8880	01		
8881	29		
8882	02		
8883	28		
8884	02		
8885	30		
8886	01		
8887	A6	=1 950	DB 0A6H,03AH, 5,28,-1, 2,62, 2,61, 1
8888	3A		
8889	05		
888A	1C		
888B	FF		
888C	02		
888D	3E		
888E	02		
888F	3D		
8890	01		
8891	C6	=1 951	DB 0C6H,03AH,13,10, 5, 2, 4, 1,12, 1,11, 2,18, 3,25, 2,24, 1,32, 1
8892	3A		
8893	0D		
8894	0A		
8895	05		
8896	02		
8897	04		
8898	01		
8899	0C		
889A	01		
889B	08		
889C	02		
889D	12		
889E	03		
889F	19		
88A0	02		
88A1	18		
88A2	01		
88A3	20		
88A4	01		
88A5	C5	=1 952	DB 0C5H,03AH, 9,20,-1, 2,46, 2,53, 2,52, 1,60, 1,59, 1
88A6	3A		
88A7	09		
88A8	14		

LOC	OBJ	LINE	SOURCE
88A9	FF		
88AA	02		
88AB	2E		
88AC	02		
88AD	35		
88AE	02		
88AF	34		
88B0	01		
88B1	3C		
88B2	01		
88B3	38		
88B4	01		
88B5	E5	=1 953	DB 0E5H,03AH, 6,16, 2, 2, 1, 1, 9, 1, 8, 1,16, 1
88B6	3A		
88B7	06		
88B8	10		
88B9	02		
88BA	02		
88BB	01		
88BC	01		
88BD	09		
88BE	01		
88BF	08		
88C0	01		
88C1	10		
88C2	01		
88C3	E4	=1 954	DB 0E4H,03AH,11,14,-1, 1,30, 2,37, 2,44, 1,43, 1,51, 1,50, 1,57, 2
88C4	3A		
88C5	08		
88C6	0E		
88C7	FF		
88C8	01		
88C9	1E		
88CA	02		
88CB	25		
88CC	02		
88CD	2C		
88CE	01		
88CF	2B		
88D0	01		
88D1	33		
88D2	01		
88D3	32		
88D4	01		
88D5	39		
88D6	02		
88D7	04	=1 955	DB 004H,03BH, 1,20, 0, 1
88D8	3B		
88D9	01		
88DA	14		
88DB	00		
88DC	01		
88DD	03	=1 956	DB 003H,03BH,11, 6,-1, 1,14, 2,21, 1,20, 1,27, 2,34, 1,41, 1,40, 1
88DE	3B		
88DF	08		

LOC	OBJ	LINE	SOURCE
88E0	06		
88E1	FF		
88E2	01		
88E3	0E		
88E4	02		
88E5	15		
88E6	01		
88E7	14		
88E8	01		
88E9	1B		
88EA	02		
88EB	22		
88EC	01		
88ED	29		
88EE	01		
88EF	28		
88F0	01		
88F1	30	=1 957	DB 48, 1
88F2	01		
88F3	02	=1 958	DB 002H,03BH, 2,22,-1, 1,62, 1
88F4	3B		
88F5	02		
88F6	16		
88F7	FF		
88F8	01		
88F9	3E		
88FA	01		
88FB	22	=1 959	DB 022H,03BH, 7, 8, 5, 1, 4, 1,11, 1,18, 1,17, 1,24, 1,32, 1
88FC	3B		
88FD	07		
88FE	08		
88FF	05		
8900	01		
8901	04		
8902	01		
8903	08		
8904	01		
8905	12		
8906	01		
8907	11		
8908	01		
8909	18		
890A	01		
890B	20		
890C	01		
		=1 960	
		=1 961	
		=1 962 ;	STAR PATH # 31
		=1 963	
890D		=1 964	STAR_PATH31 LABEL BYTE
		=1 965	
		=1 966	0CDH,03BH,23,18,54, 2,46, 4,38, 1,37, 3,29, 3,21, 4,13, 3, 4, 3
890E	CD		
890E	3B		
890F	17		
8910	12		

LOC	OBJ	LINE	SOURCE
8911	36		
8912	02		
8913	2E		
8914	04		
8915	26		
8916	01		
8917	25		
8918	03		
8919	1D		
891A	03		
891B	15		
891C	04		
891D	0D		
891E	03		
891F	04		
8920	03		
8921	AD	=1 967	DB 0ADH,038H,23,20,60, 3,52, 3,44, 2,43, 1,35, 3,27, 3,19, 3,11, 1
8922	38		
8923	17		
8924	14		
8925	3C		
8926	03		
8927	34		
8928	03		
8929	2C		
892A	02		
892B	2B		
892C	01		
892D	23		
892E	03		
892F	1B		
8930	03		
8931	13		
8932	03		
8933	0B		
8934	01		
8935	0A	=1 968	DB 10, 1, 2, 3
8936	01		
8937	02		
8938	03		
8939	BD	=1 969	DB 08DH,038H,18,24,58, 2,50, 3,41, 2,33, 3,25, 2,17, 2, 8, 2, 0, 2
893A	38		
893B	12		
893C	18		
893D	3A		
893E	02		
893F	32		
8940	03		
8941	29		
8942	02		
8943	21		
8944	03		
8945	19		
8946	02		
8947	11		

LOC	OBJ	LINE	SOURCE
8948	02		
8949	08		
894A	02		
894B	00		
894C	02		
894D	60	=1 970	DB 06DH,038H, 4,20,56, 3,48, 1
894E	38		
894F	04		
8950	14		
8951	38		
8952	03		
8953	30		
8954	01		
8955	6C	=1 971	DB 06CH,038H,12, 8,-1, 7,22, 1,14, 2, 6, 2
8956	38		
8957	0C		
8958	08		
8959	FF		
895A	07		
895B	16		
895C	01		
895D	0E		
895E	02		
895F	06		
8960	02		
8961	4C	=1 972	DB 04CH,038H,13,12,62, 2,53, 1,45, 2,37, 2,29, 1,20, 2,12, 2, 4, 1
8962	38		
8963	0D		
8964	0C		
8965	3E		
8966	02		
8967	35		
8968	01		
8969	2D		
896A	02		
896B	25		
896C	02		
896D	1D		
896E	01		
896F	14		
8970	02		
8971	0C		
8972	02		
8973	04		
8974	01		
8975	2C	=1 973	DB 02CH,038H,11,20,60, 1,59, 1,51, 1,43, 1,35, 2,26, 1,18, 2,10, 1
8976	38		
8977	0B		
8978	14		
8979	3C		
897A	01		
897B	3B		
897C	01		
897D	33		
897E	01		

LOC	OBJ	LINE	SOURCE
897F	2B		
8980	01		
8981	23		
8982	02		
8983	1A		
8984	01		
8985	12		
8986	02		
8987	0A		
8988	01		
8989	02	=1 974	DB 2, 1
898A	01		
898B	0C	=1 975	DB 00CH,038H, 9,22,57, 2,49, 1,41, 1,33, 1,24, 2,16, 1, 8, 1
898C	38		
898D	09		
898E	16		
898F	39		
8990	02		
8991	31		
8992	01		
8993	29		
8994	01		
8995	21		
8996	01		
8997	18		
8998	02		
8999	10		
899A	01		
899B	08		
899C	01		
		=1 976	
		=1 977	
		=1 978 ;	STAR PATH # 32
		=1 979	
899D		=1 980	STAR_PATH32 LABEL BYTE
		=1 981	
899D	F3	=1 982	DB 0F3H,039H,34,18,48, 8,49, 6,50, 1,58, 6,59, 5,60, 6,61, 4
899E	39		
899F	24		
89A0	12		
89A1	30		
89A2	08		
89A3	31		
89A4	06		
89A5	32		
89A6	01		
89A7	3A		
89A8	06		
89A9	3B		
89AA	05		
89AB	3C		
89AC	06		
89AD	3D		
89AE	04		
89AF	13	=1 983	DB 013H,03AH,10,18, 5, 1, 6, 4,-1, 5

LOC	OBJ	LINE	SOURCE
89B0	3A		
89B1	0A		
89B2	12		
89B3	05		
89B4	01		
89B5	06		
89B6	04		
89B7	FF		
89B8	05		
89B9	14	=1 984	DB 014H,03AH,27,10, 0, 4, 1, 2, 9, 2,10, 3,11, 4,12, 3,13, 1,21, 2
89BA	3A		
89BB	1B		
89BC	0A		
89BD	00		
89BE	04		
89BF	01		
89C0	02		
89C1	09		
89C2	02		
89C3	0A		
89C4	03		
89C5	0B		
89C6	04		
89C7	0C		
89C8	03		
89C9	0D		
89CA	01		
89CB	15		
89CC	02		
89CD	16	=1 985	DB 22, 3,-1, 3
89CE	03		
89CF	FF		
89D0	03		
89D1	15	=1 986	DB 015H,03AH,18,24,16, 2,17, 1,25, 2,26, 2,27, 3,28, 1,36, 1,37, 2
89D2	3A		
89D3	12		
89D4	1B		
89D5	10		
89D6	02		
89D7	11		
89D8	01		
89D9	19		
89DA	02		
89DB	1A		
89DC	02		
89DD	1B		
89DE	03		
89DF	1C		
89E0	01		
89E1	24		
89E2	01		
89E3	25		
89E4	02		
89E5	26	=1 987	DB 38, 2,-1, 2
89E6	02		

LOC	OBJ	LINE	SOURCE
89E7	FF		
89E8	02		
89E9	16	=1 988	DB 016H,03AH,13,24,32, 1,40, 1,41, 2,42, 1,43, 2,52, 1,53, 2,54, 1
89EA	3A		
89EB	0D		
89EC	1B		
89ED	20		
89EE	01		
89EF	28		
89F0	01		
89F1	29		
89F2	02		
89F3	2A		
89F4	01		
89F5	2B		
89F6	02		
89F7	34		
89F8	01		
89F9	35		
89FA	02		
89FB	36		
89FC	01		
89FD	FF	=1 989	DB -1, 2
89FE	02		
89FF	17	=1 990	DB 017H,03AH, 5,22,56, 1,57, 2,58, 1,59, 1
8A00	3A		
8A01	05		
8A02	16		
8A03	3B		
8A04	01		
8A05	39		
8A06	02		
8A07	3A		
8A08	01		
8A09	3B		
8A0A	01		
8A0B	37	=1 991	DB 037H,03AH, 5,12, 4, 1, 5, 1, 6, 2,-1, 1
8A0C	3A		
8A0D	05		
8A0E	0C		
8A0F	04		
8A10	01		
8A11	05		
8A12	01		
8A13	06		
8A14	02		
8A15	FF		
8A16	01		
8A17	38	=1 992	DB 038H,03AH, 7,12, 8, 1, 9, 1,10, 1,19, 1,20, 1,22, 1,-1, 1
8A18	3A		
8A19	07		
8A1A	0C		
8A1B	08		
8A1C	01		
8A1D	09		

LOC	OBJ	LINE	SOURCE
BA1E	01		
BA1F	0A		
BA20	01		
BA21	13		
BA22	01		
BA23	14		
BA24	01		
BA25	16		
BA26	01		
BA27	FF		
BA28	01		
BA29	39	=1 993	DB 039H,03AH, 6,18,24, 1,25, 1,34, 1,36, 1,37, 1,-1, 1
BA2A	3A		
BA2B	06		
BA2C	12		
BA2D	18		
BA2E	01		
BA2F	19		
BA30	01		
BA31	22		
BA32	01		
BA33	24		
BA34	01		
BA35	25		
BA36	01		
BA37	FF		
BA38	01		
BA39	3A	=1 994	DB 03AH,03AH, 5,16,40, 1,42, 1,51, 1,53, 1,62, 1
BA3A	3A		
BA3B	05		
BA3C	10		
BA3D	28		
BA3E	01		
BA3F	2A		
BA40	01		
BA41	33		
BA42	01		
BA43	35		
BA44	01		
BA45	3E		
BA46	01		
BA47	3B	=1 995	DB 03BH,03AH, 1,14,56, 1
BA48	3A		
BA49	01		
BA4A	0E		
BA4B	38		
BA4C	01		
BA4D	5B	=1 996	DB 05BH,03AH, 3, 6, 2, 1, 4, 1,14, 1
BA4E	3A		
BA4F	03		
BA50	06		
BA51	02		
BA52	01		
BA53	04		
BA54	01		

LOC	OBJ	LINE	SOURCE
8A55	0E		
8A56	01		
8A57	5C	=1 997	DB 05CH,03AH, 4,10, 8, 1,18, 1,29, 1,-1, 1
8A58	3A		
8A59	04		
8A5A	0A		
8A5B	08		
8A5C	01		
8A5D	12		
8A5E	01		
8A5F	1D		
8A60	01		
8A61	FF		
8A62	01		
8A63	5D	=1 998	DB 05DH,03AH, 3,12,34, 1,44, 1,-1, 1
8A64	3A		
8A65	03		
8A66	0C		
8A67	22		
8A68	01		
8A69	2C		
8A6A	01		
8A6B	FF		
8A6C	01		
		=1 999	
		=1 1000	
		=1 1001 ;	STAR PATH # 33
		=1 1002	
8A6D		=1 1003	STAR_PATH33 LABEL BYTE
		=1 1004	
8A6D	0E	=1 1005	00EH,03AH,47,10,45,10,53, 2,52,18,60, 6,59,11
8A6E	3A		
8A6F	2F		
8A70	0A		
8A71	2D		
8A72	0A		
8A73	35		
8A74	02		
8A75	34		
8A76	12		
8A77	3C		
8A78	06		
8A79	3B		
8A7A	0B		
8A7B	2E	=1 1006	02EH,03AH,55,14, 3, 9, 2, 5,10,13, 9, 1,17,12,25, 2,24, 8,32, 5
8A7C	3A		
8A7D	37		
8A7E	0E		
8A7F	03		
8A80	09		
8A81	02		
8A82	05		
8A83	0A		
8A84	0D		
8A85	09		

LOC	OBJ	LINE	SOURCE
8A86	01		
8A87	11		
8A88	0C		
8A89	19		
8A8A	02		
8A8B	18		
8A8C	08		
8A8D	20		
8A8E	05		
8A8F	2D	=1 1007	DB 02DH,03AH,29,20,-1,12,46, 2,54, 8,61, 7
8A90	3A		
8A91	1D		
8A92	14		
8A93	FF		
8A94	0C		
8A95	2E		
8A96	02		
8A97	36		
8A98	08		
8A99	3D		
8A9A	07		
8A9B	4D	=1 1008	DB 04DH,03AH,37,12, 5, 2, 4, 5,12, 4,11, 2,19, 5,18, 1,26, 5,34, 1
8A9C	3A		
8A9D	25		
8A9E	0C		
8A9F	05		
8AA0	02		
8AA1	04		
8AA2	05		
8AA3	0C		
8AA4	04		
8AA5	08		
8AA6	02		
8AA7	13		
8AA8	05		
8AA9	12		
8AAA	01		
8AAB	1A		
8AAC	05		
8AAD	22		
8AAE	01		
8AAF	21	=1 1009	DB 33, 4,41, 2,40, 3,48, 3
8AB0	04		
8AB1	29		
8AB2	02		
8AB3	28		
8AB4	03		
8AB5	30		
8AB6	03		
8AB7	4C	=1 1010	DB 04CH,03AH, 6,28,-1, 6
8AB8	3A		
8AB9	06		
8ABA	1C		
8ABB	FF		
8ABC	06		

LOC	OBJ	LINE	SOURCE
BABD	6C	=1 1011	DB 06CH,03AH,25, 6, 6, 3,14, 1,13, 3,21, 2,20, 1,28, 3,27, 1,35, 3
BABE	3A		
BABF	19		
BAC0	06		
BAC1	06		
BAC2	03		
BAC3	0E		
BAC4	01		
BAC5	0D		
BAC6	03		
BAC7	15		
BAC8	02		
BAC9	14		
BACA	01		
BACB	1C		
BACC	03		
BACD	1B		
BACE	01		
BACF	23		
BAD0	03		
BAD1	2A	=1 1012	DB 42, 3,50, 1,49, 1,57, 2,56, 1
BAD2	03		
BAD3	32		
BAD4	01		
BAD5	31		
BAD6	01		
BAD7	39		
BAD8	02		
BAD9	38		
BADA	01		
BADB	BC	=1 1013	DB 08CH,03AH, 2,30, 0, 2
BADC	3A		
BADD	02		
BADE	1E		
BADE	00		
BAEO	02		
BAE1	8B	=1 1014	DB 08BH,03AH,15, 6,-1, 3,22, 2,30, 1,29, 1,37, 2,44, 2,51, 2,59, 1
BAE2	3A		
BAE3	0F		
BAE4	06		
BAE5	FF		
BAE6	03		
BAE7	16		
BAE8	02		
BAE9	1E		
BAEA	01		
BAEB	1D		
BAEC	01		
BAED	25		
BAEE	02		
BAEF	2C		
BAF0	02		
BAF1	33		
BAF2	02		
BAF3	3B		

LOC	OBJ	LINE	SOURCE
BAF4	01		
BAF5	3A	=1 1015	DB 58, 1
BAF6	01		
BAF7	AB	=1 1016	DB 0ABH,03AH, 5,22, 2, 1, 1, 1, 9, 1,16, 2
BAFB	3A		
BAF9	05		
BAFA	16		
BAFB	02		
BAFC	01		
BAFD	01		
BAFE	01		
BAFF	09		
BB00	01		
BB01	10		
BB02	02		
BB03	AA	=1 1017	DB 0AAH,03AH, 7,12,-1, 2,38, 1,46, 1,53, 2,60, 1
BB04	3A		
BB05	07		
BB06	0C		
BB07	FF		
BB08	02		
BB09	26		
BB0A	01		
BB0B	2E		
BB0C	01		
BB0D	35		
BB0E	02		
BB0F	3C		
BB10	01		
BB11	CA	=1 1018	DB 0CAH,03AH, 6,14, 3, 1,11, 1,18, 1,17, 1,25, 1,32, 1
BB12	3A		
BB13	06		
BB14	0E		
BB15	03		
BB16	01		
BB17	08		
BB18	01		
BB19	12		
BB1A	01		
BB1B	11		
BB1C	01		
BB1D	19		
BB1E	01		
BB1F	20		
BB20	01		
BB21	C9	=1 1019	DB 0C9H,03AH, 3,16,-1, 2,62, 1
BB22	3A		
BB23	03		
BB24	10		
BB25	FF		
BB26	02		
BB27	3E		
BB28	01		
BB29	E9	=1 1020	DB 0E9H,03AH, 7, 8, 5, 1,12, 1,19, 1,27, 1,34, 1,49, 1,56, 1
BB2A	3A		

LOC	OBJ	LINE	SOURCE
8B2B	07		
8B2C	08		
8B2D	05		
8B2E	01		
8B2F	0C		
8B30	01		
8B31	13		
8B32	01		
8B33	1B		
8B34	01		
8B35	22		
8B36	01		
8B37	31		
8B38	01		
8B39	38		
8B3A	01		
8B3B	08	=1 1021	DB 008H,03BH, 6,18,-1, 1,14, 1,29, 1,36, 1,50, 1,57, 1
8B3C	38		
8B3D	06		
8B3E	12		
8B3F	FF		
8B40	01		
8B41	0E		
8B42	01		
8B43	1D		
8B44	01		
8B45	24		
8B46	01		
8B47	32		
8B48	01		
8B49	39		
8B4A	01		
8B4B	28	=1 1022	DB 028H,03BH, 1,16, 8, 1
8B4C	38		
8B4D	01		
8B4E	10		
8B4F	08		
8B50	01		
8B51	27	=1 1023	DB 027H,03BH, 3, 6,-1, 1,37, 1,52, 1
8B52	38		
8B53	03		
8B54	06		
8B55	FF		
8B56	01		
8B57	25		
8B58	01		
8B59	34		
8B5A	01		
8B5B	47	=1 1024	DB 047H,03BH, 2,10, 2, 1,17, 1
8B5C	38		
8B5D	02		
8B5E	0A		
8B5F	02		
8B60	01		
8B61	11		

LOC	OBJ	LINE	SOURCE
-----	-----	------	--------

8862	01		
8863	46	=1 1025	DB 046H,03BH, 2, 8,-1, 1,54, 1
8864	3B		
8865	02		
8866	08		
8867	FF		
8868	01		
8869	36		
886A	01		
886B	66	=1 1026	DB 066H,03BH, 3, 8, 4, 1,26, 1,40, 1
886C	3B		
886D	03		
886E	08		
886F	04		
8870	01		
8871	1A		
8872	01		
8873	28		
8874	01		
8875	85	=1 1027	DB 085H,03BH, 3,10, 6, 1,20, 1,42, 1
8876	3B		
8877	03		
8878	0A		
8879	06		
887A	01		
887B	14		
887C	01		
887D	2A		
887E	01		
887F	A4	=1 1028	DB 0A4H,03BH, 3,10,-1, 1,37, 1,58, 1
8880	3B		
8881	03		
8882	0A		
8883	FF		
8884	01		
8885	25		
8886	01		
8887	3A		
8888	01		
		=1 1029	
		=1 1030	
		=1 1031	; STAR PATH # 34
		=1 1032	
8889		=1 1033	STAR_PATH34 LABEL BYTE
		=1 1034	
8889	6E	=1 1035	DB 06EH,039H,28,10,58, 2,57, 6,49, 8,40, 7,32, 5
888A	39		
888B	1C		
888C	0A		
888D	3A		
888E	02		
888F	39		
8890	06		
8891	31		
8892	08		

LOC	OBJ	LINE	SOURCE
8B93	28		
8B94	07		
8B95	20		
8B96	05		
8B97	6D	=1 1036	DB 06DH,039H,24,14,-1,11,22, 3,14, 5, 6, 1, 5, 4
8B98	39		
8B99	18		
8B9A	0E		
8B9B	FF		
8B9C	0B		
8B9D	16		
8B9E	03		
8B9F	0E		
8BA0	05		
8BA1	06		
8BA2	01		
8BA3	05		
8BA4	04		
8BA5	4D	=1 1037	DB 04DH,039H,32,14,61, 5,52, 4,44, 3,43, 2,35, 4,27, 1,26, 2,18, 4
8BA6	39		
8BA7	20		
8BA8	0E		
8BA9	3D		
8BA0A	05		
8BA0B	34		
8BA0C	04		
8BA0D	2C		
8BAE	03		
8BAF	28		
8BB0	02		
8BB1	23		
8BB2	04		
8BB3	1B		
8BB4	01		
8BB5	1A		
8BB6	02		
8BB7	12		
8BB8	04		
8BB9	09	=1 1038	DB 9, 3, 1, 3, 0, 1
8BB0A	03		
8BB0B	01		
8BBC	03		
8BB0D	00		
8BB0E	01		
8BBF	2D	=1 1039	DB 02DH,039H, 4,26,56, 3,48, 1
8BC0	39		
8BC1	04		
8BC2	1A		
8BC3	38		
8BC4	03		
8BC5	30		
8BC6	01		
8BC7	2C	=1 1040	DB 02CH,039H,17, 8,-1, 5,38, 2,30, 3,21, 2,13, 2, 4, 3
8BC8	39		
8BC9	11		

LOC	OBJ	LINE	SOURCE
BBCA	08		
BBCB	FF		
BBCC	05		
BBCD	26		
BBCE	02		
BBCF	1E		
BBDO	03		
BBD1	15		
BBD2	02		
BBD3	00		
BBD4	02		
BBD5	04		
BBD6	03		
BBD7	0C	=1 1041	DB 00CH,039H,14,16,60, 1,59, 1,51, 2,42, 2,34, 2,25, 2,17, 1, 8, 2
BBD8	39		
BBD9	0E		
BBDA	10		
BBDB	3C		
BBDC	01		
BBDD	3B		
BBDE	01		
BBDF	33		
BBE0	02		
BBE1	2A		
BBE2	02		
BBE3	22		
BBE4	02		
BBE5	19		
BBE6	02		
BBE7	11		
BBE8	01		
BBE9	08		
BBEA	02		
BBEB	00	=1 1042	DB 0, 1
BBEC	01		
BBED	EB	=1 1043	DB 0EBH,038H,12,22,-1, 2,54, 2,46, 1,37, 2,28, 1,20, 1,12, 1,11, 1
BBEE	38		
BBEF	0C		
BBF0	16		
BBF1	FF		
BBF2	02		
BBF3	36		
BBF4	02		
BBF5	2E		
BBF6	01		
BBF7	25		
BBFB	02		
BBF9	1C		
BBFA	01		
BBFB	14		
BBFC	01		
BBFD	0C		
BBFE	01		
BBFF	0B		
BC00	01		

LOC	OBJ	LINE	SOURCE
8C01	03	=1 1044	DB 3, 1
8C02	01		
8C03	CB	=1 1045	0CBH,03BH, 6,22,58, 1,50, 1,41, 1,33, 1,24, 2
8C04	38		
8C05	06		
8C06	16		
8C07	3A		
8C08	01		
8C09	32		
8C0A	01		
8C0B	29		
8C0C	01		
8C0D	21		
8C0E	01		
8C0F	18		
8C10	02		
8C11	CA	=1 1046	0CAH,03BH, 3,14,-1, 2, 6, 1
8C12	38		
8C13	03		
8C14	0E		
8C15	FF		
8C16	02		
8C17	06		
8C18	01		
8C19	AA	=1 1047	0AAH,03BH, 7, 8,61, 1,45, 1,36, 1,27, 1,19, 1,10, 1, 1, 1
8C1A	38		
8C1B	07		
8C1C	08		
8C1D	3D		
8C1E	01		
8C1F	20		
8C20	01		
8C21	24		
8C22	01		
8C23	1B		
8C24	01		
8C25	13		
8C26	01		
8C27	0A		
8C28	01		
8C29	01		
8C2A	01		
8C2B	8A	=1 1048	0BAH,03BH, 2,18,49, 1,40, 1
8C2C	38		
8C2D	02		
8C2E	12		
8C2F	31		
8C30	01		
8C31	28		
8C32	01		
8C33	89	=1 1049	089H,03BH, 3, 8,-1, 1,22, 1,13, 1
8C34	38		
8C35	03		
8C36	08		
8C37	FF		

LOC	OBJ	LINE	SOURCE
8C38	01		
8C39	16		
8C3A	01		
8C3B	00		
8C3C	01		
8C3D	69	=1 1050	DB 069H,038H, 5,10,61, 1,52, 1,35, 1,18, 1, 9, 1
8C3E	38		
8C3F	05		
8C40	0A		
8C41	3D		
8C42	01		
8C43	34		
8C44	01		
8C45	23		
8C46	01		
8C47	12		
8C48	01		
8C49	09		
8C4A	01		
8C4B	49	=1 1051	DB 049H,038H, 1,14,56, 1
8C4C	38		
8C4D	01		
8C4E	0E		
8C4F	38		
8C50	01		
8C51	48	=1 1052	DB 048H,038H, 3, 6,-1, 1,29, 1,12, 1
8C52	38		
8C53	03		
8C54	06		
8C55	FF		
8C56	01		
8C57	1D		
8C58	01		
8C59	0C		
8C5A	01		
8C5B	28	=1 1053	DB 028H,038H, 3,10,59, 1,34, 1,16, 1
8C5C	38		
8C5D	03		
8C5E	0A		
8C5F	38		
8C60	01		
8C61	22		
8C62	01		
8C63	10		
8C64	01		
8C65	27	=1 1054	DB 027H,038H, 1,10,-1, 1
8C66	38		
8C67	01		
8C68	0A		
8C69	FF		
8C6A	01		
8C6B	07	=1 1055	DB 007H,038H, 3, 6,45, 1,20, 1, 2, 1
8C6C	38		
8C6D	03		
8C6E	06		

LOC	OBJ	LINE	SOURCE
8C6F	2D		
8C70	01		
8C71	14		
8C72	01		
8C73	02		
8C74	01		
		=1 1056	
		=1 1057	
		=1 1058 ;	STAR PATH # 35
		=1 1059	
8C75		=1 1060	STAR_PATH35 LABEL BYTE
		=1 1061	
8C75	D2	=1 1062	DB 0D2H,039H,33,10,45, 9,46,12,-1,12
8C76	39		
8C77	21		
8C78	0A		
8C79	2D		
8C7A	09		
8C7B	2E		
8C7C	0C		
8C7D	FF		
8C7E	0C		
8C7F	D3	=1 1063	DB 0D3H,039H,67,10,40, 5,32, 6,33,10,34, 9,35, 8,36, 8,37, 7,38, 7
8C80	39		
8C81	43		
8C82	0A		
8C83	28		
8C84	05		
8C85	20		
8C86	06		
8C87	21		
8C88	0A		
8C89	22		
8C8A	09		
8C8B	23		
8C8C	08		
8C8D	24		
8C8E	08		
8C8F	25		
8C90	07		
8C91	26		
8C92	07		
8C93	FF	=1 1064	DB -1, 7
8C94	07		
8C95	D4	=1 1065	DB 0D4H,039H,40,22,32, 3,24, 3,25, 6,26, 5,27, 5,28, 5,29, 5,30, 4
8C96	39		
8C97	28		
8C98	16		
8C99	20		
8C9A	03		
8C9B	18		
8C9C	03		
8C9D	19		
8C9E	06		
8C9F	1A		

LOC	OBJ	LINE	SOURCE
BCA0	05		
BCA1	1B		
BCA2	05		
BCA3	1C		
BCA4	05		
BCA5	1D		
BCA6	05		
BCA7	1E		
BCAB	04		
BCA9	FF	=1 1066	DB -1, 4
BCAA	04		
BCAB	05	=1 1067	DB 0D5H,039H,27,22,24, 3,16, 1,17, 4,18, 3,19, 4,20, 3,21, 3,22, 3
BCAC	39		
BCAD	1B		
BCAE	16		
BCAF	18		
BCB0	03		
BCB1	10		
BCB2	01		
BCB3	11		
BCB4	04		
BCB5	12		
BCB6	03		
BCB7	13		
BCB8	04		
BCB9	14		
BCBA	03		
BCBB	15		
BCBC	03		
BCBD	16		
BCBE	03		
BCBF	FF	=1 1068	DB -1, 3
BCC0	03		
BCC1	D6	=1 1069	DB 0D6H,039H,19,22,16, 2, 9, 3,10, 3,11, 2,12, 2,13, 3,14, 2,-1, 2
BCC2	39		
BCC3	13		
BCC4	16		
BCC5	10		
BCC6	02		
BCC7	09		
BCC8	03		
BCC9	0A		
BCCA	03		
BCCB	0B		
BCCC	02		
BCCD	0C		
Bcce	02		
BCCF	0D		
BCD0	03		
BCD1	0E		
BCD2	02		
BCD3	FF		
BCD4	02		
BCD5	07	=1 1070	DB 0D7H,039H,14,20, 8, 2, 1, 2, 2, 3, 1, 4, 2, 5, 2, 6, 2,-1, 1
BCD6	39		

LOC	OBJ	LINE	SOURCE
8CD7	0E		
8CD8	14		
8CD9	08		
8CDA	02		
8CDB	01		
8CDC	02		
8CDD	02		
8CDE	02		
8CDF	03		
8CE0	01		
8CE1	04		
8CE2	02		
8CE3	05		
8CE4	02		
8CE5	06		
8CE6	02		
8CE7	FF		
8CE8	01		
8CE9	D8	=1 1071	DB 0DBH,039H, 2,20, 0, 2
8CEA	39		
8CEB	02		
8CEC	14		
8CED	00		
8CEE	02		
8CEF	B8	=1 1072	DB 0BBH,039H, 9, 6,57, 1,58, 2,59, 1,60, 1,61, 2,62, 1,-1, 1
8CF0	39		
8CF1	09		
8CF2	06		
8CF3	39		
8CF4	01		
8CF5	3A		
8CF6	02		
8CF7	3B		
8CF8	01		
8CF9	3C		
8CFA	01		
8CFB	3D		
8CFC	02		
8CFD	3E		
8CFE	01		
8CFF	FF		
8D00	01		
8D01	B9	=1 1073	DB 0B9H,039H, 9,18,56, 2,49, 1,50, 1,51, 1,52, 1,53, 1,54, 1,-1, 1
8D02	39		
8D03	09		
8D04	12		
8D05	38		
8D06	02		
8D07	31		
8D08	01		
8D09	32		
8D0A	01		
8D0B	33		
8D0C	01		
8D0D	34		

LOC	OBJ	LINE	SOURCE
8D0E	01		
8D0F	35		
8D10	01		
8D11	36		
8D12	01		
8D13	FF		
8D14	01		
8D15	BA	=1 1074	DB 0BAH,039H, 8,20,48, 1,49, 1,42, 1,43, 1,44, 1,45, 1,46, 1,-1, 1
8D16	39		
8D17	08		
8D18	14		
8D19	30		
8D1A	01		
8D1B	31		
8D1C	01		
8D1D	2A		
8D1E	01		
8D1F	2B		
8D20	01		
8D21	2C		
8D22	01		
8D23	2D		
8D24	01		
8D25	2E		
8D26	01		
8D27	FF		
8D28	01		
8D29	BB	=1 1075	DB 0BBH,039H, 6,20,41, 1,34, 1,35, 1,37, 1,38, 1,-1, 1
8D2A	39		
8D2B	06		
8D2C	14		
8D2D	29		
8D2E	01		
8D2F	22		
8D30	01		
8D31	23		
8D32	01		
8D33	25		
8D34	01		
8D35	26		
8D36	01		
8D37	FF		
8D38	01		
8D39	BC	=1 1076	DB 0BCH,039H, 5,16,33, 1,26, 1,28, 1,29, 1,-1, 1
8D3A	39		
8D3B	05		
8D3C	10		
8D3D	21		
8D3E	01		
8D3F	1A		
8D40	01		
8D41	1C		
8D42	01		
8D43	1D		
8D44	01		

LOC	OBJ	LINE	SOURCE
8D45	FF		
8D46	01		
8D47	8D	=1 1077	DB 0BDH,039H, 4,14,25, 1,19, 1,20, 1,22, 1
8D48	39		
8D49	04		
8D4A	0E		
8D4B	19		
8D4C	01		
8D4D	13		
8D4E	01		
8D4F	14		
8D50	01		
8D51	16		
8D52	01		
8D53	BE	=1 1078	DB 0BEH,039H, 4,12,16, 1,10, 1,12, 1,14, 1
8D54	39		
8D55	04		
8D56	0C		
8D57	10		
8D58	01		
8D59	0A		
8D5A	01		
8D5B	0C		
8D5C	01		
8D5D	0E		
8D5E	01		
		=1 1079	
		=1 1080	
		=1 1081 ;	STAR PATH # 36
		=1 1082	
8D5F		=1 1083	STAR_PATH36 LABEL BYTE
		=1 1084	
		=1 1085	DB 04FH,03AH,56,12, 1,11, 9,11,17, 1,16, 9,24, 9,32, 8,40, 7
8D60	3A		
8D61	38		
8D62	0C		
8D63	01		
8D64	0B		
8D65	09		
8D66	0B		
8D67	11		
8D68	01		
8D69	10		
8D6A	09		
8D6B	18		
8D6C	09		
8D6D	20		
8D6E	0B		
8D6F	28		
8D70	07		
8D71	6E	=1 1086	DB 06EH,03AH,58,18,-1,26,14, 2,22, 6,30, 5,38, 5,46, 2,45, 3,53, 5
8D72	3A		
8D73	3A		
8D74	12		
8D75	FF		

LOC	OBJ	LINE	SOURCE
8076	1A		
8077	0E		
8078	02		
8079	16		
807A	06		
807B	1E		
807C	05		
807D	26		
807E	05		
807F	2E		
8080	02		
8081	2D		
8082	03		
8083	35		
8084	05		
8085	3D	=1 1087	DB 61, 4
8086	04		
8087	8E	=1 1088	DB 08EH,03AH,29,22, 5, 5,12, 4,20, 3,28, 4,36, 3,35, 1,43, 3,51, 3
8088	3A		
8089	1D		
808A	16		
808B	05		
808C	05		
808D	0C		
808E	04		
808F	14		
8090	03		
8091	1C		
8092	04		
8093	24		
8094	03		
8095	23		
8096	01		
8097	2B		
8098	03		
8099	33		
809A	03		
809B	3B	=1 1089	DB 59, 3
809C	03		
809D	AE	=1 1090	DB 0AEH,03AH,21,22, 3, 2, 2, 1,10, 3,18, 3,26, 2,34, 1,33
809E	3A		
809F	15		
80A0	16		
80A1	03		
80A2	02		
80A3	02		
80A4	01		
80A5	0A		
80A6	03		
80A7	12		
80A8	03		
80A9	1A		
80AA	02		
80AB	22		
80AC	01		

LOC	OBJ	LINE	SOURCE
8DAD	21		
8DAE	02	=1 1091	DB 2,41, 2,49, 2,57, 3
8DAF	29		
8DB0	02		
8DB1	31		
8DB2	02		
8DB3	39		
8DB4	03		
8DB5	CE	=1 1092	DB 0CEH,03AH, 7,24, 0, 2, 8, 2,16, 2,24, 1
8DB6	3A		
8DB7	07		
8DB8	18		
8DB9	00		
8DBA	02		
8DBB	08		
8DBC	02		
8DBD	10		
8DBE	02		
8DBF	18		
8DC0	01		
8DC1	CD	=1 1093	DB 0CDH,03AH, 8,12,-1, 7,62, 1
8DC2	3A		
8DC3	08		
8DC4	0C		
8DC5	FF		
8DC6	07		
8DC7	3E		
8DC8	01		
8DC9	ED	=1 1094	DB 0EDH,03AH,12, 8, 6, 2,14, 1,22, 2,29, 1,37, 2,45, 1,53, 1,52, 1
8DCA	3A		
8DCB	0C		
8DCC	08		
8CDC	06		
8DCE	02		
8DCF	0E		
8DD0	01		
8DD1	16		
8DD2	02		
8DD3	1D		
8DD4	01		
8DD5	25		
8DD6	02		
8DD7	2D		
8DD8	01		
8DD9	35		
8DDA	01		
8DDB	34		
8DDC	01		
8DDD	3C	=1 1095	DB 60, 1
8DDE	01		
8DDF	0D	=1 1096	DB 00DH,03BH, 9,22, 4, 1,12, 1,20, 1,19, 1,27, 1,35, 1,43, 1,51, 1
8DE0	3B		
8DE1	09		
8DE2	16		
8DE3	04		

LOC	OBJ	LINE	SOURCE
8DE4	01		
8DE5	0C		
8DE6	01		
8DE7	14		
8DE8	01		
8DE9	13		
8DEA	01		
8DEB	1B		
8DEC	01		
8DED	23		
8DEE	01		
8DEF	2B		
8DF0	01		
8DF1	33		
8DF2	01		
8DF3	3A	=1 1097	DB 58, 1
8DF4	01		
8DF5	2D	=1 1098	DB 02DH,03BH, 8,22, 2, 2,10, 1,17, 1,25, 1,33, 1,48, 1,56, 1
8DF6	3B		
8DF7	08		
8DF8	16		
8DF9	02		
8DFA	02		
8DFB	0A		
8DFC	01		
8DFD	11		
8DFE	01		
8DFF	19		
8E00	01		
8E01	21		
8E02	01		
8E03	30		
8E04	01		
8E05	38		
8E06	01		
8E07	4D	=1 1099	DB 04DH,03BH, 2,18, 0, 1, 8, 1
8E08	3B		
8E09	02		
8E0A	12		
8E0B	00		
8E0C	01		
8E0D	08		
8E0E	01		
8E0F	4C	=1 1100	DB 04CH,03BH, 5, 8,-1, 3,54, 1,62, 1
8E10	3B		
8E11	05		
8E12	08		
8E13	FF		
8E14	03		
8E15	36		
8E16	01		
8E17	3E		
8E18	01		
8E19	6C	=1 1101	DB 06CH,03BH, 5,10, 6, 1,21, 1,29, 1,44, 1,52, 1
8E1A	3B		

LOC OBJ

LINE

SOURCE

8E1B 05
8E1C 0A
8E1D 06
8E1E 01
8E1F 15
8E20 01
8E21 1D
8E22 01
8E23 2C
8E24 01
8E25 34
8E26 01
8E27 8C =1 1102 DB 08CH,03BH, 5,14, 4, 1,11, 1,27, 1,42, 1,58, 1
8E28 3B
8E29 05
8E2A 0E
8E2B 04
8E2C 01
8E2D 0B
8E2E 01
8E2F 1B
8E30 01
8E31 2A
8E32 01
8E33 3A
8E34 01
8E35 AC =1 1103 DB 0ACh,03BH, 4,14, 1, 1,17, 1,32, 1,48, 1
8E36 3B
8E37 04
8E38 0E
8E39 01
8E3A 01
8E3B 11
8E3C 01
8E3D 20
8E3E 01
8E3F 30
8E40 01
8E41 8D =1 1104
=1 1105
=1 1106 ; STAR PATH # 37
=1 1107
8E41 =1 1108 STAR_PATH37 LABEL BYTE
8E42 39
8E43 2C
8E44 0C
8E45 3B
8E46 0B
8E47 3A
8E48 0A
8E49 32
8E4A 03
8E4B 31
8E41 =1 1109
8E41 =1 1110 DB 08DH,039H,44,12,59, 8,58,10,50, 3,49,12,40,11

LOC	OBJ	LINE	SOURCE
8E4C	0C		
8E4D	28		
8E4E	0B		
8E4F	8C	=1 1111	DB 08CH,039H,56,14,-1,10,38, 6,30, 4,29, 7,21, 1,20, 9,19, 1,11, 6
8E50	39		
8E51	38		
8E52	0E		
8E53	FF		
8E54	0A		
8E55	26		
8E56	06		
8E57	1E		
8E58	04		
8E59	1D		
8E5A	07		
8E5B	15		
8E5C	01		
8E5D	14		
8E5E	09		
8E5F	13		
8E60	01		
8E61	0B		
8E62	06		
8E63	0A	=1 1112	DB 10, 3, 2, 4, 1, 5
8E64	03		
8E65	02		
8E66	04		
8E67	01		
8E68	05		
8E69	6C	=1 1113	DB 06CH,039H, 8,26,57, 2,56, 6
8E6A	39		
8E6B	08		
8E6C	1A		
8E6D	39		
8E6E	02		
8E6F	38		
8E70	06		
8E71	6B	=1 1114	DB 06BH,039H,38, 8,-1, 6,54, 1,46, 4,45, 3,37, 2,36, 4,28, 1,27, 5
8E72	39		
8E73	26		
8E74	0B		
8E75	FF		
8E76	06		
8E77	36		
8E78	01		
8E79	2E		
8E7A	04		
8E7B	2D		
8E7C	03		
8E7D	25		
8E7E	02		
8E7F	24		
8E80	04		
8E81	1C		
8E82	01		

LOC	OBJ	LINE	SOURCE
8E83	1B		
8E84	05		
8E85	12	=1 1115	DB 18, 4, 17, 2, 9, 2, 8, 3, 0, 1
8E86	04		
8E87	11		
8E88	02		
8E89	09		
8E8A	02		
8E8B	08		
8E8C	03		
8E8D	00		
8E8E	01		
8E8F	6A	=1 1116	DB 06AH, 039H, 4, 30, -1, 4
8E90	39		
8E91	04		
8E92	1E		
8E93	FF		
8E94	04		
8E95	4A	=1 1117	DB 04AH, 039H, 22, 6, 62, 4, 53, 3, 52, 2, 44, 1, 43, 3, 34, 3, 25, 3, 24, 1
8E96	39		
8E97	16		
8E98	06		
8E99	3E		
8E9A	04		
8E9B	35		
8E9C	03		
8E9D	34		
8E9E	02		
8E9F	2C		
8EA0	01		
8EA1	2B		
8EA2	03		
8EA3	22		
8EA4	03		
8EA5	19		
8EA6	03		
8EA7	18		
8EA8	01		
8EA9	10	=1 1118	DB 16, 2
8EA9	02		
8EB0	49	=1 1119	DB 049H, 039H, 8, 22, -1, 2, 14, 3, 5, 2, 4, 1
8EAC	39		
8EAD	08		
8EAE	16		
8EAF	FF		
8EB0	02		
8EB1	0E		
8EB2	03		
8EB3	05		
8EB4	02		
8EB5	04		
8EB6	01		
8EB7	29	=1 1120	DB 029H, 039H, 10, 12, 60, 2, 59, 1, 51, 1, 50, 1, 42, 1, 41, 2, 32, 2
8EB8	39		
8EB9	0A		

LOC	OBJ	LINE	SOURCE
8EBA	0C		
8EBB	3C		
8EBC	02		
8EBD	3B		
8EBE	01		
8EBF	33		
8EC0	01		
8EC1	32		
8EC2	01		
8EC3	2A		
8EC4	01		
8EC5	29		
8EC6	02		
8EC7	20		
8EC8	02		
8EC9	28	=1 1121	DB 028H,039H,10,18,-1, 2,30, 1,22, 1,21, 1,13, 1,12, 1,11, 1, 3, 1
8ECA	39		
8ECD	0A		
8ECC	12		
8ECD	FF		
8ECE	02		
8ECF	1E		
8ED0	01		
8ED1	16		
8ED2	01		
8ED3	15		
8ED4	01		
8ED5	0D		
8ED6	01		
8ED7	0C		
8ED8	01		
8ED9	08		
8EDA	01		
8EDB	03		
8EDC	01		
8EDD	02	=1 1122	DB 2, 1
8EDE	01		
8EDF	08	=1 1123	DB 008H,039H, 4,22,58, 1,57, 1,48, 2
8EE0	39		
8EE1	04		
8EE2	16		
8EE3	3A		
8EE4	01		
8EE5	39		
8EE6	01		
8EE7	30		
8EE8	02		
8EE9	07	=1 1124	DB 007H,039H,10,10,-1, 1,46, 1,38, 1,29, 1,28, 1,19, 2,10, 1, 1, 1
8EEA	39		
8EEB	0A		
8EEC	0A		
8EED	FF		
8EEE	01		
8EEF	2E		
8EFO	01		

LOC	OBJ	LINE	SOURCE
8EF1	26		
8EF2	01		
8EF3	1D		
8EF4	01		
8EF5	1C		
8EF6	01		
8EF7	13		
8EF8	02		
8EF9	0A		
8EFA	01		
8EFB	01		
8EFC	01		
8EFD	00	=1 1125	DB 0, 1
8EFE	01		
BEFF	E6	=1 1126	DB 0E6H,038H, 9,22,-1, 2,54, 1,45, 1,36, 1,35, 1,26, 1,17, 1, 8, 1
BF00	38		
BF01	09		
BF02	16		
BF03	FF		
BF04	02		
BF05	36		
BF06	01		
BF07	2D		
BF08	01		
BF09	24		
BF0A	01		
BF0B	23		
BF0C	01		
BF0D	1A		
BF0E	01		
BF0F	11		
BF10	01		
BF11	08		
BF12	01		
BF13	E5	=1 1127	DB 0E5H,038H, 2,20,-1, 1, 6, 1
BF14	38		
BF15	02		
BF16	14		
BF17	FF		
BF18	01		
BF19	06		
BF1A	01		
BF1B	C5	=1 1128	DB 0C5H,038H, 5, 8,61, 1,52, 1,42, 1,33, 1,24, 1
BF1C	38		
BF1D	05		
BF1E	08		
BF1F	3D		
BF20	01		
BF21	34		
BF22	01		
BF23	2A		
BF24	01		
BF25	21		
BF26	01		
BF27	18		

LOC	OBJ	LINE	SOURCE
8F28	01		
8F29	C4	=1 1129	DB 0C4H,03BH, 3,14,-1, 1,13, 1, 4, 1
8F2A	38		
8F2B	03		
8F2C	0E		
8F2D	FF		
8F2E	01		
8F2F	0D		
8F30	01		
8F31	04		
8F32	01		
8F33	A4	=1 1130	DB 0A4H,03BH, 3,10,59, 1,49, 1,40, 1
8F34	38		
8F35	03		
8F36	0A		
8F37	3B		
8F38	01		
8F39	31		
8F3A	01		
8F3B	28		
8F3C	01		
8F3D	A3	=1 1131	DB 0A3H,03BH, 4,10,30, 1,21, 1,11, 1, 1, 1
8F3E	38		
8F3F	04		
8F40	0A		
8F41	1E		
8F42	01		
8F43	15		
8F44	01		
8F45	0B		
8F46	01		
8F47	01		
8F48	01		
8F49	83	=1 1132	DB 083H,03BH, 1,12,48, 1
8F4A	38		
8F4B	01		
8F4C	0C		
8F4D	30		
8F4E	01		
8F4F	82	=1 1133	DB 082H,03BH, 4, 6,46, 1,28, 1,18, 1, 0, 1
8F50	38		
8F51	04		
8F52	06		
8F53	2E		
8F54	01		
8F55	1C		
8F56	01		
8F57	12		
8F58	01		
8F59	00		
8F5A	01		
		=1 1134	
		=1 1135	
		=1 1136 ;	STAR PATH # 38
		=1 1137	

LOC	OBJ	LINE	SOURCE
8F5B		=1 1138	STAR_PATH38
		=1 1139	LABEL BYTE
8F5B	B3	=1 1140	DB 0B3H,039H,37,12, 8, 8, 9,11, 2,11, 3, 7
8F5C	39		
8F5D	25		
8F5E	0C		
8F5F	08		
8F60	08		
8F61	09		
8F62	08		
8F63	02		
8F64	08		
8F65	03		
8F66	07		
8F67	93	=1 1141	DB 093H,039H,35,12,59, 3,60, 9,61, 3,53, 5,54, 8,-1, 7
8F68	39		
8F69	23		
8F6A	0C		
8F6B	3B		
8F6C	03		
8F6D	3C		
8F6E	09		
8F6F	3D		
8F70	03		
8F71	35		
8F72	05		
8F73	36		
8F74	08		
8F75	FF		
8F76	07		
8F77	94	=1 1142	DB 094H,039H,46,16,40, 6,32, 1,33, 7,34, 4,26, 2,27, 6,28, 2,20, 3
8F78	39		
8F79	2E		
8F7A	10		
8F7B	28		
8F7C	06		
8F7D	20		
8F7E	01		
8F7F	21		
8F80	07		
8F81	22		
8F82	04		
8F83	1A		
8F84	02		
8F85	1B		
8F86	06		
8F87	1C		
8F88	02		
8F89	14		
8F8A	03		
8F8B	15	=1 1143	DB 21, 5,22, 1,14, 4,-1, 5
8F8C	05		
8F8D	16		
8F8E	01		
8F8F	0E		

LOC	OBJ	LINE	SOURCE
8F90	04		
8F91	FF		
8F92	05		
8F93	95	=1 1144	DB 095H,039H, 7,28, 0, 4, 1, 3
8F94	39		
8F95	07		
8F96	1C		
8F97	00		
8F98	04		
8F99	01		
8F9A	03		
8F9B	75	=1 1145	DB 075H,039H,23, 8,57, 2,58, 4,59, 1,51, 2,52, 4,45, 4,46, 2,38, 1
8F9C	39		
8F9D	17		
8F9E	08		
8F9F	39		
8FA0	02		
8FA1	3A		
8FA2	04		
8FA3	3B		
8FA4	01		
8FA5	33		
8FA6	02		
8FA7	34		
8FA8	04		
8FA9	2D		
8FAA	04		
8FAB	2E		
8FAC	02		
8FAD	26		
8FAE	01		
8FAF	FF	=1 1146	DB -1, 3
8FB0	03		
8FB1	76	=1 1147	DB 076H,039H,22,22,32, 2,24, 1,25, 3,26, 1,18, 2,19, 3,12, 3,13, 1
8FB2	39		
8FB3	16		
8FB4	16		
8FB5	20		
8FB6	02		
8FB7	18		
8FB8	01		
8FB9	19		
8FB8A	03		
8FB8B	1A		
8FB8C	01		
8FB8D	12		
8FB8E	02		
8FB8F	13		
8FC0	03		
8FC1	0C		
8FC2	03		
8FC3	0D		
8FC4	01		
8FC5	05	=1 1148	DB 5, 1, 6, 3,-1, 2
8FC6	01		

LOC	OBJ	LINE	SOURCE
8FC7	06		
8FC8	03		
8FC9	FF		
8FCA	02		
8FCB	57	=1 1149	DB 057H,039H,16,26,56, 2,57, 1,49, 2,50, 1,42, 1,43, 2,44, 1,36, 1
8FCC	39		
8FCD	10		
8FCE	1A		
8FCF	38		
8FD0	02		
8FD1	39		
8FD2	01		
8FD3	31		
8FD4	02		
8FD5	32		
8FD6	01		
8FD7	2A		
8FD8	01		
8FD9	2B		
8FDA	02		
8FDB	2C		
8FDC	01		
8FDD	24		
8FDE	01		
8FDF	25	=1 1150	DB 37, 2,30, 2,-1, 1
8FE0	02		
8FE1	1E		
8FE2	02		
8FE3	FF		
8FE4	01		
8FE5	58	=1 1151	DB 058H,039H, 9,26,16, 2,17, 1, 9, 1,10, 1,11, 1, 3, 1, 4, 2
8FE6	39		
8FE7	09		
8FE8	1A		
8FE9	10		
8FEA	02		
8FEB	11		
8FEC	01		
8FED	09		
8FEE	01		
8FEF	0A		
8FF0	01		
8FF1	0B		
8FF2	01		
8FF3	03		
8FF4	01		
8FF5	04		
8FF6	02		
8FF7	38	=1 1152	DB 038H,039H, 4,18,61, 1,62, 2,-1, 1
8FF8	39		
8FF9	04		
8FFA	12		
8FFB	30		
8FFC	01		
8FFD	3E		

LOC	OBJ	LINE	SOURCE
BFFE	02		
BFFF	FF		
9000	01		
9001	39	=1 1153	DB 039H,039H,10,10,48, 1,41, 2,34, 1,35, 1,36, 1,28, 1,29, 1,22, 1
9002	39		
9003	0A		
9004	0A		
9005	30		
9006	01		
9007	29		
9008	02		
9009	22		
900A	01		
900B	23		
900C	01		
900D	24		
900E	01		
900F	1C		
9010	01		
9011	1D		
9012	01		
9013	16		
9014	01		
9015	FF	=1 1154	DB -1, 1
9016	01		
9017	3A	=1 1155	DB 03AH,039H, 4,22, 8, 1, 9, 1, 2, 1, 3, 1
9018	39		
9019	04		
901A	16		
901B	08		
901C	01		
901D	09		
901E	01		
901F	02		
9020	01		
9021	03		
9022	01		
9023	1A	=1 1156	DB 01AH,039H, 4,12,59, 1,52, 1,53, 1,46, 1
9024	39		
9025	04		
9026	0C		
9027	3B		
9028	01		
9029	34		
902A	01		
902B	35		
902C	01		
902D	2E		
902E	01		
902F	1B	=1 1157	DB 01BH,039H, 7,12,40, 1,33, 1,26, 1,27, 1,20, 1,13, 1,14, 1
9030	39		
9031	07		
9032	0C		
9033	28		
9034	01		

LOC	OBJ	LINE	SOURCE
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9035	21		
9036	01		
9037	1A		
9038	01		
9039	1B		
903A	01		
903B	14		
903C	01		
903D	00		
903E	01		
903F	0E		
9040	01		
9041	1C	=1 1158	DB 01CH,039H, 1,18, 0, 1
9042	39		
9043	01		
9044	12		
9045	00		
9046	01		
9047	FC	=1 1159	DB 0FCH,038H, 5, 6,57, 1,50, 1,52, 1,45, 1,38, 1
9048	38		
9049	05		
904A	06		
904B	39		
904C	01		
904D	32		
904E	01		
904F	34		
9050	01		
9051	2D		
9052	01		
9053	26		
9054	01		
9055	FD	=1 1160	DB 0FDH,038H, 5,14,24, 1,17, 1,11, 1,13, 1, 6, 1
9056	38		
9057	05		
9058	0E		
9059	18		
905A	01		
905B	11		
905C	01		
905D	08		
905E	01		
905F	00		
9060	01		
9061	06		
9062	01		
		=1 1161	
		=1 1162	
		=1 1163 ;	STAR PATH # 39
		=1 1164	
9063		=1 1165	STAR_PATH39 LABEL BYTE
		=1 1166	
9063	70	=1 1167	DB 070H,03AH,57,14, 3, 5, 4, 4,12, 8,20, 8,28, 7,36, 7,44, 6,52, 6
9064	3A		
9065	39		

LOC	OBJ	LINE	SOURCE
9066	0E		
9067	03		
9068	05		
9069	04		
906A	04		
906B	0C		
906C	08		
906D	14		
906E	08		
906F	1C		
9070	07		
9071	24		
9072	07		
9073	2C		
9074	06		
9075	34		
9076	06		
9077	3C	=1 1168	DB 60, 6
9078	06		
9079	90	=1 1169	DB 090H,03AH,37,22, 4, 4, 5, 1,13, 6,21, 5,29, 4,37, 5,45, 4,53, 4
907A	3A		
907B	25		
907C	16		
907D	04		
907E	04		
907F	05		
9080	01		
9081	00		
9082	06		
9083	15		
9084	05		
9085	1D		
9086	04		
9087	25		
9088	05		
9089	2D		
908A	04		
908B	35		
908C	04		
908D	3D	=1 1170	DB 61, 4
908E	04		
908F	B0	=1 1171	DB 0B0H,03AH,27,22, 5, 4,14, 4,22, 4,30, 3,38, 3,46, 3,54, 3,62, 3
9090	3A		
9091	1B		
9092	16		
9093	05		
9094	04		
9095	0E		
9096	04		
9097	16		
9098	04		
9099	1E		
909A	03		
909B	26		
909C	03		

LOC	OBJ	LINE	SOURCE
909D	2E		
909E	03		
909F	36		
90A0	03		
90A1	3E		
90A2	03		
90A3	D0	=1 1172	DB 0D0H,03AH,23,20, 6, 3,-1,20
90A4	3A		
90A5	17		
90A6	14		
90A7	06		
90A8	03		
90A9	FF		
90AA	14		
90AB	F1	=1 1173	DB 0F1H,03AH,13, 8, 8, 2,16, 2,24, 2,32, 2,40, 2,48, 1,56, 2
90AC	3A		
90AD	0D		
90AE	08		
90AF	08		
90B0	02		
90B1	10		
90B2	02		
90B3	18		
90B4	02		
90B5	20		
90B6	02		
90B7	28		
90B8	02		
90B9	30		
90BA	01		
90BB	38		
90BC	02		
90BD	11	=1 1174	DB 011H,03BH,13,18, 0, 2, 9, 2,17, 1,25, 2,33, 1,41, 2,49, 1,57, 2
90BE	3B		
90BF	0D		
90C0	12		
90C1	00		
90C2	02		
90C3	09		
90C4	02		
90C5	11		
90C6	01		
90C7	19		
90CB	02		
90C9	21		
90CA	01		
90CB	29		
90CC	02		
90CD	31		
90CE	01		
90CF	39		
90D0	02		
90D1	31	=1 1175	DB 031H,03BH,10,20, 1, 1, 9, 1,18, 2,26, 1,34, 1,42, 2,50, 1,58, 1
90D2	3B		
90D3	0A		

LOC	OBJ	LINE	SOURCE
90D4	14		
90D5	01		
90D6	01		
90D7	09		
90D8	01		
90D9	12		
90DA	02		
90DB	1A		
90DC	01		
90DD	22		
90DE	01		
90DF	2A		
90E0	02		
90E1	32		
90E2	01		
90E3	3A		
90E4	01		
90E5	51	=1 1176	DB 051H,03BH, 8,20, 2, 1,10, 1,19, 1,27, 1,35, 1,43, 1,51, 1,59, 1
90E6	3B		
90E7	08		
90EB	14		
90E9	02		
90EA	01		
90EB	04		
90EC	01		
90ED	13		
90EE	01		
90EF	18		
90F0	01		
90F1	23		
90F2	01		
90F3	2B		
90F4	01		
90F5	33		
90F6	01		
90F7	3B		
90FB	01		
90F9	71	=1 1177	DB 071H,03BH, 8,20, 3, 1,11, 1,20, 1,28, 1,36, 1,44, 1,52, 1,60, 1
90FA	3B		
90FB	08		
90FC	14		
90FD	03		
90FE	01		
90FF	08		
9100	01		
9101	14		
9102	01		
9103	1C		
9104	01		
9105	24		
9106	01		
9107	2C		
9108	01		
9109	34		
910A	01		

LOC	OBJ	LINE	SOURCE
910B	3C		
910C	01		
910D	91	=1 1178	DB 091H,03BH, 6,20, 4, 1,21, 1,29, 1,37, 1,53, 1,61, 1
910E	3B		
910F	06		
9110	14		
9111	04		
9112	01		
9113	15		
9114	01		
9115	1D		
9116	01		
9117	25		
9118	01		
9119	35		
911A	01		
911B	3D		
911C	01		
911D	B1	=1 1179	DB 0B1H,03BH, 5,16, 5, 1,22, 1,30, 1,46, 1,54, 1
911E	3B		
911F	05		
9120	10		
9121	05		
9122	01		
9123	16		
9124	01		
9125	1E		
9126	01		
9127	2E		
9128	01		
9129	36		
912A	01		
		=1 1180	
		=1 1181	
		=1 1182 ;	STAR PATH # 40
		=1 1183	
912B		=1 1184	STAR_PATH40 LABEL BYTE
		=1 1185	
912B	AB	=1 1186	DB 0ABH,039H,59,14,-1, 9,62, 5,54, 4,53, 7,52, 8,51, 7,50, 2,42, 5
912C	39		
912D	3B		
912E	0E		
912F	FF		
9130	09		
9131	3E		
9132	05		
9133	36		
9134	04		
9135	35		
9136	07		
9137	34		
9138	08		
9139	33		
913A	07		
913B	32		

LOC	OBJ	LINE	SOURCE
913C	02		
913D	2A		
913E	05		
913F	29	=1 1187	DB 41, 6,40, 6
9140	06		
9141	28		
9142	06		
9143	AA	=1 1188	DB 0AAH,039H,39,24,-1, 6,38, 5,37, 5,36, 5,35, 4,27, 1,26, 5,25, 4
9144	39		
9145	27		
9146	18		
9147	FF		
9148	06		
9149	26		
914A	05		
914B	25		
914C	05		
914D	24		
914E	05		
914F	23		
9150	04		
9151	1B		
9152	01		
9153	1A		
9154	05		
9155	19		
9156	04		
9157	18	=1 1189	DB 24, 4
9158	04		
9159	A9	=1 1190	DB 0A9H,039H,28,22,-1, 4,22, 4,21, 4,20, 3,19, 1,11, 3,10, 3, 9, 3
915A	39		
915B	1C		
915C	16		
915D	FF		
915E	04		
915F	16		
9160	04		
9161	15		
9162	04		
9163	14		
9164	03		
9165	13		
9166	01		
9167	0B		
9168	03		
9169	0A		
916A	03		
916B	09		
916C	03		
916D	08	=1 1191	DB 8, 3
916E	03		
916F	AB	=1 1192	DB 0ABH,039H,11,22,-1, 3, 6, 3, 5, 3, 4, 2
9170	39		
9171	0B		
9172	16		

LOC	OBJ	LINE	SOURCE
9173	FF		
9174	03		
9175	06		
9176	03		
9177	05		
9178	03		
9179	04		
917A	02		
917B	88	=1 1193	DB 088H,039H,10,12,60, 1,59, 2,58, 3,57, 2,56, 1,48, 1
917C	39		
917D	0A		
917E	0C		
917F	3C		
9180	01		
9181	3B		
9182	02		
9183	3A		
9184	03		
9185	39		
9186	02		
9187	3B		
9188	01		
9189	30		
918A	01		
918B	87	=1 1194	DB 087H,039H,17,16,-1, 3,54, 2,53, 2,44, 2,43, 2,42, 2,41, 2,32, 2
918C	39		
918D	11		
918E	10		
918F	FF		
9190	03		
9191	36		
9192	02		
9193	35		
9194	02		
9195	2C		
9196	02		
9197	2B		
9198	02		
9199	2A		
919A	02		
919B	29		
919C	02		
919D	20		
919E	02		
919F	86	=1 1195	DB 086H,039H,13,20,-1, 1,38, 2,37, 1,29, 1,28, 2,27, 1,26, 2,17, 1
91A0	39		
91A1	0D		
91A2	14		
91A3	FF		
91A4	01		
91A5	26		
91A6	02		
91A7	25		
91A8	01		
91A9	1D		

LOC	OBJ	LINE	SOURCE
91AA	01		
91AB	1C		
91AC	02		
91AD	1B		
91AE	01		
91AF	1A		
91B0	02		
91B1	11		
91B2	01		
91B3	10	=1 1196	DB 16, 2
91B4	02		
91B5	85	=1 1197	DB 085H,039H,10,22,-1, 1,22, 2,13, 1,12, 1,11, 2,10, 1, 1, 1, 0, 1
91B6	39		
91B7	0A		
91B8	16		
91B9	FF		
91BA	01		
91BB	16		
91BC	02		
91BD	00		
91BE	01		
91BF	0C		
91C0	01		
91C1	0B		
91C2	02		
91C3	0A		
91C4	01		
91C5	01		
91C6	01		
91C7	00		
91C8	01		
91C9	84	=1 1198	DB 084H,039H, 2,20,-1, 2
91CA	39		
91CB	02		
91CC	14		
91CD	FF		
91CE	02		
91CF	64	=1 1199	DB 064H,039H, 7, 6,62, 1,61, 1,60, 1,59, 1,58, 1,49, 1,48, 1
91D0	39		
91D1	07		
91D2	06		
91D3	3E		
91D4	01		
91D5	3D		
91D6	01		
91D7	3C		
91D8	01		
91D9	3B		
91DA	01		
91DB	3A		
91DC	01		
91DD	31		
91DE	01		
91DF	30		
91E0	01		

LOC	OBJ	LINE	SOURCE
91E1	63	=1 1200	DB 063H,039H, 8,18,-1, 1,46, 1,45, 1,44, 1,43, 1,34, 1,33, 1,32, 1
91E2	39		
91E3	08		
91E4	12		
91E5	FF		
91E6	01		
91E7	2E		
91E8	01		
91E9	2D		
91EA	01		
91EB	2C		
91EC	01		
91ED	2B		
91EE	01		
91EF	22		
91F0	01		
91F1	21		
91F2	01		
91F3	20		
91F4	01		
91F5	62	=1 1201	DB 062H,039H, 6,20,-1, 1,30, 1,28, 1,19, 1,18, 1,17, 1
91F6	39		
91F7	06		
91F8	14		
91F9	FF		
91FA	01		
91FB	1E		
91FC	01		
91FD	1C		
91FE	01		
91FF	13		
9200	01		
9201	12		
9202	01		
9203	11		
9204	01		
9205	61	=1 1202	DB 061H,039H, 6,16,-1, 1,14, 1,13, 1, 3, 1, 2, 1, 0, 1
9206	39		
9207	06		
9208	10		
9209	FF		
920A	01		
920B	0E		
920C	01		
920D	00		
920E	01		
920F	03		
9210	01		
9211	02		
9212	01		
9213	00		
9214	01		
		=1 1203	
		=1 1204	
		=1 1205 ;	STAR PATH # 41

LOC	OBJ	LINE	SOURCE
		=1 1206	
9215		=1 1207	STAR_PATH41 LABEL BYTE
		=1 1208	
9215	72	=1 1209	DB 072H,039H,34,16,37, 8,29, 1,30, 9,22, 4,-1,12
9216	39		
9217	22		
9218	10		
9219	25		
921A	08		
921B	1D		
921C	01		
921D	1E		
921E	09		
921F	16		
9220	04		
9221	FF		
9222	0C		
9223	73	=1 1210	DB 073H,039H,10,14, 8, 2, 0, 8
9224	39		
9225	0A		
9226	0E		
9227	08		
9228	02		
9229	00		
922A	08		
922B	53	=1 1211	DB 053H,039H,56, 8,57, 8,49, 2,50, 5,42, 4,43, 3,35, 6,36, 1,28, 6
922C	39		
922D	38		
922E	08		
922F	39		
9230	08		
9231	31		
9232	02		
9233	32		
9234	05		
9235	2A		
9236	04		
9237	2B		
9238	03		
9239	23		
923A	06		
923B	24		
923C	01		
923D	1C		
923E	06		
923F	14	=1 1212	DB 20, 1,21, 5,13, 2,14, 3, 6, 4,-1, 6
9240	01		
9241	15		
9242	05		
9243	0D		
9244	02		
9245	0E		
9246	03		
9247	06		
9248	04		

LOC	OBJ	LINE	SOURCE
9249	FF		
924A	06		
924B	34	=1 1213	DB 034H,039H,30,32,48, 5,40, 1,41, 4,33, 2,34, 2,26, 3,27, 1,19, 4
924C	39		
924D	1E		
924E	20		
924F	30		
9250	05		
9251	28		
9252	01		
9253	29		
9254	04		
9255	21		
9256	02		
9257	22		
9258	02		
9259	1A		
925A	03		
925B	1B		
925C	01		
925D	13		
925E	04		
925F	08	=1 1214	DB 11, 1,12, 3, 4, 1, 5, 3
9260	01		
9261	0C		
9262	03		
9263	04		
9264	01		
9265	05		
9266	03		
9267	14	=1 1215	DB 014H,039H,10,28,61, 2,62, 1,54, 3,-1, 4
9268	39		
9269	0A		
926A	1C		
926B	3D		
926C	02		
926D	3E		
926E	01		
926F	36		
9270	03		
9271	FF		
9272	04		
9273	15	=1 1216	DB 015H,039H,14,12,32, 3,24, 1,25, 2,17, 2,18, 1,10, 2, 2, 1, 3, 2
9274	39		
9275	0E		
9276	0C		
9277	20		
9278	03		
9279	18		
927A	01		
927B	19		
927C	02		
927D	11		
927E	02		
927F	12		

LOC	OBJ	LINE	SOURCE
9280	01		
9281	0A		
9282	02		
9283	02		
9284	01		
9285	03		
9286	02		
9287	F5	=1 1217	DB 0F5H,038H,13,20,59, 1,60, 2,52, 1,53, 1,45, 2,46, 1,38, 2,-1, 3
9288	38		
9289	0D		
928A	14		
928B	3B		
928C	01		
928D	3C		
928E	02		
928F	34		
9290	01		
9291	35		
9292	01		
9293	2D		
9294	02		
9295	2E		
9296	01		
9297	26		
9298	02		
9299	FF		
929A	03		
929B	F6	=1 1218	DB 0F6H,038H, 5,20,16, 1, 8, 2, 1, 2
929C	38		
929D	05		
929E	14		
929F	10		
92A0	01		
92A1	08		
92A2	02		
92A3	01		
92A4	02		
92A5	D6	=1 1219	DB 0D6H,038H,14,10,58, 2,50, 1,51, 1,43, 1,44, 1,36, 2,29, 2,22, 1
92A6	38		
92A7	0E		
92A8	08		
92A9	3A		
92AA	02		
92AB	32		
92AC	01		
92AD	33		
92AE	01		
92AF	2B		
92B0	01		
92B1	2C		
92B2	01		
92B3	24		
92B4	02		
92B5	1D		
92B6	02		

LOC	OBJ	LINE	SOURCE
92B7	16		
92B8	01		
92B9	0E	=1 1220	DB 14, 1,-1, 2
92BA	01		
92BB	FF		
92BC	02		
92BD	07	=1 1221	DB 0D7H,038H, 1,24, 0, 1
92BE	38		
92BF	01		
92C0	13		
92C1	00		
92C2	01		
92C3	87	=1 1222	DB 0B7H,038H,11, 6,56, 1,49, 2,42, 1,34, 1,35, 1,27, 1,20, 1,13, 2
92C4	38		
92C5	08		
92C6	06		
92C7	38		
92C8	01		
92C9	31		
92CA	02		
92CB	2A		
92CC	01		
92CD	22		
92CE	01		
92CF	23		
92D0	01		
92D1	1B		
92D2	01		
92D3	14		
92D4	01		
92D5	0D		
92D6	02		
92D7	06	=1 1223	DB 6, 1
92D8	01		
92D9	97	=1 1224	DB 097H,038H, 2,22,62, 1,-1, 1
92DA	38		
92DB	02		
92DC	16		
92DD	3E		
92DE	01		
92DF	FF		
92E0	01		
92E1	98	=1 1225	DB 098H,038H, 7, 8,40, 2,33, 1,26, 1,18, 1,11, 1, 4, 1
92E2	38		
92E3	07		
92E4	03		
92E5	28		
92E6	02		
92E7	21		
92E8	01		
92E9	1A		
92EA	01		
92EB	12		
92EC	01		
92ED	08		

LOC	OBJ	LINE	SOURCE
92EE	01		
92EF	04		
92F0	01		
92F1	78	=1 1226	DB 078H,038H, 5,16,60, 1,53, 1,46, 1,-1, 2
92F2	38		
92F3	05		
92F4	10		
92F5	3C		
92F6	01		
92F7	35		
92F8	01		
92F9	2E		
92FA	01		
92FB	FF		
92FC	02		
92FD	79	=1 1227	DB 079H,038H, 3,12,16, 1, 9, 1, 2, 1
92FE	38		
92FF	03		
9300	0C		
9301	10		
9302	01		
9303	09		
9304	01		
9305	02		
9306	01		
9307	59	=1 1228	DB 059H,038H, 5,10,59, 1,52, 1,45, 1,30, 1,-1, 1
9308	38		
9309	05		
930A	0A		
930B	3B		
930C	01		
930D	34		
930E	01		
930F	2D		
9310	01		
9311	1E		
9312	01		
9313	FF		
9314	01		
9315	5A	=1 1229	DB 05AH,038H, 2,14, 8, 1, 1, 1
9316	38		
9317	02		
9318	0E		
9319	08		
931A	01		
931B	01		
931C	01		
931D	3A	=1 1230	DB 03AH,038H, 5, 8,50, 1,43, 1,36, 1,21, 1,14, 1
931E	38		
931F	05		
9320	03		
9321	32		
9322	01		
9323	2B		
9324	01		

LOC	OBJ	LINE	SOURCE
9325	24		
9326	01		
9327	15		
9328	01		
9329	0E		
932A	01		
932B	1A	=1 1231	DB 01AH,038H, 1,14,-1, 1
932C	3B		
932D	01		
932E	0E		
932F	FF		
9330	01		
9331	1B	=1 1232	DB 01BH,038H, 4, 6,48, 1,34, 1,19, 1,12, 1
9332	3B		
9333	04		
9334	05		
9335	30		
9336	01		
9337	22		
9338	01		
9339	13		
933A	01		
933B	0C		
933C	01		
		=1 1233	
		=1 1234	
		=1 1235 ;	STAR PATH # 42
		=1 1236	
933D		=1 1237	STAR_PATH42 LABEL BYTE
		=1 1238	
933D	93	=1 1239	DB 093H,03AH,31,12, 8, 2,16, 6,24, 1,25, 4,33, 5,42, 4,50, 4,51, 1
933E	3A		
933F	1F		
9340	0C		
9341	08		
9342	02		
9343	10		
9344	06		
9345	18		
9346	01		
9347	19		
9348	04		
9349	21		
934A	05		
934B	2A		
934C	04		
934D	32		
934E	04		
934F	33		
9350	01		
9351	3B	=1 1240	DB 59, 4
9352	04		
9353	83	=1 1241	DB 083H,03AH,27,22, 3, 2, 4, 2,12, 4,20, 1,21, 3,29, 3,38, 4,46, 2
9354	3A		
9355	1B		

LOC	OBJ	LINE	SOURCE
9356	16		
9357	03		
9358	02		
9359	04		
935A	02		
935B	0C		
935C	04		
935D	14		
935E	01		
935F	15		
9360	03		
9361	1D		
9362	03		
9363	26		
9364	04		
9365	2E		
9366	02		
9367	FF	=1 1242	DB -1, 6
9368	06		
9369	B4	=1 1243	DB 0B4H,03AH, 1,22,56, 1
936A	3A		
936B	01		
936C	16		
936D	38		
936E	01		
936F	D4	=1 1244	DB 0D4H,03AH,22, 6, 0, 3, 8, 1, 9, 2,17, 3,26, 3,34, 1,35, 1,43, 3
9370	3A		
9371	16		
9372	06		
9373	00		
9374	03		
9375	08		
9376	01		
9377	09		
9378	02		
9379	11		
937A	03		
937B	1A		
937C	03		
937D	22		
937E	01		
937F	23		
9380	01		
9381	2B		
9382	03		
9383	33	=1 1245	DB 51, 1,52, 1,60, 3
9384	01		
9385	34		
9386	01		
9387	3C		
9388	03		
9389	F4	=1 1246	DB 0F4H,03AH,11,26, 5, 2,13, 2,22, 3,30, 1,-1, 3
938A	3A		
938B	0B		
938C	1A		

LOC	OBJ	LINE	SOURCE
938D	05		
938E	02		
938F	00		
9390	02		
9391	16		
9392	03		
9393	1E		
9394	01		
9395	FF		
9396	03		
9397	F5	=1 1247	DB 0F5H,03AH, 5,14,40, 2,48, 2,57, 1
9398	3A		
9399	05		
939A	0E		
939B	28		
939C	02		
939D	30		
939E	02		
939F	39		
93A0	01		
93A1	15	=1 1248	DB 015H,03BH,14,10, 1, 2,10, 2,18, 1,19, 1,27, 1,35, 1,36, 1,44, 2
93A2	3B		
93A3	0E		
93A4	0A		
93A5	01		
93A6	02		
93A7	0A		
93A8	02		
93A9	12		
93AA	01		
93AB	13		
93AC	01		
93AD	18		
93AE	01		
93AF	23		
93B0	01		
93B1	24		
93B2	01		
93B3	2C		
93B4	02		
93B5	35	=1 1249	DB 53, 1,61, 1,62, 1
93B6	01		
93B7	3D		
93B8	01		
93B9	3E		
93BA	01		
93BB	35	=1 1250	DB 035H,03BH, 4,26, 6, 1,14, 1,-1, 2
93BC	3B		
93BD	04		
93BE	1A		
93BF	06		
93C0	01		
93C1	0E		
93C2	01		
93C3	FF		

LOC	OBJ	LINE	SOURCE
93C4	02		
93C5	36	=1 1251	DB 036H,03BH, 7,10,24, 1,32, 2,41, 1,49, 1,58, 2
93C6	3B		
93C7	07		
93C8	0A		
93C9	18		
93CA	01		
93CB	20		
93CC	02		
93CD	29		
93CE	01		
93CF	31		
93D0	01		
93D1	3A		
93D2	02		
93D3	56	=1 1252	DB 056H,03BH,10,14, 3, 1,11, 1,20, 1,28, 1,37, 1,45, 1,46, 1,54, 1
93D4	3B		
93D5	0A		
93D6	0E		
93D7	03		
93D8	01		
93D9	0B		
93DA	01		
93DB	14		
93DC	01		
93DD	1C		
93DE	01		
93DF	25		
93E0	01		
93E1	2D		
93E2	01		
93E3	2E		
93E4	01		
93E5	36		
93E6	01		
93E7	FF	=1 1253	DB -1, 2
93E8	02		
93E9	77	=1 1254	DB 077H,03BH, 6,22, 8, 1,17, 1,25, 1,34, 1,42, 1,59, 1
93EA	3B		
93EB	06		
93EC	16		
93ED	08		
93EE	01		
93EF	11		
93F0	01		
93F1	19		
93F2	01		
93F3	22		
93F4	01		
93F5	2A		
93F6	01		
93F7	3B		
93F8	01		
93F9	97	=1 1255	DB 097H,03BH, 6,16, 4, 1,12, 1,21, 1,30, 1,38, 1,-1, 1
93FA	3B		

LOC	OBJ	LINE	SOURCE
93FB	06		
93FC	10		
93FD	04		
93FE	01		
93FF	0C		
9400	01		
9401	15		
9402	01		
9403	1E		
9404	01		
9405	26		
9406	01		
9407	FF		
9408	01		
9409	98	=1 1256	DB 098H,03BH, 1,16,56, 1
940A	3B		
940B	01		
940C	10		
940D	3B		
940E	01		
940F	88	=1 1257	DB 0B8H,03BH, 6, 6, 1, 1,17, 1,26, 1,35, 1,52, 1,61, 1
9410	3B		
9411	06		
9412	06		
9413	01		
9414	01		
9415	11		
9416	01		
9417	1A		
9418	01		
9419	23		
941A	01		
941B	34		
941C	01		
941D	3D		
941E	01		
		=1 1258	
		=1 1259	
		=1 1260 ;	STAR PATH # 43
		=1 1261	
941F		=1 1262	STAR_PATH43 LABEL BYTE
		=1 1263	
		=1 1264	DB 0EAH,039H,48,16,-1, 7,46, 7,45, 6,44, 6,43, 6,42, 6,41, 5,40, 5
9420	39		
9421	30		
9422	10		
9423	FF		
9424	07		
9425	2E		
9426	07		
9427	2D		
9428	06		
9429	2C		
942A	06		
942B	2B		

LOC	OBJ	LINE	SOURCE
942C	06		
942D	2A		
942E	06		
942F	29		
9430	05		
9431	28		
9432	05		
9433	E9	=1 1265	DB 0E9H,039H,35,20,-1, 5,54, 5,53, 4,52, 5,51, 4,50, 4,49, 4,48, 4
9434	39		
9435	23		
9436	14		
9437	FF		
9438	05		
9439	36		
943A	05		
943B	35		
943C	04		
943D	34		
943E	05		
943F	33		
9440	04		
9441	32		
9442	04		
9443	31		
9444	04		
9445	30		
9446	04		
9447	E8	=1 1266	DB 0E8H,039H,26,20,-1, 3,62, 4,61, 3,60, 4,59, 3,58, 3,57, 3,56, 3
9448	39		
9449	1A		
944A	14		
944B	FF		
944C	03		
944D	3E		
944E	04		
944F	3D		
9450	03		
9451	3C		
9452	04		
9453	3B		
9454	03		
9455	3A		
9456	03		
9457	39		
9458	03		
9459	38		
945A	03		
945B	E7	=1 1267	DB 0E7H,039H, 3,20,-1, 3
945C	39		
945D	03		
945E	14		
945F	FF		
9460	03		
9461	07	=1 1268	DB 007H,03AH,17, 6, 6, 2, 5, 3, 4, 2, 3, 3, 2, 2, 1, 3, 0, 2
9462	3A		

LOC	OBJ	LINE	SOURCE
9463	11		
9464	06		
9465	06		
9466	02		
9467	05		
9468	03		
9469	04		
946A	02		
946B	03		
946C	03		
946D	02		
946E	02		
946F	01		
9470	03		
9471	00		
9472	02		
9473	06	=1 1269	DB 006H,03AH,16,18,-1, 2, 6, 1,14, 1,13, 2,12, 2,11, 2,10, 2, 9, 2
9474	3A		
9475	10		
9476	12		
9477	FF		
9478	02		
9479	06		
947A	01		
947B	0E		
947C	01		
947D	0D		
947E	02		
947F	0C		
9480	02		
9481	0B		
9482	02		
9483	0A		
9484	02		
9485	09		
9486	02		
9487	08	=1 1270	DB 8, 2
9488	02		
9489	05	=1 1271	DB 005H,03AH,13,22,-1, 2,14, 1,22, 1,21, 1,20, 2,19, 2,18, 1,17, 2
948A	3A		
948B	0D		
948C	16		
948D	FF		
948E	02		
948F	0E		
9490	01		
9491	16		
9492	01		
9493	15		
9494	01		
9495	14		
9496	02		
9497	13		
9498	02		
9499	12		

LOC	OBJ	LINE	SOURCE
949A	01		
949B	11		
949C	02		
949D	10	=1 1272	DB 16, 1
949E	01		
949F	04	=1 1273	DB 004H,03AH,11,22,-1, 2,22, 1,29, 2,28, 1,27, 1,26, 2,25, 1,24, 1
94A0	3A		
94A1	0B		
94A2	16		
94A3	FF		
94A4	02		
94A5	16		
94A6	01		
94A7	1D		
94A8	02		
94A9	1C		
94AA	01		
94AB	1B		
94AC	01		
94AD	1A		
94AE	02		
94AF	19		
94B0	01		
94B1	18		
94B2	01		
94B3	03	=1 1274	DB 003H,03AH,10,20,-1, 2,38, 1,37, 1,36, 1,35, 1,34, 1,33, 2,32, 1
94B4	3A		
94B5	0A		
94B6	14		
94B7	FF		
94B8	02		
94B9	26		
94BA	01		
94BB	25		
94BC	01		
94BD	24		
94BE	01		
94BF	23		
94C0	01		
94C1	22		
94C2	01		
94C3	21		
94C4	02		
94C5	20		
94C6	01		
94C7	02	=1 1275	DB 002H,03AH, 8,20,-1, 1,38, 1,45, 1,44, 1,43, 1,42, 1,41, 1,40, 1
94C8	3A		
94C9	08		
94CA	14		
94CB	FF		
94CC	01		
94CD	26		
94CE	01		
94CF	2D		
94D0	01		

LOC	OBJ	LINE	SOURCE
94D1	2C		
94D2	01		
94D3	2B		
94D4	01		
94D5	2A		
94D6	01		
94D7	29		
94D8	01		
94D9	2B		
94DA	01		
		=1 1276	
		=1 1277	
		=1 1278 ; STAR PATH # 44	
		=1 1279	
94DB		=1 1280 STAR_PATH44	LABEL BYTE
		=1 1281	
94DB	31	=1 1282 DB	031H,039H,49,20,5B, 7,51, 7,43, 7,35, 6,27, 5,2B, 1,20, 6,12, 5
94DC	39		
94DD	31		
94DE	14		
94DF	3A		
94E0	07		
94E1	33		
94E2	07		
94E3	2B		
94E4	07		
94E5	23		
94E6	06		
94E7	1B		
94E8	05		
94E9	1C		
94EA	01		
94EB	14		
94EC	06		
94ED	0C		
94EE	05		
94EF	04	=1 1283 DB	4,,5
94F0	05		
94F1	11	=1 1284 DB	011H,039H,36,22,60, 3,61, 3,53, 4,45, 5,37, 5,29, 1,30, 3,22, 4
94F2	39		
94F3	24		
94F4	16		
94F5	3C		
94F6	03		
94F7	3D		
94FB	03		
94F9	35		
94FA	04		
94FB	2D		
94FC	05		
94FD	25		
94FE	05		
94FF	1D		
9500	01		
9501	1E		

LOC	OBJ	LINE	SOURCE
9502	03		
9503	16		
9504	04		
9505	0E	=1 1285	DB 14, 4, 6, 4 ,
9506	04		
9507	06		
9508	04		
9509	F1	=1 1286	DB 0F1H,038H,13,24,-1,13
950A	38		
950B	0D		
950C	18		
950D	FF		
950E	0D		
950F	F2	=1 1287	DB 0F2H,038H,14, 6,32, 1,24, 4,16, 3, 8, 3, 0, 1, 1, 2
9510	38		
9511	0E		
9512	06		
9513	20		
9514	01		
9515	18		
9516	04		
9517	10		
9518	03		
9519	08		
951A	03		
951B	00		
951C	01		
951D	01		
951E	02		
951F	02	=1 1288	DB 0D2H,038H,20,16,57, 3,49, 2,41, 3,33, 1,34, 2,26, 2,18, 3,10, 2
9520	38		
9521	14		
9522	10		
9523	39		
9524	03		
9525	31		
9526	02		
9527	29		
9528	03		
9529	21		
952A	01		
952B	22		
952C	02		
952D	1A		
952E	02		
952F	12		
9530	03		
9531	0A		
9532	02		
9533	03	=1 1289	DB 3, 2
9534	02		
9535	82	=1 1290	DB 0B2H,038H,17,22,59, 3,51, 2,43, 1,44, 1,36, 2,28, 2,20, 2,12, 1
9536	38		
9537	11		
9538	16		

LOC	OBJ	LINE	SOURCE
9539	3B		
953A	03		
953B	33		
953C	02		
953D	2B		
953E	01		
953F	2C		
9540	01		
9541	24		
9542	02		
9543	1C		
9544	02		
9545	14		
9546	02		
9547	0C		
9548	01		
9549	0D	=1 1291	DB 13, 1, 5, 2
954A	01		
954B	05		
954C	02		
954D	92	=1 1292	DB 092H,038H,16,24,61, 2,53, 2,46, 1,38, 2,30, 2,22, 1,-1, 6
954E	38		
954F	10		
9550	18		
9551	3D		
9552	02		
9553	35		
9554	02		
9555	2E		
9556	01		
9557	26		
9558	02		
9559	1E		
955A	02		
955B	16		
955C	01		
955D	FF		
955E	06		
955F	73	=1 1293	DB 073H,038H, 9,18,48, 1,40, 1,32, 2,24, 1,17, 1, 9, 2, 1, 1
9560	38		
9561	09		
9562	12		
9563	30		
9564	01		
9565	28		
9566	01		
9567	20		
9568	02		
9569	18		
956A	01		
956B	11		
956C	01		
956D	09		
956E	02		
956F	01		

LOC	OBJ	LINE	SOURCE
9570	01		
9571	53	=1 1294	DB 053H,038H,10,18,57, 1,50, 2,42, 1,34, 1,26, 1,19, 1,11, 1, 3, 2
9572	38		
9573	0A		
9574	12		
9575	39		
9576	01		
9577	32		
9578	02		
9579	2A		
957A	01		
957B	22		
957C	01		
957D	1A		
957E	01		
957F	13		
9580	01		
9581	0B		
9582	01		
9583	03		
9584	02		
9585	33	=1 1295	DB 033H,038H, 8,20,60, 1,52, 1,44, 1,36, 1,29, 1,21, 1,13, 1, 5, 1
9586	38		
9587	08		
9588	14		
9589	3C		
958A	01		
958B	34		
958C	01		
958D	2C		
958E	01		
958F	24		
9590	01		
9591	1D		
9592	01		
9593	15		
9594	01		
9595	0D		
9596	01		
9597	05		
9598	01		
9599	13	=1 1296	DB 013H,038H, 6,20,62, 1,54, 1,46, 1,-1, 3
959A	38		
959B	06		
959C	14		
959D	3E		
959E	01		
959F	36		
95A0	01		
95A1	2E		
95A2	01		
95A3	FF		
95A4	03		
		=1 1297	
		=1 1298	

LOC	OBJ	LINE	SOURCE
		=1 1299	; STAR PATH # 45
		=1 1300	
95A5		=1 1301	STAR_PATH45 LABEL BYTE
		=1 1302	
95A5	54	=1 1303	DB 054H,03AH,44,12,18, 3,26, 4,27, 7,35, 1,36, 8,37, 1,45, 6,46, 3
95A6	3A		
95A7	2C		
95A8	0C		
95A9	12		
95AA	03		
95AB	1A		
95AC	04		
95AD	1B		
95AE	07		
95AF	23		
95B0	01		
95B1	24		
95B2	08		
95B3	25		
95B4	01		
95B5	2D		
95B6	06		
95B7	2E		
95B8	03		
95B9	36	=1 1304	DB 54, 4,-1, 7
95BA	04		
95BB	FF		
95BC	07		
95BD	55	=1 1305	DB 055H,03AH, 6,24,56, 6
95BE	3A		
95BF	06		
95C0	18		
95C1	38		
95C2	06		
95C3	75	=1 1306	DB 075H,03AH,37, 6, 1, 6, 2, 1,10, 5,11, 3,19, 2,20, 4,28, 1,29, 5
95C4	3A		
95C5	25		
95C6	06		
95C7	01		
95C8	06		
95C9	02		
95CA	01		
95CB	0A		
95CC	05		
95CD	0B		
95CE	03		
95CF	13		
95D0	02		
95D1	14		
95D2	04		
95D3	1C		
95D4	01		
95D5	1D		
95D6	05		
95D7	1E	=1 1307	DB 30, 1,38, 4,-1, 5

LOC	OBJ	LINE	SOURCE
95D8	01		
95D9	26		
95DA	04		
95DB	FF		
95DC	05		
95DD	76	=1 1308	DB 076H,03AH,13,26,40, 2,48, 2,49, 4,58, 4,59, 1
95DE	3A		
95DF	0D		
95E0	1A		
95E1	2B		
95E2	02		
95E3	30		
95E4	02		
95E5	31		
95E6	04		
95E7	3A		
95E8	04		
95E9	3B		
95EA	01		
95EB	96	=1 1309	DB 096H,03AH,17,14, 3, 3, 4, 2,12, 2,13, 2,21, 1,22, 4,-1, 3
95EC	3A		
95ED	11		
95EE	0E		
95EF	03		
95F0	03		
95F1	04		
95F2	02		
95F3	0C		
95F4	02		
95F5	0D		
95F6	02		
95F7	15		
95F8	01		
95F9	16		
95FA	04		
95FB	FF		
95FC	03		
95FD	97	=1 1310	DB 097H,03AH,16,18,24, 1,32, 2,33, 2,41, 1,42, 3,51, 3,52, 1,60, 2
95FE	3A		
95FF	10		
9600	12		
9601	1B		
9602	01		
9603	20		
9604	02		
9605	21		
9606	02		
9607	29		
9608	01		
9609	2A		
960A	03		
960B	33		
960C	03		
960D	34		
960E	01		

LOC	OBJ	LINE	SOURCE
960F	3C		
9610	02		
9611	3D	=1 1311	DB 61, 1
9612	01		
9613	87	=1 1312	DB 0B7H,03AH, 7,22, 5, 2, 6, 2,14, 1,-1, 2
9614	3A		
9615	07		
9616	16		
9617	05		
9618	02		
9619	06		
961A	02		
961B	0E		
961C	01		
961D	FF		
961E	02		
961F	B8	=1 1313	DB 0B8H,03AH,18,12,16, 3,25, 2,26, 1,34, 1,35, 2,44, 3,53, 2,54, 1
9620	3A		
9621	12		
9622	0C		
9623	10		
9624	03		
9625	19		
9626	02		
9627	1A		
9628	01		
9629	22		
962A	01		
962B	23		
962C	02		
962D	2C		
962E	03		
962F	35		
9630	02		
9631	36		
9632	01		
9633	3E	=1 1314	DB 62, 1,-1, 2
9634	01		
9635	FF		
9636	02		
9637	D9	=1 1315	DB 0D9H,03AH,14,24, 0, 2, 9, 2,18, 2,19, 1,28, 2,37, 2,46, 2,-1, 1
9638	3A		
9639	0E		
963A	18		
963B	00		
963C	02		
963D	09		
963E	02		
963F	12		
9640	02		
9641	13		
9642	01		
9643	1C		
9644	02		
9645	25		

LOC	OBJ	LINE	SOURCE
9646	02		
9647	2E		
9648	02		
9649	FF		
964A	01		
964B	DA	=1 1316	0DAH,03AH, 3,20,48, 1,56, 1,57, 1
964C	3A		
964D	03		
964E	14		
964F	30		
9650	01		
9651	38		
9652	01		
9653	39		
9654	01		
9655	FA	=1 1317	0FAH,03AH, 9,10, 2, 2,11, 1,12, 1,20, 1,21, 1,30, 1,-1, 2
9656	3A		
9657	09		
9658	0A		
9659	02		
965A	02		
965B	0B		
965C	01		
965D	0C		
965E	01		
965F	14		
9660	01		
9661	15		
9662	01		
9663	1E		
9664	01		
9665	FF		
9666	02		
9667	FB	=1 1318	0FBH,03AH, 5,18,40, 1,41, 1,50, 2,59, 1
9668	3A		
9669	05		
966A	12		
966B	28		
966C	01		
966D	29		
966E	01		
966F	32		
9670	02		
9671	3B		
9672	01		
9673	1B	=1 1319	01BH,03BH, 5,12, 4, 1, 5, 1,14, 1,-1, 2
9674	3B		
9675	05		
9676	0C		
9677	04		
9678	01		
9679	05		
967A	01		
967B	0E		
967C	01		

LOC	OBJ	LINE	SOURCE
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967D	FF		
967E	02		
967F	1C	=1 1320	DB 01CH,03BH, 6,12,24, 1,33, 1,42, 1,43, 1,52, 1,61, 1
9680	3B		
9681	06		
9682	0C		
9683	18		
9684	01		
9685	21		
9686	01		
9687	2A		
9688	01		
9689	2B		
968A	01		
968B	34		
968C	01		
968D	3D		
968E	01		
968F	3C	=1 1321	DB 03CH,03BH, 2,16, 6, 1,-1, 1
9690	3B		
9691	02		
9692	10		
9693	06		
9694	01		
9695	FF		
9696	01		
9697	3D	=1 1322	DB 03DH,03BH, 7, 8, 8, 1,17, 1,26, 1,36, 1,45, 1,54, 1,-1, 1
9698	3B		
9699	07		
969A	08		
969B	08		
969C	01		
969D	11		
969E	01		
969F	1A		
96A0	01		
96A1	24		
96A2	01		
96A3	2D		
96A4	01		
96A5	36		
96A6	01		
96A7	FF		
96A8	01		
		=1 1323	
		=1 1324	
		=1 1325 ;	STAR PATH # 46
		=1 1326	
96A9		=1 1327	STAR_PATH46 LABEL BYTE
		=1 1328	
96A9	4A	=1 1329	DB 04AH,03AH,39,18, 6, 3, 5, 7, 4, 2,12, 4,11, 6,18, 6,17, 4,25, 1
96AA	3A		
96AB	27		
96AC	12		
96AD	06		

LOC	OBJ	LINE	SOURCE
96AE	03		
96AF	05		
96B0	07		
96B1	04		
96B2	02		
96B3	0C		
96B4	04		
96B5	08		
96B6	06		
96B7	12		
96B8	06		
96B9	11		
96BA	04		
96BB	19		
96BC	01		
96BD	18	=1 1330	DB 24, 6
96BE	06		
96BF	49	=1 1331	DB 049H, 03AH, 33, 22, -1, 5, 38, 4, 37, 2, 45, 3, 44, 4, 52, 1, 51, 4, 50, 3
96C0	3A		
96C1	21		
96C2	16		
96C3	FF		
96C4	05		
96C5	26		
96C6	04		
96C7	25		
96C8	02		
96C9	20		
96CA	03		
96CB	2C		
96CC	04		
96CD	34		
96CE	01		
96CF	33		
96D0	04		
96D1	32		
96D2	03		
96D3	3A	=1 1332	DB 58, 1, 57, 4, 56, 2
96D4	01		
96D5	39		
96D6	04		
96D7	38		
96D8	02		
96D9	69	=1 1333	DB 069H, 03AH, 2, 26, 0, 2
96DA	3A		
96DB	02		
96DC	1A		
96DD	00		
96DE	02		
96DF	68	=1 1334	DB 068H, 03AH, 26, 6, -1, 4, 14, 3, 13, 3, 21, 1, 20, 3, 19, 2, 27, 1, 26, 3
96E0	3A		
96E1	1A		
96E2	06		
96E3	FF		
96E4	04		

LOC	OBJ	LINE	SOURCE
96E5	0E		
96E6	03		
96E7	0D		
96E8	03		
96E9	15		
96EA	01		
96EB	14		
96EC	03		
96ED	13		
96EE	02		
96EF	1B		
96F0	01		
96F1	1A		
96F2	03		
96F3	19	=1 1335	DB 25, 1,33, 2,32, 3
96F4	01		
96F5	21		
96F6	02		
96F7	20		
96FB	03		
96F9	67	=1 1336	DB 067H,03AH,14,26,-1, 3,46, 2,54, 1,53, 3,52, 1,60, 1,59, 3
96FA	3A		
96FB	0E		
96FC	1A		
96FD	FF		
96FE	03		
96FF	2E		
9700	02		
9701	36		
9702	01		
9703	35		
9704	03		
9705	34		
9706	01		
9707	3C		
9708	01		
9709	3B		
970A	03		
970B	87	=1 1337	DB 087H,03AH, 7,18, 2, 2, 1, 3, 8, 2
970C	3A		
970D	07		
970E	12		
970F	02		
9710	02		
9711	01		
9712	03		
9713	08		
9714	02		
9715	86	=1 1338	DB 086H,03AH,16,10,-1, 2,22, 2,21, 1,29, 1,28, 3,35, 2,34, 1,42, 1
9716	3A		
9717	10		
9718	0A		
9719	FF		
971A	02		
971B	16		

LOC	OBJ	LINE	SOURCE
971C	02		
971D	15		
971E	01		
971F	1D		
9720	01		
9721	1C		
9722	03		
9723	23		
9724	02		
9725	22		
9726	01		
9727	2A		
9728	01		
9729	29	=1 1339	DB 41, 1,40, 2
972A	01		
972B	28		
972C	02		
972D	85	=1 1340	DB 085H,03AH, 6,24,-1, 2,54, 1,62, 1,61, 2
972E	3A		
972F	06		
9730	1B		
9731	FF		
9732	02		
9733	36		
9734	01		
9735	3E		
9736	01		
9737	3D		
9738	02		
9739	A5	=1 1341	DB 0A5H,03AH, 8,12, 4, 1, 3, 2,10, 2, 9, 1,16, 2
973A	3A		
973B	08		
973C	0C		
973D	04		
973E	01		
973F	03		
9740	02		
9741	0A		
9742	02		
9743	09		
9744	01		
9745	10		
9746	02		
9747	A4	=1 1342	DB 0A4H,03AH,11,14,-1, 1,30, 2,37, 1,36, 1,44, 1,43, 1,42, 1,49, 2
9748	3A		
9749	08		
974A	0E		
974B	FF		
974C	01		
974D	1E		
974E	02		
974F	25		
9750	01		
9751	24		
9752	01		

LOC	OBJ	LINE	SOURCE
9753	2C		
9754	01		
9755	2B		
9756	01		
9757	2A		
9758	01		
9759	31		
975A	02		
975B	38	=1 1343	DB 56, 1
975C	01		
975D	A3	=1 1344	DB 0A3H,03AH, 1,22,-1, 1
975E	3A		
975F	01		
9760	16		
9761	FF		
9762	01		
9763	C3	=1 1345	DB 0C3H,03AH, 9, 6, 6, 2,13, 1,12, 1,11, 1,18, 1,17, 1,24, 1,32, 1
9764	3A		
9765	09		
9766	06		
9767	06		
9768	02		
9769	0D		
976A	01		
976B	0C		
976C	01		
976D	08		
976E	01		
976F	12		
9770	01		
9771	11		
9772	01		
9773	18		
9774	01		
9775	20		
9776	01		
9777	C2	=1 1346	DB 0C2H,03AH, 7,20,-1, 1,46, 1,45, 1,52, 1,51, 1,58, 1,57, 1
9778	3A		
9779	07		
977A	14		
977B	FF		
977C	01		
977D	2E		
977E	01		
977F	2D		
9780	01		
9781	34		
9782	01		
9783	33		
9784	01		
9785	3A		
9786	01		
9787	39		
9788	01		
		=1 1347	

LOC	OBJ	LINE	SOURCE
		=1 1348	
		=1 1349	; STAR PATH # 47
		=1 1350	
9789		=1 1351	STAR_PATH47 LABEL BYTE
		=1 1352	
9789	OF	=1 1353	DB 00FH,039H,42,18,58, 5,57, 1,49, 6,41, 5,33, 6,25, 5,17, 5, 9, 5
978A	39		
978B	2A		
978C	12		
978D	3A		
978E	05		
978F	39		
9790	01		
9791	31		
9792	06		
9793	29		
9794	05		
9795	21		
9796	06		
9797	19		
9798	05		
9799	11		
979A	05		
979B	09		
979C	05		
979D	01	=1 1354	DB 1, 4
979E	04		
979F	EF	=1 1355	DB 0EFH,038H,32,22,57, 5,48, 4,40, 4,32, 4,24, 4,16, 4, 8, 4, 0, 3
97A0	38		
97A1	20		
97A2	16		
97A3	39		
97A4	05		
97A5	30		
97A6	04		
97A7	28		
97A8	04		
97A9	20		
97AA	04		
97AB	18		
97AC	04		
97AD	10		
97AE	04		
97AF	08		
97B0	04		
97B1	00		
97B2	03		
97B3	CF	=1 1356	DB 0CFH,038H, 4,20,56, 3,48, 1
97B4	38		
97B5	04		
97B6	14		
97B7	38		
97B8	03		
97B9	30		
97BA	01		

LOC	OBJ	LINE	SOURCE
97BB	AE	=1 1357	DB 0AEH,038H,41, 8,-1,24,54, 2,46, 3,38, 2,30, 3,22, 2,14, 2, 6, 3
97BC	3B		
97BD	29		
97BE	0B		
97BF	FF		
97C0	1B		
97C1	36		
97C2	02		
97C3	2E		
97C4	03		
97C5	26		
97C6	02		
97C7	1E		
97C8	03		
97C9	16		
97CA	02		
97CB	0E		
97CC	02		
97CD	06		
97CE	03		
97CF	8E	=1 1358	DB 08EH,038H,16,20,62, 2,54, 1,53, 1,45, 2,37, 2,29, 2,21, 2,13, 2
97D0	3B		
97D1	10		
97D2	14		
97D3	3E		
97D4	02		
97D5	36		
97D6	01		
97D7	35		
97D8	01		
97D9	2D		
97DA	02		
97DB	25		
97DC	02		
97DD	1D		
97DE	02		
97DF	15		
97E0	02		
97E1	0D		
97E2	02		
97E3	05	=1 1359	DB 5, 2
97E4	02		
97E5	6E	=1 1360	DB 06EH,038H,13,22,61, 2,53, 1,44, 2,36, 2,28, 1,20, 2,12, 2, 4, 1
97E6	3B		
97E7	0D		
97E8	16		
97E9	3D		
97EA	02		
97EB	35		
97EC	01		
97ED	2C		
97EE	02		
97EF	24		
97F0	02		
97F1	1C		

LOC	OBJ	LINE	SOURCE
97F2	01		
97F3	14		
97F4	02		
97F5	0C		
97F6	02		
97F7	04		
97FB	01		
97F9	4E	=1 1361	DB 04EH,038H,12,20,60, 2,52, 1,43, 2,35, 1,27, 2,19, 1,11, 1, 3, 2
97FA	38		
97FB	0C		
97FC	14		
97FD	3C		
97FE	02		
97FF	34		
9800	01		
9801	2B		
9802	02		
9803	23		
9804	01		
9805	1B		
9806	02		
9807	13		
9808	01		
9809	0B		
980A	01		
980B	03		
980C	02		
980D	2E	=1 1362	DB 02EH,038H, 9,20,59, 1,51, 1,42, 1,34, 2,26, 1,18, 1,10, 1, 2, 1
980E	38		
980F	09		
9810	14		
9811	3B		
9812	01		
9813	33		
9814	01		
9815	2A		
9816	01		
9817	22		
9818	02		
9819	1A		
981A	01		
981B	12		
981C	01		
981D	0A		
981E	01		
981F	02		
9820	01		
9821		=1 1363	
9821		=1 1364	STAR_PATHXX
9821		=1 1365	LABEL BYTE
9821	0E	=1 1366	DB 00EH,038H, 9,20,58, 2,50, 1,41, 1,33, 1,25, 1,17, 1, 9, 1
9822	38		
9823	09		
9824	14		
9825	3A		

LOC	OBJ	LINE	SOURCE
9826	02		
9827	32		
9828	01		
9829	29		
982A	01		
982B	21		
982C	01		
982D	19		
982E	01		
982F	11		
9830	01		
9831	09		
9832	01		
		=1 1367	
9833	01	=1 1368	STAR_PIXXX DB 1, 1
9834	01		
		=1 1369	
		=1 1370	
		=1 1371 ; ===== END OF MSTABL.S1 =====	
		=1 1372	
		1373	
		1374	
		1375 ;=====	
		1376	
		1377	
		1378	
----		1379 ALLSEG ENDS	
		1380	
		1381 END	

XREF SYMBOL TABLE LISTING

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
??SEG	SEGMENT		SIZE=0000H PARA PUBLIC
ALLSEG.	SEGMENT		SIZE=9835H PARA ABS 69# 71 71 71 71 1379
BGND_REG.	V BYTE	0000H	EXTRN 109#
BLEN_STARPAR. . .	NUMBER	0008H	97# 200 275 347 421
BLNK.	NUMBER	00FFH	79# 285 357
CLR_BGND_PART . .	L NEAR	0000H	EXTRN 117#
COLOR_REG	V WORD	0000H	EXTRN 110# 144
CONT_STAR_IN. . .	L NEAR	749BH	ALLSEG 235 316#
CONT_STAR_OUT . .	L NEAR	744AH	ALLSEG 234 244#
DUMMY_BGND_REG. .	NUMBER	38EOH	81# 198
FIND_ENTRY_LP . . .	L NEAR	73E1H	ALLSEG 162# 176 178
FIND_ENTRY2 . . .	L NEAR	73EDH	ALLSEG 163 168#
NEW_STAR_IN . . .	L NEAR	74C9H	ALLSEG 326 356#
NEW_STAR_IN1. . .	L NEAR	74E4H	ALLSEG 363 378#
NEW_STAR_IN2. . .	L NEAR	74ECH	ALLSEG 374 381#
NEW_STAR_OUT. . .	L NEAR	7478H	ALLSEG 254 284#
NEW_STAR_OUT2 . . .	L NEAR	74BDH	ALLSEG 293 301#
NEXT_REVERSE. . .	L NEAR	752BH	ALLSEG 421#
NEXT_STAR_IN. . .	L NEAR	74C3H	ALLSEG 331 347#
NEXT_STAR_OUT . .	L NEAR	7472H	ALLSEG 259 275#
NUM_STARS	NUMBER	003DH	83# 154 244 316 406
NXT_FIND_ENTRY. .	L NEAR	73F3H	ALLSEG 166 172#
NXT_PIX_LP. . . .	L NEAR	740AH	ALLSEG 189# 192
RANDOM.	V WORD	0000H	EXTRN 111# 206
RESET_STAR_LP . .	L NEAR	73DBH	ALLSEG 157# 202
REVERSE_LP. . . .	L NEAR	7513H	ALLSEG 409# 422
SCHAR_TIMER . . .	V BYTE	0000H	S FIELD 89# 196 253 307 325 388 411 413
SPIX_TIMER. . . .	V BYTE	0001H	S FIELD 90# 197 258 273 330 345 417 419
SPIXEL_PTR. . . .	V WORD	0004H	S FIELD 92# 195 264 268 289 336 340 415
SPOSITION	V WORD	0006H	S FIELD 93# 198 263 284 303 335 356 384
STABLE_PTR. . . .	V WORD	0002H	S FIELD 91# 182 301 361 381 409
STAR_DATA	V QWORD	0000H	EXTRN 112# 153 245 317 407
STAR_DIR_FL . . .	V BYTE	0000H	EXTRN 114# 207 233 397 398 400
STAR_DUST	L NEAR	743AH	ALLSEG PUBLIC 105 226# 425
STAR_DUST_FL. . .	V BYTE	0000H	EXTRN 113# 209
STAR_DUST2. . . .	L NEAR	743EH	ALLSEG 233# 423
STAR_IN_LP. . . .	L NEAR	74A1H	ALLSEG 319# 348
STAR_IN2.	L NEAR	74A7H	ALLSEG 320 325#
STAR_IN3.	L NEAR	74B8H	ALLSEG 340# 390
STAR_OUT_LP . . .	L NEAR	7450H	ALLSEG 247# 276
STAR_OUT2	L NEAR	7456H	ALLSEG 248 253#
STAR_OUT3	L NEAR	7467H	ALLSEG 268# 309
STAR_PATH00 . . .	V BYTE	7533H	ALLSEG 162 297 362 438#
STAR_PATH01 . . .	V BYTE	75CDH	ALLSEG 452#
STAR_PATH02 . . .	V BYTE	7681H	ALLSEG 470#
STAR_PATH03 . . .	V BYTE	773BH	ALLSEG 486#
STAR_PATH04 . . .	V BYTE	77CDH	ALLSEG 501#
STAR_PATH05 . . .	V BYTE	7857H	ALLSEG 514#
STAR_PATH06 . . .	V BYTE	78EDH	ALLSEG 529#
STAR_PATH07 . . .	V BYTE	7999H	ALLSEG 544#
STAR_PATH08 . . .	V BYTE	7A17H	ALLSEG 558#

NAME TYPE VALUE ATTRIBUTES, XREFS

STAR_PATH09 . . V BYTE	7A7BH	ALLSEG	569#
STAR_PATH10 . . V BYTE	7B05H	ALLSEG	584#
STAR_PATH11 . . V BYTE	7B9FH	ALLSEG	598#
STAR_PATH12 . . V BYTE	7C23H	ALLSEG	610#
STAR_PATH13 . . V BYTE	7C23H	ALLSEG	615#
STAR_PATH14 . . V BYTE	7C89H	ALLSEG	627#
STAR_PATH15 . . V BYTE	7D0DH	ALLSEG	640#
STAR_PATH16 . . V BYTE	7D73H	ALLSEG	652#
STAR_PATH17 . . V BYTE	7E49H	ALLSEG	671#
STAR_PATH18 . . V BYTE	7F27H	ALLSEG	692#
STAR_PATH19 . . V BYTE	801FH	ALLSEG	717#
STAR_PATH20 . . V BYTE	80E3H	ALLSEG	737#
STAR_PATH21 . . V BYTE	818DH	ALLSEG	755#
STAR_PATH22 . . V BYTE	8261H	ALLSEG	778#
STAR_PATH23 . . V BYTE	8351H	ALLSEG	803#
STAR_PATH24 . . V BYTE	83F3H	ALLSEG	820#
STAR_PATH25 . . V BYTE	8497H	ALLSEG	838#
STAR_PATH26 . . V BYTE	8567H	ALLSEG	861#
STAR_PATH27 . . V BYTE	8657H	ALLSEG	885#
STAR_PATH28 . . V BYTE	86FDH	ALLSEG	905#
STAR_PATH29 . . V BYTE	87BFH	ALLSEG	922#
STAR_PATH30 . . V BYTE	883DH	ALLSEG	942#
STAR_PATH31 . . V BYTE	890DH	ALLSEG	964#
STAR_PATH32 . . V BYTE	899DH	ALLSEG	980#
STAR_PATH33 . . V BYTE	8A6DH	ALLSEG	1003#
STAR_PATH34 . . V BYTE	8B89H	ALLSEG	1033#
STAR_PATH35 . . V BYTE	8C75H	ALLSEG	1060#
STAR_PATH36 . . V BYTE	8D5FH	ALLSEG	1083#
STAR_PATH37 . . V BYTE	8E41H	ALLSEG	1108#
STAR_PATH38 . . V BYTE	8F58H	ALLSEG	1138#
STAR_PATH39 . . V BYTE	9063H	ALLSEG	1165#
STAR_PATH40 . . V BYTE	912BH	ALLSEG	1184#
STAR_PATH41 . . V BYTE	9215H	ALLSEG	1207#
STAR_PATH42 . . V BYTE	933DH	ALLSEG	1237#
STAR_PATH43 . . V BYTE	941FH	ALLSEG	1262#
STAR_PATH44 . . V BYTE	94DBH	ALLSEG	1280#
STAR_PATH45 . . V BYTE	95A5H	ALLSEG	1301#
STAR_PATH46 . . V BYTE	96A9H	ALLSEG	1327#
STAR_PATH47 . . V BYTE	9789H	ALLSEG	1351#
STAR_PATHXX . . V BYTE	9821H	ALLSEG	155 165 292 378 1364#
STAR_PIXXX. . . V BYTE	9833H	ALLSEG	379 1368#
STAR_RESET. . . L NEAR	73C0H	ALLSEG PUBLIC	106 138# 213
STAR_REVERSE. . L NEAR	74FCH	ALLSEG	236 397#
STAR_REVERSE2 . L NEAR	750DH	ALLSEG	399 406#
STARPAR STRUC		SIZE=0008H #FIELDS=5	87 95# 112
TEMP_CTR. . . . V WORD	0000H	EXTRN	115# 154 201
WAIT_FOR_NMI. . L NEAR	0000H	EXTRN	116# 140

ASSEMBLY COMPLETE, NO ERRORS FOUND

SERIES-III 8086/8087/8088 MACRO ASSEMBLER V1.0 ASSEMBLY OF MODULE NEIL_700
OBJECT MODULE PLACED IN :F1:MNEIL.OBJ
INVOCATION LINE CONTROLS: DJ(:F1:MNEIL.OBJ) EP(:F2:MNEIL.ERR) WF(:F0:) PR(:F2:MNEIL.LST) XR NOMR

LOC	OBJ	LINE	SOURCE
1			NAME NEIL_700
2		; 7.00 02/28/83	PRODUCTION VERSION GV-102-0
3			
4		;	(C) COPYRIGHT 1982
5		;	D. GOTTLIEB & CO.
6		;	ALL RIGHTS RESERVED
7			
8			
9		;	MNEIL.SRC
10			
11		;	*****
12		;	NEIL'S CODE FOR ATTRACT MODE
13		;	*****
14			
15			
16			
17		;	5.44 02/25/83 REMOVE UNNECESSARY LABELS
18		;	5.43 02/25/83 SIMULATION INPUT REMOVED
19		;	5.42 02/24/83 SIMULATION INPUT MODIFIED
20		;	5.41 02/21/83 MORE CHANGE IN TRIPLE CHECK
21		;	5.40 02/21/83 TRIPLE CHECK MODIFIED(NEIL'S FAULT!)
22		;	5.39 02/18/83 COLOR ANIMATIONS
23		;	5.38 02/15/83 CALLING CONVENTION OF HI SCORE RESET FIXED
24		;	5.37 02/15/83 TRIPPLICATE HSE TABLE
25		;	5.36 01/27/83 ONE MORE FIX (KAN)
26		;	5.35 01/27/83 HI SCORE ENTRY FIX (KAN)
27		;	5.34 01/27/83 START BUTTON DETECTION
28		;	5.33 01/26/83 LABEL CORRECTION
29		;	5.32 01/26/83 NEW DIP SWITCH SETTINGS
30		;	5.31 01/26/83 SIMULATION ENTRY DIP SWITCH ELIMINATED
31			
32		;	----- RELEASE VERSION 07 -----
33			
34		;	----- RELEASE VERSION 06 -----
35			
36		;	5.30 01/13/83 HUMAN ACTION ADDED TO SIMULATION (KAN)
37		;	5.29 01/12/83 NEW COLORS AND CALLS FOR SHIP ANIMATION
38		;	5.28 12/20/82 2ND PLYR BUMPING FIRST PLYR CHECKED
39		;	5.27 12/06/82 FLASHING FIXED
40		;	5.26 12/06/82 PLYR NUM FIXED
41		;	5.25 12/03/82 WRONG SCORE FLASHING FIXED
42		;	5.24 12/02/82 DAMN!
43		;	5.23 12/02/82
44		;	5.22 12/02/82 THE END
45		;	5.21 12/01/82 EVERYTHING SHOULD BE WORKING NOW
46		;	5.20 12/01/82 WHO KNOWS!
47			
48		;	5.19 11/17/82 THIS IS IT
49		;	5.18 11/17/82 CREDIT DECREMENT RESTORED
50		;	5.17 11/16/82 ULTRA FIXED

LOC	OBJ	LINE	SOURCE
		51	; 5.16 11/16/82 ULTRA OFFSET ADDED
		52	; 5.15 11/16/82 FLASHING ALGORITHM CHANGED
		53	; 5.14 11/15/82 INITIALS FIXED
		54	; 5.13 11/15/82 REPEAT MOVE ADDED
		55	; 5.12 11/15/82 SECOND TRY
		56	; 5.11 11/15/82 FIRST ATTEMPT AT FLASHING INITIALS
		57	; 5.10 11/11/82 ALMOST
		58	; 5.09 11/11/82 FIXED FOR GOOD THIS TIME
		59	; 5.08 11/10/82 YELLOW LOGO COLOR FIXED
		60	; 5.07 11/10/82 LOGO COLORS FIXED
		61	; 5.06 11/10/82 STILL WORKING
		62	; 5.05 11/10/82 WORKING ON FADES
		63	; 5.04 11/09/82 KANS CHANGES MADE
		64	
		65	; ----- RELEASE VERSION 03 -----
		66	
		67	; 5.03 11/04/82 LINKING SCHEME CHANGED
		68	; 5.02 11/03/82 FINAL LINKING SCHEME
		69	; 5.01 11/03/82 FURTHER CHANGES
		70	
		71	; ----- RELEASE VERSION 02 -----
		72	
		73	; ----- RELEASE VERSION 01 -----
		74	
		75	; 5.00 10/19/82 GAME SIMULATION TABLE INCLUDED
		76	
		77	; 2.63 10/19/82 GAME SIMULATION TABLE MOVED
		78	; 2.62 10/18/82 ATTRACT SCREEN TIMES SHORTENED
		79	; 2.61 10/15/82 POINT SCREEN CHANGED
		80	; 2.60 10/15/82 BACKUP FIXED
		81	; 2.59 10/15/82 MINOR CHANGES
		82	; 2.58 10/15/82 ROTATION COLORS CHANGED
		83	; 2.57 10/15/82 CURSOR REALLIGNED
		84	; 2.56 10/14/82 ROTATE DIRECTION REVERSED
		85	; 2.55 10/14/82 COLOR ROTATION FIXED
		86	; 2.54 10/13/82 LOGO REPAIRED
		87	; 2.53 10/13/82 LOGO ADDED
		88	; 2.52 10/13/82 BUTTON HELD TIME OUT CHANGED.
		89	; 2.51 10/08/82 NO_RDY_MSG_FL REMOVED, KEEP_MPOS_FL ADDED (KAN)
		90	; 2.50 10/01/82 CURSOR ALLIGNED
		91	; 2.49 10/01/82 CURSOR ADDED
		92	; 2.48 10/01/82 TRIGGER TIME OUT ADDED
		93	; 2.47 09/30/82 COMET_ACTION ADDED TO GAME SIMULATION
		94	; 2.46 09/30/82 DISPLAY OF HIGHEST SCORE ADDED
		95	; 2.45 09/29/82 STILL HARD AT WORK
		96	; 2.44 09/29/82 CHKSUM INC CHANGED TO ADD 2
		97	; 2.43 09/29/82 CALL TO CHECKSUM MOVED
		98	; 2.42 09/29/82 ULTRA MOVED TO REGISTER BEFORE OFFSETTING
		99	; 2.41 09/29/82 CHECK_SUM FIXED, HOPEFULLY THIS WAS THE CULPRIT!
		100	; 2.40 09/28/82 IT BETTER WORK
		101	; 2.39 09/28/82 NOT YET
		102	; 2.38 09/24/82 I THINK I GOT IT!
		103	; 2.37 09/24/82 STILL PLUGGING AWAY
		104	; 2.36 09/24/82 2ND TABLE REPAIRED
		105	; 2.35 09/23/82 2ND HI SCORE TABLE IMPLEMENTATION CHANGED

LOC	OBJ	LINE	SOURCE
		106	; 2.34 09/22/82 SECOND HIGH SCORE TABLE ADDED
		107	; 2.33 09/21/82 STILL DOCUMENTING
		108	; 2.32 09/20/82 DOCUMENTATION UPDATED
		109	; 2.31 09/17/82 CURSOR FIXED
		110	; 2.30 09/17/82 CURSOR ADDED
		111	; 2.29 09/17/82 HIGH SCORE TABLE REALIGNED
		112	; 2.28 09/16/82 NEW BACKGROUND CHARACTERS
		113	; 2.27 09/16/82 THIS SHOULD JUST ABOUT DO IT
		114	; 2.26 09/15/82 ITS ALMOST FINISHED
		115	; 2.25 09/15/82 PLYR 1 PLYR 2 FIXED
		116	; 2.24 09/15/82 FLASHING MESSEGE REPAIRED
		117	; 2.23 09/14/82 FLASHING BEGIN MESSEGE ADDED
		118	; 2.22 09/14/82 INIT ENTER FROM START BUTTON
		119	; 2.21 09/14/82 8 WAY JOYSTICK ADDED
		120	; 2.20 09/13/82 ADV_ROUND_FL INCORPORATED
		121	; 2.19 09/13/82 RANDOMH,RANDOML CHANGED(KAN)
		122	; 2.18 09/13/82 HI SCORE FLICKER FIXED
		123	; 2.17 09/13/82 CREDIT ERROR DETECTION FIXED AGAIN
		124	; 2.16 09/13/82 ATTRACT MODE POINT SCREEN FIXED
		125	; 2.15 09/13/82 TRIGGER DEBOUNCING FIXED
		126	; 2.14 09/11/82 ATTRACT TABLE GEN AND REGEN FIX
		127	; 2.13 09/10/82 ATTRACT_LP DECLARED PUBLIC
		128	; 2.12 09/10/82 TABLE REGENERATION FIXED
		129	; 2.11 09/10/82 CREDIT ERROR DETECTION FIXED
		130	; 2.10 09/10/82 CREDIT ERROR DETECTION ADDED
		131	; 2.09 09/10/82 EXTERNS FOR GAME SIMULATION ADDED
		132	; 2.08 09/10/82 GAME SIMULATION INCORPORATED INTO MY ATTRACT LOOP
		133	; 2.07 09/10/82 GAME SIMULATION ADDED
		134	; 2.06 09/10/82 ATTRACT LOOPS FIXED
		135	; 2.05 09/09/82 EXTERNAL MAGNA_DEMO,TRIGGER_DEMO REMOVED
		136	; 2.04 09/09/82 HI SCORE ROUTINES ALMOST PERFECT
		137	; 2.03 09/08/82 MAKING PROGRESS
		138	; 2.02 09/06/82 NONEXISTENT EXTERNAL REF REMOVED
		139	; 2.01 09/06/82 FIRST TRIAL WITH MAIN SECTION
		140	; 2.00 09/04/82 RAM SECTION REMOVED, ALLSEG
		141	
		142	
----		143	ALLSEG SEGMENT AT 0
		144	
		145	ASSUME CS:ALLSEG, DS:ALLSEG, SS:ALLSEG, ES:ALLSEG
		146 +1	\$NOLIST
		1523	;
		1524	*****
		1525	;
		1526	PUBLIC AR_RESET
		1527	PUBLIC ATTRACT
		1528	PUBLIC ATTRACT_LP
		1529	PUBLIC ATTRACT_REGEN
		1530	;
		1531	PUBLIC DISPLAY_CREDITS
		1532	;
		1533	PUBLIC HIGH_SCORE
		1534	PUBLIC HI_SCORE_OUTPUT
		1535	PUBLIC HI_SCORE_RESET
		1536	;

LOC	OBJ	LINE	SOURCE
		1537	;*****
		1538	;
		1539	EXTRN ACTIVITY_FL:BYTE
		1540	EXTRN ADV_ROUND_FL:BYTE
		1541	EXTRN ATTRACT_ROUND:ABS
		1542	EXTRN ATTRACT_TABLE:BYTE
		1543	EXTRN ATT_LP_CTR:BYTE
		1544	EXTRN ATT_TABLE_CTR:BYTE
		1545	EXTRN ATT_TABLE_PTR:WORD
		1546	EXTRN ATT_TABLE_TOP:WORD
		1547	;
		1548	EXTRN BGND_REG:BYTE
		1549	EXTRN BOX_XPOS:BYTE
		1550	EXTRN BOX_YPOS:BYTE
		1551	;
		1552	EXTRN COLOR_CHANGER:NEAR
		1553	EXTRN COLOR_SET_PTR:WORD
		1554	EXTRN COLOR_SET0:WORD
		1555	EXTRN CLR_ACTIVE_VAR:NEAR
		1556	EXTRN CTRL_BYTE:BYTE
		1557	EXTRN CHKSUM:WORD
		1558	EXTRN CHKSUMA:WORD
		1559	EXTRN CHKSUMB:WORD
		1560	EXTRN CLR_BGND_PART:NEAR
		1561	EXTRN COLD_START:NEAR
		1562	EXTRN COLOR_REG_BUF:WORD
		1563	EXTRN COMET_ACTION:NEAR
		1564	EXTRN CREG1:WORD
		1565	EXTRN CREG2:WORD
		1566	EXTRN CREG4:WORD
		1567	EXTRN CREGA:WORD
		1568	EXTRN CREGB:WORD
		1569	;
		1570	EXTRN DIAL_VALUE:BYTE
		1571	;
		1572	EXTRN FBND_REG_BUF:BYTE
		1573	EXTRN FIRST_DATUM_FL:BYTE
		1574	EXTRN FLASH_FL:BYTE
		1575	EXTRN FLASH_ON:BYTE
		1576	EXTRN FLASH_ON_PTR:WORD
		1577	;
		1578	EXTRN GAME_CREDIT:BYTE
		1579	EXTRN GAME_CREDITX:BYTE
		1580	EXTRN GAME_PLAY:NEAR
		1581	;
		1582	EXTRN HS_FL:BYTE
		1583	EXTRN HS_PLVR_NUM:BYTE
		1584	EXTRN HSE:HI_SCORE_ENTRY
		1585	EXTRN HSEA:HI_SCORE_ENTRY
		1586	EXTRN HSEB:HI_SCORE_ENTRY
		1587	EXTRN HUMAN_ACTION:NEAR
		1588	;
		1589	EXTRN INI_COLOR_REG_BUF:WORD
		1590	EXTRN INIT_COUNT:BYTE
		1591	EXTRN INIT_FRAME:NEAR

LOC	OBJ	LINE	SOURCE
		1592	;
		1593	EXTRN JOYSTICK:BYTE
		1594	EXTRN JS_VALUE:BYTE
		1595	;
		1596	EXTRN KRYPTON_ACTION:NEAR
		1597	EXTRN KS_DATA:BYTE
		1598	EXTRN KM_DATA:BYTE
		1599	EXTRN KL_DATA:BYTE
		1600	EXTRN KEEP_FIVE_FL:BYTE
		1601	EXTRN KEEP_NPOS_FL:BYTE
		1602	;
		1603	EXTRN LOGO_XPOS:BYTE
		1604	EXTRN LOGO_YPOS:BYTE
		1605	;
		1606	EXTRN MEM_VALID_FL:BYTE
		1607	EXTRN MAGNA_ACTION:NEAR
		1608	;
		1609	EXTRN NEIL_CTR:WORD
		1610	EXTRN NEIL_CTR2:BYTE
		1611	EXTRN NEIL_CTR3:WORD
		1612	EXTRN NEIL_X1:BYTE
		1613	EXTRN NEIL_X2:BYTE
		1614	EXTRN NEW_INITS:BYTE
		1615	EXTRN NUM_FLASH:BYTE
		1616	EXTRN NUM_FLASHING:BYTE
		1617	EXTRN NUM_SHIPS:BYTE
		1618	;
		1619	EXTRN PLAYER_ID:BYTE
		1620	EXTRN PACKET_ACTION:NEAR
		1621	EXTRN PANEL:BYTE
		1622	EXTRN PLAY_TIME_FL:BYTE
		1623	EXTRN PRINT:NEAR
		1624	;
		1625	EXTRN RANDOM:WORD
		1626	EXTRN RESET_SHOW:NEAR
		1627	EXTRN RUN_SHOW:NEAR
		1628	EXTRN ROUND_INIT:NEAR
		1629	EXTRN RPT_PTR:WORD
		1630	;
		1631	EXTRN SCORE0:BYTE
		1632	EXTRN SCORE6:BYTE
		1633	EXTRN SCORE7_I:BYTE
		1634	EXTRN SSW0:BYTE
		1635	EXTRN STAR_RESET:NEAR
		1636	EXTRN STAR_DUST_FL:BYTE
		1637	EXTRN STACK_BOTTOM:WORD
		1638	EXTRN SAME_PLAYER_FL:BYTE
		1639	EXTRN SET_TARGET:NEAR
		1640	EXTRN SCORE_ADR_A:WORD
		1641	EXTRN SIMULATE_FL:BYTE
		1642	EXTRN SIMU_ENTRY_FL:BYTE
		1643	;
		1644	EXTRN TABLE_FULL_FL:BYTE
		1645	EXTRN TABLE_EMPTY_FL:BYTE
		1646	EXTRN TBALLY:BYTE

LOC	OBJ	LINE	SOURCE
		1647	EXTRN TWO_PLAYER_FL:BYTE
		1648	EXTRN TRAVEL_BULLET:NEAR
		1649	EXTRN TRIGGER_BULLET:NEAR
		1650	EXTRN TABLE_DATUM:WORD
		1651 ;	
		1652	EXTRN ULTRA:WORD
		1653	EXTRN ULTRA_HSE:HI_SCORE_ENTRY
		1654	EXTRN ULTRA_HSE_FL:BYTE
		1655 ;	
		1656	EXTRN WAIT_FOR_NMI:NEAR
		1657	EXTRN WARM_START:NEAR
		1658 ;	
		1659 ;	
		1660 ;	
		1661	
		1662 +1 \$EJECT	

LOC	OBJ	LINE	SOURCE
		1663	
9840		1664	ORG 9840H
		1665	
9840 FD		1666 HS_TABLE	DB NEWP,9,3,U,L,T,R,A,CRGT,S,C,D,R,E,S
9841 09			
9842 03			
9843 3C			
9844 1F			
9845 3B			
9846 2F			
9847 0A			
9848 F9			
9849 3A			
984A 0C			
984B 2C			
984C 2F			
984D 0E			
984E 3A			
984F FD		1667	DB NEWP,9,4,HBAR,HBAR,HBAR,HBAR,HBAR,HBAR
9850 09			
9851 04			
9852 D7			
9853 D7			
9854 D7			
9855 D7			
9856 D7			
9857 D7			
9858 D7			
9859 D7		1668	DB HBAR,HBAR,HBAR,HBAR,HBAR,EOST
985A D7			
985B D7			
985C D7			
985D D7			
985E FE			
		1669 ;	
		1670 ;	
985F FD		1671 ULTRA_HS_TABLE	DB NEWP,4,3,G,A,L,A,C,T,I,C,CRGT,H,A,L,L,CRGT
9860 04			
9861 03			
9862 1A			
9863 0A			
9864 1F			
9865 0A			
9866 0C			
9867 3B			
9868 1C			
9869 0C			
986A F9			
986B 1B			
986C 0A			
986D 1F			
986E 1F			
986F F9			
9870 2C		1672	DB D,F,CRGT,F,A,M,E,NEWP,4,4,HBAR,HBAR,HBAR,HBAR
9871 0F			

LOC	OBJ	LINE	SOURCE
9872	F9		
9873	0F		
9874	0A		
9875	2A		
9876	0E		
9877	FD		
9878	04		
9879	04		
987A	D7		
987B	D7		
987C	D7		
987D	D7		
987E	D7	1673	DB HBAR,HBAR,HBAR,HBAR,HBAR,HBAR,HBAR,HBAR,HBAR
987F	D7		
9880	D7		
9881	D7		
9882	D7		
9883	D7		
9884	D7		
9885	D7		
9886	D7		
9887	D7	1674	DB HBAR,HBAR,HBAR,HBAR,HBAR,HBAR,HBAR,HBAR,EOST
9888	D7		
9889	D7		
988A	D7		
988B	D7		
988C	D7		
988D	D7		
988E	D7		
988F	FE		
		1675	:
		1676	:
9890	FD	1677	CMMN_HS_TABLE DB NEWP,1,6,R1,CDWN,R3,CDWN,R5,CDWN,R7
9891	01		
9892	06		
9893	20		
9894	FA		
9895	22		
9896	FA		
9897	24		
9898	FA		
9899	26		
989A	FA	1678	DB CDWN,R9,CDWN,R11,CDWN,R13,CDWN,R15,CDWN,R17
989B	28		
989C	FA		
989D	30		
989E	FA		
989F	32		
98A0	FA		
98A1	34		
98A2	FA		
98A3	36		
98A4	FA	1679	DB CDWN,R19
98A5	38		
98A6	FD	1680	DB NEWP,15,6,R2,CDWN,R4,CDWN,R6,CDWN,R8

LOC	OBJ	LINE	SOURCE
98A7	0F		
98AB	06		
98A9	21		
98AA	FA		
98AB	23		
98AC	FA		
98AD	25		
98AE	FA		
98AF	27		
98B0	FA	1681	CDWN,R10,CDWN,R12,CDWN,R14,CDWN,R16,CDWN,R18
98B1	29		
98B2	FA		
98B3	31		
98B4	FA		
98B5	33		
98B6	FA		
98B7	35		
98B8	FA		
98B9	37		
98BA	FA	1682	CDWN,R20,EDST
98BB	39		
98BC	FE		
98BD	1A	1683 ;	
98BE	0F	1684 ;	
98BF	0E	1685 INITIAL_TABLE	DB G,F,E,D,C,B,A,N,M,L,K,J,I,H,U,T,S,R
98C0	0D		
98C1	0C		
98C2	0B		
98C3	0A		
98C4	2B		
98C5	2A		
98C6	1F		
98C7	1E		
98C8	1D		
98C9	1C		
98CA	1B		
98CB	3C		
98CC	3B		
98CD	3A		
98CE	2F		
98CF	2E	1686	Q,P,O,SPACE,BACKUP,Z,Y,X,W,V
98D0	2D		
98D1	2C		
98D2	77		
98D3	7F		
98D4	5F		
98D5	57		
98D6	3F		
98D7	3E		
98D8	3D		
98D9	10	1687 ; 1688 ; 1689 RESET_TABLE	DB 16,24,CRGT,1,3,1,F,X,S

LOC	OBJ	LINE	SOURCE
980A	18		
980B	F9		
980C	01		
980D	03		
980E	01		
980F	0F		
98E0	3F		
98E1	3A		
98E2	02	1690	DB 2,24,CRGT,2,5,3,0,X,T
98E3	18		
98E4	F9		
98E5	02		
98E6	05		
98E7	03		
98E8	2C		
98E9	3F		
98EA	3B		
98EB	10	1691	DB 16,22,CRGT,3,8,1,W,B,D
98EC	16		
98ED	F9		
98EE	03		
98EF	08		
98F0	01		
98F1	3E		
98F2	0B		
98F3	0D		
98F4	02	1692	DB 2,22,CRGT,4,2,7,T,0,M
98F5	16		
98F6	F9		
98F7	04		
98F8	02		
98F9	07		
98FA	3B		
98FB	2C		
98FC	2A		
98FD	10	1693	DB 16,20,CRGT,5,3,6,I,A,P
98FE	14		
98FF	F9		
9900	05		
9901	03		
9902	06		
9903	5F		
9904	0A		
9905	2D		
9906	02	1694	DB 2,20,CRGT,6,1,2,0,0,P
9907	14		
9908	F9		
9909	06		
990A	01		
990B	02		
990C	2C		
990D	2C		
990E	2D		
990F	10	1695	DB 16,18,CRGT,7,4,7,0,0,T
9910	12		

LOC OBJ

LINE

SOURCE

9911 F9
9912 07
9913 04
9914 07
9915 0D
9916 0D
9917 3B
9918 02 1696 DB 2,18,CRGT,8,1,0,M,A,T
9919 12
991A F9
991B 08
991C 01
991D 00
991E 2A
991F 0A
9920 3B
9921 10 1697 DB 16,16,CRGT,9,1,1,L,J,S
9922 10
9923 F9
9924 09
9925 01
9926 01
9927 1F
9928 1D
9929 3A
992A 02 1698 DB 2,16,1,9,8,4,U,M,M
992B 10
992C 01
992D 09
992E 08
992F 04
9930 3C
9931 2A
9932 2A
9933 10 1699 DB 16,14,2,0,0,1,L,E,E
9934 0E
9935 02
9936 00
9937 00
9938 01
9939 1F
993A 0E
993B 0E
993C 02 1700 DB 2,14,3,2,B,5,B,0,B
993D 0E
993E 03
993F 02
9940 08
9941 05
9942 0B
9943 2C
9944 0B
9945 10 1701 DB 16,12,4,7,9,2,J,C,M
9946 0C
9947 04

LOC	OBJ	LINE	SOURCE
9948	07		
9949	09		
994A	02		
994B	1D		
994C	0C		
994D	2A		
994E	02	1702	DB 2,12,5,1,8,4,A,N,N
994F	0C		
9950	05		
9951	01		
9952	08		
9953	04		
9954	0A		
9955	2B		
9956	2B		
9957	10	1703	DB 16,10,6,4,3,9,Y,U,M
9958	0A		
9959	06		
995A	04		
995B	03		
995C	09		
995D	57		
995E	3C		
995F	2A		
9960	02	1704	DB 2,10,7,1,8,2,Y,A,K
9961	0A		
9962	07		
9963	01		
9964	08		
9965	02		
9966	57		
9967	0A		
9968	1E		
9969	10	1705	DB 16,8,8,0,8,6,C,B,K
996A	08		
996B	08		
996C	00		
996D	08		
996E	06		
996F	0C		
9970	0B		
9971	1E		
9972	02	1706	DB 2,8,8,0,8,8,CRGT,E,D
9973	08		
9974	08		
9975	00		
9976	08		
9977	0B		
9978	F9		
9979	0E		
997A	0D		
997B	10	1707	DB 16,6,9,9,0,0,N,A,B
997C	06		
997D	09		
997E	09		

LOC	OBJ	LINE	SOURCE
997F	00		
9980	00		
9981	2B		
9982	0A		
9983	0B		
9984	02	1708	DB 2,6,9,9,2,1,K,A,N
9985	06		
9986	09		
9987	09		
9988	02		
9989	01		
998A	1E		
998B	0A		
998C	2B		
		1709	;
		1710	;
998D	FD	1711	HS_MSG DB NEWP,2,5,Y,0,U,R,CRGT,E,F,F,0,R,T,S
998E	02		
998F	05		
9990	57		
9991	2C		
9992	3C		
9993	2F		
9994	F9		
9995	0E		
9996	0F		
9997	0F		
9998	2C		
9999	2F		
999A	3B		
999B	3A		
999C	F9	1712	CRGT,A,R,E,CRGT,W,0,R,T,H,Y,CRGT,0,F
999D	0A		
999E	2F		
999F	0E		
99A0	F9		
99A1	3E		
99A2	2C		
99A3	2F		
99A4	3B		
99A5	1B		
99A6	57		
99A7	F9		
99A8	2C		
99A9	0F		
99AA	FD	1713	DB NEWP,2,7,R,E,W,A,R,D,CRGT,T,A,K,E
99AB	02		
99AC	07		
99AD	2F		
99AE	0E		
99AF	3E		
99B0	0A		
99B1	2F		
99B2	0D		
99B3	F9		

LOC	OBJ	LINE	SOURCE
99B4	3B		
99B5	0A		
99B6	1E		
99B7	0E		
99B8	F9	1714	DB CRGT,Y,0,U,R,CRGT,P,L,A,C,E,CRGT,D,N
99B9	57		
99BA	2C		
99BB	3C		
99BC	2F		
99BD	F9		
99BE	2D		
99BF	1F		
99C0	0A		
99C1	0C		
99C2	0E		
99C3	F9		
99C4	2C		
99C5	2B		
99C6	FD	1715	DB NEWP,2,9,T,H,E,CRGT,L,I,S,T,CRGT,D,F
99C7	02		
99C8	09		
99C9	3B		
99CA	1B		
99CB	0E		
99CC	F9		
99CD	1F		
99CE	1C		
99CF	3A		
99D0	3B		
99D1	F9		
99D2	2C		
99D3	0F		
99D4	F9	1716	DB CRGT,U,L,T,R,A,CRGT,S,C,O,R,E,S,EDST
99D5	3C		
99D6	1F		
99D7	3B		
99D8	2F		
99D9	0A		
99DA	F9		
99DB	3A		
99DC	0C		
99DD	2C		
99DE	2F		
99DF	0E		
99E0	3A		
99E1	FE		
		1717	;
		1718	;
99E2	FD	1719	ULTRA_HS_MSG DB NEWP,7,5,Y,0,U,CRGT,R,A,N,K,CRGT,A,M,O,N,B
99E3	07		
99E4	05		
99E5	57		
99E6	2C		
99E7	3C		
99E8	F9		

LOC	OBJ	LINE	SOURCE
99E9	2F		
99EA	0A		
99EB	2B		
99EC	1E		
99ED	F9		
99EE	0A		
99EF	2A		
99F0	2C		
99F1	2B		
99F2	1A		
99F3	FD	1720	DB NEWP,5,7,T,H,0,S,E,CRG
99F4	05		
99F5	07		
99F6	3B		
99F7	1B		
99F8	2C		
99F9	3A		
99FA	0E		
99FB	F9		
99FC	0E	1721	DB E,L,I,T,E,CRG,F,E,W,CRG,I,N
99FD	1F		
99FE	1C		
99FF	3B		
9A00	0E		
9A01	F9		
9A02	0F		
9A03	0E		
9A04	3E		
9A05	F9		
9A06	1C		
9A07	2B		
9A08	FD	1722	DB NEWP,2,9,T,H,E,CRG,B,A,L,A,C,T,I,C,CRG
9A09	02		
9A0A	09		
9A0B	3B		
9A0C	1B		
9A0D	0E		
9A0E	F9		
9A0F	1A		
9A10	0A		
9A11	1F		
9A12	0A		
9A13	0C		
9A14	3B		
9A15	1C		
9A16	0C		
9A17	F9		
9A18	1B	1723	DB H,A,L,L,CRG,D,F,CRG,F,A,M,E,EOST
9A19	0A		
9A1A	1F		
9A1B	1F		
9A1C	F9		
9A1D	2C		
9A1E	0F		
9A1F	F9		

LOC	OBJ	LINE	SOURCE
9A20	0F		
9A21	0A		
9A22	2A		
9A23	0E		
9A24	FE		
		1724	;
		1725	;
9A25	FD	1726	HS_COMMON_MSG DB NEWP,13,12,HBAR,HBAR,HBAR
9A26	0D		
9A27	0C		
9A28	D7		
9A29	D7		
9A2A	D7		
9A2B	FD	1727	DB NEWP,8,13,A,CRG, B,CRG, C,CRG, D,CRG
9A2C	08		
9A2D	0D		
9A2E	0A		
9A2F	F9		
9A30	0B		
9A31	F9		
9A32	0C		
9A33	F9		
9A34	0D		
9A35	F9		
9A36	0E	1728	DB E,CRG, F,CRG, G
9A37	F9		
9A38	0F		
9A39	F9		
9A3A	1A		
9A3B	FD	1729	DB NEWP,8,15,H,CRG, I,CRG, J,CRG, K,CRG
9A3C	08		
9A3D	0F		
9A3E	1B		
9A3F	F9		
9A40	1C		
9A41	F9		
9A42	1D		
9A43	F9		
9A44	1E		
9A45	F9		
9A46	1F	1730	DB L,CRG, M,CRG, N
9A47	F9		
9A48	2A		
9A49	F9		
9A4A	2B		
9A4B	FD	1731	DB NEWP,8,17,O,CRG, P,CRG, Q,CRG, R,CRG
9A4C	08		
9A4D	11		
9A4E	2C		
9A4F	F9		
9A50	2D		
9A51	F9		
9A52	2E		
9A53	F9		
9A54	2F		

LOC	OBJ	LINE	SOURCE
9A55	F9		
9A56	3A	1732	DB S,CRGT,T,CRGT,U
9A57	F9		
9A58	3B		
9A59	F9		
9A5A	3C		
9A5B	FD	1733	DB NEWP,B,19,V,CRGT,W,CRBT,X,CRGT,Y,CRGT
9A5C	0B		
9A5D	13		
9A5E	3D		
9A5F	F9		
9A60	3E		
9A61	F9		
9A62	3F		
9A63	F9		
9A64	57		
9A65	F9		
9A66	5F	1734	DB Z,CRGT,BACKUP,CRBT,SPACE
9A67	F9		
9A68	7F		
9A69	F9		
9A6A	77		
9A6B	FD	1735	DB NEWP,5,23,U,S,E,CRGT,J,O,Y,S,T,I,C,K
9A6C	05		
9A6D	17		
9A6E	3C		
9A6F	3A		
9A70	0E		
9A71	F9		
9A72	1D		
9A73	2C		
9A74	57		
9A75	3A		
9A76	3B		
9A77	1C		
9A78	0C		
9A79	1E		
9A7A	F9	1736	DB CRGT,T,O,CRGT,M,O,V,E
9A7B	3B		
9A7C	2C		
9A7D	F9		
9A7E	2A		
9A7F	2C		
9A80	3D		
9A81	0E		
9A82	FD	1737	DB NEWP,5,25,H,I,T,CRGT,T,R,I,G,G,E,R
9A83	05		
9A84	19		
9A85	1B		
9A86	1C		
9A87	3B		
9A88	F9		
9A89	3B		
9A8A	2F		
9A8B	1C		

LOC	OBJ	LINE	SOURCE
9ABC	1A		
9ABD	1A		
9ABE	0E		
9ABF	2F		
9A90	F9	1738	DB CRGT,T,O,CRGT,S,E,L,E,C,T,EOST
9A91	3B		
9A92	2C		
9A93	F9		
9A94	3A		
9A95	0E		
9A96	1F		
9A97	0E		
9A98	0C		
9A99	3B		
9A9A	FE		
		1739	;
		1740	;
9A9B	FD	1741	HS_1P_MSG DB NEWP,3,3,BLNK,BLNK,BLNK,BLNK
9A9C	03		
9A9D	03		
9A9E	FF		
9A9F	FF		
9AA0	FF		
9AA1	FF		
9AA2	0C	1742	DB C,O,N,B,R,A,T,U,L,A,T,I,O,N,S
9AA3	2C		
9AA4	2B		
9AA5	1A		
9AA6	2F		
9AA7	0A		
9AA8	3B		
9AA9	3C		
9AAA	1F		
9AAB	0A		
9AAC	3B		
9AAD	1C		
9AAE	2C		
9AAF	2B		
9AB0	3A		
9AB1	FF	1743	DB BLNK,BLNK,BLNK,BLNK,EOST
9AB2	FF		
9AB3	FF		
9AB4	FF		
9AB5	FE		
		1744	;
		1745	;
9AB6	FD	1746	HS_2P_MSG DB NEWP,3,3,C,O,N,B,R,A,T,U,L,A,T,I,O,N,S,CRGT
9AB7	03		
9AB8	03		
9AB9	0C		
9ABA	2C		
9ABB	2B		
9ABC	1A		
9ABD	2F		
9ABE	0A		

LOC	OBJ	LINE	SOURCE
9ABF	3B		
9AC0	3C		
9AC1	1F		
9AC2	0A		
9AC3	3B		
9AC4	1C		
9AC5	2C		
9AC6	2B		
9AC7	3A		
9AC8	F9		
9AC9	2D	1747	DB P,L,A,Y,E,R,EOST
9ACA	1F		
9ACB	0A		
9ACC	57		
9ACD	0E		
9ACE	2F		
9ACF	FE		
		1748	;
		1749	;
9AD0	FD	1750	LOGO DB NEWP,6,20,CPRT,CRGT,C,0,P,Y,R,I,G,H,T,CRGT,CRGT,1,?,B,2
9AD1	06		
9AD2	14		
9AD3	B7		
9AD4	F9		
9AD5	0C		
9AD6	2C		
9AD7	2D		
9AD8	57		
9AD9	2F		
9ADA	1C		
9ADB	1A		
9ADC	1B		
9ADD	3B		
9ADE	F9		
9ADF	F9		
9AE0	01		
9AE1	09		
9AE2	08		
9AE3	02		
9AE4	FD	1751	DB NEWP,7,22,D,PERD,G,0,T,T,L,I,E,B
9AE5	07		
9AE6	16		
9AE7	0D		
9AE8	97		
9AE9	1A		
9AEA	2C		
9AEB	3B		
9AEC	3B		
9AED	1F		
9AEE	1C		
9AEF	0E		
9AF0	0B		
9AF1	F9	1752	DB CRGT,APSD,CRGT,C,0,PERD
9AF2	F9		
9AF3	F9		

3

9AE3 02

LOC	OBJ	LINE	SOURCE
9AF4	0C		
9AF5	2C		
9AF6	97		
9AF7 FD		1753	DB NEWP,5,24,A,L,L,CRGT,R,I,G,H,T,S,CRGT
9AFB	05		
9AF9	18		
9AFA	0A		
9AFB	1F		
9AFC	1F		
9AFD	F9		
9AFE	2F		
9AFF	1C		
9B00	1A		
9B01	1B		
9B02	3B		
9B03	3A		
9B04	F9		
9B05	2F	1754	DB R,E,S,E,R,V,E,D,EDST
9B06	0E		
9B07	3A		
9B08	0E		
9B09	2F		
9B0A	3D		
9B0B	0E		
9B0C	0D		
9B0D	FE		
9B0E FD		1755 ;	
9B0F	09	1756 ;	
9B10	03	1757 PTS	DB NEWP,9,3,P,D,I,N,T,CRBT,V,A,L,U,E,S
9B11	2D		
9B12	2C		
9B13	1C		
9B14	2B		
9B15	3B		
9B16	F9		
9B17	3D		
9B18	0A		
9B19	1F		
9B1A	3C		
9B1B	0E		
9B1C	3A		
9B1D FD		1758	DB NEWP,7,6,Y,D,U,CRGT,H,A,V,E,CRGT,3,CRGT,S,H,I,P,S
9B1E	07		
9B1F	06		
9B20	57		
9B21	2C		
9B22	3C		
9B23	F9		
9B24	1B		
9B25	0A		
9B26	3D		
9B27	0E		
9B28	F9		

LOC	OBJ	LINE	SOURCE
9B29	03		
9B2A	F9		
9B2B	3A		
9B2C	1B		
9B2D	1C		
9B2E	2D		
9B2F	3A		
9B30	FD	1759	DB NEWP,2,B,B,O,N,U,S,CRGT,S,H,I,P,CRGT,E,V,E,R,Y
9B31	02		
9B32	0B		
9B33	0B		
9B34	2C		
9B35	2B		
9B36	3C		
9B37	3A		
9B38	F9		
9B39	3A		
9B3A	1B		
9B3B	1C		
9B3C	2D		
9B3D	F9		
9B3E	0E		
9B3F	3D		
9B40	0E		
9B41	2F		
9B42	57		
9B43	F9	1760	DB CRGT,1,0,0,0,0,CRGT,P,T,S
9B44	01		
9B45	00		
9B46	00		
9B47	00		
9B48	00		
9B49	F9		
9B4A	2D		
9B4B	3B		
9B4C	3A		
9B4D	FD	1761	DB NEWP,8,11,M,O,O,N,CRGT,I,N,CRGT,O,R,R,I,T
9B4E	0B		
9B4F	0B		
9B50	2A		
9B51	2C		
9B52	2C		
9B53	2B		
9B54	F9		
9B55	1C		
9B56	2B		
9B57	F9		
9B58	2C		
9B59	2F		
9B5A	0B		
9B5B	1C		
9B5C	3B		
9B5D	F9	1762	DB CRGT,CRGT,CRGT,CRGT,1,0
9B5E	F9		
9B5F	F9		

LOC	OBJ	LINE	SOURCE
9B60	F9		
9B61	01		
9B62	00		
9B63	FD	1763	DB NEWP,B,13,M,0,0,N,CRGT,A,T,T,A,C,K,I,N,G
9B64	08		
9B65	0D		
9B66	2A		
9B67	2C		
9B68	2C		
9B69	2B		
9B6A	F9		
9B6B	0A		
9B6C	3B		
9B6D	3B		
9B6E	0A		
9B6F	0C		
9B70	1E		
9B71	1C		
9B72	2B		
9B73	1A		
9B74	F9	1764	DB CRGT,CRGT,1,0,0
9B75	F9		
9B76	01		
9B77	00		
9B78	00		
9B79	FD	1765	DB NEWP,B,16,M,A,D,CRGT,P,L,U,T,O,N,A
9B7A	0B		
9B7B	10		
9B7C	2A		
9B7D	0A		
9B7E	0D		
9B7F	F9		
9B80	2D		
9B81	1F		
9B82	3C		
9B83	3B		
9B84	2C		
9B85	2B		
9B86	0A		
9B87	F9	1766	DB CRGT,CRGT,CRGT,CRGT,CRGT,2,0,0
9B88	F9		
9B89	F9		
9B8A	F9		
9B8B	F9		
9B8C	02		
9B8D	00		
9B8E	00		
9B8F	FD	1767	DB NEWP,B,20,M,A,D,CRGT,M,A,R,Z,D,N
9B90	0B		
9B91	14		
9B92	2A		
9B93	0A		
9B94	0D		
9B95	F9		
9B96	2A		

LOC	OBJ	LINE	SOURCE
9B97	0A		
9B98	2F		
9B99	5F		
9B9A	2C		
9B9B	2B		
9B9C	F9	1768	DB CRGT,CRGT,CRGT,CRGT,CRGT,CRGT,3,0,0
9B9D	F9		
9B9E	F9		
9B9F	F9		
9BA0	F9		
9BA1	F9		
9BA2	03		
9BA3	00		
9BA4	00		
9BA5	FD	1769	DB NEWP,B,24,M,A,D,CRGT,K,R,Y,P,T,O,P,H,A,N
9BA6	0B		
9BA7	1B		
9BA8	2A		
9BA9	0A		
9BA0	0D		
9BA1	F9		
9BA2	1E		
9BA3	2F		
9BAE	57		
9BAF	2D		
9BB0	3B		
9BB1	2C		
9BB2	2D		
9BB3	1B		
9BB4	0A		
9BB5	2B		
9BB6	F9	1770	DB CRGT,CRGT,5,0,0,EOST
9BB7	F9		
9BB8	05		
9BB9	00		
9BBA	00		
9BBC	FE	1771	;
9BBC	FD	1772	;
9BBD	10	1773	PTS1 DB NEWP,16,6,5,EOST
9BBE	06		
9BBF	05		
9BC0	FE		
9BC1	FD	1774	;
9BC2	14	1775	PTS2 DB NEWP,20,8,2,EOST
9BC3	0B		
9BC4	02		
9BC5	FE		
9BC6	FD	1776	;
9BC7	0A	1777	;
9BC8	1D	1778	CREDITS_MSG DB NEWP,10,29,C,R,E,D,I,T,S,EOST

LOC	OBJ	LINE	SOURCE
9BC9	0C		
9BCA	2F		
9BCB	0E		
9BCC	0D		
9BCD	1C		
9BCE	3B		
9BCF	3A		
9BD0	FE		
		1779	;
		1780	;
9BD1	FD	1781	START_MSG DB NEWP,1,27,P,R,E,S,S,CRGT,S,T,A,R,T,CRGT
9BD2	01		
9BD3	1B		
9BD4	2D		
9BD5	2F		
9BD6	0E		
9BD7	3A		
9BD8	3A		
9BD9	F9		
9BDA	3A		
9BDB	3B		
9BDC	0A		
9BDD	2F		
9BDE	3B		
9BDF	F9		
9BE0	0B	1782	DB B,U,T,T,D,N,CRGT,T,O,CRGT,B,E,G,I,N,EOST
9BE1	3C		
9BE2	3B		
9BE3	3B		
9BE4	2C		
9BE5	2B		
9BE6	F9		
9BE7	3B		
9BE8	2C		
9BE9	F9		
9BEA	0B		
9BEB	0E		
9BEC	1A		
9BED	1C		
9BEE	2B		
9BEF	FE		
		1783	;
		1784	;
9BF0	FD	1785	OFF_START_MSG DB NEWP,1,27,BLNK,BLNK,BLNK,BLNK,BLNK,BLNK
9BF1	01		
9BF2	1B		
9BF3	FF		
9BF4	FF		
9BF5	FF		
9BF6	FF		
9BF7	FF		
9BF8	FF		
9BF9	FF	1786	DB BLNK,BLNK,BLNK,BLNK,BLNK,BLNK,BLNK,BLNK
9BFA	FF		
9BFB	FF		

LOC	OBJ	LINE	SOURCE
9BFC FF			
9BFD FF			
9BFE FF			
9BFF FF			
9C00 FF			
9C01 FF			
9C02 FF		1787	DB BLNK, BLNK, BLNK, BLNK, BLNK, BLNK, BLNK, BLNK
9C03 FF			
9C04 FF			
9C05 FF			
9C06 FF			
9C07 FF			
9C08 FF			
9C09 FF			
9C0A FF			
9C0B FF		1788	DB BLNK, BLNK, BLNK, EOST
9C0C FF			
9C0D FF			
9C0E FE		1789 ;	
9C0F FF		1790 FLASH_OFF	DB BLNK, BLNK, BLNK, BLNK, BLNK, BLNK, BLNK, BLNK, BLNK
9C10 FF			
9C11 FF			
9C12 FF			
9C13 FF			
9C14 FF			
9C15 FF			
9C16 FF			
9C17 FF			
9C18 FF			
9C19 FF			
9C1A 61		1791 ;	
9C1B 55		1792 BOX_XHOME	DB 61H
		1793 BOX_YHOME	DB 55H
		1794 ;	
		1795 ;	
		1796 ;	
		1797 ;*****^*****	
		1798 ;	
000E		1799 HSE_UNIT_LEN	EQU 14
0006		1800 NUM_DIGITS	EQU 6 LENGTH OF PLAYER SCORE
0013		1801 NUM_ENTRYS	EQU 19 NUMBER OF HIGH SCORES
0000		1802 FIRST_ENTRY	EQU 0 OFFSET FOR FIRST ENTRY
0009		1803 ENTRY_LENGTH	EQU 9 LENGTH OF A RESET TABLE ENTRY
05DC		1804 TIME_UP	EQU 25*60 HI SCORE TIME OUT
0960		1805 MAX_TIME	EQU 40*60
		1806 ;	
		1807 ;	EDGES OF HIGH SCORE ALPHABET TABLE
0060		1808 LEFT_EDGE	EQU 60H
0000		1809 RIGHT_EDGE	EQU 0
0000		1810 TOP_EDGE	EQU 0
0030		1811 BOTTOM_EDGE	EQU 30H
		1812 ;	
0126		1813 ULTRA_START	EQU 294
0118		1814 HSE_LENGTH	EQU 280 LENGTH OF HIGH SCORE TABLE

LOC	OBJ	LINE	SOURCE
0015		1815	LENGTH_HSE EQU 21 ;# OF STRUCTURES IN TABLE
		1816	; ;
		1817	CYCLE TIMES FOR EACH ATTRACT MODE SCREEN
0258		1818	ATT_HS_TIME EQU 600
0258		1819	ATT_GS_TIME EQU 600
0190		1820	ATT_I_TIME EQU 400
0258		1821	ATT_L_TIME EQU 600
		1822	;
0FA2		1823	ATT_TABLE_LEN EQU 4002 ;LENGHT OF AREA FOR GAME SIM DATA
		1824	;
000B		1825	FLASH_LEN EQU 11
0005		1826	MAX_FLASH EQU 5
		1827	;
00E6		1828	LOGO_START EQU 0E6H
001A		1829	NUM_L_CHAR EQU 26
00E9		1830	LOGO_XHOME EQU 224
00D0		1831	LOGO_YHOME EQU 208
		1832	;
		1833	;
		1834	;HIGH SCORE *****
		1835	;*****
		1836	;
		1837	; HIGH SCORE TABLE SECTION
		1838	;
		1839	;*****
		1840	;*****
		1841	;
		1842	;
		1843	; THIS IS THE MAIN HIGH SCORE ROUTINE.
		1844	; IT IS CALLED UPON COMPLETION OF A GAME.
		1845	; IT WILL DETERMINE IF THE PLAYER OR PLAYERS
		1846	; SCORE(S) BELONG ON THE HIGH SCORE TABLE,
		1847	; AND ACT ACCORDINGLY.
		1848	;
		1849	; THIS ROUTINE DOES NOT RETURN TO THE POINT FROM WHICH IT
		1850	; WAS CALLED. INSTEAD UPON COMPLETION IT JUMPS TO WARM_START
		1851	; WHICH IS WHERE THE ATTRACT MODE LOOP IS EXECUTED.
		1852	;
		1853	ASSUMES: SCORE6 IS WHERE A PLAYER SCORE BEGINS
		1854	TWO_PLAYER_FL =0 IF ONLY ONE PLAYER
		1855	SCORE7_J CONTAINS THE OTHER SCORE IF 2 PLAYERS
		1856	PLAYER_ID =0 SCORE6 FOR PLAYER 1
		1857	<>0 SCORE6 FOR PLAYER 2
		1858	;
		1859	USES: AX,BP,SI,DI,CX
		1860	;
		1861	RETURNS: UPDATED HSE TABLE
		1862	;
		1863	VARIABLES USED: CHKSUM
		1864	MEM_VALID_FL
		1865	HSE_FL
		1866	TWO_PLAYER_FL
		1867	PLAYER_ID
		1868	;
		1869	DATA TABLES USED:

LOC	OBJ	LINE	SOURCE
		1870	; SCORE6
		1871	; SCORE7_I
		1872	; HSE
		1873	; ;
		1874	CALLS: CHECK_SUM
		1875	HI_SCORE_RESET
		1876	BLNKS_TO_ZEROS
		1877	HI_SCORE_CHANGE
		1878	CLR_FGND_BUF
		1879	CLR_BGND_PART
		1880	WAIT_FOR_NMI
		1881	ZEROS_TO_BLNKS
		1882	; ;
		1883	; ;
		1884	; ;
9C1C		1885	HIGH_SCORE PROC NEAR
		1886	; ;
9C1C E8EF00		1887	CALL TRIPLE_CHECK ;CHECK & CORRECT HSE,HSEA,HSEB
		1888	; ;
		1889	; CLEAR BACKGROUND AND FOREGROUND
		1890	; ;
9C1F C606000000	E	1891	MOV HS_FL,0
9C24 C606000000	E	1892	MOV NUM_FLASH,0
9C29 C606000000	E	1893	MOV ATT_LP_CTR,0
9C2E BB0000	E	1894	MOV AX,OFFSET FLASH_ON
9C31 A30000	E	1895	MOV FLASH_ON_PTR,AX
9C34 C606000000	E	1896	MOV FLASH_FL,0
		1897	; ;
9C39 EBED08		1898	NEXT_PLYR: CALL CLR_FGND_BUF
9C3C EB0000	E	1899	CALL CLR_BGND_PART
9C3F EB0000	E	1900	CALL WAIT_FOR_NMI
		1901	; ;
9C42 C606000000	E	1902	MOV NEIL_X1,0
9C47 C70600002601	E	1903	MOV ULTRA,ULTRA_START
9C4D C6060000FE	E	1904	MOV ULTRA_HSE_FL,-2
		1905	; ;
		1906	COMPUTE CHECK SUM
		1907	; ;
9C52 A00000	E	1908	NEXT_TABLE: MOV AL,ULTRA_HSE_FL
9C55 98		1909	CBW
9C56 40		1910	INC AX
9C57 40		1911	INC AX
9C58 BB08		1912	MOV BX,AX
9C5A BBB70000	E	1913	MOV AX,CHKSUM[BX]
9C5E E8F605		1914	CALL CHECK_SUM
9C61 39870000	E	1915	CMP CHKSUM[BX],AX
9C65 7408		1916	JE CHK_OK
		1917	; ;
		1918	THERE WAS A CHECKSUM ERROR, RESET THE ENTIRE HIGH SCORE TABLE
		1919	; ;
9C67 C606000000	E	1920	CHK_NOT_OK: MOV MEM_VALID_FL,0
9C6C EBDA04		1921	CALL HI_SCORE_RESET
		1922	; ;
9C6F E89505		1923	CHK_OK: CALL BLNKS_TO_ZEROS ; CHANGE LEADING BLANKS TO 0'S
9C72 33ED		1924	XOR BP,BP

LOC	OBJ	LINE	SOURCE
9C74 032E0000	E	1925	ADD BP,ULTRA
		1926 ;	
		1927 ;	LOOP FOR NEXT ENTRY IN HI SCORE TABLE
		1928 ;	
9C78 33F6		1929	NEXT_ENTRY: XOR SI,SI
		1930 ;	
		1931 ;	COMPARE A DIGIT OF PLAYER'S SCORE TO A HIGH SCORE TABLE
		1932 ;	ENTRY DIGIT.
		1933 ;	
9C7A B8B40000	E	1934	CMP_LP: MOV AL,SCORE6[SI]
9C7E 38B20300	E	1935	CMP HSE[BP].SCORE[SI],AL
9C82 7F1B		1936	JG POSSIBLE ;TABLE DIGIT GREATER
9C84 7C08		1937	JL MORE_ENTRYS ;TABLE DIGIT LESS
		1938 ;	
		1939 ;	DIGITS ARE EQUAL, CHECK FOR MORE DIGITS
		1940 ;	
9C86 83FE06		1941	NEXT_DIGIT: CMP SI,NUM_DIGITS ;MORE DIGITS?
9C89 7414		1942	JE POSSIBLE ;NO- PLAYER BELONGS ON TABLE
9C88 46		1943	INC SI ;YES- INCREMENT DIGIT COUNT
9C8C EBEC		1944	JMP CMP_LP
		1945 ;	
		1946 ;	IF THERE ARE MORE TABLE ENTRIES LOOP BACK TO COMPARE
		1947 ;	PLAYER SCORE TO NEXT LARGER ENTRY. IF THERE ARE
		1948 ;	NO MORE ENTRIES THEN PLAYERS SCORE BELONGS ON TABLE.
		1949 ;	
9C8E BB1E0000	E	1950	MORE_ENTRYS: MOV BX,ULTRA
9C92 B1C30A01		1951	ADD BX,NUM_ENTRYS*HSE_UNIT_LEN
9C96 3BEB		1952	CMP BP,BX
9C98 7413		1953	JE NEW_HS
9C9A B3C50E		1954	ADD BP,HSE_UNIT_LEN
9C9D EBD9		1955	JMP NEXT_ENTRY
		1956 ;	
		1957 ;	THE PLAYER'S SCORE WAS LESS THAN THE HIGH SCORE TABLE
		1958 ;	ENTRY. HOWEVER AS LONG AS IT WASN'T THE BOTTOM ENTRY
		1959 ;	WITH WHICH IT WAS BEING COMPARED THE SCORE BELONGS ON THE TABLE
		1960 ;	SO FALL THRU TO NEW_HS.
		1961 ;	
9C9F BB1E0000	E	1962	POSSIBLE: MOV BX,ULTRA
9CA3 B3C300		1963	ADD BX,FIRST_ENTRY
9CA6 3BEB		1964	CMP BP,BX
9CAB 7406		1965	JE SECOND_TABLE
9CAA B3C5F2		1966	ADD BP,-HSE_UNIT_LEN ;SET BP TO MARK LOC FOR NEW HS
		1967 ;	
		1968 ;	CALL ROUTINE THAT CHANGES HIGH SCORE
		1969 ;	
9CAD E88E01		1970	NEW_HS: CALL HI_SCORE_CHANGE
		1971 ;	
9CB0 EB7B05		1972	SECOND_TABLE: CALL ZEROS_TO_BLNKS
9CB3 E8A105		1973	CALL CHECK_SUM
9C86 B03E000000	E	1974	CMP ULTRA_HSE_FL,0
9CBB 7410		1975	JE TWO_PLYR
9CBD C70600000000	E	1976	MOV ULTRA,0
9CC3 FE060000	E	1977	INC ULTRA_HSE_FL
9CC7 FE060000	E	1978	INC ULTRA_HSE_FL
9CC8 E8B5		1979	JMP NEXT_TABLE

LOC	OBJ	LINE	SOURCE	
		1980	;	
		1981	;	DETERMINE IF 2 PLAYERS.
		1982	;	1- FALL THRU
		1983	;	2- BOTH SCORES CHECKED?
		1984	;	YES- FALL THRU
		1985	;	NO- SWAP SCORES AND START ALL OVER.
		1986	;	
9C0D 803E000000	E	1987	TWO_PLYR:	CMP TWO_PLAYER_FL,0 ;TWO PLAYERS?
9C02 742B		1988		JE ALL_DONE ;ONLY ONE- FALL THRU
9C04 803E000000	E	1989		CMP HS_FL,0 ;TWO PLYRS- BOTH DONE?
9C09 7524		1990		JNE ALL_DONE ;YES- FALL THRU
		1991	;	
		1992	;	SWAP PLAYERS SCORES
		1993	;	
9CDB FE060000	E	1994		INC HS_FL
9CDF FC		1995		CLD
9CE0 803E000000	E	1996		CMP PLAYER_ID,0
9CE5 7405		1997		JE ID0
9CE7 C6060000FF	E	1998		MOV PLAYER_ID,-1
9CEC 8006000001	E	1999	ID0:	ADD PLAYER_ID,1
9CF1 BE0100	E	2000		MOV SI,OFFSET SCORE7_I+1
9CF4 BF0000	E	2001		MOV DI,OFFSET SCORE6
9CF7 B90700		2002		MOV CX,7
9CFA F3		2003		REP MOVS B
9CFB A4				
9CFC E93AFF		2004		JMP NEXT_PLYR ;BEGIN AGAIN
		2005	;	
9CFF EB0C00		2006	ALL_DONE:	CALL TRIPLE_CHECK ;NOW, MAKE TRIPPLICATE
9D02 C606000000	E	2007		MOV ACTIVITY_FL,0
9D07 E87C00		2008		CALL CHECK_FLASHING
9D0A E90000	E	2009	NOW_ALL_DONE:	JMP NARM_START
		2010	;	
9D0D C3		2011		RET
		2012	HIGH_SCORE	ENDP
		2013	;	
		2014 +1	\$EJECT	

LOC	OBJ	LINE	SOURCE
		2015	;-----
		2016	
9D0E		2017	TRIPLE_CHECK PROC NEAR
		2018	
		2019	; THIS PROCEDURE WILL CHECK THE HSE TABLE AND IT'S COPIES
		2020	; UPON EXIT OF THIS PROCEDURE, ALL THREE TABLE ARE CORRECT
		2021	
9D0E BE0000	E	2022	MOV SI,OFFSET ULTRA_HSE
9D11 E86400		2023	CALL GET_SUM
9D14 3B1E0000	E	2024	CMP BX,CHKSUM ;SEE THE FIRST ONE OK
9D18 742D		2025	JE TRIPLE_COPY
		2026	
		2027	; IF FIRST ONE IS BAD, CHECK THE SECOND
		2028	
9D1A BE0000	E	2029	MOV SI,OFFSET HSEA
9D1D E85800		2030	CALL GET_SUM
9D20 3B1E0000	E	2031	CMP BX,CHKSUMA
9D24 7421		2032	JE TRIPLE_COPY
		2033	
		2034	; IF SECOND ONE IS BAD, CHECK THE THIRD
		2035	
9D26 BE0000	E	2036	MOV SI,OFFSET HSEB
9D29 E84C00		2037	CALL GET_SUM
9D2C 3B1E0000	E	2038	CMP BX,CHKSUMB
9D30 7415		2039	JE TRIPLE_COPY
		2040	
		2041	; IF ALL BAD, RESET THE FIRST
		2042	
9D32 C70600002601	E	2043	MOV ULTRA,ULTRA_START
9D38 C606000000	E	2044	MOV KEEP_FIVE_FL,0
9D3D C6060000FE	E	2045	MOV ULTRA_HSE_FL,-2
9D42 E80404		2046	CALL HI_SCORE_RESET ;GET THE FIRST ONE RIGHT
9D45 EB0B		2047	JMP SHORT TRIPLE_COPY2
		2048	
		2049	; COPY THE AREA POINTED BY SI TO THE FIRST AREA
		2050	
9D47 BF0000	E	2051	TRIPLE_COPY: MOV DI,OFFSET ULTRA_HSE
9D4A B9BC00		2052	MOV CX,HSE_LENGTH/2
9D4D F3		2053	REP MOVSW ;COPY TO HSE
9D4E A5		2054	
9D4F BE0000	E	2055	TRIPLE_COPY2: MOV SI,OFFSET ULTRA_HSE ;COPY HSE TO HSEA
9D52 BF0000	E	2056	MOV DI,OFFSET HSEA
9D55 B9BC00		2057	MOV CX,HSE_LENGTH/2
9D58 F3		2058	REP MOVSW
9D59 A5		2059	
9D5A BE0000	E	2060	MOV SI,OFFSET ULTRA_HSE ;COPY HSE TO HSEB
9D5D BF0000	E	2061	MOV DI,OFFSET HSEB
9D60 B9BC00		2062	MOV CX,HSE_LENGTH/2
9D63 F3		2063	REP MOVSW
9D64 A5		2064	
9D65 BE0000	E	2065	MOV SI,OFFSET ULTRA_HSE
9D68 EB0D00		2066	CALL GET_SUM

LOC	OBJ	LINE	SOURCE
9D6B	891E0000	E 2067	MOV CHKSUM,BX
9D6F	891E0000	E 2068	MOV CHKSUMA,BX
9D73	891E0000	E 2069	MOV CHKSUMB,BX
		2070	
9D77	C3	2071	RET
		2072	
		2073 TRIPLE_CHECK	ENDP
		2074	
		2075 +1	\$EJECT

LOC	OBJ	LINE	SOURCE
		2076	;-----
		2077	
9D78		2078	GET_SUM PROC NEAR
		2079	
		2080	; RETURNS CHECKSUM OF AREA POINTED BY SI
		2081	; THE VALUE OF SI RETAINED
		2082	
9D78 56		2083	PUSH SI
9D79 B98C00		2084	MOV CX,HSE_LENGTH/2
9D7C 33DB		2085	XOR BX,BX
9D7E FC		2086	CLD
9D7F AD		2087	GET_SUM_LP: LODSW ;AX=NEXT WORD
9D80 03D8		2088	ADD BX,AX
9D82 E2FB		2089	LOOP GET_SUM_LP
9D84 5E		2090	POP SI
9D85 C3		2091	RET
		2092	
		2093	GET_SUM ENDP
		2094	
		2095	+1 \$EJECT

LDC	OBJ	LINE	SOURCE
		2096	;-----
		2097	
9D86		2098	CHECK_FLASHING PROC
9D86 803E000001	E	2099	CMP NUM_FLASH,1
9D88 7F03		2100	JG CF1
9D8D E9AD00		2101	JMP CHK_FLSH_END
9D90 BB0000	E	2102	CF1: MOV AX,OFFSET FLASH_DN
9D93 A30000	E	2103	MOV FLASH_DN_PTR,AX
		2104	
9D96 BB1E0000	E	2105	MOV BX,FLASH_ON_PTR
9D9A 803E000002	E	2106	CMP NUM_FLASH,2
9D9F 7526		2107	JNE TRY_3
		2108	
9DA1 BB4711		2109	CF3: MOV AX,[BX+17]
9DA4 3B4724		2110	CMP AX,[BX+17+HSE_UNIT_LEN+5]
9DA7 7E03		2111	JLE CF4
9DA9 E99100		2112	JMP CHK_FLSH_END
9DAC BB6F11		2113	CF4: MOV BP,[BX+17]
9DAF B3FD00		2114	CMP BP,0
9DB2 7506		2115	JNE NOT_LAST
9DB4 BE0000		2116	MOV SI,0
9DB7 EB0890		2117	JMP LAST
9DBA 83C5F2		2118	NOT_LAST: ADD BP,-HSE_UNIT_LEN
9DBD BBB60100	E	2119	MOV SI,WORD PTR HSE[BP].LOC[1]
9DC1 897701		2120	LAST: MOV [BX+1],SI
9DC4 EB7790		2121	JMP CHK_FLSH_END
		2122	
9DC7 803E000003	E	2123	TRY_3: CMP NUM_FLASH,3
9DCC 7536		2124	JNE TRY_4
9DCE B37F0F00		2125	CMP WORD PTR[BX+15],0
9DD2 7569		2126	JNE CHK_FLSH_END
9DD4 B17F222601		2127	CMP WORD PTR[BX+15+HSE_UNIT_LEN+5],ULTRA_START
9DD9 7562		2128	JNE CHK_FLSH_END
9DD8 B37F3500		2129	CMP WORD PTR[BX+15+HSE_UNIT_LEN+5+HSE_UNIT_LEN+5],0
9DDF 755C		2130	JNE CHK_FLSH_END
9DE1 BB4711		2131	MOV AX,[BX+17]
9DE4 3B4724		2132	CMP AX,[BX+17+HSE_UNIT_LEN+5]
9DE7 7F54		2133	JG CHK_FLSH_END
9DE9 BB6F11		2134	MOV BP,[BX+17]
9DEC B3FD00		2135	CMP BP,0
9DEF 7506		2136	JNE NOT_LAST1
9DF1 BE0000		2137	MOV SI,0
9DF4 EB0890		2138	JMP LAST1
9DF7 83C5F2		2139	NOT_LAST1: ADD BP,-HSE_UNIT_LEN
9DFA BBB60100	E	2140	MOV SI,WORD PTR HSE[BP].LOC[1]
9DFE 897701		2141	LAST1: MOV [BX+1],SI
9E01 EB3A90		2142	JMP CHK_FLSH_END
		2143	
9E04 BB4711		2144	TRY_4: MOV AX,[BX+17]
9E07 3B4737		2145	CMP AX,[BX+17+HSE_UNIT_LEN+5+HSE_UNIT_LEN+5]
9E0A 7F31		2146	JG CHK_FLSH_END
9E0C BB6F11		2147	MOV BP,[BX+17]
9EOF B1FD2601		2148	CMP BP,ULTRA_START
9E13 7506		2149	JNE NOT_LAST2
9E15 BE0000		2150	MOV SI,0

LOC	OBJ	LINE	SOURCE
9E18	EB0890	2151	JMP LAST2
9E1B	83C5F2	2152	NOT_LAST2: ADD BP,-HSE_UNIT_LEN
9E1E	BBB60100	E 2153	MOV SI,WORD PTR HSE[BP].LOC[1]
9E22	897701	2154	LAST2: MOV [BX+1],SI
9E25	886F24	2155	MOV BP,[BX+17+HSE_UNIT_LEN+5]
9E28	83FD00	2156	CMP BP,0
9E2B	7506	2157	JNE NOT_LAST3
9E2D	BE0000	2158	MOV SI,0
9E30	EB0890	2159	JMP LAST3
9E33	83C5F2	2160	NOT_LAST3: ADD BP,-HSE_UNIT_LEN
9E36	BBB60100	E 2161	MOV SI,WORD PTR HSE[BP].LOC[1]
9E3A	897714	2162	LAST3: MOV [BX+1+HSE_UNIT_LEN+5],SI
9E3D	C3	2163	
9E3D	C3	2164	CHK_FLSH_END: RET
9E3D	C3	2165	CHECK_FLASHING ENDP
9E3D	C3	2166	
9E3D	C3	2167	
9E3D	C3	2168	
9E3D	C3	2169	
9E3D	C3	2170	
9E3D	C3	2171	
9E3D	C3	2172	
9E3D	C3	2173	;
9E3D	C3	2174	;HI SCORE CHANGE :::::::::::::::::::::
9E3D	C3	2175	;
9E3D	C3	2176	;
9E3D	C3	2177	;
9E3D	C3	2178	THIS ROUTINE SHIFTS THE HI SCORE TABLE ENTRIES MAKING
9E3D	C3	2179	ROOM FOR THE NEW HIGH SCORE AND THEN INSERTS THE NEW SCORE
9E3D	C3	2180	;
9E3D	C3	2181	ASSUMES: BP A PTR TO NEW SCORE'S LOCATION IN HSE TABLE
9E3D	C3	2182	SCORE6 IS WHERE A PLAYER'S SCORE BEGINS
9E3D	C3	2183	;
9E3D	C3	2184	USES: BX,BP,SI,DI,CX
9E3D	C3	2185	;
9E3D	C3	2186	RETURNS: UPDATED HSE TABLE
9E3D	C3	2187	;
9E3D	C3	2188	VARIABLES USED: FIRST_ENTRY
9E3D	C3	2189	;
9E3D	C3	2190	DATA TABLES USED:
9E3D	C3	2191	HSE
9E3D	C3	2192	SCORE6
9E3D	C3	2193	;
9E3D	C3	2194	CALLS: INITIALS_INPUT
9E3D	C3	2195	ZEROS_TO_BLNKS
9E3D	C3	2196	;
9E3D	C3	2197	;
9E3E		2198	HI_SCORE_CHANGE PROC NEAR
9E3E	FC	2199	CLD
9E3F	33DB	2200	XOR BX,BX
9E41	031E0000	E 2201	ADD BX,ULTRA
9E45	88360000	E 2202	MOV SI,ULTRA
9E49	83C600	2203	ADD SI,FIRST_ENTRY
9E4C	3BEE	2204	CMP BP,SI ;SCORE REPLACED IS ON BOTTOM?
9E4E	7506	2205	JNE NXT_SHIFT

LOC	OBJ	LINE	SOURCE
9E50	EBB702	2206	CALL SCORE_BUMPED
9E53	7322	2207	JNC NO_SHIFT
9E55	C3	2208	RET
		2209	;SCORE WILL BE BUMPED SO IGNORE
		2210 ;	
9E56	8DB71100	E 2211	NXT_SHIFT: LEA SI,HSE[BX+HSE_UNIT_LEN].SCORE ;SHIFT SCORE
9E5A	8DBF0300	E 2212	LEA DI,HSE[BX].SCORE
9E5E	B90700	2213	MOV CX,7
9E61	F3	2214	REP MOVSB
9E62	A4		
		2215 ;	
9E63	8DB71900	E 2216	LEA SI,HSE[BX+HSE_UNIT_LEN].INITIAL ;SHIFT INITIALS
9E67	8DBF0B00	E 2217	LEA DI,HSE[BX].INITIAL
9E6B	B90300	2218	MOV CX,3
9E6E	F3	2219	REP MOVSB
9E6F	A4		
		2220 ;	
9E70	83C30E	2221	ADD BX,HSE_UNIT_LEN
9E73	3B0D	2222	CMP BX,BP ;ALL SCORES SHIFTED?
9E75	7CDF	2223	JL NXT_SHIFT ;NO-LOOP BACK
		2224 ;	
9E77	8D360000	E 2225	NO_SHIFT: LEA SI,SCORE6 ;INSERT NEW SCORE
9E7B	8DBE0300	E 2226	LEA DI,HSE[BP].SCORE
9E7F	B90700	2227	MOV CX,7
9E82	F3	2228	REP MOVSB
9E83	A4		
		2229 ;	
		2230	
		2231 ;	
9E84	803E000001	E 2232	CMP BYTE PTR NEIL_X1,1
9E89	7417	2233	JE SAME_INITS
9E8B	C6860B00F9	E 2234	MOV HSE[BP].INITIAL[0],CRGT ;SET INITIALS TO BLANKS
9E90	C6860C00F9	E 2235	MOV HSE[BP].INITIAL[1],CRGT
9E95	C6860D00F9	E 2236	MOV HSE[BP].INITIAL[2],CRGT
9E9A	55	2237	PUSH BP
9E9B	E85100	2238	CALL INITIALS_INPUT ;LET PLAYER ENTER INITS
9E9E	5D	2239	POP BP
9E9F	EB1690	2240	JMP SKIP_INITS
		2241 ;	
9EA2	A00300	E 2242	SAME_INITS: MOV AL,NEW_INITS[3]
9EA5	88860B00	E 2243	MOV HSE[BP].INITIAL[0],AL
9EA9	A00400	E 2244	MOV AL,NEW_INITS[4]
9EAC	88860C00	E 2245	MOV HSE[BP].INITIAL[1],AL
9EB0	A00500	E 2246	MOV AL,NEW_INITS[5]
9EB3	88860D00	E 2247	MOV HSE[BP].INITIAL[2],AL
		2248 ;	
9EB7	E87403	2249	SKIP_INITS: CALL ZEROS_TO_BLNKS
		2250	
9EBA	8B3E0000	E 2251	MOV DI,FLASH_ON_PTR
9EBE	C605FD	2252	MOV BYTE PTR[DI],NEWP
9EC1	88860100	E 2253	MOV SI,WORD PTR HSE[BP].LOC[1]
9EC5	897501	2254	MOV [DI+1],SI
		2255	
9EC8	83C703	2256	ADD DI,3
9ECB	BE0F9C	2257	MOV SI,OFFSET FLASH_OFF

LOC	OBJ	LINE	SOURCE
9ECE B90B00		2258	MOV CX,FLASH_LEN
9ED1 F3		2259	REP MOVSB
9ED2 A4		2260	
9ED3 C605FE		2261	MOV BYTE PTR[DI],EOST
9ED6 8B360000	E	2262	MOV SI,ULTRA
9EDA 897501		2263	MOV WORD PTR[DI+1],SI
9EDD 896D03		2264	MOV [DI+3],BP
9EE0 FE060000	E	2265	INC NUM_FLASH
9EE4 C606000001	E	2266	MOV FLASH_FL,1
9EE9 8306000013	E	2267	ADD FLASH_ON_PTR,HSE_UNIT_LEN\$+5
9EEE C3		2268	RET
		2269	HI_SCORE_CHANGE ENDP
		2270	;
		2271	;
		2272	;
		2273	;INITIALS INPUT :::::::::::::::::::::
		2274	;
		2275	;
		2276	;
		2277	THIS ROUTINE PRINTS THE HI SCORE MESSEGE AND MOVES
		2278	THE BOX WITHIN THE ALPHABET TABLE ON THE SCREEN AS
		2279	PER THE PLAYER'S JOYSTICK MOVEMENTS
		2280	;
		2281	ASSUMES: TWO_PLAYER_FL =0 IF ONE PLAYER
		2282	WHEN 2 PLAYERS
		2283	PLAYER_ID =0 SCORE6 FOR PLYR 1
		2284	>>0 SCORE6 FOR PLYR 2
		2285	;
		2286	USES: AX,BX,DX,SI
		2287	;
		2288	RETURNS: UPDATED HSE TABLE
		2289	UPDATED NEW_INITS TABLE
		2290	;
		2291	VARIABLES USED: INIT_COUNT
		2292	BOX_XPOS
		2293	BOX_YPOS
		2294	JOYSTICK
		2295	NEIL_CTR3
		2296	;
		2297	DATA TABLES USED:
		2298	NEW_INITS
		2299	;
		2300	CALLS: WAIT_FOR_NMI
		2301	ENTER_INITIAL
		2302	HS_INIT_PRINT
		2303	;
		2304	;
9EEF		2305	INITIALS_INPUT PROC NEAR
9EEF B03E000000	E	2306	CMP ULTRA_HSE_FL,0
9EF4 7405		2307	JE NOT_ON_ULTRA
9EF6 C606000001	E	2308	MOV BYTE PTR NEIL_X1,1
		2309	;
9EFB C70600006009	E	2310	NOT_ON_ULTRA: MOV NEIL_CTR3,MAX_TIME ;SET COUNTER FOR MAX TIME OUT
9F01 33D2		2311	XOR DX,DX

LOC	OBJ	LINE	SOURCE
9F03 C606000000	E	2312	MOV INIT_COUNT,0
9F08 C6060300F9	E	2313	MOV NEW_INITS[3],CRGT ;BLANK OUT NEW INITIALS
9F0D C6060400F9	E	2314	MOV NEW_INITS[4],CRGT
9F12 C6060500F9	E	2315	MOV NEW_INITS[5],CRGT
9F17 C6060600FE	E	2316	MOV NEW_INITS[6],EOST
9F1C C6060000FD	E	2317	MOV NEW_INITS[0],NEWP
9F21 C60601000D	E	2318	MOV NEW_INITS[1],I3
9F26 C60602000B	E	2319	MOV NEW_INITS[2],II
		2320 ;	
		2321 ;	STARTING BOX POSITION
9F2B C606000030	E	2322	MOV BOX_XPOS,BOTTOM_EDGE
9F30 C606000000	E	2323	MOV BOX_YPOS,0
9F35 EB0000	E	2324	CALL WAIT_FOR_NMI
		2325 ;	
9F38 EB6801		2326 INIT_INPUT_LP:	CALL HS_INIT_PRINT ;MOVE BOX & DISPLAY MESSAGES
		2327 ;	
		2328 ;	POSITION CURSOR
9F3B BF0000	E	2329 POSIT_CURSOR:	MOV DI,OFFSET FGND_REG_BUF
9F3E B3C704		2330	ADD DI,4
9F41 803E000003	E	2331	CMP INIT_COUNT,3
9F46 7406		2332	JE BLANK_OUT
9F48 C64502E5		2333	MOV BYTE PTR[DI+2],BOX
9F4C EB04		2334	JMP SHORT POSIT
9F4E C6450200		2335 BLANK_OUT:	MOV BYTE PTR[DI+2],0
9F52 C6450151		2336 POSIT:	MOV BYTE PTR[DI+1],81
9F56 A00000	E	2337	MOV AL,INIT_COUNT
9F59 B103		2338	MOV CL,3
9F5B D2E0		2339	SHL AL,CL
9F5D F6D8		2340	NEG AL
9F5F 048E		2341	ADD AL,142
9F61 8805		2342	MOV [DI],AL
		2343 ;	
		2344 ;	
		2345 ;	
		2346 ;	READ JOYSTICK AND MOVE ACCORDINGLY
		2347 ;	
9F63 A00000	E	2348	MOV AL,JOYSTICK
9F66 AB70		2349	TEST AL,TRIGGER_MASK+BOTH_PLAYER_MASK ;TRIGGER HELD
9F68 7406		2350	JZ NO_TRIGGER ;NO- DETERMINE MOVE DIRECTION
9F6A EB6100		2351	CALL ENTER_INITIAL ;YES-INITIAL IS TO BE ENTERED
9F6D EB4B90		2352	JMP NO_MOV
		2353 ;	
		2354 ;	DETERMINE JOYSTICK DIRECTION AND JUMP TO CORRECT
		2355 ;	MOVE ROUTINE
		2356 ;	
9F70 AB02		2357 NO_TRIGGER:	TEST AL,JSRT_MASK
9F72 750F		2358	JNZ MOV_RIGHT
9F74 AB08		2359	TEST AL,JSLT_MASK
9F76 7519		2360	JNZ MOV_LEFT
9F78 AB01		2361 MOV_VERT:	TEST AL,JSUP_MASK
9F7A 7523		2362	JNZ MOV_UP
9F7C AB04		2363	TEST AL,JSDN_MASK
9F7E 752E		2364	JNZ MOV_DOWN
9F80 EB3890		2365	JMP NO_MOV
		2366 ;	

LOC	OBJ	LINE	SOURCE	
9F83	803E000000	E 2367	MOV_RIGHT:	CMP BOX_YPOS,RIGHT_EDGE ;CHECK RANGE
9F88	7630	2368		JBE NO_MOV ;NO MOVE- BOX AT AN EDGE
9F8A	802E000001	E 2369		SUB BOX_YPOS,1 ;MOVE BOX ONE PIXEL
9F8F	E8E7	2370		JMP MOV_VERT ;NOW CHECK FOR VERTICAL MOTION
		2371	;	
9F91	803E000060	E 2372	MOV_LEFT:	CMP BOX_YPOS,LEFT_EDGE ;CHECK RANGE
9F96	7322	2373		JAE NO_MOV ;NO MOVE- BOX AT AN EDGE
9F98	8006000001	E 2374		ADD BOX_YPOS,1 ;MOVE BOX ONE PIXEL
9F9D	E8D9	2375		JMP MOV_VERT ;NO CHECK FOR VERTICAL MOTION
		2376	;	
9F9F	803E000000	E 2377	MOV_UP:	CMP BOX_XPOS,TOP_EDGE ;CHECK RANGE
9FA4	7614	2378		JBE NO_MOV ;NO MOVE- BOX AT AN EDGE
9FA6	802E000001	E 2379		SUB BOX_XPOS,1 ;MOVE BOX ONE PIXEL
9FAB	E8D9	2380		JMP NO_MOV
		2381	;	
9FAE	803E000030	E 2382	MOV_DOWN:	CMP BOX_XPOS,BOTTOM_EDGE ;CHECK RANGE
9FB3	7305	2383		JAE NO_MOV ;NO MOVE- BOX AT AN EDGE
9FB5	8006000001	E 2384		ADD BOX_XPOS,1 ;MOVE BOX ONE PIXEL
		2385	;	
9FBA	E80000	E 2386	NO_MOV:	CALL WAIT_FOR_NMI
		2387	;	
		2388	;	IF TIME HAS RUN OUT FALL THRU
		2389	;	
9FBD	42	2390		INC DX
9FBE	81FADC05	2391		CMP DX,TIME_UP
9FC2	7309	2392		JAE DONE
9FC4	FF0E0000	E 2393		DEC NEIL_CTR3
9FC8	7403	2394		JZ DONE
9FC9	E96BFF	2395		JMP INIT_INPUT_LP ;LOOP BACK FOR NEW JOYSTICK INPUTS
		2396	;	
9FCD	C3	2397	DONE:	RET
		2398	INITIALS_INPUT	ENDP
		2399	;	
		2400	;	
		2401	;	
		2402	:ENTER INITIAL :::::::::::::::::::::	
		2403	;	
		2404	;	
		2405	;	
		2406	;	DETERMINE WHICH INITIAL THE BOX IS POINTING TO
		2407	;	AND ENTER IT IN THE TABLE.
		2408	;	
		2409	;	
		2410	;	ASSUMES: BP A PTR TO NEW SCORE'S LOCATION IN HSE TABLE
		2411	;	
		2412	;	USES: AX,BX,CX,BP,SI
		2413	;	
		2414	;	RETURNS: UPDATED NEW_INITS TABLE
		2415	;	UPDATED HSE TABLE
		2416	;	
		2417	;	VARIABLES USED: BOX_XPOS
		2418	;	BOX_YPOS
		2419	;	INIT_COUNT
		2420	;	JOYSTICK
		2421	;	NEIL_CTR

LOC	OBJ	LINE	SOURCE
		2422	;
		2423	;
		2424	DATA TABLES USED:
		2425	INITIAL_TABLE
		2426	NEW_INITS
		2427	HSE
		2428	CALLS: WAIT_FOR_NMI
		2429	HS_INIT_PRINT
		2430	;
		2431	;
9FCE		2432	ENTER_INITIAL PROC NEAR
		2433	;
		2434	THESE SHIFTS CONVERT THE BOX POSITION TO A LOCATION
		2435	IN THE INITIAL TABLE.
		2436	;
9FCE B104		2437	MOV CL,4
9FD0 A00000	E	2438	MOV AL,BOX_XPOS
9FD3 0408		2439	ADD AL,8
9FD5 D2E8		2440	SHR AL,CL
9FD7 A20000	E	2441	MOV BOX_XPOS,AL
		2442	;
9FDA B307		2443	MOV BL,7
9FDC F6E3		2444	MUL BL
9FDE 8A260000	E	2445	MOV AH,BOX_YPOS
9FE2 80C408		2446	ADD AH,8
9FE5 B104		2447	MOV CL,4
9FE7 D2EC		2448	SHR AH,CL
9FE9 8B260000	E	2449	MOV BOX_YPOS,AH
		2450	;
9FED 02C4		2451	ADD AL,AH
9FEF 32FF		2452	XOR BH,BH
9FF1 8AD8		2453	MOV BL,AL
9FF3 8A8FB098		2454	MOV CL,INITIAL_TABLE[BX]
9FF7 8A1E0000	E	2455	MOV BL,INIT_COUNT
9FFB 8BF3		2456	MOV SI,BX
		2457	;
9FFD 80F977		2458	SPEC_CHAR: CMP CL,SPACE ;IS IT A SPACE?
A000 750C		2459	JNE NOT_SPACE ;NO-JUMP TO NOT_SPACE
A002 803E000003	E	2460	SPCE: CMP INIT_COUNT,3 ;YES- ALREADY 3 INITIALS ENTERED?
A007 7449		2461	JE GET_OUT ; YES- IGNORE INPUT
A009 B1F9		2462	MOV CL,CRGT ; NO- INSERT A SPACE
A00B EB1690		2463	JMP INSERT_INITS
		2464	;
A00E 80F97F		2465	NOT_SPACE: CMP CL,BACKUP ;IS IT A BACKUP?
A011 7510		2466	JNE INSERT_INITS ;NO- MUST BE A LETTER- ENTER IT
A013 803E000000	E	2467	BCKUP: CMP INIT_COUNT,0 ;YES- ANY INITIALS TO ERASE?
A018 7447		2468	JE ALIGN_BOX ;NO- IGNORE INPUT
A01A FE0E0000	E	2469	DEC INIT_COUNT ;YES-DECREMENT INITIAL COUNTER
A01E 4E		2470	DEC SI
A01F B1FF		2471	MOV CL,BLANK ;BLANK OUT OLD INITIAL
A021 33D2		2472	XOR DX,DX ;ALLOW MORE TIME
		2473	;
		2474	;
		2475	INSERT_INITS: CMP INIT_COUNT,3 ;ALREADY 3 INITIALS ENTERED?
A023 803E000003	E	2476	JE GET_OUT ;YES- IGNORE INPUT

LOC	OBJ	LINE	SOURCE	
A02A	888C0300	E 2477	MOV NEW_INITS[SI+3],CL	;NO- INSERT NEW INITIAL
A02E	888A0B00	E 2478	MOV HSE[BP1].INITIAL[SI],CL	
A032	FE060000	E 2479	INC INIT_COUNT	;INCREMENT INITIAL COUNTER
		2480 ;		
		2481 ;		IF CHARACTER WAS BACKUP DECREMENT INITIAL COUNTER
A036	80F9FF	2482	CMP CL,BLK	
A039	7504	2483	JNE MOVE_BOX	
A03B	FE0E0000	E 2484	DEC INIT_COUNT	
		2485 ;		
A03F	803E000003	E 2486	MOVE_BOX:	CMP INIT_COUNT,3
A044	751B	2487	JNE ALIGN_BOX	
A046	C606000030	E 2488	MOV BOX_XPOS,BOTTOM_EDGE	
A04B	C606000000	E 2489	MOV BOX_YPOS,0	
		2490 ;		
		2491 ;		
A050	EB25	2492	JMP SHORT DONT_ALIGN	
		2493 ;		
A052	BADC05	2494	GET_OUT:	MOV DX,TIME_UP ;YES- TIME OUT
A055	C606000030	E 2495	MOV BOX_XPOS,BOTTOM_EDGE	
A05A	C606000000	E 2496	MOV BOX_YPOS,0	
A05F	EB16	2497	JMP SHORT DONT_ALIGN	
		2498 ;		
		2499 ;		SHIFT BOX DIRECTLY OVER CHARACTER ENTERED
A061	A00000	E 2500	ALIGN_BOX:	MOV AL,BOX_XPOS
A064	B104	2501	MOV CL,4	
A066	D2E0	2502	SHL AL,CL	
A068	A20000	E 2503	MOV BOX_XPOS,AL	
A06B	BA260000	E 2504	MOV AH,BOX_YPOS	
A06F	B104	2505	MOV CL,4	
A071	D2E4	2506	SHL AH,CL	
A073	88260000	E 2507	MOV BOX_YPOS,AH	
		2508 ;		
		2509 ;		
		2510 ;		DEBOUNCE THE TRIGGER
A077	C70600007B00	E 2511	DONT_ALIGN:	MOV NEIL_CTR,120
A07D	EB0000	E 2512	trigger_HELD:	CALL WAIT_FOR_NMI
A080	EB2000	2513	CALL HS_INIT_PRINT	
A083	FF0E0000	E 2514	DEC NEIL_CTR	
A087	7407	2515	JZ WAIT_MORE	
A089	F606000010	E 2516	TEST JOYSTICK,TRIGGER_MASK	
A08E	75ED	2517	JNZ trigger_HELD	
		2518 ;		
		2519 ;		A LITTLE EXTRA DEBOUNCING
A090	C7060000F00	E 2520	WAIT_MORE:	MOV NEIL_CTR,15
A096	EB0000	E 2521	EXTRA_WAIT:	CALL WAIT_FOR_NMI
A099	EB0700	2522	CALL HS_INIT_PRINT ;REFRESH SCREEN	
A09C	FF0E0000	E 2523	DEC NEIL_CTR	
A0A0	75F4	2524	JNZ EXTRA_WAIT	
		2525 ;		
		2526 ;		
A0A2	C3	2527	ENTER_INITIAL RET	ENDP
		2528 ;		
		2529 ;		
		2530 ;		
		2531 ;		

LOC	OBJ	LINE	SOURCE
		2532	;HS INIT PRINT :::::::::::::::::::::
		2533	;
		2534	;
		2535	;
		2536	MOVE BOX, DETERMINE APPROPRIATE PLAYER # AND REFRESH SCREEN
		2537	;
		2538	;
		2539	;
		2540	; ASSUMES: NONE
		2541	;
		2542	; USES: ALL REGISTER CONTENTS ARE SAVED AND RESTORED
		2543	;
		2544	; RETURNS: NONE
		2545	;
		2546	; VARIABLES USED: NONE
		2547	;
		2548	; DATA TABLES USED:
		2549	FGND_REG_BUF
		2550	;
		2551	; CALLS: PRINT
		2552	;
A0A3		2553	HS_INIT_PRINT PROC
		2554	;
		2555	; SAVE REGISTERS
		2556	;
A0A3 50		2557	PUSH AX
A0A4 53		2558	PUSH BX
A0A5 51		2559	PUSH CX
A0A6 52		2560	PUSH DX
A0A7 55		2561	PUSH BP
A0A8 56		2562	PUSH SI
A0A9 57		2563	PUSH DI
		2564	;
		2565	; UPDATE BOX POSITION
		2566	;
A0AA BB0000	E	2567	MOV BX,OFFSET FGND_REG_BUF
A0AD A01A9C		2568	MOV AL,BOX_XHOME
A0B0 8A261B9C		2569	MOV AH,BOX_YHOME
A0B4 02060000	E	2570	ADD AL,BOX_XPOS
A0B8 02260000	E	2571	ADD AH,BOX_YPOS
A0BC 8827		2572	MOV [BX],AH
A0BE 884701		2573	MOV [BX+1],AL
A0C1 C64702E5		2574	MOV BYTE PTR[BX+2],BOX
		2575	;
		2576	; PRINT SCREEN MESSEGES
		2577	;
A0C5 803E000000	E	2578	CMP TWO_PLAYER_FL,0 ;TWO PLAYERS?
A0CA 7509		2579	JNE TWO_PLYRS ;YES- JUMP TO TWO_PLYRS
A0CC BE9B9A		2580	MOV SI,OFFSET HS_1P_MSG ;NO- PRINT 1 PLAYER MESSEGE
A0CF EB0000	E	2581	CALL PRINT
A0D2 EB0F90		2582	JMP COMMON_MSG ;PRINT THE COMMON MESSEGE
		2583	;
		2584	TWO PLAYERS, PRINT APPROPRIATE PLAYER # MESSEGE
		2585	;
A0D5 A00000	E	2586	TWO_PLYRS: MOV AL,PLAYER_ID

LOC	OBJ	LINE	SOURCE	
A0D8	FEC0	2587	INC AL	
A0DA	A26300	E 2588	MOV BGND_REG+63H,AL	
A0DD	BEB69A	2589	MOV SI,OFFSET HS_2P_MSG	
A0E0	EB0000	E 2590	CALL PRINT	
		2591 ;		
		2592 ;	PRINT COMMON MESSEGE	
		2593 ;		
A0E3	803E000000	E 2594	COMMON_MSG: CMP ULTRA_HSE_FL,0	
A0EB	7506	2595	JNE ULTRA13	
A0EA	BE8D99	2596	MOV SI,OFFSET HS_MSG	
A0ED	EB0490	2597	JMP NOT_ULTRA13	
A0F0	BEE299	2598	ULTRA13: MOV SI,OFFSET ULTRA_HS_MSG	
		2599 ;		
A0F3	EB0000	E 2600	NOT_ULTRA13: CALL PRINT	
A0F6	BE259A	2601	MOV SI,OFFSET HS_COMMON_MSG	
A0F9	EB0000	E 2602	CALL PRINT	
A0FC	BE0000	E 2603	MOV SI,OFFSET NEW_INITS	
A0FF	EB0000	E 2604	CALL PRINT	
		2605 ;		
		2606 ;	RESTORE REGISTERS	
		2607 ;		
A102	5F	2608	POP DI	
A103	5E	2609	POP SI	
A104	5D	2610	POP BP	
A105	5A	2611	POP DX	
A106	59	2612	POP CX	
A107	5B	2613	POP BX	
A108	5B	2614	POP AX	
A109	C3	2615	RET	
		2616 HS_INIT_PRINT ENDP		
		2617 ;		
		2618 ;		
		2619 ;		
		2620 ;;;;;;;;;;;;;;;;		
		2621 ;		
		2622 ;		
A10A		2623 SCORE_BUMPED PROC		
A10A	803E000000	E 2624	CMP TWO_PLAYER_FL,0	;TWO PLAYERS?
A10F	7502	2625	JNE SB1	;YES
A111	F8	2626	CLC	;NO
A112	C3	2627	RET	
		2628		
A113	803E000000	E 2629	SB1: CMP HS_FL,0	;ON FIRST PLAYER?
A118	7402	2630	JE SB2	;YES
A11A	F8	2631	CLC	;NO
A11B	C3	2632	RET	
		2633		
A11C	BE0100	E 2634	SB2: MOV SI,OFFSET SCORE7_I+1	;GET OTHER PLYRS SCORE
A11F	BF0000	E 2635	MOV DI,OFFSET SCORE6	
		2636		
A122	81FF0000	E 2637	SB3: CMP DI,OFFSET SCORE0	;END OF STRING?
A126	771F	2638	JA SB6	;IF BEYOND, OVER
		2639		
A128	803C00	2640	CMP BYTE PTR[SI],0	;LEADING ZERO?
A12B	7509	2641	JNE SB4	;NO

LOC	OBJ	LINE	SOURCE		
A12D	803D00	2642	CMP	BYTE PTR[DI],0 ;LEADING ZERO?	
A130	7515	2643	JNE	SB6 ;NO	
A132	46	2644	INC	SI	
A133	47	2645	INC	DI	
A134	E8EC	2646	JMP	SHORT SB3	
		2647			
A136	803D00	2648	SB4:	CMP	BYTE PTR[DI],0 ;LEADING 0?
A139	7502	2649	JNE	SB5 ;NO	
A13B	F9	2650	STC	;YES	
A13C	C3	2651	RET	;IGNORE PLYR	
		2652			
A13D	8A05	2653	SB5:	MOV	AL,[DI] ;GET A DIGIT
A13F	3A04	2654	CMP	AL,[SI]	;CURRENT PLYR HIGHER?
A141	7704	2655	JA	SB6 ;YES	
A143	74ED	2656	JE	SB3A ;IF SAME,GOTO NXT DIGIT	
A145	F9	2657	STC	;NO	
A146	C3	2658	RET		
		2659			
A147	FB	2660	SB6:	CLC	
A148	C3	2661	RET		
		2662	SCORE_BUMPED	ENDP	
		2663			
		2664			
		2665	:		
		2666	:HI SCORE RESET :::::::::::::::::::::		
		2667	:		
		2668	:		
		2669	:		
		2670	:	RESET HIGH SCORE TABLE.	
		2671	:	DEPENDING ON KEEP_FIVE_FL,OR BAD CHECKSUM, RESET ENTIRE TABLE	
		2672	:	OR RETAIN THE TOP FIVE SCORES	
		2673	:		
		2674	:		
		2675	:	ASSUMES: KEEP_FIVE_FL=0 RESET ENTIRE TABLE	
		2676	:	<>0 RETAIN TOP 5 SCORES	
		2677	:		
		2678	:	USES: BP,SI,CX,AX	
		2679	:		
		2680	:	RETURNS: RESET HSE TABLE	
		2681	:		
		2682	:	VARIABLES USED: KEEP_FIVE_FL	
		2683	:	MEM_VALID_FL	
		2684	:		
		2685	:	DATA TABLES USED:	
		2686	:	HSE	
		2687	:	RESET_TABLE	
		2688	:		
		2689	:	CALLS: CHECK_SUM	
		2690	:		
		2691	:		
A149		2692	HI_SCORE_RESET	PROC	NEAR
A149 C606000000	E	2693		MOV	FLASH_FL,0
A14E 33ED		2694		XOR	BP,BP
A150 33F6		2695		XOR	SI,SI
A152 833E000000	E	2696		CMP	ULTRA,0

LOC	OBJ	LINE	SOURCE
A157	740E	2697	JE ULTRA_OK
A159	813E00002601	E 2698	CMP ULTRA,ULTRA_START
A15F	7406	2699	JE ULTRA_OK
A161	C70600002601	E 2700	MOV ULTRA,ULTRA_START
A167	032E0000	E 2701	ADD BP,ULTRA
A16B	B91500	2702	MOV CX,LENGTH_HSE
		2703 ;	
A16E	803E000000	E 2704	CMP MEM_VALID_FL,0
A173	741F	2705	JE RESET_ALL
A175	A00000	E 2706	MOV AL,ULTRA_HSE_FL
A178	98	2707	CBW
A179	40	2708	INC AX
A17A	40	2709	INC AX
A17B	8BD8	2710	MOV BX,AX
A17D	88870000	E 2711	MOV AX,CHKSUM[BX]
A181	E8D300	2712	CALL CHECK_SUM
A184	3B870000	E 2713	CMP AX,CHKSUM[BX]
A188	750A	2714	JNE RESET_ALL
		2715 ;	
A18A	803E000000	E 2716	HSE_OK: CMP KEEP_FIVE_FL,0
A18F	7403	2717	JE RESET_ALL
A191	83E905	2718	SUB CX,5
A194	49	2719	RESET_ALL: DEC CX
A195	C6860000FD	E 2720	RESET_LP: MOV HSE[BP].LOC[0],NEWP
A19A	C6860300F9	E 2721	MOV HSE[BP].SCORE[0],CRGT
A19F	C6860400F9	E 2722	MOV HSE[BP].SCORE[1],CRGT
A1A4	C6860500F9	E 2723	MOV HSE[BP].SCORE[2],CRGT
A1A9	C6860A00F9	E 2724	MOV HSE[BP].SCORE[7],CRGT
A1AE	BAB4D998	2725	MOV AL,RESET_TABLE[SI]
A1B2	88860100	E 2726	MOV HSE[BP].LOC[1],AL
A1B6	BAB4DA98	2727	MOV AL,RESET_TABLE[SI+1]
A1BA	88860200	E 2728	MOV HSE[BP].LOC[2],AL
A1BE	BAB4DB98	2729	MOV AL,RESET_TABLE[SI+2]
A1C2	88860600	E 2730	MOV HSE[BP].SCORE[3],AL
A1C6	BAB4DC98	2731	MOV AL,RESET_TABLE[SI+3]
A1CA	88860700	E 2732	MOV HSE[BP].SCORE[4],AL
A1CE	BAB4DD98	2733	MOV AL,RESET_TABLE[SI+4]
A1D2	88860800	E 2734	MOV HSE[BP].SCORE[5],AL
A1D6	BAB4DE98	2735	MOV AL,RESET_TABLE[SI+5]
A1DA	88860900	E 2736	MOV HSE[BP].SCORE[6],AL
A1DE	BAB4DF98	2737	MOV AL,RESET_TABLE[SI+6]
A1E2	88860B00	E 2738	MOV HSE[BP].INITIAL[0],AL
A1E6	BAB4E098	2739	MOV AL,RESET_TABLE[SI+7]
A1EA	88860C00	E 2740	MOV HSE[BP].INITIAL[1],AL
A1EE	BAB4E198	2741	MOV AL,RESET_TABLE[SI+8]
A1F2	88860D00	E 2742	MOV HSE[BP].INITIAL[2],AL
A1F6	B3C609	2743	ADD SI,ENTRY_LENGTH
A1F9	B3C50E	2744	ADD BP,HSE_UNIT LENG
A1FC	E297	2745	LOOP RESET_LP
		2746 ;	
A1FE	E85600	2747	END_OF_LOOP: CALL CHECK_SUM ;COMPUTE NEW CHECKSUM
A201	C6060000FF	E 2748	MOV MEM_VALID_FL,-1
A206	C3	2749	RET
		2750 HI_SCORE_RESET ENDP	
		2751 ;	

LOC	OBJ	LINE	SOURCE
		2752	;
		2753	;
		2754	;BLNKS TO ZEROS :::::::::::::::::::::
		2755	;
		2756	;
		2757	;
		2758	CONVERTS LEADING BLANKS TO ZEROS
		2759	;
		2760	ASSUMES: NOTHING
		2761	;
		2762	USES: BP,SI
		2763	;
		2764	RETURNS: HSE WITH ALL LEADING BLANKS ZEROED
		2765	;
		2766	VARIABLES USED: NONE
		2767	;
		2768	DATA TABLES USED:
		2769	HSE
		2770	;
		2771	CALLS: NONE
		2772	;
		2773	;
		2774	;
A207		2775	BLNKS_TO_ZEROS PROC NEAR
A207 33ED		2776	XOR BP,BP
A209 032E0000	E	2777	ADD BP,ULTRA
A20D 33F6		2778	BZ_NXT: XOR SI,SI
A20F 80BA0300F9	E	2779	MORE_BLANKS: CMP HSE[BPI].SCORE[SI],CRGT
A214 7508		2780	JNE ND_BLANKS
A216 C6B2030000	E	2781	MOV HSE[BPI].SCORE[SI],0
A21B 46		2782	INC SI
A21C EBF1		2783	JMP MORE_BLANKS
		2784	;
A21E 83C50E		2785	NO_BLANKS: ADD BP,HSE_UNIT_LEN
A221 8B3E0000	E	2786	MOV DI,ULTRA
A225 81C70A01		2787	ADD DI,NUM_ENTRYS*HSE_UNIT_LEN
A229 3BEF		2788	CMP BP,DI
A22B 7EE0		2789	JLE BZ_NXT
A22D C3		2790	RET
		2791	BLNKS_TO_ZEROS ENDP
		2792	;
		2793	;
		2794	;
		2795	;ZEROS TO BLNKS :::::::::::::::::::::
		2796	;
		2797	;
		2798	;
		2799	CHANGE ALL LEADING ZEROS BACK TO BLANKS IN HSE
		2800	;
		2801	ASSUMES: NOTHING
		2802	;
		2803	USES: BP,SI
		2804	;
		2805	RETURNS: HSE WITH LEADING ZEROS BLANKED
		2806	;

LOC	OBJ	LINE	SOURCE
		2807	; VARIABLES USED: NONE
		2808	;
		2809	; DATA TABLES USED:
		2810	;
		2811	;
		2812	; CALLS: NONE
		2813	;
		2814	;
		2815	;
A22E		2816	ZEROS_TO_BLNKS PROC NEAR
A22E 55		2817	PUSH BP
A22F 33ED		2818	XOR BP,BP
A231 032E0000	E	2819	ADD BP,ULTRA
A235 33F6		2820	ZB_NXT: XOR SI,SI
A237 80BA030000	E	2821	MORE_ZEROS: CMP HSE[BP].SCORE[SI],0
A23C 7508		2822	JNE NO_ZEROS
A23E C6B20300F9	E	2823	MOV HSE[BP].SCORE[SI],CRGT
A243 46		2824	INC SI
A244 EBF1		2825	JMP MORE_ZEROS
		2826	;
A246 83C50E		2827	NO_ZEROS: ADD BP,HSE_UNIT_LEN
A249 8B3E0000	E	2828	MOV DI,ULTRA
A24D 81C70A01		2829	ADD DI,NUM_ENTRY\$HSE_UNIT_LEN
A251 3BEF		2830	CMP BP,DI
A253 7EE0		2831	JLE ZB_NXT
A255 5D		2832	POP BP
A256 C3		2833	RET
		2834	ZEROS_TO_BLNKS ENDP
		2835	;
		2836	;
		2837	;
		2838	;CHECK SUM :::::::::::::::::::::
		2839	;
		2840	;
		2841	;
		2842	THIS ROUTINE COMPUTES A CHECK SUM FOR THE HSE TABLE
		2843	;
		2844	;
		2845	ASSUMES: NOTHING
		2846	;
		2847	USES: ORIGINAL CONTENTS SAVED-AX,CX,SI
		2848	;
		2849	RETURNS: THE CHECK SUM FOR HSE
		2850	;
		2851	VARIABLES USED: CHKSUM
		2852	;
		2853	DATA TABLES USED:
		2854	;
		2855	;
		2856	CALLS: NONE
		2857	;
		2858	;
		2859	;
A257		2860	CHECK_SUM PROC NEAR
		2861	SAVE REGISTERS USED

LOC	OBJ	LINE	SOURCE
A257	50	2862	PUSH AX
A258	53	2863	PUSH BX
A259	51	2864	PUSH CX
A25A	56	2865	PUSH SI
		2866 ;	
A25B	BE0000	E 2867	MOV SI,OFFSET HSE
A25E	03360000	E 2868	ADD SI,ULTRA
A262	B98C00	2869	MOV CX,HSE_LENGTH/2
A265	33DB	2870	XOR BX,BX
		2871 ;	
A267	031C	2872 CS_LP:	ADD BX,[SI]
A269	46	2873	INC SI
A26A	46	2874	INC SI
A26B	E2FA	2875	LOOP CS_LP
		2876 ;	
A26D	A00000	E 2877	MOV AL,ULTRA_HSE_FL
A270	98	2878	CBW
A271	8BF0	2879	MOV SI,AX
A273	46	2880	INC SI
A274	46	2881	INC SI
A275	899C0000	E 2882	MOV CHKSUM[SI],BX
		2883 ;	
		2884 ;	RESTORE REGISTERS
A279	5E	2885	POP SI
A27A	59	2886	POP CX
A27B	5B	2887	POP BX
A27C	58	2888	POP AX
A27D	C3	2889	RET
		2890 CHECK_SUM	ENDP
		2891 ;	
		2892 ;	
		2893 ;	
		2894 ;	
		2895 ;ATTRACT *****	
		2896 ;*****	
		2897 ;	
		2898 ; ATTRACT MODE SECTION	
		2899 ;	
		2900 ;*****	
		2901 ;*****	
		2902 ;	
		2903 ;	
		2904 ;	
		2905 ; THIS IS THE MAIN PROCEDURE FOR THE ATTRACT MODE.	
		2906 ; IT IS AN ENDLESS LOOP CYCLING THRU THE 4 SCREENS	
		2907 ; UNTIL A COIN IS INSERTED.	
		2908 ;	
		2909 ; WHEN CALLED IT RESETS THE SEGMENT REGISTERS AND	
		2910 ; STACK POINTER	
		2911 ;	
		2912 ; ASSUMES: NONE	
		2913 ;	
		2914 ; USES: AX,SS,ES,DS,SP	
		2915 ;	
		2916 ; RETURNS: NONE	

LOC	OBJ	LINE	SOURCE
		2917	;
		2918	; VARIABLES USED: STACK_BOTTOM
		2919	CTRL_BYTE
		2920	NEIL_CTR2
		2921	;
		2922	DATA TABLES USED:
		2923	NONE
		2924	;
		2925	CALLS: ATT_GAME_SIM
		2926	ATT_INST
		2927	ATT_HI_SCR
		2928	ATT_LOGO
		2929	;
		2930	;
		2931	;
A27E		2932	ATTRACT PROC NEAR
		2933	;
		2934	; SET FOREGROUND DOMINANT
A27E	E	2935	AND CTRL_BYTE,OFEH
A283	C60600003C	2936	MOV NEIL_CTR2,60 ;INITIALIZE FLASH MESSEGE COUNTER
		2937	;
		2938	; RESET STACK POINTER AND SEGMENT REGISTERS
A288	EABDA20000	2939	ATTRACT_LP: JMP FAR PTR ATT1
A28D	BC0000	E	2940 ATTR1: MOV SP,OFFSET STACK_BOTTOM
A290	33C0	2941	XOR AX,AX
A292	BED0	2942	MOV SS,AX
A294	BED8	2943	MOV DS,AX
A296	8EC0	2944	MOV ES,AX
A298	50	2945	PUSH AX
A299	9D	2946	POPF
		2947	;
A29A	E871FA	2948	CALL TRIPLE_CHECK ;CHECK TRIPPLICATE AND CORRECT
		2949	;
A29D	C606000000	E	2950 MOV ULTRA_HSE_FL,0
A2A2	C70600000000	E	2951 MOV ULTRA,0
A2A8	E82A00	2952	CALL ATT_HI_SCR
A2AB	C6060000FE	E	2953 MOV ULTRA_HSE_FL,-2
A2B0	C70600002601	E	2954 MOV ULTRA,ULTRA_START
A2B6	E81C00	2955	CALL ATT_HI_SCR
A2B9	E81F01	2956	CALL ATT_LOGO
A2BC	E89100	2957	CALL ATT_INST
A2BF	FE060000	E	2958 INC ATT_LP_CTR
A2C3	803E00000A	E	2959 CMP ATT_LP_CTR,10
A2C8	7505	2960	JNE GAME_SIM
A2CA	C606000000	E	2961 MOV FLASH_FL,0
A2CF	E84B00	2962 GAME_SIM: CALL ATT_GAME_SIM	
A2D2	EBB4	2963	JMP ATTRACT_LP
A2D4	C3	2964	RET
		2965 ATTRACT ENDP	;
		2966	;
		2967	;
		2968	;
		2969	;ATT HI SCR :::::::::::::::::::::;
		2970	;
		2971	;

LOC	OBJ	LINE	SOURCE
		2972	;
		2973	; DISPLAY THE HIGH SCORE TABLE
		2974	;
		2975	;
		2976	; ASSUMES: NONE
		2977	;
		2978	; USES: NONE
		2979	;
		2980	; RETURNS: NONE
		2981	;
		2982	; VARIABLES USED: JOYSTICK
		2983	NEIL_CTR
		2984	;
		2985	; DATA TABLES USED:
		2986	NONE
		2987	;
		2988	; CALLS: HI_SCORE_OUTPUT
		2989	WAIT_FOR_NMI
		2990	DISPLAY_CREDITS
		2991	ATT_GO_TO_GAME
		2992	;
		2993	;
A2D5		2994	ATT_HI_SCR PROC NEAR
		2995	;
		2996	CLEAR FOREGROUND AND BACKGROUND BUFFERS
		2997	;
A2D5 E85102		2998	CALL CLR_FGND_BUF
A2D8 EB0000	E	2999	CALL CLR_BGND_PART
A2DB C70600005802	E	3000	MOV NEIL_CTR,ATT_HS_TIME ;INITIALIZE LOOP TIMER
A2E1 EBC402		3001	CALL HI_SCORE_OUTPUT
A2E4 EB0000	E	3002	CALL WAIT_FOR_NMI
		3003	;
A2E7 F606000060	E	3004	ATT_HS_LP: TEST JOYSTICK,BOTH_PLAYER_MASK ;PLAYER BUTTON HIT?
A2EC 7403		3005	JZ ATT_HS1 ;NO- JUMP
A2EE EB4902		3006	CALL ATT_GO_TO_GAME ;YES-
		3007	;
A2F1 EBB402		3008	ATT_HS1: CALL HI_SCORE_OUTPUT ;DISPLAY HI SCORE TABLE
A2F4 EBC201		3009	CALL DISPLAY_CREDITS ;DISPLAY CREDITS AND START MSG
A2F7 EB0000	E	3010	CALL WAIT_FOR_NMI
A2FA FF0E0000	E	3011	DEC NEIL_CTR
A2FE 741C		3012	JZ ATT_HS_END
		3013	
A300 B13E00004802	E	3014	CMP NEIL_CTR,ATT_HS_TIME-16
A306 720B		3015	JB ATT_HS2
A308 BE0000	E	3016	MOV SI,OFFSETINI_COLOR_REG_BUF
A30B EB6C04		3017	CALL FADE_ALL
A30E EBD7		3018	JMP ATT_HS_LP
A310 B33E000010	E	3019	ATT_HS2: CMP NEIL_CTR,16
A315 77D0		3020	JA ATT_HS_LP
A317 EB4C04		3021	CALL FADE_BLK
A31A EBCB		3022	JMP ATT_HS_LP
		3023	
		3024	;
A31C C3		3025	ATT_HS_END: RET
		3026	ATT_HI_SCR ENDP

LOC	OBJ	LINE	SOURCE
		3027	;
		3028	;
		3029	;
		3030	;ATT GAME SIM :::::::::::::::::::::::::::::::::::::
		3031	;
		3032	;
		3033	;
		3034	; GAME SIMULATION
		3035	THIS PROCEDURE WILL GENERATE SIMULATION OF THE GAME
		3036	;
		3037	;
		3038	;
		3039	; ASSUMES:
		3040	;
		3041	; USES: NONE
		3042	;
		3043	; RETURNS: NONE
		3044	;
		3045	; VARIABLES USED: JOYSTICK
		3046	;
		3047	; DATA TABLES USED:
		3048	;
		3049	;
		3050	; CALLS: ATT_GD_TO_GAME
		3051	;
		3052	;
		3053	;
		3054	;
		3055	;
		3056	;
		3057	;
		3058	;
		3059	;
		3060	;
A31D		3061	ATT_GAME_SIM PROC NEAR
A31D E8B403		3062	;
A31D E8B403		3063	CALL ATT_GS_INIT ;INITIALIZE FOR GAME SIMULATION
A320 F606000060	E	3064	;
A325 7403		3065	ATT_GS_LP: TEST JOYSTICK,BOTH_PLAYER_MASK ;PLAYER BUTTON HIT
A325 7403		3066	JZ ATT_GS1 ;NO
A327 E81002		3067	;
A327 E81002		3068	CALL ATT_GD_TO_GAME ;YES
A327 E81002		3069	;
A327 E81002		3070	;
A327 E81002		3071	;
A32A EBE603		3072	;
A32D EB0000	E	3073	ATT_GS1: CALL ATT_GS_INPUT
A330 EB0000	E	3074	CALL INIT_FRAME
A333 EB0000	E	3075	CALL MAGNA_ACTION
A336 EB0000	E	3076	CALL TRAVEL_BULLET
A339 EB0000	E	3077	CALL KRYPTON_ACTION
A33C EB0000	E	3078	CALL COMET_ACTION
A33F EB0000	E	3079	CALL PACKET_ACTION
A342 EB0000	E	3080	CALL TRIGGER_BULLET
A345 EB0000	E	3081	CALL HUMAN_ACTION
A345 EB0000	E	3082	CALL COLOR_CHANGER

LOC	OBJ	LINE	SOURCE
A348	E86E01	3082	CALL DISPLAY_CREDITS
A34B	EB0000	E 3083	CALL WAIT_FOR_NMI
		3084	
A34E	EBD0	3085	JMP ATT_65_LP
		3086	
		3087	
		3088	ATT_GAME_SIM ENDP
		3089	;
		3090	;
		3091	;
		3092	;ATT INST :::::::::::::::::::::
		3093	;
		3094	;
		3095	;
		3096	;
		3097	PRINT OUT THE POINT VALUES FOR THE OBJECTS
		3098	ALSO PRINT OUT THE NUMBER OF SHIPS AND
		3099	BONUS SHIP INCREMENT
		3100	;
		3101	;
		3102	ASSUMES: NONE
		3103	;
		3104	USES: SI
		3105	;
		3106	RETURNS: NONE
		3107	;
		3108	VARIABLES USED: JOYSTICK
		3109	SSW0
		3110	NEIL_CTR
		3111	;
		3112	DATA TABLES USED:
		3113	PTS
		3114	PTS1
		3115	PTS2
		3116	PTS3
		3117	;
		3118	CALLS: A_DISP_FG
		3119	PRINT
		3120	WAIT_FOR_NMI
		3121	ATT_GO_TO_GAME
		3122	DISPLAY_CREDITS
		3123	;
A350		3124	ATT_INST PROC NEAR
		3125	;
		3126	CLEAR FOREGROUND AND BACKGROUND BUFFERS
		3127	;
A350	E8D601	3128	CALL CLR_FGND_BUF
A353	EB0000	E 3129	CALL CLR_BGND_PART
		3130	;
A356	E8F702	3131	CALL A_DISP_FG ;DISPLAY THE FOREGROUND OBJECTS
		3132	
A359	C70600000000	E 3133	MOV COLOR_SET_PTR,OFFSET COLOR_SET0 ;SET COLOR ZERO
		3134	
A35F	C70600009001	E 3135	MOV NEIL_CTR,ATT_I_TIME ;INITIALIZE LOOP TIMER
		3136	

LOC	OBJ	LINE	SOURCE
A365	E80000	E 3137	ATT_I_LP:
		3138	CALL COLOR_CHANGER ;COLOR ANIMATIONS
A368	F606000060	E 3139	TEST JOYSTICK,BOTH_PLAYER_MASK ;PLAYER BUTTON HIT?
A36D	7403	3140	JZ ATT_I1 ;NO
A36F	EBC801	3141	CALL ATT_GO_TO_GAME ;YES
		3142 ;	
		3143 ;	DISPLAY CORRECT BONUS VALUE AND # SHIPS
		3144 ;	
A372	BEOE9B	3145	ATT_I1: MOV SI,OFFSET PTS
A375	E80000	E 3146	CALL PRINT
A378	F606000020	E 3147	TEST SSW0,NUM_SHIP_MASK
A37D	7406	3148	JZ ATT_AT3
		3149 ;	
A37F	BEBC9B	3150	MOV SI,OFFSET PTS1
A382	E80000	E 3151	CALL PRINT
		3152	
A385	F60600002	E 3153	TEST SSW0,EXTRA_SHIP_MASK
A38A	7406	3154	JZ ATT_I_ELP
		3155	
A38C	BEC19B	3156	MOV SI,OFFSET PTS2
A38F	E80000	E 3157	CALL PRINT
		3158 ;	
A392	EB2401	3159	ATT_I_ELP: CALL DISPLAY_CREDITS
A395	E80000	E 3160	CALL WAIT_FOR_NMI
A398	FF0E0000	E 3161	DEC NEIL_CTR
A39C	741C	3162	JZ ATT_INST_END
		3163	
A39E	813E00008001	E 3164	CMP NEIL_CTR,ATT_I_TIME-16
A3A4	7208	3165	JB ATT_I2
A3A6	BE0000	E 3166	MOV SI,OFFSET COLOR_SET0
A3A9	EBCE03	3167	CALL FADE_ALL
A3AC	EBB7	3168	JMP ATT_I_LP
A3AE	833E000010	E 3169	ATT_I2: CMP NEIL_CTR,16
A3B3	77B0	3170	JA ATT_I_LP
A3B5	EBAE03	3171	CALL FADE_BLK
A3BB	EBAB	3172	JMP ATT_I_LP
		3173	
		3174	
		3175	
		3176	
A3BA	C3	3177	ATT_INST_END: RET
		3178	ATT_INST ENDP
		3179 ;	
		3180 ;	
		3181 ;	
		3182 ;ATT LOGO :::::::::::::::::::::	
		3183 ;	
		3184 ;	
		3185 ;	
		3186 ; DISPLAY THE LOGO	
		3187 ;	
		3188 ;	
		3189 ;	
		3190 ; ASSUMES: NONE	
		3191 ;	

LOC	OBJ	LINE	SOURCE
		3192	; USES: SI
		3193	; RETURNS: NONE
		3194	; VARIABLES USED: JOYSTICK
		3195	NEIL_CTR
		3196	; DATA TABLES USED:
		3197	LOGO
		3198	; CALLS: PRINT
		3199	WAIT_FOR_NMI
		3200	DISPLAY_CREDITS
		3201	ATT_GO_TO_GAME
		3202	CLR_BGND_PART
		3203	3204
		3205	3206
		3207	3208 LOGO_COLORS DW 0000H
A3BB	0000	3209	DW 0E70H
A3BD	700E	3210	DW 0D50H
A3BF	5000	3211	DW 0FF0H
A3C1	F00F	3212	DW 0000H
A3C3	0000	3213	DW 0F30H
A3C5	300F	3214	DW 04B0H
A3C7	B004	3215	DW 067FH
A3C9	7F06	3216	DW 008EH
A3CB	8E00	3217	DW 006FH
A3CD	6F00	3218	DW 0C30H
A3CF	300C	3219	DW 0B10H
A3D1	100B	3220	DW 0A0DH
A3D3	0D0A	3221	DW 0CFFH
A3D5	FF0C	3222	DW 0FF0H
A3D7	F00F	3223	DW 0F72H
A3D9	720F	3224	
		3225	
		3226	
		3227 ;	
		3228 ;	
A3DB		3229 ATT_LOGO	PROC NEAR
		3230 ;	
		3231 ;	CALL KAN'S SHIP INITIALIZATION ROUTINE
		3232	
A3DB	EB0000	E 3233	CALL RESET_SHOW
		3234	
		3235 ;	CLEAR BACKGROUND BUFFER
A3DE	EB0000	E 3236	CALL CLR_BGND_PART
A3E1	C70600005802	E 3237	MOV NEIL_CTR,ATT_L_TIME ;INITIALIZE LOOP TIMER
		3238 ;	
A3E7	B0E0	3239	MOV AL,LOGO_XHOME
A3E9	B4D0	3240	MOV AH,LOGO_YHOME
A3EB	A20000	E 3241	MOV LOGO_XPOS,AL
A3EE	88260000	E 3242	MOV LOGO_YPOS,AH
A3F2	BA0008	3243	MOV DX,0800H
		3244 ;	
A3F5	C606000007	E 3245	MOV NEIL_X2,7
		3246 ;	

LOC	OBJ	LINE	SOURCE	
A3FA	F606000060	E 3247	ATT_L_LP:	TEST JOYSTICK,BOTH_PLAYER_MASK ;PLAYER BUTTON HIT?
A3FF	7403	3248		JZ ATT_L1 ;NO
A401	E83601	3249		CALL ATT_GO_TO_GAME ;YES
		3250 ;		
A404	803E000000	E 3251	ATT_L1:	CMP NEIL_X2,0
A409	7519	3252		JNE ATT_L2
A408	BBC2	3253		MOV AX,DX
A40D	87060000	E 3254		XCHG CREGB,AX
A411	87060000	E 3255		XCHG CREGA,AX
A415	87060000	E 3256		XCHG CREG2,AX
A419	87060000	E 3257		XCHG CREG1,AX
A41D	BB00	3258		MOV DX,AX
A41F	C606000007	E 3259		MOV NEIL_X2,7
A424	FE0E0000	E 3260	ATT_L2:	DEC NEIL_X2
A428	803E000035	E 3261		CMP LOGO_YPOS,35H
A42D	7502	3262		JNE MOVE_UP
A42F	EBOF	3263		JMP SHORT NO_MOVE_UP
		3264 ;		
A431	E84D00	3265	MOVE_UP:	CALL DISP_LOGO
A434	A00000	E 3266		MOV AL,NEIL_X2
A437	D0EB	3267		SHR AL,1
A439	7205	3268		JC NO_MOVE_UP
A43B	80060000FF	E 3269		ADD LOGO_YPOS,-1
		3270 ;		
A440	BED09A	3271	NO_MOVE_UP:	MOV SI,OFFSET LOGO
A443	E80000	E 3272		CALL PRINT
A446	E80000	E 3273		CALL RUN_SHOW
A449	EB6D00	3274		CALL DISPLAY_CREDITS
A44C	E80000	E 3275		CALL WAIT_FOR_NMI
A44F	FF0E0000	E 3276		DEC NEIL_CTR
A453	742B	3277		JZ ATT_LOGO_END
		3278		
		3279		
		3280		
A455	813E00004802	E 3281		CMP NEIL_CTR,ATT_L_TIME-16
A458	720F	3282		JB ATT_L3
A45D	BEBA3	3283		MOV SI,OFFSET LOGO_COLORS
A460	52	3284		PUSH DX
A461	E81603	3285		CALL FADE_ALL
A464	5A	3286		POP DX
A465	C606000007	E 3287		MOV NEIL_X2,7
A46A	EB8E	3288		JMP ATT_L_LP
A46C	833E000010	E 3289	ATT_L3:	CMP NEIL_CTR,16
A471	7787	3290		JA ATT_L_LP
A473	52	3291		PUSH DX
A474	E8EF02	3292		CALL FADE_BLK
A477	5A	3293		POP DX
A478	C606000007	E 3294		MOV NEIL_X2,7
A47D	E97AFF	3295		JMP ATT_L_LP
		3296		
		3297		
		3298		
		3299		
		3300 ;		
A480	C3	3301	ATT_LOGO_END:	RET

LOC	OBJ	LINE	SOURCE
		3302	ATT_LOGO ENDP
		3303	;
		3304	;
		3305	;
		3306	:::::::::::::::::::
		3307	;
		3308	;
A481		3309	DISP_LOGO PROC NEAR
A481 BD0000	E	3310	MOV BP,OFFSET FGND_REG_BUF
A484 B3E6		3311	MOV BL,LOGO_START
A486 B91A00		3312	MOV CX,NUM_L_CHAR
A489 A00000	E	3313	MOV AL,LOGO_XPOS
A4BC 8A260000	E	3314	MOV AH,LOGO_YPOS
		3315	;
A490 894600		3316	DISP_LOGO_LP: MOV [BP],AX
A493 885E02		3317	MOV [BP+2],BL
A496 80C410		3318	ADD AH,16
A499 80C301		3319	ADD BL,1
A49C 83C504		3320	ADD BP,4
A49F 894600		3321	MOV [BP],AX
A4A2 885E02		3322	MOV [BP+2],BL
A4A5 80C4F0		3323	ADD AH,-16
A4AB 04F0		3324	ADD AL,-16
A4AA 80C301		3325	ADD BL,1
A4AD 83C504		3326	ADD BP,4
A4B0 83C1FE		3327	ADD CX,-2
A4B3 83F900		3328	CMP CX,0
A4B6 77D8		3329	JA DISP_LOGO_LP
A4BB C3		3330	RET
		3331	DISP_LOGO ENDP
		3332	;
		3333	;
		3334	DISPLAY CREDITS :::::::::::::::::::::
		3335	;
		3336	;
		3337	;
		3338	DISPLAY THE # OF CREDITS
		3339	AND FLASH START MESSEGE WHEN CREDITS EXIST
		3340	;
		3341	;
		3342	ASSUMES: GAME_CREDITS CONTAINS THE # OF CREDITS
		3343	;
		3344	USES: ALL REGISTER CONTENTS SAVED AND RESTORED
		3345	;
		3346	RETURNS: NONE
		3347	;
		3348	VARIABLES USED: BGND_REG
		3349	GAME_CREDIT
		3350	NEIL_CTR2
		3351	;
		3352	DATA TABLES USED:
		3353	START_MSG
		3354	OFF_START_MSG
		3355	;
		3356	CALLS: PRINT

LOC	OBJ	LINE	SOURCE
		3357	;
		3358	;
A4B9		3359	DISPLAY_CREDITS PROC
		3360	; SAVE REGISTERS
A4B9 50		3361	PUSH AX
A4BA 53		3362	PUSH BX
A4BB 51		3363	PUSH CX
A4BC 52		3364	PUSH DX
A4BD 55		3365	PUSH BP
A4BE 56		3366	PUSH SI
A4BF 57		3367	PUSH DI
		3368	;
		3369	; CONVERT TO A FORM THAT CAN BE DISPLAYED
		3370	;
A4C0 BD7D01	E	3371	MOV BP,OFFSET BGND_REG+17DH
A4C3 A00000	E	3372	MOV AL,GAME_CREDIT
A4C6 24F0		3373	AND AL,0FH
A4C8 740B		3374	JZ ONES_DIGIT
A4CA D0E8		3375	SHR AL,1
A4CC D0E8		3376	SHR AL,1
A4CE D0E8		3377	SHR AL,1
A4D0 D0E8		3378	SHR AL,1
A4D2 884600		3379	MOV [BP],AL ;PUT TEN'S DIGIT IN BACKGROUND LOC
		3380	;
A4D5 A00000	E	3381	ONES_DIGIT: MOV AL,GAME_CREDIT
A4DB 240F		3382	AND AL,0FH
A4DA B3ED20		3383	SUB BP,20H
A4DD 884600		3384	MOV [BP],AL ;PUT 1'S DIGIT IN BACKGROUND LOC
		3385	;
A4E0 BEC69B		3386	MOV SI,OFFSET CREDITS_MSG ;DISPLAY MESSEGE
A4E3 EB0000	E	3387	CALL PRINT
		3388	;
A4E6 B03E000000	E	3389	CMP GAME_CREDIT,0 ;ANY CREDITS?
A4EB 7F0E		3390	JG FLASH_MSG ;YES- FLASH MESSEGE
A4ED A00000	E	3391	MOV AL,SSW0
A4F0 2414		3392	AND AL,COIN_VALUE_MASK
A4F2 3C14		3393	CMP AL,COIN_VALUE_MASK
A4F4 7405		3394	JE FLASH_MSG
		3395	
A4F6 C60600001E	E	3396	MOV NEIL_CTR2,30
A4FB FE0E0000	E	3397	FLASH_MSG: DEC NEIL_CTR2
A4FF B03E00001E	E	3398	CMP NEIL_CTR2,30
A504 7E09		3399	JLE NO_START_MSG
A506 BED19B		3400	MOV SI,OFFSET START_MSG
A509 EB0000	E	3401	CALL PRINT
A50C EB1390		3402	JMP DC_END
A50F BEF09B		3403	NO_START_MSG: MOV SI,OFFSET OFF_START_MSG
A512 EB0000	E	3404	CALL PRINT
A515 B03E000000	E	3405	CMP NEIL_CTR2,0
A51A 7F05		3406	JG DC_END
A51C C60600003C	E	3407	MOV NEIL_CTR2,60
		3408	;
		3409	; RESTORE REGISTERS
A521 5F		3410	DC_END: POP DI
A522 5E		3411	POP SI

LOC	OBJ	LINE	SOURCE
A523	5D	3412	POP BP
A524	5A	3413	POP DX
A525	59	3414	POP CX
A526	5B	3415	POP BX
A527	5B	3416	POP AX
A528	C3	3417	RET
		3418	DISPLAY_CREDITS ENDP
		3419	;
		3420	;CLR FGND BUF :::::::::::::::::::::
		3421	;
		3422	;
		3423	;
		3424	; ASSUMES: NONE
		3425	;
		3426	; USES: BP,CX
		3427	;
		3428	; RETURNS: CLEARED FOREGROUND BUFFER
		3429	;
		3430	; VARIABLES USED: FGND_REG_BUF
		3431	;
		3432	; DATA TABLES USED:
		3433	;
		3434	;
		3435	; CALLS: NONE
		3436	;
		3437	;
A529		3438	CLR_FGND_BUF PROC
A529 BD0000	E	3439	MOV BP,OFFSET FGND_REG_BUF
A52C B97C00		3440	MOV CX,OFBH/2
A52F C746000000		3441	CLR_LP: MOV WORD PTR[BP],0
A534 83C502		3442	ADD BP,2
A537 E2F6		3443	LOOP CLR_LP
A539 C3		3444	RET
		3445	CLR_FGND_BUF ENDP
		3446	;
		3447	;
		3448	;
		3449	;ATT GO TO GAME :::::::::::::::::::::
		3450	;
		3451	;
		3452	;
		3453	THIS ROUTINE IS CALLED WHEN EITHER OF THE
		3454	PLAYER BUTTONS IS HIT. IT CHECKS FOR ONE OR TWO PLAYER,
		3455	ADJUSTS THE CREDITS AND JUMPS TO GAME_PLAY
		3456	;
		3457	WHEN A PLAYER BUTTON IS HIT AND THE CORRECT NUMBER OF CREDITS
		3458	EXIST THEN A NOIRMAL RETURN IS NOT EXECUTED. AT GAME_PLAY
		3459	THE STACK REGISTER IS RESET
		3460	;
		3461	;
		3462	ASSUMES: GAME_CREDIT CONTAINS THE # OF CREDITS
		3463	;
		3464	USES: AX
		3465	;
		3466	RETURNS: ADJUSTED GAME_CREDIT VALUE

LOC	OBJ	LINE	SOURCE
		3467	;
		3468	; VARIABLES USED: GAME_CREDIT
		3469	GAME_CREDITX
		3470	JOYSTICK
		3471	TWO_PLAYER_FL
		3472	PLAY_TIME_FL
		3473	STAR_DUST_FL
		3474	;
		3475	DATA TABLES USED:
		3476	NONE
		3477	;
		3478	CALLS: NONE
		3479	;
		3480	;
A53A		3481	ATT_GO_TO_GAME PROC NEAR
		3482	;
		3483	CHECK FOR CREDIT ZAP, IF ZAPPED GO TO COLD_START
		3484	;
A53A A00000	E	3485	MOV AL, GAME_CREDIT
A53D 3A060000	E	3486	CMP AL, GAME_CREDITX
A541 7403		3487	JE ATT_GT60
A543 E90000	E	3488	JMP COLD_START
		3489	;
		3490	;
A546 A00000	E	3491	ATT_GT60: MOV AL, SSW0
A549 2414		3492	AND AL, COIN_VALUE_MASK
A54B 3C14		3493	CMP AL, COIN_VALUE_MASK
A54D 7517		3494	JNE ATT_GT60B
A54F F606000020	E	3495	TEST JOYSTICK, START_ONE_MASK ;ONE PLAYER?
A554 7408		3496	JZ ATT_GT60A ;NO_2 PLYR
A556 C606000000	E	3497	MOV TWO_PLAYER_FL, 0 ;SET FOR 1 PLYR
A558 EB4790		3498	JMP ATT_GT65
A55E C606000001	E	3499	ATT_GT60A: MOV TWO_PLAYER_FL, 1 ;SET FOR 2 PLYR
A563 EB3F90		3500	JMP ATT_GT65
		3501	;
		3502	IF NO CREDITS- RETURN, IGNORING THE FACT THAT THE BUTTON
		3503	WAS HIT
		3504	;
A566 B03E000000	E	3505	ATT_GT60B: CMP GAME_CREDIT, 0
A568 7701		3506	JA ATT_GT61
A56D C3		3507	RET
		3508	;
A56E F606000020	E	3509	ATT_GT61: TEST JOYSTICK, START_ONE_MASK ;1 PLYR BUTTON?
A573 740A		3510	JZ ATT_GT62 ;NO
		3511	;
		3512	ONE PLAYER
		3513	;
A575 C606000000	E	3514	MOV TWO_PLAYER_FL, 0 ;SET FLAG FOR 1 PLAYER
A57A B401		3515	MOV AH, 1
A57C EB1090		3516	JMP ATT_GT64
		3517	;
		3518	2 PLYR BUTTON HIT
A57F B03E000002	E	3519	ATT_GT62: CMP GAME_CREDIT, 2 ;2 OR MORE CREDITS?
A584 7301		3520	JAE ATT_GT63 ;YES
A586 C3		3521	RET ;NO

LOC	OBJ	LINE	SOURCE
		3522	; ;
		3523	; ; TWO PLAYERS
		3524	; ;
A5B7 C60600001	E	3525	ATT_BT63: MOV TWO_PLAYER_FL,1
A5BC B402		3526	MOV AH,2
		3527	; ;
A58E A00000	E	3528	ATT_BT64: MOV AL,GAME_CREDIT
A591 2AC4		3529	SUB AL,AH
A593 2F		3530	DAS
A594 A20000	E	3531	MOV GAME_CREDIT,AL
A597 A20000	E	3532	MOV GAME_CREDITX,AL
A59A C6060000FF	E	3533	MOV PLAY_TIME_FL,-1
A59F C6060000FF	E	3534	MOV STAR_DUST_FL,-1
		3535	; ;
		3536	; ; GO TO GAME PLAY
A5A4 E90000	E	3537	ATT_BT65: JMP GAME_PLAY
		3538	; ;
A5A7 C3		3539	RET
		3540	ATT_GO_TD_GAME ENDP
		3541	; ;
		3542	; ;
		3543	; ;
		3544	; HI SCORE OUTPUT :::::::::::::::::::::
		3545	; ;
		3546	; ;
		3547	; ;
		3548	; PRINT OUT THE HIGH SCORE TABLE
		3549	; ;
		3550	; ;
		3551	; ASSUMES: NOTHING
		3552	; ;
		3553	; USES: SI,DI,AX
		3554	; ;
		3555	; RETURNS: NONE
		3556	; ;
		3557	; VARIABLES USED: CHKSUM
		3558	MEM_VALID_FL
		3559	; ;
		3560	; DATA TABLES USED:
		3561	HI_SCORE_TABLE
		3562	HSE
		3563	; ;
		3564	; CALLS: CHECK_SUM
		3565	PRINT
		3566	HI_SCORE_RESET
		3567	; ;
		3568	; ;
A5AB		3569	HI_SCORE_OUTPUT PROC NEAR
		3570	; ;
		3571	; COMPUTE NEW CHECKSUM
A5AB A00000	E	3572	MOV AL,ULTRA_HSE_FL
A5AB 98		3573	CBW
A5AC 40		3574	INC AX
A5AD 40		3575	INC AX
A5AE BB08		3576	MOV BX,AX

LOC	OBJ	LINE	SOURCE
A5B0	88870000	E 3577	MOV AX,CHKSUM[BX]
A5B4	E8A0FC	3578	CALL CHECK_SUM
A5B7	3BB70000	E 3579	CMP AX,CHKSUM[BX] ;CHECKSUM OK?
A5BB	7408	3580	JE HSD_OK ;YES
		3581 ;	
		3582 ;	CHECKSUM BAD- RESET HI SCORE TABLE
		3583 ;	
A5BD	C606000000	E 3584	HSD_NOT_OK: MOV MEM_VALID_FL,0
A5C2	E884FB	3585	CALL HI_SCORE_RESET
		3586 ;	
A5C5	803E000000	E 3587	HSD_OK: CMP ULTRA_HSE_FL,0
A5CA	7514	3588	JNE ULTRA11
		3589 ;	
A5CC	BE4098	3590	MOV SI,OFFSET HS_TABLE
A5CF	E80000	E 3591	CALL PRINT
A5D2	C6061801FE	E 3592	MOV HSE[20*HSE_UNIT_LENGTH].LOC[0],EOST
A5D7	BE0000	E 3593	MOV SI,OFFSET HSE
A5DA	E80000	E 3594	CALL PRINT
A5DD	EB1290	3595	JMP NOT_ULTRA11
		3596 ;	
A5E0	BE5F98	3597	ULTRA11: MOV SI,OFFSET ULTRA_HS_TABLE
A5E3	E80000	E 3598	CALL PRINT
A5E6	C6061801FE	E 3599	MOV ULTRA_HSE[20*HSE_UNIT_LENGTH].LOC[0],EOST
A5EB	BE0000	E 3600	MOV SI,OFFSET ULTRA_HSE
A5EE	E80000	E 3601	CALL PRINT
		3602 ;	
A5F1	BE9098	3603	NOT_ULTRA11: MOV SI,OFFSET CMMN_HS_TABLE
A5F4	E80000	E 3604	CALL PRINT
		3605 ;	
		3606 ;	UPDATE CURRENT HIGHEST SCORE DISPLAYED ON TOP ROW
		3607 ;	
A5F7	BD360D01	E 3608	HI_TODAY: LEA SI,HSE[19*HSE_UNIT_LENGTH].SCORE
A5FB	BF4102	E 3609	MOV DI,OFFSET BGND_REG+SCORE_POSH
A5FE	B90700	3610	MOV CX,7
A601	FC	3611	CLD
A602	AC	3612	HI_DISP_LP: LODSB
A603	3C09	3613	CMP AL,9
A605	7602	3614	JBE SKIP
A607	B0FF	3615	MOV AL,BLANK
A609	8805	3616	SKIP: MOV [DI],AL
A60B	83EF20	3617	SUB DI,32
A60E	E2F2	3618	LOOP HI_DISP_LP
		3619 ;	
A610	A00000	E 3620	MOV AL,NUM_FLASH
A613	A20000	E 3621	MOV NUM_FLASHING,AL
A616	803E000000	E 3622	CMP FLASH_FL,0
A61B	7432	3623	JE NO_FLASHING
A61D	BB360000	E 3624	MOV SI,NEIL_CTR
A621	D1EE	3625	SHR SI,1
A623	D1EE	3626	SHR SI,1
A625	D1EE	3627	SHR SI,1
A627	D1EE	3628	SHR SI,1
A629	D1EE	3629	SHR SI,1
A62B	D1EE	3630	SHR SI,1
A62D	7320	3631	JNC NO_FLASHING

LOC	OBJ	LINE	SOURCE
A62F	B80000	E 3632	MOV AX,OFFSET FLASH_DN
A632	A30000	E 3633	MOV FLASH_ON_PTR,AX
		3634	
A635	8B360000	E 3635	NEXT_FLASH: MOV SI,FLASH_ON_PTR
A639	A10000	E 3636	MOV AX,ULTRA
A63C	39440F	3637	CMP WORD PTR[SI+15],AX
A63F	7503	3638	JNE F1
A641	E80000	E 3639	CALL PRINT
A644	B306000013	E 3640	F1: ADD FLASH_ON_PTR,HSE_UNIT_LEN+5
A649	FE0E0000	E 3641	DEC NUM_FLASHING
A64D	75E6	3642	JNZ NEXT_FLASH
		3643	
A64F	C3	3644	NO_FLASHING: RET
		3645	HI_SCORE_OUTPUT ENDP
		3646	;
		3647	;
		3648	;
		3649	;A DISP FG :::::::::::::::::::::
		3650	;
		3651	;
		3652	;
		3653	;
		3654	THIS ROUTINE DISPLAYS THE FOREGROUND OBJECTS FOR THE ATTRACT MODE INSTRUCTION SCREEN
		3655	;
		3656	;
		3657	ASSUMES: NONE
		3658	;
		3659	USES: BP
		3660	;
		3661	RETURNS: NONE
		3662	;
		3663	VARIABLES USED: NONE
		3664	;
		3665	DATA TABLES USED:
		3666	FGND_REG_BUF
		3667	;
		3668	CALLS: A_D_ELECS
		3669	;
		3670	A_D_KSM
		3671	;
		3672	A_D_KLARGE
		3673	;
A650		A_DISP_FG	PROC NEAR
A650	BD0000	E 3674	MOV BP,OFFSET FGND_REG_BUF
A653	E80A00	3675	CALL A_D_ELECS ;DISPLAY ELECTRONS
A656	E82300	3676	CALL A_D_KSMALL ;DISPLAY SMALL KRYPTON
A659	E83100	3677	CALL A_D_KMED ;DISPLAY MED KRYPTON
A65C	E84A00	3678	CALL A_D_KLARGE ;DISPLAY LARGE KRYPTON
A65F	C3	3679	RET
		3680	A_DISP_FG ENDP
		3681	;
		3682	;
		3683	;
		3684	; A D ELECS :::::::::::::::::::::
		3685	;
		3686	;

LOC	OBJ	LINE	SOURCE
		3687	;
		3688	; DISPLAY ORBITING AND ATTACKING ELECTRONS
		3689	;
		3690	;
		3691	; ASSUMES: BP IS AN OFFSET TO FGND_REG_BUF
		3692	;
		3693	; USES: BP
		3694	;
		3695	; RETURNS: NONE
		3696	;
		3697	; VARIABLES USED: NONE
		3698	;
		3699	; DATA TABLES USED:
		3700	FGND_REG_BUF
		3701	;
		3702	; CALLS: NONE
		3703	;
		3704	;
A660		3705	A_D_ELECS PROC NEAR
A660 C64600D2		3706	MOV BYTE PTR[BP],210
A664 C6460150		3707	MOV BYTE PTR[BP+1],80
A668 C6460246		3708	MOV BYTE PTR[BP+2],0FLYEL
		3709	;
A66C B3C504		3710	ADD BP,4
A66F C64600D2		3711	MOV BYTE PTR[BP],210
A673 C6460162		3712	MOV BYTE PTR[BP+1],98
A677 C6460248		3713	MOV BYTE PTR[BP+2],0FLYEL
A67B C3		3714	RET
		3715	A_D_ELECS ENDP
		3716	;
		3717	;
		3718	;
		3719	;A_D_KSMALL :::::::::::::::::::::
		3720	;
		3721	;
		3722	;
		3723	; DISPLAY SMALL KRYPTON
		3724	;
		3725	;
		3726	; ASSUMES: NONE
		3727	;
		3728	; USES: AX,BL
		3729	;
		3730	; RETURNS: NONE
		3731	;
		3732	; VARIABLES USED: NONE
		3733	;
		3734	; DATA TABLES USED:
		3735	KS_DATA
		3736	;
		3737	; CALLS A_D_DNEK
		3738	;
		3739	;
A67C		3740	A_D_KSMALL PROC NEAR
		3741	;

LOC	OBJ	LINE	SOURCE
		3742	; INITIALIZE FOR SMALL KRYPTON
		3743	;
A67C B0DC		3744	MOV AL,220
A67E B476		3745	MOV AH,118
A680 8A1E0200	E	3746	MOV BL,K_S_DATA[2]
		3747	;
		3748	; DISPLAY KRYPTON
		3749	;
A684 EB3E00		3750	CALL A_D_ONEK
A687 2C10		3751	SUB AL,16
A689 EB3900		3752	CALL A_D_ONEK
A68C C3		3753	RET
		3754	A_D_KSMALL ENDP
		3755	;
		3756	;
		3757	;
		3758	;A D KMED :;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
		3759	;
		3760	;
		3761	;
		3762	; DISPLAY MEDIUM KRYPTON
		3763	;
		3764	;
		3765	; ASSUMES: NONE
		3766	;
		3767	; USES: AX,BL
		3768	;
		3769	; RETURNS: NONE
		3770	;
		3771	; VARIABLES USED: NONE
		3772	;
		3773	; DATA TABLES USED:
		3774	KM_DATA
		3775	;
		3776	; CALLS A_D_ONEK
		3777	;
		3778	;
A68D		3779	A_D_KMED PROC NEAR
		3780	;
		3781	; INITIALIZE FOR MEDIUM KRYPTON
		3782	;
A68D B0DC		3783	MOV AL,220
A68F B4BE		3784	MOV AH,142
A691 8A1E0200	E	3785	MOV BL,KM_DATA[2]
		3786	;
		3787	; DISPLAY KRYPTON
		3788	;
A695 E82D00		3789	A_D_K: CALL A_D_ONEK
A698 2C10		3790	SUB AL,16
A69A E82B00		3791	CALL A_D_ONEK
A69D 80C410		3792	ADD AH,16
A6A0 E82200		3793	CALL A_D_ONEK
A6A3 0410		3794	ADD AL,16
A6A5 EB1D00		3795	CALL A_D_ONEK
		3796	;

LOC	OBJ	LINE	SOURCE
A6AB C3		3797	RET
		3798	A_D_KMED ENDP
		3799	;
		3800	;
		3801	;
		3802	;A D KLARGE :::::::::::::::::::::
		3803	;
		3804	;
		3805	;
		3806	; DISPLAY LARGE KRYPTON
		3807	;
		3808	;
		3809	; ASSUMES: NONE
		3810	;
		3811	; USES: AX,BL
		3812	;
		3813	; RETURNS: NONE
		3814	;
		3815	; VARIABLES USED: NONE
		3816	;
		3817	; DATA TABLES USED:
		3818	KL_DATA
		3819	;
		3820	; CALLS: A_D_ONEK
		3821	;
		3822	;
A6A9		3823	A_D_KLARGE PROC NEAR
A6A9 B0DC		3824	MOV AL,220
A6AB B4AE		3825	MOV AH,174
A6AD BA1E0200	E	3826	MOV BL,KL_DATA[2]
		3827	;
A6B1 EB1100		3828	CALL A_D_ONEK
A6B4 2C10		3829	SUB AL,16
A6B6 EB0C00		3830	CALL A_D_ONEK
A6B9 80C410		3831	ADD AH,16
A6BC EB0600		3832	CALL A_D_ONEK
A6BF 0410		3833	ADD AL,16
A6C1 EB0100		3834	CALL A_D_ONEK
		3835	;
A6C4 C3		3836	RET
		3837	A_D_KLARGE ENDP
		3838	;
		3839	;
		3840	;
		3841	;A D ONEK :::::::::::::::::::::
		3842	;
		3843	;
		3844	;
		3845	; DISPLAY ONE FOREGROUND CHARACTER UNIT OF THE KRYPTON
		3846	;
		3847	;
		3848	; ASSUMES: BP OFFSET TO FGND_REG_BUF
		3849	;
		3850	AL CONTAINS Y COORDINATE
		3851	AH CONTAINS X COORDINATE
			BL CONTAINS THE OBJECT SELECT #

LOC	OBJ	LINE	SOURCE
		3852	;
		3853	; USES: AX,BP,BL
		3854	;
		3855	; RETURNS: NEXT_DSN
		3856	;
		3857	; VARIABLES USED: NONE
		3858	;
		3859	; DATA TABLES USED:
		3860	FGND_REG_BUF
		3861	;
		3862	; CALLS: NONE
		3863	;
		3864	;
A6C5		3865	A_D_ONEK PROC NEAR
A6C5 83C504		3866	ADD BP,4
A6C8 884600		3867	MOV [BP],AL
A6CB 886601		3868	MOV [BP+1],AH
A6CE 885E02		3869	MOV [BP+2],BL
A6D1 FEC3		3870	INC BL
A6D3 C3		3871	RET
		3872	A_D_ONEK ENDP
		3873	;
		3874	;
		3875	;
		3876	;
		3877	*****
		3878	;
		3879	KAN'S ROUTINES
		3880	;
		3881	*****
		3882	;
		3883	:ATT BS INIT::::::::::
		3884	;
		3885	;
		3886	;
		3887	GAME SIMULATION INITIALIZATION
		3888	THIS ROUTINE WILL DO ALL THE INITIALIZATION NECESSARY
		3889	;
		3890	;
		3891	;
		3892	; ASSUMES: NONE
		3893	;
		3894	; USES: NONE
		3895	;
		3896	; RETURNS: NONE
		3897	;
		3898	; VARIABLES USED: CTRL_BYTE
		3899	RANDOM
		3900	TWO_PLAYER_FL
		3901	SAME_PLAYER_FL
		3902	ADV_ROUND_FL
		3903	SUMULATE_FL
		3904	RPT_PTR
		3905	ATTRACT_ROUND
		3906	NUM_SHIPS

LOC	OBJ	LINE	SOURCE
		3907	; PANEL
		3908	;
		3909	; DATA TABLES USED:
		3910	; NONE
		3911	;
		3912	; CALLS: STAR_RESET
		3913	; CLR_ACTIVE_VAR
		3914	; SET_TARGET
		3915	; ROUND_INIT
		3916	; AG_RESET
		3917	; AR_RESET
		3918	;
A6D4		3919	ATT_6S_INIT PROC NEAR
		3920	;
		3921	;
		3922	; FGND PRIORITY SET
		3923	;
A6D4	B0260000FE	E	3924 AND CTRL_BYTE,0FEH
		3925	;
		3926	; SIMILAR TO GAME_INIT
		3927	;
A6D9	E80000	E	3928 CALL STAR_RESET
		3929	;
A6DC	C6060000FF	E	3930 MOV TWO_PLAYER_FL,-1
A6E1	C606000000	E	3931 MOV KEEP_MPOS_FL,0
A6E6	C6060000FF	E	3932 MOV SAME_PLAYER_FL,-1
A6EB	C606000000	E	3933 MOV ADV_ROUND_FL,0
A6F0	C6060000FF	E	3934 MOV SIMULATE_FL,-1
		3935	;
A6F5	E80000	E	3936 CALL CLR_ACTIVE_VAR
		3937	;
A6FB	C70600000000	E	3938 MOV RPT_PTR,ATTRACT_ROUND
A6FE	C606000005	E	3939 MOV NUM_SHIPS,5
		3940	;
A703	E80000	E	3941 CALL SET_TARGET
		3942	;
A706	C7060000A103	E	3943 MOV SCORE_ADR_A,OFFSET BGND_REG + SCORE_POS1
		3944	;
A70C	E80000	E	3945 CALL ROUND_INIT
		3946	;
		3947	===== THE FOLLOWING SECTION WILL BE REMOVED LATER =====
		3948	;
		3949	;
		3950	MOV SIMU_ENTRY_FL,0
		3951	;
		3952	TEST PANEL,TEST_STEP_MASK
		3953	JZ RESET_REGEN
		3954	;
		3955	CALL AG_RESET
		3956	;
		3957	MOV SIMU_ENTRY_FL,-1
		3958	;
		3959	;
		3960	RET
		3961	;

LOC	OBJ	LINE	SOURCE
		3962	; ===== THE ABOVE SECTION WILL BE REMOVED LATER =====
		3963	
A70F E80F00		3964	RESET_REGEN: CALL AR_RESET
		3965	
A712 C3		3966	RET
		3967	
		3968	
		3969	ATT_GS_INIT ENDP
		3970	;
		3971	;
		3972	;
		3973	;ATT GS INPUT :::::::::::::::::::::
		3974	;
		3975	;
		3976	;
		3977	; ASSUMES: ATT_GS_INIT HAS BEEN CALLED
		3978	;
		3979	; USES: AL
		3980	;
		3981	; RETURNS: NONE
		3982	;
		3983	; VARIABLES USED: PANEL
		3984	TABLE_FULL_FL
		3985	JOYSTICK
		3986	JS_VALUE
		3987	TBALLY
		3988	DIAL_VALUE
		3989	TABLE_EMPTY_FL
		3990	;
		3991	; DATA TABLES USED:
		3992	NONE
		3993	;
		3994	; CALLS: ATTRACT_GEN
		3995	ATTRACT_REGEN
		3996	;
A713		3997	ATT_GS_INPUT PROC NEAR
		3998	
		3999	; GAME SIMULATION INPUT
		4000	
		4001	; THIS ROUTINE WILL PROVIDE INPUT OF SIMULATED PLAYER.
		4002	
		4003	; ===== FOR NOW, THIS ALSO SERVES AS TABLE GENERATOR
		4004	
		4005	-----
		4006	
		4007	; CMP SIMU_ENTRY_FL,0
		4008	JZ ATT_REGEN_INP
		4009	
		4010	; ===== THIS PORTION OF THIS PROC IS ONLY FOR DEVELOPMENT
		4011	
		4012	; CMP TABLE_FULL_FL,0
		4013	JZ INPUT_ATT2
		4014	JMP ATTRACT_LP
		4015	;
		4016	;INPUT_ATT2: MOV AL,JOYSTICK

LOC	OBJ	LINE	SOURCE
		4017	; AND AL,1FH
		4018	; MOV JS_VALUE,AL
		4019	;
		4020	; MOV AL,TBALLY
		4021	; AND AL,0FH
		4022	; MOV DIAL_VALUE,AL
		4023	;
		4024	; CALL ATTRACT_GEN
		4025	;
		4026	; RET
		4027	;
		4028	; THIS SECTION LOOK UP ATTRACT INPUT TABLE
		4029	;
A713	803E000000	E 4030	ATT_REGEN_INP: CMP TABLE_EMPTY_FL,0
A718	7403	4031	JZ AR_INP2
A71A	E968FB	4032	JMP ATTRACT_LP
		4033	;
A71D	E81300	4034	AR_INP2: CALL ATTRACT_REGEN
		4035	;
A720	C3	4036	RET
		4037	;
		4038	;
		4039	ATT_GS_INPUT ENDP
		4040	;
		4041	;
		4042	
		4043	;
		4044	; THESE ROUTINES ARE TO BE USED TO GENERATE
		4045	THE GAME SIMULATION TABLE AND THEN DISCARDED.
		4046	;
		4047	;
		4048	;AG RESET
		4049	;
		4050	;
		4051	;
		4052	; ASSUMES: NONE
		4053	;
		4054	; USES: NONE
		4055	;
		4056	; RETURNS: NONE
		4057	;
		4058	; VARIABLES USED: FIRST_DATUM_FL
		4059	TABLE_FULL_FL
		4060	ATT_TABLE_PTR
		4061	;
		4062	; DATA TABLES USED:
		4063	NONE
		4064	;
		4065	; CALLS: NONE
		4066	;
		4067	;AG_RESET PROC NEAR
		4068	MOV FIRST_DATUM_FL,1
		4069	MOV TABLE_FULL_FL,0
		4070	MOV ATT_TABLE_PTR,0
		4071	RET

LOC	OBJ	LINE	SOURCE
4072		;AG_RESET	ENDP
4073		;	
4074		;	
4075		;	
4076		;ATTRACT_GEN :::::::::::::::::::::	
4077		;	
4078		;	
4079		;	
4080		;	ASSUMES: AG_RESET HAS BEEN CALLED
4081		;	TABLE_DATUM CONTAINS DATA FOR TABLE
4082		;	
4083		;	USES: AX,BP
4084		;	
4085		;	RETURNS: UPDATED ATTRACT_TABLE
4086		;	
4087		;	VARIABLES USED: TABLE_DATUM
4088		;	ATT_TABLE_PTR
4089		;	FIRST_DATUM_FL
4090		;	ATTRACT_TABLE_LEN
4091		;	TABLE_FULL_FL
4092		;	ATT_TABLE_TOP
4093		;	
4094		;	
4095		;	DATA TABLES USED:
4096		;	ATTRACT_TABLE
4097		;	
4098		;	CALLS: NONE
4099		;	
4100		;	
4101		;ATTRACT_GEN	PROC NEAR
4102		;	MOV AX, TABLE_DATUM
4103		;	MOV BP, ATT_TABLE_PTR
4104		;	CMP FIRST_DATUM_FL, 0
4105		;	JNE FIRST_DATUM
4106		;	CMP WORD PTR ATTRACT_TABLE[BP+1], AX
4107		;	JNE NEW_DATA
4108		;	
4109		;SAME_DATA:	INC ATTRACT_TABLE[BP]
4110		;	
4111		;	JNZ GEN_END ;IF NO OVERFLOW, OK
4112		;	
4113		;	DEC ATTRACT_TABLE[BP] ;IN CASE OF OVERFLOW
4114		;	JMP SHORT NEW_DATA ;PUT IT IN THE NEW DATA AREA
4115		;	
4116		;FIRST_DATUM:	MOV FIRST_DATUM_FL, 0
4117		;	MOV ATTRACT_TABLE[BP], 1
4118		;	CMP WORD PTR ATTRACT_TABLE[BP+1], AX
4119		;	JMP SHORT GEN_END ;
4120		;	
4121		;NEW_DATA:	ADD BP, 3
4122		;	CMP BP, ATT_TABLE_LEN
4123		;	JAE TABLE_FULL ;
4124		;	MOV ATTRACT_TABLE[BP], 1
4125		;	CMP WORD PTR ATTRACT_TABLE[BP+1], AX
4126		;	JMP SHORT GEN_END ;

LOC	OBJ	LINE	SOURCE
		4127	;
		4128	;TABLE_FULL: INC TABLE_FULL_FL
		4129	;GEN_END: MOV ATT_TABLE_PTR,BP
		4130	;
		4131	; MOV ATT_TABLE_TOP,BP ;UPDATE TABLE TOP VALUE
		4132	; RET
		4133	;ATTRACT_GEN ENDP
		4134	;
		4135	;
		4136	;
		4137	;AR RESET :::::::::::::::::::::
		4138	;
		4139	;
		4140	;
		4141	; ASSUMES: NONE
		4142	;
		4143	; USES: AL
		4144	;
		4145	; RETURNS: NONE
		4146	;
		4147	; VARIABLES USED: TABLE_EMPTY_FL
		4148	; ATT_TABLE_PTR
		4149	; ATT_TABLE_CTR
		4150	;
		4151	; DATA TABLES USED:
		4152	; ATTRACT_TABLE
		4153	;
		4154	; CALLS: NONE
		4155	;
		4156	;
A721		4157	AR_RESET PROC NEAR
A721 C606000000	E	4158	MOV TABLE_EMPTY_FL,0
		4159	
		4160	
A726 C7060000000	E	4161	MOV ATT_TABLE_PTR,0
A72C A00000	E	4162	MOV AL,ATTRACT_TABLE[0]
A72F A20000	E	4163	MOV ATT_TABLE_CTR,AL
A732 C3		4164	RET
		4165	AR_RESET ENDP
		4166	;
		4167	;
		4168	;
		4169	;ATTRACT REGEN :::::::::::::::::::::
		4170	;
		4171	;
		4172	;
		4173	; ASSUMES: AR_RESET HAS BEEN CALLED
		4174	;
		4175	; USES: AX,BP
		4176	;
		4177	; RETURNS: NEXT TABLE ENTRY IN TABLE_DATUM
		4178	;
		4179	; VARIABLES USED: ATT_TABLE_PTR
		4180	; ATT_TABLE_CTR
		4181	; ATT_TABLE_TOP

LOC	OBJ	LINE	SOURCE
		4182	; TABLE_DATUM
		4183	; TABLE_EMPTY_FL
		4184	;
		4185	; DATA TABLES USED:
		4186	ATTRACT_TABLE
		4187	;
		4188	; CALLS: NONE
		4189	;
		4190	;
A733		4191	ATTRACT_REGEN PROC NEAR
A733 8B2E0000	E	4192	MOV BP,ATT_TABLE_PTR
		4193	;
		4194	;
A737 803E000000	E	4195	CMP ATT_TABLE_CTR,0
A73C 7511		4196	JNE AR_SAME
		4197	;
A73E 3B2E0000	E	4198	CMP BP,ATT_TABLE_TOP
A742 7319		4199	JAE TABLE_EMPTY ;COMPARISION CHANGED
		4200	;
A744 B3C503		4201	AR_NEW: ADD BP,3
A747 BA9E0000	E	4202	MOV BL,ATTRACT_TABLE[BP]
A74B BB1E0000	E	4203	MOV ATT_TABLE_CTR,BL
A74F BBB60100	E	4204	AR_SAME: MOV AX,WORD PTR ATTRACT_TABLE[BP+1]
A753 A30000	E	4205	MOV TABLE_DATUM,AX
A756 FE0E0000	E	4206	DEC ATT_TABLE_CTR
A75A EB0590		4207	JMP ARR_END
		4208	;
A75D FE060000	E	4209	TABLE_EMPTY: INC TABLE_EMPTY_FL
A761 892E0000	E	4210	ARR_END: MOV ATT_TABLE_PTR,BP
A765 C3		4211	RET
		4212	ATTRACT_REGEN ENDP
		4213	;
		4214	;
		4215	;
		4216	;;;;;;;;;;;;;;;;;;;;;;;;;;;
		4217	;
		4218	;
		4219	;
		4220	;
		4221	;
A766		4222	FADE_BLK PROC
A766 51		4223	OUTER_LP: PUSH CX
A767 BD3E0000	E	4224	LEA DI,COLOR_REG_BUF
A76B B91000		4225	MOV CX,16
A76E BA0000		4226	FD_BLK_LP: MOV DX,0
A771 EB1D00		4227	CALL FADE
A774 47		4228	INC DI
A775 47		4229	INC DI
A776 E2F6		4230	LOOP FD_BLK_LP
A778 59		4231	POP CX
A779 C3		4232	RET
		4233	FADE_BLK ENDP
		4234	;
		4235	;
A77A		4236	FADE_ALL PROC

LOC	OBJ	LINE	SOURCE
A77A	51	4237	PUSH CX
A77B	56	4238	PUSH SI
A77C	BD3E0000	E 4239	LEA DI,COLOR_REG_BUF
A780	B91000	4240	MOV CX,16
A783	BB14	4241 FD_ALL_LP:	MOV DX,[SI]
A785	EB0900	4242	CALL FADE
A788	46	4243	INC SI
A789	46	4244	INC SI
A78A	47	4245	INC DI
A78B	47	4246	INC DI
A78C	E2F5	4247	LOOP FD_ALL_LP
A78E	5E	4248	POP SI
A78F	59	4249	POP CX
A790	C3	4250	RET
		4251 FADE_ALL	ENDP
		4252	
		4253	
A791		4254 FADE	PROC
A791	BB05	4255	MOV AX,[DI]
A793	B0E40F	4256	AND AH,0FH
A796	B0E60F	4257	AND DH,0FH
A799	3BC2	4258	CMP AX,DX
A79B	7502	4259	JNE RED_TST
A79D	F9	4260	STC
A79E	C3	4261	RET
A79F	BADA	4262 RED_TST:	MOV BL,DL
A7A1	BAFB	4263	MOV BH,AL
A7A3	B1E3F0FO	4264	AND BX,0FOFOH
A7A7	B0E20F	4265	AND DL,0FH
A7AA	240F	4266	AND AL,0FH
A7AC	3AE6	4267	CMP AH,DH
A7AE	7408	4268	JZ GREEN_TST
A7B0	7204	4269	JB RED_INC
A7B2	FECC	4270	DEC AH
A7B4	EB02	4271	JMP SHORT GREEN_TST
A7B6	FEC4	4272 RED_INC:	INC AH
A7B8	3AFB	4273 GREEN_TST:	CMP BH,BL
A7BA	740A	4274	JZ BLUE_TST
A7BC	7205	4275	JB GREEN_INC
A7BE	B0EF10	4276	SUB BH,10H
A7C1	EB03	4277	JMP SHORT BLUE_TST
A7C3	B0C710	4278 GREEN_INC:	ADD BH,10H
A7C6	3AC2	4279 BLUE_TST:	CMP AL,DL
A7C8	740B	4280	JZ FADE_DT
A7CA	7204	4281	JB BLUE_INC
A7CC	FEC8	4282	DEC AL
A7CE	EB02	4283	JMP SHORT FADE_DT
A7D0	FEC0	4284 BLUE_INC:	INC AL
A7D2	02C7	4285 FADE_DT:	ADD AL,BH
A7D4	8905	4286	MOV [DI],AX
A7D6	FB	4287	CLC
A7D7	C3	4288	RET
		4289 FADE	ENDP
		4290	
		4291	

LOC	OBJ	LINE	SOURCE
		4292	
		4293	
		4294	
		4295	
		4296	
		4297	
		4298 +1	\$INCLUDE(:F1:MPURGE.S1)
=1		4299	; ===== TO BE INCLUDED FILE "MPURGE.S1 =====
=1		4300	
=1		4301	; 7.00 02/28/83 PRODUCTION VERSION GV-102-0
=1		4302	; 5.51 02/15/83 NEW MSTRUCT CAUSE FEW DELETES
=1		4303	; 5.50 01/25/83 PURGE FILE REMADE FOR VERSION 08
=1		4304	
=1		4305	; ----- PURGE OF EQU -----
=1		4306	
=1		4307	PURGE V1
=1		4308	PURGE V2
=1		4309	PURGE NUM_ROMS
=1		4310	PURGE STORED_CHKSUM
=1		4311	PURGE WLEN_FGND_REG
=1		4312	PURGE BLEN_BGND_REG
=1		4313	PURGE WLEN_COLOR_REG
=1		4314	PURGE FRAME_TIME
=1		4315	PURGE FRAME_TIMEL
=1		4316	PURGE FRAME_TIMEH
=1		4317	PURGE SCORE_POS1
=1		4318	PURGE SCORE_POS2
=1		4319	PURGE SCORE_POSH
=1		4320	PURGE SHIP_POS1
=1		4321	PURGE SHIP_POS2
=1		4322	PURGE RND_POS1
=1		4323	PURGE RND_POS2
=1		4324	PURGE CTIME_DISP_POS
=1		4325	PURGE BAD_ROM_POS
=1		4326	PURGEINI_TIME_POS
=1		4327	PURGE DOMINANT_MASK
=1		4328	PURGE COCKTAIL_MASK
=1		4329	PURGE ROUND_OPT_MASK
=1		4330	PURGE ATT_SOUND_MASK
=1		4331	PURGE COIN_VALUE_MASK
=1		4332	PURGE COIN_MID_MASK
=1		4333	PURGE NUM_SHIP_MASK
=1		4334	PURGE EXTRA_SHIP_MASK
=1		4335	PURGE DIFF_MASK
=1		4336	PURGE DIFF_MID_MASK
=1		4337	PURGE JSALL_MASK
=1		4338	PURGE JSRT_MASK
=1		4339	PURGE JSLT_MASK
=1		4340	PURGE JSUP_MASK
=1		4341	PURGE JSON_MASK
=1		4342	PURGE TRIGGER_MASK
=1		4343	PURGE START_ONE_MASK
=1		4344	PURGE START_TWO_MASK
=1		4345	PURGE BOTH_PLAYER_MASK
=1		4346	PURGE COIN_MASK

LOC	OBJ	LINE	SOURCE
=1	4347	PURGE	SLAM_MASK
=1	4348	PURGE	TEST_ON_MASK
=1	4349	PURGE	TEST_STEP_MASK
=1	4350	PURGE	ROUND_THRES
=1	4351	PURGE	DIFF_FTR_A
=1	4352	PURGE	DIFF_FTR_B
=1	4353	PURGE	HUMAN_START_ROUND
=1	4354	PURGE	KILLER_PERD
=1	4355	PURGE	CUTOFF_PERD
=1	4356	PURGE	DT_KSPEED_PERD
=1	4357	PURGE	DT_KMASS_PERD
=1	4358	PURGE	KSPEED_ABS_MAX
=1	4359	PURGE	TIMEOUT_PERD
=1	4360	PURGE	NEW_DAY_PERD
=1	4361	PURGE	MEXTRA_PERD
=1	4362	PURGE	KRYPT_SAFE_PERD
=1	4363	PURGE	SPASM_PERD
=1	4364	PURGE	KRYPEXP_PERD
=1	4365	PURGE	DELETEEXP_PERD
=1	4366	PURGE	FELECEXP_PERD
=1	4367	PURGE	ETIME_1ST
=1	4368	PURGE	COM_SPIN_PERD
=1	4369	PURGE	COMETEXP_PERD
=1	4370	PURGE	COMET_POINT_PERD
=1	4371	PURGE	COMET_BONUSPERD
=1	4372	PURGE	COMET_CLUE_PERD
=1	4373	PURGE	GOVER_MSG_PERD
=1	4374	PURGE	ONE_GOVER_PERD
=1	4375	PURGE	READY_PERD
=1	4376	PURGE	PERFECT_PERD
=1	4377	PURGE	PERFECT_PERD2
=1	4378	PURGE	PERF_SOUND_PERD
=1	4379	PURGE	NUM_PERF_SOUND
=1	4380	PURGE	HUMANSPEED_MASK
=1	4381	PURGE	HPOINT_PERD
=1	4382	PURGE	HUMAN_RECVPERD
=1	4383	PURGE	HUMAN_CONTPERD
=1	4384	PURGE	HEXP_PERD
=1	4385	PURGE	HUMAN_INITPERD
=1	4386	PURGE	HUMAN_INTERVAL
=1	4387	PURGE	AGAIN_PERD
=1	4388	PURGE	HMODE0_PERD
=1	4389	PURGE	HMODE1_PERD
=1	4390	PURGE	HMODE3_PERD
=1	4391	PURGE	HMODE4_PERD
=1	4392	PURGE	HMODE7_PERD
=1	4393	PURGE	BONUS_HUMAN_PNT
=1	4394	PURGE	MAX_CREDIT
=1	4395	PURGE	SHIPS_PER_GAME
=1	4396	PURGE	SHIPS_EASY_GAME
=1	4397	PURGE	MAX_NUM_SHIPS
=1	4398	PURGE	MAX_NUM_FLYEL
=1	4399	PURGE	MAX_NUM_KRYPT
=1	4400	PURGE	MAX_NUM_SEEDS
=1	4401	PURGE	MAX_NUM_HUMANS

LOC	OBJ	LINE	SOURCE
=1	4402	PURGE	NUM_BULLETS
=1	4403	PURGE	NUM_MAGNAOJBS
=1	4404	PURGE	NUM_ELECTRONS
=1	4405	PURGE	NUM_STARS
=1	4406	PURGE	EXP_SPEED
=1	4407	PURGE	SPIN_FRAMES
=1	4408	PURGE	NUM_SPINS
=1	4409	PURGE	SPIN_ANGLE
=1	4410	PURGE	NUM_MXPIECES
=1	4411	PURGE	MXOUT_POS
=1	4412	PURGE	FILLH
=1	4413	PURGE	FILLL
=1	4414	PURGE	MAGNA_SX_SPEED
=1	4415	PURGE	MAGNA_SY_SPEED
=1	4416	PURGE	MAGNA_DX_SPEED
=1	4417	PURGE	MAGNA_DY_SPEED
=1	4418	PURGE	DIAL_THRES
=1	4419	PURGE	MAX_BULLET_LIFE
=1	4420	PURGE	MAX_BULLET_LIFE2
=1	4421	PURGE	MIN_BULLET_LIFE
=1	4422	PURGE	SHOTGUN_FACTOR
=1	4423	PURGE	SHOTGUN_FACTOR2
=1	4424	PURGE	BULLET_SPEED
=1	4425	PURGE	MAD_FACTOR
=1	4426	PURGE	MIN_KMASS
=1	4427	PURGE	EJECT_MATCH
=1	4428	PURGE	INF_XLIMIT0
=1	4429	PURGE	INF_YLIMIT0
=1	4430	PURGE	INF_XLIMIT1
=1	4431	PURGE	INF_YLIMIT1
=1	4432	PURGE	INF_XLIMIT2
=1	4433	PURGE	INF_YLIMIT2
=1	4434	PURGE	MAGNA_RLIMIT
=1	4435	PURGE	MAGNA_LLIMIT
=1	4436	PURGE	MAGNA_DLIMIT
=1	4437	PURGE	MAGNA_ULIMIT
=1	4438	PURGE	BULLET_RLIMIT
=1	4439	PURGE	BULLET_LLIMIT
=1	4440	PURGE	BULLET_DLIMIT
=1	4441	PURGE	BULLET_ULIMIT
=1	4442	PURGE	KRYPT_RLIMIT
=1	4443	PURGE	KRYPT_LLIMIT
=1	4444	PURGE	KRYPT_DLIMIT
=1	4445	PURGE	KRYPT_ULIMIT
=1	4446	PURGE	FLYEL_RLIMIT
=1	4447	PURGE	FLYEL_LLIMIT
=1	4448	PURGE	FLYEL_DLIMIT
=1	4449	PURGE	FLYEL_ULIMIT
=1	4450	PURGE	COMET_RLIMIT
=1	4451	PURGE	COMET_LLIMIT
=1	4452	PURGE	COMET_DLIMIT
=1	4453	PURGE	COMET_ULIMIT
=1	4454	PURGE	HUMAN_RLIMITH
=1	4455	PURGE	HUMAN_LLIMITH
=1	4456	PURGE	HUMAN_DLIMITH

LOC	OBJ	LINE	SOURCE
		=1 4457	PURGE HUMAN_ULIMIT
		=1 4458	PURGE HUMAN_RLIMIT
		=1 4459	PURGE HUMAN_LLIMIT
		=1 4460	PURGE HUMAN_DLIMIT
		=1 4461	PURGE HUMAN_ULIMIT
		=1 4462	PURGE MHXRANGE
		=1 4463	PURGE MHYRANGE
		=1 4464	PURGE HBXRANGE
		=1 4465	PURGE HBYRANGE
		=1 4466	PURGE ELECT_RANGE
		=1 4467	PURGE COMET_RANGE
		=1 4468	PURGE PB_XRANGE1
		=1 4469	PURGE PR_YRANGE1
		=1 4470	PURGE PB_XRANGE2
		=1 4471	PURGE PB_YRANGE2
		=1 4472	PURGE EB_XPRANGE
		=1 4473	PURGE EB_XNRANGE
		=1 4474	PURGE EB_YPRANGE
		=1 4475	PURGE EB_YNRANGE
		=1 4476	PURGE EFB_XPRANGE
		=1 4477	PURGE EFB_XNRANGE
		=1 4478	PURGE EFB_YPRANGE
		=1 4479	PURGE EFB_YNRANGE
		=1 4480	PURGE EFB_XPRANGE1
		=1 4481	PURGE EFB_XNRANGE1
		=1 4482	PURGE EFB_YPRANGE1
		=1 4483	PURGE EFB_YNRANGE1
		=1 4484	PURGE CB_XPRANGE
		=1 4485	PURGE CB_XNRANGE
		=1 4486	PURGE CB_YPRANGE
		=1 4487	PURGE CB_YNRANGE
		=1 4488	PURGE CB_XPRANGE1
		=1 4489	PURGE CB_XNRANGE1
		=1 4490	PURGE CB_YPRANGE1
		=1 4491	PURGE CB_YNRANGE1
		=1 4492	PURGE CANIM_PERD1
		=1 4493	PURGE KEXP_COLOR
		=1 4494	PURGE KEXP_DIFF
		=1 4495	PURGE CANIM_PERD2
		=1 4496	PURGE MEXP_COLOR
		=1 4497	PURGE MEXP_DIFF
		=1 4498	PURGE MRESET_XPOS
		=1 4499	PURGE MRESET_YPOS
		=1 4500	PURGE MAGNA_XHOME
		=1 4501	PURGE MAGNA_YHOME
		=1 4502	PURGE BULLET_XHOME
		=1 4503	PURGE BULLET_YHOME
		=1 4504	PURGE ELECT_XHOME
		=1 4505	PURGE ELECT_YHOME
		=1 4506	PURGE FLYEL_XHOME
		=1 4507	PURGE FLYEL_YHOME
		=1 4508	PURGE SEED_XHOME
		=1 4509	PURGE SEED_YHOME
		=1 4510	PURGE COMET_XHOME
		=1 4511	PURGE COMET_YHOME

LOC	OBJ	LINE	SOURCE
=1	4512	PURGE	HUMAN_XHOME
=1	4513	PURGE	HUMAN_YHOME
=1	4514	PURGE	MST_NORM
=1	4515	PURGE	MST_EXP
=1	4516	PURGE	EST_ORB
=1	4517	PURGE	EST_ORBOUT
=1	4518	PURGE	EST_BACK
=1	4519	PURGE	EST_EXP
=1	4520	PURGE	EST_INACT
=1	4521	PURGE	KST_NOEJ
=1	4522	PURGE	KST_OKEJ
=1	4523	PURGE	KST_RDYEJ
=1	4524	PURGE	KST_EXP
=1	4525	PURGE	KST_INACT
=1	4526	PURGE	KST_DEAD
=1	4527	PURGE	QST_ACTIVE
=1	4528	PURGE	QST_INACTIVE
=1	4529	PURGE	KOSHIFTX
=1	4530	PURGE	KOSHIFTY
=1	4531	PURGE	KOSHIFTZ
=1	4532	PURGE	ROM_TEST_CYCLES
=1	4533	PURGE	RAM_TEST_CYCLES
=1	4534	PURGE	ACTIVITY_LEGAL_MASK
=1	4535	PURGE	CLR_VPN
=1	4536	PURGE	MAGNA_SIZE
=1	4537	PURGE	OMAGNA
=1	4538	PURGE	NUM_DSLOTS
=1	4539	PURGE	ESL0
=1	4540	PURGE	ESL1
=1	4541	PURGE	ESL2
=1	4542	PURGE	ESL3
=1	4543	PURGE	ESL4
=1	4544	PURGE	ESL5
=1	4545	PURGE	BACK_SLOT_LIMIT
=1	4546	PURGE	BOX
=1	4547	PURGE	OSEED
=1	4548	PURGE	OBULLET
=1	4549	PURGE	DELECT
=1	4550	PURGE	OFLYEL
=1	4551	PURGE	DELECTEXP
=1	4552	PURGE	OCOMETA
=1	4553	PURGE	OCOMETB
=1	4554	PURGE	OCOMEXP1
=1	4555	PURGE	OCOMEXP2
=1	4556	PURGE	OHUMAN1A
=1	4557	PURGE	OHUMAN1B
=1	4558	PURGE	OHUMAN1C
=1	4559	PURGE	OHUMAN2A
=1	4560	PURGE	OHUMAN2B
=1	4561	PURGE	OHUMAN2C
=1	4562	PURGE	OHUMAN3A
=1	4563	PURGE	OHUMAN3B
=1	4564	PURGE	OHUMAN3C
=1	4565	PURGE	OHUMAN4A
=1	4566	PURGE	OHUMAN4B

LOC	OBJ	LINE	SOURCE
		=1 4567	PURGE OHUMAN4C
		=1 4568	PURGE OHEXP
		=1 4569	PURGE OP10
		=1 4570	PURGE OP50
		=1 4571	PURGE OP100
		=1 4572	PURGE OP200
		=1 4573	PURGE OP300
		=1 4574	PURGE OP400
		=1 4575	PURGE OP500
		=1 4576	PURGE OP600
		=1 4577	PURGE OP700
		=1 4578	PURGE OP800
		=1 4579	PURGE OP900
		=1 4580	PURGE OP1000
		=1 4581	PURGE BLACK
		=1 4582	PURGE RED
		=1 4583	PURGE ORANGE
		=1 4584	PURGE YELLOW
		=1 4585	PURGE LTYELLOW
		=1 4586	PURGE LTGREEN
		=1 4587	PURGE DKGREEN
		=1 4588	PURGE LTBLUE
		=1 4589	PURGE MDBLUE
		=1 4590	PURGE DKBLUE
		=1 4591	PURGE LTPURPLE
		=1 4592	PURGE MDPURPLE
		=1 4593	PURGE DKPURPLE
		=1 4594	PURGE LTGRAY
		=1 4595	PURGE A
		=1 4596	PURGE B
		=1 4597	PURGE C
		=1 4598	PURGE D
		=1 4599	PURGE E
		=1 4600	PURGE F
		=1 4601	PURGE G
		=1 4602	PURGE H
		=1 4603	PURGE I
		=1 4604	PURGE J
		=1 4605	PURGE K
		=1 4606	PURGE L
		=1 4607	PURGE M
		=1 4608	PURGE N
		=1 4609	PURGE O
		=1 4610	PURGE P
		=1 4611	PURGE Q
		=1 4612	PURGE R
		=1 4613	PURGE S
		=1 4614	PURGE T
		=1 4615	PURGE U
		=1 4616	PURGE V
		=1 4617	PURGE W
		=1 4618	PURGE X
		=1 4619	PURGE Y
		=1 4620	PURGE Z
		=1 4621	PURGE ACTIVE_CODE

LOC	OBJ	LINE	SOURCE
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=1	4622	PURGE	SPACE
=1	4623	PURGE	BACKUP
=1	4624	PURGE	PERD
=1	4625	PURGE	APSD
=1	4626	PURGE	CPRT
=1	4627	PURGE	XCLM
=1	4628	PURGE	HBAR
=1	4629	PURGE	VBAR
=1	4630	PURGE	CHAR_SHIP
=1	4631	PURGE	R1
=1	4632	PURGE	R2
=1	4633	PURGE	R3
=1	4634	PURGE	R4
=1	4635	PURGE	R5
=1	4636	PURGE	R6
=1	4637	PURGE	R7
=1	4638	PURGE	R8
=1	4639	PURGE	R9
=1	4640	PURGE	R10
=1	4641	PURGE	R11
=1	4642	PURGE	R12
=1	4643	PURGE	R13
=1	4644	PURGE	R14
=1	4645	PURGE	R15
=1	4646	PURGE	R16
=1	4647	PURGE	R17
=1	4648	PURGE	R18
=1	4649	PURGE	R19
=1	4650	PURGE	R20
=1	4651	PURGE	BLNK
=1	4652	PURGE	EOST
=1	4653	PURGE	NEWP
=1	4654	PURGE	CUPP
=1	4655	PURGE	CLFT
=1	4656	PURGE	COWN
=1	4657	PURGE	CRGT
=1	4658	PURGE	SC_STOP
=1	4659	PURGE	SC_NOMUSIC
=1	4660	PURGE	SP_NOMUSIC
=1	4661	PURGE	ST_NOMUSIC
=1	4662	PURGE	SC_COIN
=1	4663	PURGE	SP_COIN
=1	4664	PURGE	ST_COIN
=1	4665	PURGE	SC_EXSHIP
=1	4666	PURGE	SP_EXSHIP
=1	4667	PURGE	ST_EXSHIP
=1	4668	PURGE	SC_ROUND
=1	4669	PURGE	SP_ROUND
=1	4670	PURGE	ST_ROUND
=1	4671	PURGE	SC_MEXP
=1	4672	PURGE	SP_MEXP
=1	4673	PURGE	ST_MEXP
=1	4674	PURGE	SC_MSPIN
=1	4675	PURGE	SP_MSPIN
=1	4676	PURGE	ST_MSPIN

LOC	OBJ	LINE	SOURCE
=1	4677	PURGE	SC_COMMET
=1	4678	PURGE	SP_COMMET
=1	4679	PURGE	ST_COMMET
=1	4680	PURGE	SC_KEXP
=1	4681	PURGE	SP_KEXP
=1	4682	PURGE	ST_KEXP
=1	4683	PURGE	SC_HENTER
=1	4684	PURGE	SP_HENTER
=1	4685	PURGE	ST_HENTER
=1	4686	PURGE	SC_HPICK
=1	4687	PURGE	SP_HPICK
=1	4688	PURGE	ST_HPICK
=1	4689	PURGE	SC_CEXP
=1	4690	PURGE	SP_CEXP
=1	4691	PURGE	ST_CEXP
=1	4692	PURGE	SC_FEXP
=1	4693	PURGE	SP_FEXP
=1	4694	PURGE	ST_FEXP
=1	4695	PURGE	SC_EEXP
=1	4696	PURGE	SP_EEXP
=1	4697	PURGE	ST_EEXP
=1	4698	PURGE	SC_BKHIT
=1	4699	PURGE	SP_BKHIT
=1	4700	PURGE	ST_BKHIT
=1	4701	PURGE	SC_EJECT
=1	4702	PURGE	SP_EJECT
=1	4703	PURGE	ST_EJECT
=1	4704	PURGE	SC_TRIGGER
=1	4705	PURGE	SP_TRIGGER
=1	4706	PURGE	ST_TRIGGER
=1	4707	PURGE	SC_BGND1
=1	4708	PURGE	SC_BGND2
=1	4709	PURGE	SC_BGND3
=1	4710	PURGE	SC_BGND4
=1	4711		
=1	4712	; ----- PURGE OF STRUC -----	
=1	4713		
=1	4714		
=1	4715	PURGE	F6PAR
=1	4716	PURGE	VPN
=1	4717	PURGE	HPN
=1	4718	PURGE	DSN
=1	4719	PURGE	DUM
=1	4720	PURGE	BLEN_F6PAR
=1	4721	PURGE	ORBPAR
=1	4722	PURGE	SLOTN
=1	4723	PURGE	XDISP
=1	4724	PURGE	YDISP
=1	4725	PURGE	BLEN_ORBPAR
=1	4726	PURGE	MAGPAR
=1	4727	PURGE	MNEXT
=1	4728	PURGE	MLAST
=1	4729	PURGE	MSLOT
=1	4730	PURGE	MSIZE
=1	4731	PURGE	MSTAT

LOC	OBJ	LINE	SOURCE
		=1 4732	PURGE MVPN
		=1 4733	PURGE MHPN
		=1 4734	PURGE MOSN
		=1 4735	PURGE MTIMER
		=1 4736	PURGE MTIMER2
		=1 4737	PURGE MACTJMP
		=1 4738	PURGE MXPOS
		=1 4739	PURGE MYPDS
		=1 4740	PURGE MXVEL
		=1 4741	PURGE MYVEL
		=1 4742	PURGE MCTR
		=1 4743	PURGE BLEN_MAGPAR
		=1 4744	PURGE KRYPAR
		=1 4745	PURGE KNEXT
		=1 4746	PURGE KLAST
		=1 4747	PURGE KSLOT
		=1 4748	PURGE KSIZE
		=1 4749	PURGE KEMAX
		=1 4750	PURGE KEPTR
		=1 4751	PURGE KIPPTR
		=1 4752	PURGE KIXPTR
		=1 4753	PURGE KMRAANG
		=1 4754	PURGE KORBIT
		=1 4755	PURGE KXPOS
		=1 4756	PURGE KYPOS
		=1 4757	PURGE KTIMER
		=1 4758	PURGE KISTEP
		=1 4759	PURGE KINTVL
		=1 4760	PURGE KSAFE
		=1 4761	PURGE KXVEL
		=1 4762	PURGE KYVEL
		=1 4763	PURGE KPACKFL
		=1 4764	PURGE KSTAT
		=1 4765	PURGE KFECTR
		=1 4766	PURGE KACTJMP
		=1 4767	PURGE KECTR
		=1 4768	PURGE KMASS
		=1 4769	PURGE KPPTTR
		=1 4770	PURGE BLEN_KRYPAR
		=1 4771	PURGE BLEN_KZERO
		=1 4772	PURGE KPPAR
		=1 4773	PURGE KPXHOME
		=1 4774	PURGE KPYHOME
		=1 4775	PURGE KPOSN
		=1 4776	PURGE KPNUM
		=1 4777	PURGE KPBRANG
		=1 4778	PURGE KPSCORE
		=1 4779	PURGE BLEN_KPPAR
		=1 4780	PURGE ELPAR
		=1 4781	PURGE ENEXT
		=1 4782	PURGE ELAST
		=1 4783	PURGE ESLOT
		=1 4784	PURGE ESIZE
		=1 4785	PURGE ESTAT
		=1 4786	PURGE EVPN

LOC	OBJ	LINE	SOURCE
=1	4787	PURGE	EHPN
=1	4788	PURGE	EDSN
=1	4789	PURGE	ETIMER
=1	4790	PURGE	EORBPTR
=1	4791	PURGE	EACTJMP
=1	4792	PURGE	EXPOS
=1	4793	PURGE	EYPOS
=1	4794	PURGE	EXVEL
=1	4795	PURGE	EYVEL
=1	4796	PURGE	EXMPOS
=1	4797	PURGE	EYMPOS
=1	4798	PURGE	EMASS
=1	4799	PURGE	BLEN_ELPAR
=1	4800	PURGE	BULPAR
=1	4801	PURGE	BXPOS
=1	4802	PURGE	BYPOS
=1	4803	PURGE	BXMPOS
=1	4804	PURGE	BYMPOS
=1	4805	PURGE	BXVEL
=1	4806	PURGE	BYVEL
=1	4807	PURGE	BSLOT
=1	4808	PURGE	BSTAT
=1	4809	PURGE	BTIMER
=1	4810	PURGE	BLEN_BULPAR
=1	4811	PURGE	STARPAR
=1	4812	PURGE	BLEN_STARPAR
=1	4813	PURGE	PACPAR
=1	4814	PURGE	PNEXT
=1	4815	PURGE	PLAST
=1	4816	PURGE	PACKET
=1	4817	PURGE	PSIZE
=1	4818	PURGE	SEEDPAR
=1	4819	PURGE	SXPOS
=1	4820	PURGE	SYPOS
=1	4821	PURGE	SXVEL
=1	4822	PURGE	SYVEL
=1	4823	PURGE	BLEN_SEEDPAR
=1	4824	PURGE	RKPAR
=1	4825	PURGE	RKSIZ
=1	4826	PURGE	RKEMAX
=1	4827	PURGE	RKEPTR
=1	4828	PURGE	RKPPT
=1	4829	PURGE	RKXPT
=1	4830	PURGE	RKMRA
=1	4831	PURGE	RKORBIT
=1	4832	PURGE	BLEN_RKPAR
=1	4833	PURGE	RPTPAR
=1	4834	PURGE	RGRACE_PERD
=1	4835	PURGE	RKEJECT_PERD
=1	4836	PURGE	RSPSM_NOEJ_PERD
=1	4837	PURGE	RRECOV_PERD
=1	4838	PURGE	REJECT_MASK
=1	4839	PURGE	RINF_SPEED_PTR
=1	4840	PURGE	RKMASS_1ST
=1	4841	PURGE	RKMASS_MAD

LOC	OBJ	LINE	SOURCE
		=1 4842	PURGE REMASS_1ST
		=1 4843	PURGE RMIN_EMASS
		=1 4844	PURGE RACCEL_MASK
		=1 4845	PURGE RNUM_KRYPTONS
		=1 4846	PURGE RKRYPT_TODO
		=1 4847	PURGE RMAX_FLYEL
		=1 4848	PURGE RKSPEED_MAX
		=1 4849	PURGE RKSPEED_MIN
		=1 4850	PURGE RCOMET_GRACPERD
		=1 4851	PURGE RCOMET_RECVPERD
		=1 4852	PURGE RCOMET_PTR
		=1 4853	PURGE RCOMET_BPTR
		=1 4854	PURGE RFLYEL_LIMIT
		=1 4855	PURGE RBGND_SOUND
		=1 4856	PURGE RCOLOR_SET_PTR
		=1 4857	PURGE RNUM_HUMANS
		=1 4858	PURGE RHUMAN_PNTOBJ
		=1 4859	PURGE RHUMAN_SCORE
		=1 4860	PURGE BLEN_RPTPAR
		=1 4861	PURGE CTPAR
		=1 4862	PURGE ICPOS
		=1 4863	PURGE IAVEL
		=1 4864	PURGE IBVEL
		=1 4865	PURGE CPPAR
		=1 4866	PURGE CMASS1ST
		=1 4867	PURGE CMASSMIN
		=1 4868	PURGE CFRAAME
		=1 4869	PURGE BLEN_CPPAR
		=1 4870	PURGE MXPPAR
		=1 4871	PURGE XXVEL
		=1 4872	PURGE XYVEL
		=1 4873	PURGE XXHOME
		=1 4874	PURGE XYHOME
		=1 4875	PURGE BLEN_MXPPAR
		=1 4876	PURGE MXDPAR
		=1 4877	PURGE XXPOS
		=1 4878	PURGE XYPOS
		=1 4879	PURGE BLEN_MXDPAR
		=1 4880	PURGE STATPAR
		=1 4881	PURGE STATCTR
		=1 4882	PURGE HIGHL
		=1 4883	PURGE HIGHH
		=1 4884	PURGE LOWL
		=1 4885	PURGE LOWH
		=1 4886	PURGE SUML
		=1 4887	PURGE SUMH
		=1 4888	PURGE NUMSUM
		=1 4889	PURGE CHECKER
		=1 4890	PURGE BLEN_DTABLE
		=1 4891	PURGE HUMANPAR
		=1 4892	PURGE HXPOS
		=1 4893	PURGE HYPOS
		=1 4894	PURGE HXVEL
		=1 4895	PURGE HYVEL
		=1 4896	PURGE HXACC

LOC	OBJ	LINE	SOURCE
		=1	4897 PURGE HYACC
		=1	4898 PURGE HACTJMP
		=1	4899 PURGE HPTR
		=1	4900 PURGE HTIMER
		=1	4901 PURGE HMODE
		=1	4902 PURGE HOSN
		=1	4903 PURGE HPERD
		=1	4904 PURGE BLEN_HUMANPAR
		=1	4905 PURGE HI_SCORE_ENTRY
		=1	4906 PURGE LOC
		=1	4907 PURGE LOCX1
		=1	4908 PURGE LOCX2
		=1	4909 PURGE SCORE
		=1	4910 PURGE SCOREX1
		=1	4911 PURGE SCOREX2
		=1	4912 PURGE SCOREX3
		=1	4913 PURGE SCOREX4
		=1	4914 PURGE SCOREX5
		=1	4915 PURGE SCOREX6
		=1	4916 PURGE SCOREX7
		=1	4917 PURGE INITIAL
		=1	4918 PURGE INITIALX1
		=1	4919 PURGE INITIALX2
		=1	4920
		=1	4921 ; ===== END OF FILE 'MPURGE.S1 =====
		=1	4922
		4923	
		4924	
		4925	PURGE HSE_UNIT_LEN
		4926	PURGE NUM_DIGITS
		4927	PURGE NUM_ENTRYS
		4928	PURGE FIRST_ENTRY
		4929	PURGE ENTRY_LENGTH
		4930	PURGE TIME_UP
		4931	PURGE LEFT_EDGE
		4932	PURGE RIGHT_EDGE
		4933	PURGE TOP_EDGE
		4934	PURGE BOTTOM_EDGE
		4935	PURGE HSE_LENGTH
		4936	PURGE LENGTH_HSE
		4937	PURGE ATT_HS_TIME
		4938	PURGE ATT_GS_TIME
		4939	PURGE ATT_I_TIME
		4940	PURGE ATT_L_TIME
		4941	PURGE ATT_TABLE_LEN
		4942	PURGE CHK_NOT_OK
		4943	PURGE CHK_OK
		4944	PURGE CMP_LP
		4945	PURGE NEXT_DIGIT
		4946	PURGE MORE_ENTRYS
		4947	PURGE POSSIBLE
		4948	PURGE NEW_HS
		4949	PURGE TWO_PLYR
		4950	PURGE IDO
		4951	PURGE ALL_DONE

LOC	OBJ	LINE	SOURCE
		4952	PURGE NXT_SHIFT
		4953	PURGE NO_SHIFT
		4954	PURGE INIT_INPUT_LP
		4955	PURGE NO_TRIGGER
		4956	PURGE MOV_VERT
		4957	PURGE MOV_RIGHT
		4958	PURGE MOV_LEFT
		4959	PURGE MOV_UP
		4960	PURGE MOV_DOWN
		4961	PURGE NO_MOV
		4962	PURGE DONE
		4963	PURGE SPEC_CHAR
		4964	PURGE SPCE
		4965	PURGE NOT_SPACE
		4966	PURGE BCKUP
		4967	PURGE INSERT_INITS
		4968	PURGE ALLIGN_BOX
		4969	PURGE TRIGGER_HELD
		4970	PURGE EXTRA_WAIT
		4971	PURGE TWO_PLYRS
		4972	PURGE COMMON_MSG
		4973	PURGE HSR_OK
		4974	PURGE RESET_ALL
		4975	PURGE RESET_LP
		4976	PURGE BZ_NXT
		4977	PURGE MORE_BLANKS
		4978	PURGE NO_BLANKS
		4979	PURGE ZB_NXT
		4980	PURGE MORE_ZEROS
		4981	PURGE CS_LP
		4982	PURGE ATT1
		4983	PURGE ATT_HS_LP
		4984	PURGE ATT_HS1
		4985	PURGE ATT_BS_LP
		4986	PURGE ATT_BS1
		4987	PURGE ATT_I_LP
		4988	PURGE ATT_I1
		4989	PURGE ATT_I_ELP
		4990	PURGE ATT_L_LP
		4991	PURGE ATT_L1
		4992	PURGE ONES_DIGIT
		4993	PURGE FLASH_MSG
		4994	PURGE NO_START_MSG
		4995	PURGE DC_END
		4996	PURGE CLR_LP
		4997	PURGE ATT_BT61
		4998	PURGE ATT_BT62
		4999	PURGE ATT_BT63
		5000	PURGE ATT_BT64
		5001	PURGE ATT_BT65
		5002	PURGE HSO_NOT_OK
		5003	PURGE HSO_OK
		5004	PURGE A_D_K
		5005	PURGE AR_INP2
		5006	PURGE AR_NEW

LOC	OBJ	LINE	SOURCE
		5007	PURGE AR_SAME
		5008	
		5009	
----		5010	ALLSEG ENDS
		5011	END

XREF SYMBOL TABLE LISTING

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
??SEG	SEGMENT		SIZE=0000H PARA PUBLIC
A	--PURGED--		893# 1666 1671 1671 1671 1672 1685 1693 1696 1702 1704 1707 1708 1712 1713 1713 1714 1716 1719 1719 1722 1722 1723 1723 1727 1742 1742 1746 1746 1747 1753 1757 1758 1763 1763 1765 1765 1767 1767 1769 1769 1781 4595P
A_D_ELECS	L NEAR	A660H	ALLSEG 3675 3705# 3715
A_D_K	--PURGED--		3789# 5004P
A_D_KLARGE.	L NEAR	A6A9H	ALLSEG 3678 3823# 3837
A_D_KMED.	L NEAR	A68DH	ALLSEG 3677 3779# 3798
A_D_KSMALL.	L NEAR	A67CH	ALLSEG 3676 3740# 3754
A_D_ONEK.	L NEAR	A6C5H	ALLSEG 3750 3752 3789 3791 3793 3795 3828 3830 3832 3834 3865# 3872
A_DISP_FG	L NEAR	A650H	ALLSEG 3131 3673# 3680
ACTIVE_CODE	--PURGED--		922# 4621P
ACTIVITY_FL	V BYTE	0000H	EXTRN 1539# 2007
ACTIVITY_LEGAL_MASK	--PURGED--		769# 4534P
ADV_ROUND_FL.	V BYTE	0000H	EXTRN 1540# 3933
AGAIN_PERD.	--PURGED--		535# 4387P
ALL_DONE.	--PURGED--		1988 1990 2006# 4951P
ALIGN_BOX.	--PURGED--		2468 2487 2500# 4968P
ALLSEG.	SEGMENT		SIZE=A7D8H PARA ABS 143# 145 145 145 145 5010
APSD.	--PURGED--		927# 1752 4625P
AR_INP2	--PURGED--		4031 4034# 5005P
AR_NEW.	--PURGED--		4201# 5006P
AR_RESET.	L NEAR	A721H	ALLSEG PUBLIC 1526 3964 4157# 4165
AR_SAME	--PURGED--		4196 4204# 5007P
ARR_END	L NEAR	A761H	ALLSEG 4207 4210#
ATT_AT3	L NEAR	A385H	ALLSEG 3148 3153#
ATT_GAME_SIM.	L NEAR	A31DH	ALLSEG 2962 3061# 3088
ATT_BO_TO_GAME.	L NEAR	A53AH	ALLSEG 3006 3068 3141 3249 3481# 3540
ATT_BS_INIT	L NEAR	A6D4H	ALLSEG 3063 3919# 3969
ATT_BS_INPUT.	L NEAR	A713H	ALLSEG 3072 3997# 4039
ATT_BS_LP	--PURGED--		3065# 3085 4985P
ATT_BS_TIME	--PURGED--		1819# 4938P
ATT_BS1	--PURGED--		3066 3072# 4986P
ATT_G760.	L NEAR	A546H	ALLSEG 3487 3491#
ATT_G76A.	L NEAR	A55EH	ALLSEG 3496 3499#
ATT_G76B.	L NEAR	A566H	ALLSEG 3494 3505#
ATT_G761.	--PURGED--		3506 3509# 4997P
ATT_G762.	--PURGED--		3510 3519# 4998P
ATT_G763.	--PURGED--		3520 3525# 4999P
ATT_G764.	--PURGED--		3516 3528# 5000P
ATT_G765.	--PURGED--		3498 3500 3537# 5001P
ATT_HI_SCR.	L NEAR	A2D5H	ALLSEG 2952 2955 2994# 3026
ATT_HS_END.	L NEAR	A31CH	ALLSEG 3012 3025#
ATT_HS_LP	--PURGED--		3004# 3018 3020 3022 4983P
ATT_HS_TIME	--PURGED--		1818# 3000 3014 4937P
ATT_HS1	--PURGED--		3005 3008# 4984P
ATT_HS2	L NEAR	A310H	ALLSEG 3015 3019#
ATT_I_ELP	--PURGED--		3154 3159# 4989P
ATT_I_LP.	--PURGED--		3137# 3168 3170 3172 4987P
ATT_I_TIME.	--PURGED--		1820# 3135 3164 4939P
ATT_II.	--PURGED--		3140 3145# 4988P

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
ATT_I2.....	L NEAR	A3AEH	ALLSEG 3165 3169*
ATT_INST.....	L NEAR	A350H	ALLSEG 2957 3124* 3178
ATT_INST_END..	L NEAR	A3BAH	ALLSEG 3162 3177*
ATT_L_LP.....	--PURGED--		3247* 3288 3290 3295 4990P
ATT_L_TIME....	--PURGED--		1821* 3237 3281 4940P
ATT_L1.....	--PURGED--		3248 3251* 4991P
ATT_L2.....	L NEAR	A424H	ALLSEG 3252 3260*
ATT_L3.....	L NEAR	A46CH	ALLSEG 3282 3289*
ATT_LOGO.....	L NEAR	A3D8H	ALLSEG 2956 3229* 3302
ATT_LOGO_END..	L NEAR	A480H	ALLSEG 3277 3301*
ATT_LP_CTR....	V BYTE	0000H	EXTRN 1543* 1893 2958 2959
ATT_REGEN_INP..	L NEAR	A713H	ALLSEG 4030*
ATT_SOUND_MASK.	--PURGED--		434* 4330P
ATT_TABLE_CTR..	V BYTE	0000H	EXTRN 1544* 4163 4195 4203 4206
ATT_TABLE_LEN..	--PURGED--		1823* 4941P
ATT_TABLE_PTR..	V WORD	0000H	EXTRN 1545* 4161 4192 4210
ATT_TABLE_TOP..	V WORD	0000H	EXTRN 1546* 4198
ATTI.....	--PURGED--		2939 2940* 4982P
ATTRACT.....	L NEAR	A27EH	ALLSEG PUBLIC 1527 2932* 2965
ATTRACT_LP....	L NEAR	A28BH	ALLSEG PUBLIC 1528 2939* 2963 4032
ATTRACT_REGEN..	L NEAR	A733H	ALLSEG PUBLIC 1529 4034 4191* 4212
ATTRACT_ROUND..	V ABS	0000H	EXTRN 1541* 3938
ATTRACT_TABLE..	V BYTE	0000H	EXTRN 1542* 4162 4202 4204
B.....	--PURGED--		894* 1685 1691 1700 1700 1705 1707 1727 1751 1759 1761 1782 1782 4596P
BACK_SLOT_LIMIT.	--PURGED--		801* 4545P
BACKUP.....	--PURGED--		925* 1686 1734 2465 4623P
BAD_ROM_POS....	--PURGED--		421* 4325P
BCKUP.....	--PURGED--		2467* 4966P
BGND_REG.....	V BYTE	0000H	EXTRN 1548* 2588 3371 3609 3943
BLACK.....	--PURGED--		865* 4581P
BLANK_OUT.....	L NEAR	9F4EH	ALLSEG 2332 2335*
BLEN_BGND_REG..	--PURGED--		390* 4312P
BLEN_BULPAR....	--PURGED--		1307* 4810P
BLEN_CPPAR....	--PURGED--		1424* 4869P
BLEN_DTABLE....	--PURGED--		1467* 4890P
BLEN_ELPAR....	--PURGED--		1288* 4799P
BLEN_FGPAR....	--PURGED--		1148* 4720P
BLEN_HUMANPAR..	--PURGED--		1491* 4904P
BLEN_KPPAR....	--PURGED--		1243* 4779P
BLEN_KRYPAR....	--PURGED--		1226* 4770P
BLEN_KZERO....	--PURGED--		1227* 4771P
BLEN_MAGPAR....	--PURGED--		1188* 4743P
BLEN_MXDPAR....	--PURGED--		1448* 4879P
BLEN_MXPPAR....	--PURGED--		1437* 4875P
BLEN_DRBPAR....	--PURGED--		1162* 4725P
BLEN_RKPAR....	--PURGED--		1362* 4832P
BLEN_RPTPAR....	--PURGED--		1400* 4860P
BLEN_SEEDPAR..	--PURGED--		1346* 4823P
BLEN_STARPAR..	--PURGED--		1322* 4812P
BLNK.....	--PURGED--		959* 1741 1741 1741 1743 1743 1743 1743 1785 1785 1785 1785 1785 1785 1786 1786 1786 1786 1786 1786 1786 1786 1787 1787 1787 1787 1787 1787 1787 1787 1787 1787 1787 1788 1788 1788 1790 1790 1790 1790 1790 1790 1790 1790 1790 1790 1790 1790 1790 2471 2482 3615 4651P
BLNKS_TO_ZEROS..	L NEAR	A207H	ALLSEG 1923 2775* 2791
BLUE_INC.....	L NEAR	A7D0H	ALLSEG 4281 4284*

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
BLUE_TST	L NEAR	A7C6H	ALLSEG 4274 4277 4279#
BONUS_HUMAN_PNT	--PURGED--		544# 4393P
BOTH_PLAYER_MASK	--PURGED--		463# 2349 3004 3065 3139 3247 4345P
BOTTOM_EDGE	--PURGED--		1811# 2322 2382 2488 2495 4934P
BOX	--PURGED--		803# 2333 2574 4546P
BOX_XHOME	V BYTE	9C1AH	ALLSEG 1792# 2568
BOX_XPOS	V BYTE	0000H	EXTRN 1549# 2322 2377 2379 2382 2384 2438 2441 2488 2495 2500 2503 2570
BOX_YHOME	V BYTE	9C1BH	ALLSEG 1793# 2569
BOX_YPOS	V BYTE	0000H	EXTRN 1550# 2323 2367 2369 2372 2374 2445 2449 2489 2496 2504 2507 2571
BSLOT	--PURGED--		1301# 4807P
BSTAT	--PURGED--		1302# 4808P
BTIMER	--PURGED--		1303# 4809P
BULLET_DLIMIT	--PURGED--		616# 4440P
BULLET_LLIMIT	--PURGED--		615# 4439P
BULLET_RLIMIT	--PURGED--		614# 4438P
BULLET_SPEED	--PURGED--		590# 4424P
BULLET_ULIMIT	--PURGED--		617# 4441P
BULLET_XHOME	--PURGED--		713# 4502P
BULLET_YHOME	--PURGED--		714# 4503P
BULPAR	--PURGED--		1292 1305# 4800P
BXMPPOS	--PURGED--		1296# 4803P
BXPOS	--PURGED--		1294# 4801P
BXVEL	--PURGED--		1299# 4805P
BYMPOS	--PURGED--		1297# 4804P
BYPOS	--PURGED--		1295# 4802P
BYVEL	--PURGED--		1300# 4806P
BZ_NXT	--PURGED--		2778# 2789 4976P
C	--PURGED--		895# 1666 1671 1671 1685 1701 1705 1714 1716 1722 1722 1727 1735 1738 1742 1746 1750 1752 1763 1778 4597P
CANIM_PERD1	--PURGED--		694# 4492P
CANIM_PERD2	--PURGED--		698# 4495P
CB_XNRANGE	--PURGED--		680# 4485P
CB_XNRANGE1	--PURGED--		685# 4489P
CB_XPRANGE	--PURGED--		679# 4484P
CB_XPRANGE1	--PURGED--		684# 4488P
CB_YNRANGE	--PURGED--		682# 4487P
CB_YNRANGE1	--PURGED--		687# 4491P
CB_YPRANGE	--PURGED--		681# 4486P
CB_YPRANGE1	--PURGED--		686# 4490P
CDWN	--PURGED--		964# 1677 1677 1677 1678 1678 1678 1678 1678 1679 1680 1680 1680 1681 1681 1681 1681 1681 1682 4656P
CF1	L NEAR	9D90H	ALLSEG 2100 2102#
CF3	L NEAR	9DA1H	ALLSEG 2109#
CF4	L NEAR	9DACH	ALLSEG 2111 2113#
CFRAME	--PURGED--		1420# 4868P
CHAR_SHIP	--PURGED--		932# 4630P
CHECK_FLASHING	L NEAR	9D86H	ALLSEG 2008 2098# 2165
CHECK_SUM	L NEAR	A257H	ALLSEG 1914 1973 2712 2747 2860# 2890 3578
CHECKER	--PURGED--		1463# 4889P
CHK_FLSH_END	L NEAR	9E3DH	ALLSEG 2101 2112 2121 2126 2128 2130 2133 2142 2146 2164#
CHK_NOT_OK	--PURGED--		1920# 4942P
CHK_OK	--PURGED--		1916 1923# 4943P
CHKSUM	V WORD	0000H	EXTRN 1557# 1913 1915 2024 2067 2711 2713 2882 3577 3579
CHKSUMA	V WORD	0000H	EXTRN 1559# 2031 2068
CHKSUMB	V WORD	0000H	EXTRN 1559# 2038 2069

NAME TYPE VALUE ATTRIBUTES, XREFS

CLFT.	---	--PURGED--	963# 4655P
CLR_ACTIVE_VAR.	L NEAR	0000H	EXTRN 1555# 3936
CLR_BGND_PART	L NEAR	0000H	EXTRN 1560# 1899 2999 3129 3236
CLR_FGND_BUF	L NEAR	A529H	ALLSEG 1898 2998 3128 3438# 3445
CLR_LP.	---	--PURGED--	3441# 3443 4996P
CLR_VPN	---	--PURGED--	779# 4535P
CMASSIST.	---	--PURGED--	1418# 4866P
CMASSMIN.	---	--PURGED--	1419# 4867P
CMMN_HS_TABLE	V BYTE	9890H	ALLSEG 1677# 3603
CMP_LP.	---	--PURGED--	1934# 1944 4944P
COCKTAIL_MASK	---	--PURGED--	427# 4328P
COIN_MASK	---	--PURGED--	467# 4346P
COIN_MID_MASK	---	--PURGED--	437# 4332P
COIN_VALUE_MASK	---	--PURGED--	436# 3392 3393 3492 3493 4331P
COLD_START.	L NEAR	0000H	EXTRN 1561# 3488
COLOR_CHANGER	L NEAR	0000H	EXTRN 1552# 3081 3137
COLOR_REG_BUF	V WORD	0000H	EXTRN 1562# 4224 4239
COLOR_SET_PTR	V WORD	0000H	EXTRN 1553# 3133
COLOR_SETO.	V WORD	0000H	EXTRN 1554# 3133 3166
COM_SPIN_PERD	---	--PURGED--	513# 4368P
COMET_ACTION.	L NEAR	0000H	EXTRN 1563# 3077
COMET_BONUSPERD	---	--PURGED--	516# 4371P
COMET_CLUE_PERD	---	--PURGED--	517# 4372P
COMET_DLIMIT.	---	--PURGED--	631# 4452P
COMET_LLIMIT.	---	--PURGED--	630# 4451P
COMET_POINT_PERD.	---	--PURGED--	515# 4370P
COMET_RANGE	---	--PURGED--	651# 4467P
COMET_RLIMIT.	---	--PURGED--	629# 4450P
COMET_ULIMIT.	---	--PURGED--	632# 4453P
COMET_XHOME	---	--PURGED--	725# 4510P
COMET_YHOME	---	--PURGED--	726# 4511P
COMETEXP_PERD	---	--PURGED--	514# 4369P
COMMON_MSG.	---	--PURGED--	2582 2594# 4972P
CPPAR	---	--PURGED--	1416 1422# 4865P
CPRT.	---	--PURGED--	928# 1750 4626P
CREDITS_MSG	V BYTE	9BC6H	ALLSEG 1778# 3386
CREG1	V WORD	0000H	EXTRN 1564# 3257
CREG2	V WORD	0000H	EXTRN 1565# 3256
CREG4	V WORD	0000H	EXTRN 1566#
CREGA	V WORD	0000H	EXTRN 1567# 3255
CREGB	V WORD	0000H	EXTRN 1568# 3254
CRGT.	---	--PURGED--	965# 1505 1506 1507 1512 1666 1671 1671 1672 1689 1690 1691 1692 1693 1694 1695 1696 1697 1706 1711 1712 1712 1712 1713 1714 1714 1714 1715 1715 1715 1716 1716 1719 1719 1720 1721 1721 1722 1722 1723 1723 1727 1727 1727 1727 1728 1728 1729 1729 1729 1729 1730 1730 1731 1731 1731 1731 1732 1732 1733 1733 1733 1733 1734 1734 1735 1736 1736 1737 1737 1738 1738 1746 1750 1750 1750 1752 1752 1753 1753 1757 1758 1758 1758 1759 1759 1760 1760 1761 1761 1762 1762 1762 1762 1763 1764 1764 1765 1766 1766 1766 1766 1766 1767 1768 1768 1768 1768 1768 1768 1769 1770 1770 1781 1781 1782 1782 2234 2235 2236 2313 2314 2315 2462 2721 2722 2723 2724 2779 2823 4657P
CS_LP	---	--PURGED--	2872# 2875 4981P
CTIME_DISP_POS	---	--PURGED--	419# 4324P
CTPAR	---	--PURGED--	1405 1412# 4861P
CTRL_BYTE	V BYTE	0000H	EXTRN 1556# 2935 3924
CUPP	---	--PURGED--	962# 4654P

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
CUTOFF_PERD	--PURGED--	492#	4355P
D	--PURGED--	896#	1685 1691 1695 1695 1706 1713 1727 1751 1754 1765 1767 1769 1778 4598P
DC_END	--PURGED--	3402	3406 3410# 4995P
DIAL_THRES.	--PURGED--	582#	4418P
DIAL_VALUE.	V BYTE	0000H	EXTRN 1570#
DIFF_FTR_A.	--PURGED--	485#	4351P
DIFF_FTR_B.	--PURGED--	486#	4352P
DIFF_MASK	--PURGED--	443#	4335P
DIFF_MID_MASK	--PURGED--	444#	4336P
DISP_LOGO	L NEAR	A481H	ALLSEG 3265 3309# 3331
DISP_LOGO_LP.	L NEAR	A490H	ALLSEG 3316# 3329
DISPLAY_CREDITS	L NEAR	A4B9H	ALLSEG PUBLIC 1531 3009 3082 3159 3274 3359# 3418
DKBLUE.	--PURGED--	874#	4590P
DKGREEN.	--PURGED--	871#	4587P
DKPURPLE.	--PURGED--	877#	4593P
DOMINANT_MASK	--PURGED--	426#	4327P
DONE.	--PURGED--	2392	2394 2397# 4962P
DONT_ALLIGN	L NEAR	A077H	ALLSEG 2492 2497 2511#
DT_KMASS_PERD	--PURGED--	495#	4357P
DT_KSPEED_PERD.	--PURGED--	494#	4356P
DUM	--PURGED--	1144#	4719P
E	--PURGED--	897#	1666 1672 1685 1699 1699 1706 1711 1712 1713 1713 1714 1715 1716 1720 1721 1721 1721 1722 1723 1728 1735 1736 1737 1738 1738 1747 1751 1754 1754 1754 1757 1758 1759 1759 1778 1781 1782 4599P
EACTJMP	--PURGED--	1275#	4791P
EASY_COLOR.	NUMBER	0092H	476#
EB_XNRANGE.	--PURGED--	665#	4473P
EB_XPRANGE.	--PURGED--	664#	4472P
EB_YNRANGE.	--PURGED--	667#	4475P
ER_YPRANGE.	--PURGED--	666#	4474P
EFB_XNRANGE	--PURGED--	670#	4477P
EFB_XNRANGE1.	--PURGED--	675#	4481P
EFB_XPRANGE	--PURGED--	669#	4476P
EFB_XPRANGE1.	--PURGED--	674#	4480P
EFB_YNRANGE	--PURGED--	672#	4479P
EFB_YNRANGE1.	--PURGED--	677#	4483P
EFB_YPRANGE	--PURGED--	671#	4478P
EFB_YPRANGE1.	--PURGED--	676#	4482P
EHPN.	--PURGED--	1271#	4787P
EJECT_MATCH	--PURGED--	595#	4427P
ELAST	--PURGED--	1265#	4782P
ELECT_RANGE	--PURGED--	650#	4466P
ELECT_XHOME	--PURGED--	716#	4504P
ELECT_YHOME	--PURGED--	717#	4505P
ELPAR	--PURGED--	1262	1286# 4780P
EMASS	--PURGED--	1284#	4798P
END_OF_LOOP	L NEAR	A1FEH	ALLSEG 2747#
ENEXT	--PURGED--	1264#	4781P
ENTER_INITIAL	L NEAR	9FCEH	ALLSEG 2351 2432# 2528
ENTRY_LENGTH.	--PURGED--	1803#	2743 4929P
EORBPTR	--PURGED--	1274#	4790P
EOSN.	--PURGED--	1272#	4788P
EDST.	--PURGED--	960#	1668 1674 1682 1716 1723 1738 1743 1747 1754 1770 1773 1775 1778 1782 1788 2261 2316 3592 3599 4652P
ESIZE	--PURGED--	1267#	4784P

NAME TYPE VALUE ATTRIBUTES, XREFS

ESL0	--PURGED--	789# 4539P
ESL1	--PURGED--	790# 4540P
ESL2	--PURGED--	791# 4541P
ESL3	--PURGED--	793# 4542P
ESL4	--PURGED--	794# 4543P
ESL5	--PURGED--	795# 4544P
ESL6	NUMBER 0024H	796#
ESL7	NUMBER 0028H	797#
ESL8	NUMBER 002CH	798#
ESLOT	--PURGED--	1266# 4783P
EST_BACK	--PURGED--	742# 4518P
EST_EXP	--PURGED--	743# 4519P
EST_INACT	--PURGED--	744# 4520P
EST_QRB	--PURGED--	740# 4516P
EST_ORBOUT	--PURGED--	741# 4517P
ESTAT	--PURGED--	1268# 4785P
ETIME_1ST	--PURGED--	511# 4367P
ETIMER	--PURGED--	1273# 4789P
EVPN	--PURGED--	1270# 4786P
EXMPOS	--PURGED--	1282# 4796P
EXP_SPEED	--PURGED--	567# 4406P
EXPOS	--PURGED--	1277# 4792P
EXTRA_SHIP_MASK . . .	--PURGED--	441# 3153 4334P
EXTRA_WAIT	--PURGED--	2521# 2524 4970P
EXVEL	--PURGED--	1279# 4794P
EYPOS	--PURGED--	1283# 4797P
EYPOS	--PURGED--	1278# 4793P
EYVEL	--PURGED--	1280# 4795P
F	--PURGED--	898# 1672 1672 1685 1689 1711 1711 1712 1715 1721 1723 1723 1728 4600P
F1	L NEAR A644H	ALLSEG 3638 3640#
FADE	L NEAR A791H	ALLSEG 4227 4242 4254# 4289
FADE_ALL	L NEAR A77AH	ALLSEG 3017 3167 3285 4236# 4251
FADE_BLK	L NEAR A766H	ALLSEG 3021 3171 3292 4222# 4233
FADE_DT	L NEAR A7D2H	ALLSEG 4280 4283 4285#
FD_ALL_LP	L NEAR A783H	ALLSEG 4241# 4247
FD_BLK_LP	L NEAR A76EH	ALLSEG 4226# 4230
FELECEXP_PERD . . .	--PURGED--	510# 4366P
FGND_REG_BUF . . .	V BYTE 0000H	EXTRN 1572# 2329 2567 3310 3439 3674
FGPAR	--PURGED--	1139 1146# 4715P
FILLH	--PURGED--	574# 4412P
FILLL	--PURGED--	575# 4413P
FIRST_DATUM_FL . . .	V BYTE 0000H	EXTRN 1573#
FIRST_ENTRY	--PURGED--	1802# 1963 2203 4928P
FLASH_FL	V BYTE 0000H	EXTRN 1574# 1896 2266 2693 2961 3622
FLASH_LEN	NUMBER 0008H	1825# 2258
FLASH_MSG	--PURGED--	3390 3394 3397# 4993P
FLASH_OFF	V BYTE 9C0FH	ALLSEG 1790# 2257
FLASH_ON	V BYTE 0000H	EXTRN 1575# 1894 2102 3632
FLASH_ON_PTR	V WORD 0000H	EXTRN 1576# 1895 2103 2105 2251 2267 3633 3635 3640
FLYEL_DLIMIT	--PURGED--	626# 4448P
FLYEL_LLIMIT	--PURGED--	625# 4447P
FLYEL_RLIMIT	--PURGED--	624# 4446P
FLYEL_ULIMIT	--PURGED--	627# 4449P
FLYEL_XHOME	--PURGED--	719# 4506P
FLYEL_YHOME	--PURGED--	720# 4507P

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
FRAME_TIME.	--PURGED--	403#	4314P
FRAME_TIMEH	--PURGED--	405#	4316P
FRAME_TIMEL	--PURGED--	404#	4315P
G	--PURGED--	899#	1671 1685 1719 1722 1728 1737 1737 1742 1746 1750 1751 1753 1763 1782 4601P
GAME_CREDIT	V BYTE	0000H	EXTRN 1578# 3372 3381 3389 3485 3505 3519 3528 3531
GAME_CREDITX	V BYTE	0000H	EXTRN 1579# 3486 3532
GAME_PLAY	L NEAR	0000H	EXTRN 1580# 3537
GAME_SIM	L NEAR	A2CFH	ALLSEG 2960 2962#
GET_OUT	L NEAR	A052H	ALLSEG 2461 2476 2494#
GET_SUM	L NEAR	9D78H	ALLSEG 2023 2030 2037 2066 2078# 2093
GET_SUM_LP	L NEAR	9D7FH	ALLSEG 2087# 2089
GOVER_MSG_PERD	--PURGED--	519#	4373P
GREEN_INC	L NEAR	A7C3H	ALLSEG 4275 4278#
GREEN_TST	L NEAR	A7B8H	ALLSEG 4268 4271 4273#
H	--PURGED--	900#	1671 1685 1712 1715 1720 1722 1723 1729 1737 1750 1753 1758 1758 1759 1769 4602P
HACTJMP	--PURGED--	1480#	4898P
HARD_COLOR	NUMBER	028DH	477#
HBAR	--PURGED--	930#	1667 1667 1667 1667 1667 1667 1667 1668 1668 1668 1668 1668 1668 1672 1672 1672 1672 1673 1673 1673 1673 1673 1673 1673 1673 1673 1673 1674 1674 1674 1674 1674 1674 1674 1674 1726 1726 1726 4628P
HBXRANGE	--PURGED--	647#	4464P
HYRANGE	--PURGED--	648#	4465P
HEXP_PERD	--PURGED--	531#	4384P
HI_DISP_LP	L NEAR	A602H	ALLSEG 3612# 3618
HI_SCORE_CHANGE	L NEAR	9E3EH	ALLSEG 1970 2198# 2269
HI_SCORE_ENTRY	--PURGED--	1500 1517#	1584 1585 1586 1653 4905P
HI_SCORE_OUTPUT	L NEAR	A5A8H	ALLSEG PUBLIC 1534 3001 3008 3569# 3645
HI_SCORE_RESET	L NEAR	A149H	ALLSEG PUBLIC 1535 1921 2046 2692# 2750 3585
HI_TODAY	L NEAR	A5F7H	ALLSEG 3608#
HIGH_SCORE	L NEAR	9C1CH	ALLSEG PUBLIC 1533 1885# 2012
HIGHH	--PURGED--	1457#	4883P
HIGHL	--PURGED--	1456#	4882P
HMODE	--PURGED--	1484#	4901P
HMODE0_PERD	--PURGED--	538#	4388P
HMODE1_PERD	--PURGED--	539#	4389P
HMODE3_PERD	--PURGED--	540#	4390P
HMODE4_PERD	--PURGED--	541#	4391P
HMODE7_PERD	--PURGED--	542#	4392P
HOSN	--PURGED--	1485#	4902P
HPERD	--PURGED--	1486#	4903P
HPN	--PURGED--	1142#	4717P
HPOINT_PERD	--PURGED--	528#	4381P
HPTR	--PURGED--	1481#	4899P
HS_1P_MSG	V BYTE	9A9BH	ALLSEG 1741# 2580
HS_2P_MSG	V BYTE	9AB6H	ALLSEG 1746# 2589
HS_COMMON_MSG	V BYTE	9A25H	ALLSEG 1726# 2601
HS_FL	V BYTE	0000H	EXTRN 1582# 1891 1989 1994 2629
HS_INIT_PRINT	L NEAR	A0A3H	ALLSEG 2326 2513 2522 2553# 2616
HS_MSG	V BYTE	99BDH	ALLSEG 1711# 2596
HS_PLYR_NUM	V BYTE	0000H	EXTRN 1583#
HS_TABLE	V BYTE	9840H	ALLSEG 1666# 3590
HSE	V 14	0000H	EXTRN 1584# 1935 2119 2140 2153 2161 2211 2212 2216 2217 2226 2234 2235 2236 2243 2245 2247 2253 2478 2720 2721 2722 2723 2724 2726 2728 2730 2732 2734 2736 2738 2740 2742 2779 2781 2821 2823 2867 3592 3593 3608

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
HSE_LENGTH.	--PURGED--		1814# 2052 2057 2062 2084 2089 4935P
HSE_UNIT LENG	--PURGED--		1799# 1951 1954 1966 2110 2118 2127 2129 2129 2132 2139 2145 2145 2152 2155 2160 2162 2211 2216 2221 2267 2744 2785 2787 2827 2829 3592 3599 3608 3640 4925P
HSEA.	V 14	0000H	EXTRN 1585# 2029 2056
HSEB.	V 14	0000H	EXTRN 1586# 2036 2061
HSD_NOT_OK.	--PURGED--		3584# 5002P
HSD_OK.	--PURGED--		3580 3587# 5003P
HSR_OK.	--PURGED--		2716# 4973P
HTIMER.	--PURGED--		1483# 4900P
HUMAN_ACTION.	L NEAR	0000H	EXTRN 1587# 3080
HUMAN_CONTPERD.	--PURGED--		530# 4383P
HUMAN_DLIMIT.	--PURGED--		641# 4460P
HUMAN_DLIMITH.	--PURGED--		636# 4456P
HUMAN_INITPERD.	--PURGED--		532# 4385P
HUMAN_INTERVAL.	--PURGED--		533# 4386P
HUMAN_LLIMIT.	--PURGED--		640# 4459P
HUMAN_LLIMITH.	--PURGED--		635# 4455P
HUMAN_RECVPERD.	--PURGED--		529# 4382P
HUMAN_RLIMIT.	--PURGED--		639# 4458P
HUMAN_RLIMITH.	--PURGED--		634# 4454P
HUMAN_START_ROUND.	--PURGED--		489# 4353P
HUMAN_ULIMIT.	--PURGED--		642# 4461P
HUMAN_ULIMITH.	--PURGED--		637# 4457P
HUMAN_XHOME.	--PURGED--		728# 4512P
HUMAN_YHOME.	--PURGED--		729# 4513P
HUMANPAR.	--PURGED--		1471 1489# 4891P
HUMANSPEED_MASK.	--PURGED--		527# 4380P
HXACC.	--PURGED--		1478# 4896P
HXPOS.	--PURGED--		1473# 4892P
HXVEL.	--PURGED--		1475# 4894P
HYACC.	--PURGED--		1479# 4897P
HYPOS.	--PURGED--		1474# 4893P
HYVEL.	--PURGED--		1476# 4895P
I.	--PURGED--		901# 1671 1685 1715 1721 1721 1722 1729 1735 1737 1737 1742 1746 1750 1751 1753 1757 1758 1759 1761 1761 1763 1778 1782 4603P
IAVEL.	--PURGED--		1408# 4863P
IB_XRANGE1.	NUMBER	0380H	653#
IB_XRANGE2.	NUMBER	0100H	655#
IB_YRANGE1.	NUMBER	0480H	654#
IB_YRANGE2.	NUMBER	0180H	656#
IBVEL.	--PURGED--		1409# 4864P
ICPOS.	--PURGED--		1407# 4862P
ID0.	--PURGED--		1997 1999# 4950P
INF_XLIMIT0.	--PURGED--		600# 4428P
INF_XLIMIT1.	--PURGED--		603# 4430P
INF_XLIMIT2.	--PURGED--		606# 4432P
INF_YLIMIT0.	--PURGED--		601# 4429P
INF_YLIMIT1.	--PURGED--		604# 4431P
INF_YLIMIT2.	--PURGED--		607# 4433P
INI_COLOR_REG_BUF.	V WORD	0000H	EXTRN 1589# 3016
INI_TIME_POS.	--PURGED--		422# 4326P
INIT_COUNT.	V BYTE	0000H	EXTRN 1590# 2312 2331 2337 2455 2460 2467 2469 2475 2479 2484 2486
INIT_FRAME.	L NEAR	0000H	EXTRN 1591# 3073
INIT_INPUT_LP.	--PURGED--		2326# 2395 4954P
INITIAL.	--PURGED--		1513# 2216 2217 2234 2235 2236 2243 2245 2247 2478 2738 2740 2742 4917P

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
INITIAL_TABLE . . .	V BYTE	98BDH	ALLSEG 1685# 2454
INITIALS_INPUT . . .	L NEAR	9EEFH	ALLSEG 2238 2305# 2398
INITIALX1	--PURGED--	1514#	4918P
INITIALX2	--PURGED--	1515#	4919P
INSERT_INITS	--PURGED--	2463	2466 2475# 4967P
IXXXX	V WORD	0006H	S FIELD 1410#
J	--PURGED--	902#	1685 1697 1701 1729 1735 4604P
JOYSTICK	V BYTE	0000H	EXTRN 1593# 2348 2516 3004 3065 3139 3247 3495 3509
JS_VALUE	V BYTE	0000H	EXTRN 1594#
JSALL_MASK	--PURGED--	453#	4337P
JSON_MASK	--PURGED--	457#	2363 4341P
JSLT_MASK	--PURGED--	455#	2359 4339P
JSRT_MASK	--PURGED--	454#	2357 4338P
JSUP_MASK	--PURGED--	456#	2361 4340P
K	--PURGED--	903#	1685 1704 1705 1708 1713 1719 1729 1735 1763 1769 4605P
KACTJMP	--PURGED--	1219#	4766P
KECTR	--PURGED--	1220#	4767P
KEEP_FIVE_FL	V BYTE	0000H	EXTRN 1600# 2044 2716
KEEP_MPOS_FL	V BYTE	0000H	EXTRN 1601# 3931
KEMAX	--PURGED--	1198#	4749P
KEPTR	--PURGED--	1200#	4750P
KEXP_COLOR	--PURGED--	695#	4493P
KEXP_DIFF	--PURGED--	696#	4494P
KFECTR	--PURGED--	1217#	4765P
KIBRANG	V BYTE	0004H	S FIELD 1253#
KILLER_PERD	--PURGED--	491#	4354P
KINTVL	--PURGED--	1210#	4759P
KINUM	V BYTE	0003H	S FIELD 1252#
KIOSN	V BYTE	0002H	S FIELD 1251#
KIPAR	STRUC		SIZE=0007H #FIELDS=7 1247 1257#
KIPPTR	--PURGED--	1201#	4751P
KISTEP	--PURGED--	1209#	4758P
KIXHOME	V BYTE	0000H	S FIELD 1249#
KIXLIMIT	V BYTE	0005H	S FIELD 1254#
KIXPTR	--PURGED--	1202#	4752P
KIYHOME	V BYTE	0001H	S FIELD 1250#
KIYLIMIT	V BYTE	0006H	S FIELD 1255#
KL_DATA	V BYTE	0000H	EXTRN 1599# 3826
KLAST	--PURGED--	1195#	4746P
KM_DATA	V BYTE	0000H	EXTRN 1598# 3785
KMASS	--PURGED--	1221#	4768P
KMRANG	--PURGED--	1203#	4753P
KNEXT	--PURGED--	1194#	4745P
KORBIT	--PURGED--	1204#	4754P
KOSHIFTX	--PURGED--	756#	4529P
KOSHIFTY	--PURGED--	757#	4530P
KOSHIFTZ	--PURGED--	758#	4531P
KPACKFL	--PURGED--	1215#	4763P
KPBRANG	--PURGED--	1238#	4777P
KPNUM	--PURGED--	1237#	4776P
KPOSN	--PURGED--	1236#	4775P
KPPAR	--PURGED--	1232	1241# 4772P
KPPTR	--PURGED--	1222#	4769P
KPSCORE	--PURGED--	1239#	4778P
KPYHOME	--PURGED--	1234#	4773P

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
KPYHOME	--PURGED--	1235#	4774P
KRYPAR	--PURGED--	1192	1224# 4744P
KRYPEXP_PERD.	--PURGED--	508#	4364P
KRYPT_DLIMIT.	--PURGED--	621#	4444P
KRYPT_LLIMIT.	--PURGED--	620#	4443P
KRYPT_RLIMIT.	--PURGED--	619#	4442P
KRYPT_SAFE_PERD . . .	--PURGED--	506#	4362P
KRYPT_ULIMIT.	--PURGED--	622#	4445P
KRYPTON_ACTION.	L NEAR 0000H	EXTRN	1596# 3076
KS_DATA	V BYTE 0000H	EXTRN	1597# 3746
KSAFE	--PURGED--	1212#	4760P
KSIZE	--PURGED--	1197#	4748P
KSLOT	--PURGED--	1196#	4747P
KSPEED_ABS_MAX.	--PURGED--	496#	4358P
KST_DEAD.	--PURGED--	751#	4526P
KST_EXP	--PURGED--	749#	4524P
KST_INACT	--PURGED--	750#	4525P
KST_NOEJ.	--PURGED--	746#	4521P
KST_OKEJ.	--PURGED--	747#	4522P
KST_RDYEJ	--PURGED--	748#	4523P
KSTAT	--PURGED--	1216#	4764P
KTIMER.	--PURGED--	1208#	4757P
KXPOS	--PURGED--	1206#	4755P
KXVEL	--PURGED--	1213#	4761P
KYPOS	--PURGED--	1207#	4756P
KYVEL	--PURGED--	1214#	4762P
L	--PURGED--	904#	1666 1671 1671 1671 1685 1697 1699 1714 1715 1716 1721 1722 1723 1723 1730 1738 1742 1746 1747 1751 1753 1753 1757 1765 4606P
LAST.	L NEAR 9DC1H	ALLSEG	2117 2120#
LAST1	L NEAR 9DFEH	ALLSEG	2138 2141#
LAST2	L NEAR 9E22H	ALLSEG	2151 2154#
LAST3	L NEAR 9E3AH	ALLSEG	2159 2162#
LEFT_EDGE	--PURGED--	1808#	2372 4931P
LENGTH_HSE.	--PURGED--	1815#	2702 4936P
LOC	--PURGED--	1502#	2119 2140 2153 2161 2253 2720 2726 2728 3592 3599 4906P
LOCX1	--PURGED--	1503#	4907P
LOCX2	--PURGED--	1504#	4908P
LOGO.	V BYTE 9AD0H	ALLSEG	1750# 3271
LOGO_COLORS	V WORD A3BBH	ALLSEG	3208# 3283
LOGO_START.	NUMBER 00E6H		1828# 3311
LOGO_XHOME.	NUMBER 00EOH		1830# 3239
LOGO_XPOS	V BYTE 0000H	EXTRN	1603# 3241 3313
LOGO_YHOME.	NUMBER 00D0H		1831# 3240
LOGO_YPOS	V BYTE 0000H	EXTRN	1604# 3242 3261 3269 3314
LOWH.	--PURGED--	1459#	4885P
LOWL.	--PURGED--	1458#	4884P
LTBLUE.	--PURGED--	872#	4588P
LTGRAY.	--PURGED--	878#	4594P
LTGREEN.	--PURGED--	870#	4586P
LTPURPLE.	--PURGED--	875#	4591P
LTYELLOW.	--PURGED--	869#	4585P
M	--PURGED--	905#	1672 1685 1692 1696 1698 1698 1701 1703 1719 1723 1730 1736 1761 1763 1765 1767 1767 1769 4607P
MACTJMP	--PURGED--	1178#	4737P
MAD_FACTOR.	--PURGED--	592#	4425P

NAME TYPE VALUE ATTRIBUTES, XREFS

MAGNA_ACTION	L NEAR	0000H	EXTRN	1607#	3074
MAGNA_DLIMIT	--PURGED--			611#	4436P
MAGNA_DX_SPEED	--PURGED--			579#	4416P
MAGNA_DY_SPEED	--PURGED--			580#	4417P
MAGNA_LLIMIT	--PURGED--			610#	4435P
MAGNA_RLIMIT	--PURGED--			609#	4434P
MAGNA_SIZE	--PURGED--			781#	4536P
MAGNA_SX_SPEED	--PURGED--			577#	4414P
MAGNA_SY_SPEED	--PURGED--			578#	4415P
MAGNA_ULIMIT	--PURGED--			612#	4437P
MAGNA_XHOME	--PURGED--			710#	4500P
MAGNA_YHOME	--PURGED--			711#	4501P
MAGPAR	--PURGED--			1166	1186# 4726P
MAX_BULLET_LIFE	--PURGED--			584#	4419P
MAX_BULLET_LIFE2	--PURGED--			585#	4420P
MAX_CREDIT	--PURGED--			552#	4394P
MAX_FLASH	NUMBER	0005H		1826#	
MAX_NUM_FLYEL	--PURGED--			557#	4398P
MAX_NUM_HUMANS	--PURGED--			560#	4401P
MAX_NUM_KRYPT	--PURGED--			558#	4399P
MAX_NUM_SEEDS	--PURGED--			559#	4400P
MAX_NUM_SHIPS	--PURGED--			556#	4397P
MAX_TIME	NUMBER	0960H		1805#	2310
MCTR	--PURGED--			1184#	4742P
MDBLUE	--PURGED--			873#	4589P
MDPURPLE	--PURGED--			876#	4592P
MEM_VALID_FL	V BYTE	0000H	EXTRN	1606#	1920 2704 2748 3584
MEXP_COLOR	--PURGED--			699#	4496P
MEXP_DIFF	--PURGED--			700#	4497P
MEXTRA_PERD	--PURGED--			504#	4361P
MHPN	--PURGED--			1174#	4733P
MHXRANGE	--PURGED--			644#	4462P
MHYRANGE	--PURGED--			645#	4463P
MIN_BULLET_LIFE	--PURGED--			586#	4421P
MIN_KMASS	--PURGED--			593#	4426P
MLAST	--PURGED--			1169#	4728P
MNEXT	--PURGED--			1168#	4727P
MORE_BLANKS	--PURGED--			2779#	2783 4977P
MORE_ENTRYS	--PURGED--			1937	1950# 4946P
MORE_ZEROS	--PURGED--			2821#	2825 4980P
MOSN	--PURGED--			1175#	4734P
MOV_DOWN	--PURGED--			2364	2382# 4960P
MOV_LEFT	--PURGED--			2360	2372# 4958P
MOV_RIGHT	--PURGED--			2358	2367# 4957P
MOV_UP	--PURGED--			2362	2377# 4959P
MOV_VERT	--PURGED--			2361#	2370 2375 4956P
MOVE_BOX	L NEAR	A03FH	ALLSEG	2483	2486#
MOVE_UP	L NEAR	A431H	ALLSEG	3262	3265#
MRESET_XPOS	--PURGED--			707#	4498P
MRESET_YPOS	--PURGED--			708#	4499P
MSIZE	--PURGED--			1171#	4730P
MSLOT	--PURGED--			1170#	4729P
MST_EXP	--PURGED--			738#	4515P
MST_NORM	--PURGED--			737#	4514P
MSTAT	--PURGED--			1172#	4731P

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
MTIMER	--PURGED--		1176# 4735P
MTIMER2	--PURGED--		1177# 4736P
MVPN	--PURGED--		1173# 4732P
MXDPAR	--PURGED--		1441 1446# 4876P
MXOUT_POS	--PURGED--		572# 4411P
MXPOS	--PURGED--		1180# 4738P
MXPPAR	--PURGED--		1428 1435# 4870P
MXVEL	--PURGED--		1182# 4740P
MYPOS	--PURGED--		1181# 4739P
MYVEL	--PURGED--		1183# 4741P
N	--PURGED--		906# 1685 1702 1702 1707 1708 1714 1719 1719 1721 1730 1742 1742 1746 1746 1757 1759 1761 1761 1763 1763 1765 1767 1769 1782 1782 4608P
NEIL_CTR	V WORD	0000H	EXTRN 1609# 2511 2514 2520 2523 3000 3011 3014 3019 3135 3161 3164 3169 3237 3276 3281 3289 3624
NEIL_CTR2	V BYTE	0000H	EXTRN 1610# 2936 3396 3397 3398 3405 3407
NEIL_CTR3	V WORD	0000H	EXTRN 1611# 2310 2393
NEIL_X1	V BYTE	0000H	EXTRN 1612# 1902 2232 2308
NEIL_X2	V BYTE	0000H	EXTRN 1613# 3245 3251 3259 3260 3266 3287 3294
NEW_DAY_PERD	--PURGED--		501# 4360P
NEW_HS	--PURGED--		1953 1970# 4948P
NEW_INITS	V BYTE	0000H	EXTRN 1614# 2242 2244 2246 2313 2314 2315 2316 2317 2318 2319 2477 2603
NEWP	--PURGED--		961# 1502 1666 1667 1671 1672 1677 1680 1711 1713 1715 1719 1720 1722 1726 1727 1729 1731 1733 1735 1737 1741 1746 1750 1751 1753 1757 1758 1759 1761 1763 1765 1767 1769 1773 1775 1778 1781 1785 2252 2317 2720 4653P
NEXT_DIGIT	--PURGED--		1941# 4945P
NEXT_ENTRY	L NEAR	9C78H	ALLSEG 1929# 1955
NEXT_FLASH	L NEAR	A635H	ALLSEG 3635# 3642
NEXT_PLYR	L NEAR	9C39H	ALLSEG 1898# 2004
NEXT_TABLE	L NEAR	9C52H	ALLSEG 1908# 1979
NO_BLANKS	--PURGED--		2780 2785# 4978P
NO_FLASHING	L NEAR	A64FH	ALLSEG 3623 3631 3644#
NO_MOV	--PURGED--		2352 2365 2368 2373 2378 2380 2383 2386# 4961P
NO_MOVE_UP	L NEAR	A440H	ALLSEG 3263 3268 3271#
NO_SHIFT	--PURGED--		2207 2225# 4953P
NO_START_MSG	--PURGED--		3399 3403# 4994P
NO_TRIGGER	--PURGED--		2350 2357# 4955P
NO_ZEROS	L NEAR	A246H	ALLSEG 2822 2827#
NOT_LAST	L NEAR	90BAH	ALLSEG 2115 2118#
NOT_LAST1	L NEAR	9DF7H	ALLSEG 2136 2139#
NOT_LAST2	L NEAR	9E1BH	ALLSEG 2149 2152#
NOT_LAST3	L NEAR	9E33H	ALLSEG 2157 2160#
NOT_ON_ULTRA	L NEAR	9EF8H	ALLSEG 2307 2310#
NOT_SPACE	--PURGED--		2459 2465# 4965P
NOT_ULTRA11	L NEAR	A5F1H	ALLSEG 3595 3603#
NOT_ULTRA13	L NEAR	A0F3H	ALLSEG 2597 2600#
NOW_ALL_DONE	L NEAR	9D0AH	ALLSEG 2009#
NUM_BULLETS	--PURGED--		562# 4402P
NUM_DIGITS	--PURGED--		1800# 1941 4926P
NUM_ELECTRONS	--PURGED--		564# 4404P
NUM_ENTRYS	--PURGED--		1801# 1951 2787 2829 4927P
NUM_FLASH	V BYTE	0000H	EXTRN 1615# 1892 2099 2106 2123 2265 3620
NUM_FLASHING	V BYTE	0000H	EXTRN 1616# 3621 3641
NUM_L_CHAR	NUMBER	001AH	1829# 3312
NUM_MAGNAOJBS	--PURGED--		563# 4403P
NUM_MXPIECES	--PURGED--		571# 4410P

NAME TYPE VALUE ATTRIBUTES, XREFS

NUM_OSLOTS	--PURGED--	785# 4538P
NUM_PERF_SOUND	--PURGED--	525# 4379P
NUM_ROMS	--PURGED--	385# 4309P
NUM_SHIP_MASK	--PURGED--	439# 3147 4333P
NUM_SHIPS	V BYTE 0000H	EXTRN 1617# 3939
NUM_SPINS	--PURGED--	569# 4408P
NUM_STARS	--PURGED--	565# 4405P
NUMSUM	--PURGED--	1462# 4888P
NXT_SHIFT	--PURGED--	2205 2211# 2223 4952P
O	--PURGED--	907# 1666 1672 1686 1690 1692 1694 1694 1700 1711 1711 1712 1712 1714 1714 1715 1716 1719 1719 1720 1723 1731 1735 1736 1736 1738 1742 1742 1746 1746 1750 1751 1752 1757 1758 1759 1761 1761 1761 1763 1763 1765 1767 1769 1782 1782 4609P
OBULLET	--PURGED--	807# 4548P
OCOMETA	--PURGED--	814# 4552P
OCOMETB	--PURGED--	815# 4553P
OCOMEXP1	--PURGED--	817# 4554P
OCOMEXP2	--PURGED--	818# 4555P
DELECEXP_PERD	--PURGED--	509# 4365P
DELECT	--PURGED--	809# 3708 4549P
DELECTEXP	--PURGED--	812# 4551P
OFF_START_MSG	V BYTE 9BF0H	ALLSEG 1785# 3403
DFLYEL	--PURGED--	810# 3713 4550P
DHEXP	--PURGED--	837# 4568P
DHUMAN1A	--PURGED--	821# 4556P
DHUMAN1B	--PURGED--	822# 4557P
DHUMAN1C	--PURGED--	823# 4558P
DHUMAN2A	--PURGED--	825# 4559P
DHUMAN2B	--PURGED--	826# 4560P
DHUMAN2C	--PURGED--	827# 4561P
DHUMAN3A	--PURGED--	829# 4562P
DHUMAN3B	--PURGED--	830# 4563P
DHUMAN3C	--PURGED--	831# 4564P
DHUMAN4A	--PURGED--	833# 4565P
DHUMAN4B	--PURGED--	834# 4566P
DHUMAN4C	--PURGED--	835# 4567P
DMAGNA	--PURGED--	783# 4537P
ONE_COVER_PERD	--PURGED--	520# 4374P
ONES_DIGIT	--PURGED--	3374 3381# 4992P
OP10	--PURGED--	842# 4569P
OP100	--PURGED--	844# 4571P
OP1000	--PURGED--	853# 4580P
OP200	--PURGED--	845# 4572P
OP300	--PURGED--	846# 1395 4573P
OP400	--PURGED--	847# 4574P
OP50	--PURGED--	843# 4570P
OP500	--PURGED--	848# 4575P
OP600	--PURGED--	849# 4576P
OP700	--PURGED--	850# 4577P
OP800	--PURGED--	851# 4578P
OP900	--PURGED--	852# 4579P
ORANGE	--PURGED--	867# 4583P
DRBPAR	--PURGED--	1154 1160# 4721P
QSEED	--PURGED--	805# 4547P
DSN	--PURGED--	1143# 4718P
OUTER_LP	L NEAR A766H	ALLSEG 4223#

NAME	TYPE	VALUE ATTRIBUTES, XREFS
P	--PURGED--	908# 1686 1693 1694 1714 1731 1747 1750 1757 1758 1759 1760 1765 1769 1769 1781 4610P
PACKET	--PURGED--	1330# 4816P
PACKET_ACTION	L NEAR 0000H EXTRN	1620# 3078
PACPAR	--PURGED--	1326 1333# 4813P
PANEL	V BYTE 0000H EXTRN	1621#
PB_XRANGE1	--PURGED--	658# 4468P
PB_XRANGE2	--PURGED--	660# 4470P
PB_YRANGE1	--PURGED--	659# 4469P
PB_YRANGE2	--PURGED--	661# 4471P
PERD	--PURGED--	926# 1751 1752 4624P
PERF_SOUND_PERD	--PURGED--	524# 4378P
PERFECT_PERD	--PURGED--	522# 4376P
PERFECT_PERD2	--PURGED--	523# 4377P
PLAST	--PURGED--	1329# 4815P
PLAY_TIME_FL	V BYTE 0000H EXTRN	1622# 3533
PLAYER_ID	V BYTE 0000H EXTRN	1619# 1996 1998 1999 2586
PNEXT	--PURGED--	1328# 4814P
POSIT	L NEAR 9F52H ALLSEG	2334 2336#
POSIT_CURSOR	L NEAR 9F3BH ALLSEG	2329#
POSSIBLE	--PURGED--	1936 1942 1962# 4947P
PRINT	L NEAR 0000H EXTRN	1623# 2581 2590 2600 2602 2604 3146 3151 3157 3272 3387 3401 3404 3591 3594 3598 3601 3604 3639
PSIZE	--PURGED--	1331# 4817P
PTS	V BYTE 9B0EH ALLSEG	1757# 3145
PTS1	V BYTE 9BBCH ALLSEG	1773# 3150
PTS2	V BYTE 9BC1H ALLSEG	1775# 3156
Q	--PURGED--	909# 1686 1731 4611P
QST_ACTIVE	--PURGED--	753# 4527P
QST_INACTIVE	--PURGED--	754# 4528P
R	--PURGED--	910# 1666 1666 1685 1711 1711 1712 1712 1713 1713 1714 1714 1716 1716 1716 1719 1731 1737 1737 1742 1746 1747 1750 1753 1754 1754 1759 1761 1767 1769 1778 1781 1781 4612P
R1	--PURGED--	934# 1677 4631P
R10	--PURGED--	943# 1681 4640P
R11	--PURGED--	944# 1678 4641P
R12	--PURGED--	945# 1681 4642P
R13	--PURGED--	946# 1678 4643P
R14	--PURGED--	947# 1681 4644P
R15	--PURGED--	948# 1678 4645P
R16	--PURGED--	949# 1681 4646P
R17	--PURGED--	950# 1678 4647P
R18	--PURGED--	951# 1681 4648P
R19	--PURGED--	952# 1679 4649P
R2	--PURGED--	935# 1680 4632P
R20	--PURGED--	953# 1682 4650P
R3	--PURGED--	936# 1677 4633P
R4	--PURGED--	937# 1680 4634P
R5	--PURGED--	938# 1677 4635P
R6	--PURGED--	939# 1680 4636P
R7	--PURGED--	940# 1677 4637P
R8	--PURGED--	941# 1680 4638P
R9	--PURGED--	942# 1678 4639P
RACCEL_MASK	--PURGED--	1379# 4844P
RAM_TEST_CYCLES	--PURGED--	765# 4533P
RANDOM	V WORD 0000H EXTRN	1625#

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
RBGND_SOUND	--PURGED--	1392#	4855P
RCOLOR_SET_PTR	--PURGED--	1393#	4856P
RCOMET_BPTR	--PURGED--	1390#	4853P
RCOMET_GRACPERD	--PURGED--	1386#	4850P
RCOMET_PTR	--PURGED--	1388#	4852P
RCOMET_RECVPERD	--PURGED--	1387#	4851P
READY_PERD	--PURGED--	521#	4375P
RED	--PURGED--	866#	4582P
RED_INC	L NEAR	A7B6H	ALLSEG 4269 4272#
RED_TST	L NEAR	A79FH	ALLSEG 4259 4262#
REJECT_MASK	--PURGED--	1372#	4838P
REMASS_1ST	--PURGED--	1377#	4842P
RESET_ALL	--PURGED--	2705 2714 2717 2719#	4974P
RESET_LP	--PURGED--	2720#	2745 4975P
RESET_REGEN	L NEAR	A70FH	ALLSEG 3964#
RESET_SHOW	L NEAR	0000H	EXTRN 1626# 3233
RESET_TABLE	V BYTE	9809H	ALLSEG 1689# 2725 2727 2729 2731 2733 2735 2737 2739 2741
RFLYEL_LIMIT	--PURGED--	1391#	4854P
RGRACE_PERD	--PURGED--	1368#	4834P
RHUMAN_PNTOBJ	--PURGED--	1395#	4858P
RHUMAN_SCORE	--PURGED--	1397#	4859P
RIGHT_EDGE	--PURGED--	1809#	2367 4932P
RINF_SPEED_PTR	--PURGED--	1373#	4839P
RKEJECT_PERD	--PURGED--	1369#	4835P
RKEMAX	--PURGED--	1354#	4826P
RKEPTR	--PURGED--	1355#	4827P
RKMASS_1ST	--PURGED--	1375#	4840P
RKMASS_MAD	--PURGED--	1376#	4841P
RKMRRANG	--PURGED--	1358#	4830P
RKORBIT	--PURGED--	1359#	4831P
RKPAR	--PURGED--	1351 1361#	4824P
RKPPTR	--PURGED--	1356#	4828P
RKRYPT_TOGO	--PURGED--	1381#	4846P
RKSIZE	--PURGED--	1353#	4825P
RKSPEED_MAX	--PURGED--	1384#	4848P
RKSPEED_MIN	--PURGED--	1385#	4849P
RKXPTR	--PURGED--	1357#	4829P
RMAX_FLYEL	--PURGED--	1382#	4847P
RMIN_EMASS	--PURGED--	1378#	4843P
RND_POS1	--PURGED--	416#	4322P
RND_POS2	--PURGED--	417#	4323P
RNUM_HUMANS	--PURGED--	1394#	4857P
RNUM_KRYPTONS	--PURGED--	1380#	4845P
ROM_TEST_CYCLES	--PURGED--	764#	4532P
ROUND_INIT	L NEAR	0000H	EXTRN 1628# 3945
ROUND_OPT_MASK	--PURGED--	432#	4329P
ROUND_THRES	--PURGED--	473#	4350P
RPT_PTR	V WORD	0000H	EXTRN 1629# 3938
RPTPAR	--PURGED--	1366 1399#	4833P
RRECOV_PERD	--PURGED--	1371#	4837P
RSPSM_NOEJ_PERD	--PURGED--	1370#	4836P
RUN_SHOW	L NEAR	0000H	EXTRN 1627# 3273
S	--PURGED--	911# 1666 1666 1685 1689 1697 1711 1715 1716 1716 1720 1732 1735 1735 1738 1742 1746 1753 1754 1757 1758 1759 1759 1760 1778 1781 1781 1781 4613P	
SAME_INITS	L NEAR	9EA2H	ALLSEG 2233 2242#

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
SAME_PLAYER_FL	V BYTE	0000H	EXTRN 1638# 3932
SB1	L NEAR	A113H	ALLSEG 2625 2629#
SB2	L NEAR	A11CH	ALLSEG 2630 2634#
SB3	L NEAR	A122H	ALLSEG 2637# 2646
SB3A	L NEAR	A132H	ALLSEG 2644# 2656
SB4	L NEAR	A136H	ALLSEG 2641 2648#
SB5	L NEAR	A13DH	ALLSEG 2649 2653#
SB6	L NEAR	A147H	ALLSEG 2638 2643 2655 2660#
SC_BGND1	--PURGED--		1043# 4707P
SC_BGND2	--PURGED--		1044# 4708P
SC_BGND3	--PURGED--		1045# 4709P
SC_BGND4	--PURGED--		1046# 4710P
SC_BKHT	--PURGED--		1026# 4698P
SC_CEXP	--PURGED--		1014# 4689P
SC_COIN	--PURGED--		978# 4662P
SC_COMET	--PURGED--		998# 4677P
SC_EEXP	--PURGED--		1022# 4695P
SC_EJECT	--PURGED--		1030# 4701P
SC_EXSHIP	--PURGED--		982# 4665P
SC_FEXP	--PURGED--		1018# 4692P
SC_HENTER	--PURGED--		1006# 4683P
SC_HPICK	--PURGED--		1010# 4686P
SC_KEXP	--PURGED--		1002# 4680P
SC_MEXP	--PURGED--		990# 4671P
SC_MSPIN	--PURGED--		994# 4674P
SC_NOMUSIC	--PURGED--		974# 4659P
SC_ROUND	--PURGED--		986# 4668P
SC_STOP	--PURGED--		972# 4658P
SC_TRIGGER	--PURGED--		1034# 4704P
SCHAR_TIMER	V BYTE	0000H	S FIELD 1314#
SCORE	--PURGED--		1505# 1935 2211 2212 2226 2721 2722 2723 2724 2730 2732 2734 2736 2779 2781 2821 2823 3608 4909P
SCORE_ADR_A	V WORD	0000H	EXTRN 1640# 3943
SCORE_BUMPED	L NEAR	A10AH	ALLSEG 2206 2623# 2662
SCORE_POS1	--PURGED--		409# 3943 4317P
SCORE_POS2	--PURGED--		410# 4318P
SCORE_POSH	--PURGED--		411# 3609 4319P
SCORE0	V BYTE	0000H	EXTRN 1631# 2637
SCORE8	V BYTE	0000H	EXTRN 1632# 1934 2001 2225 2635
SCORE7_I	V BYTE	0000H	EXTRN 1633# 2000 2634
SCOREX1	--PURGED--		1506# 4910P
SCOREX2	--PURGED--		1507# 4911P
SCOREX3	--PURGED--		1508# 4912P
SCOREX4	--PURGED--		1509# 4913P
SCOREX5	--PURGED--		1510# 4914P
SCOREX6	--PURGED--		1511# 4915P
SCOREX7	--PURGED--		1512# 4916P
SECOND_TABLE	L NEAR	9CBOH	ALLSEG 1965 1972#
SEED_XHOME	--PURGED--		722# 4508P
SEED_YHOME	--PURGED--		723# 4509P
SEEDPAR	--PURGED--		1337 1344# 4818P
SET_TARGET	L NEAR	0000H	EXTRN 1639# 3941
SHIP_POS1	--PURGED--		413# 4320P
SHIP_POS2	--PURGED--		414# 4321P
SHIPS_EASY_GAME	--PURGED--		555# 4396P

NAME TYPE VALUE ATTRIBUTES, XREFS

SHIPS_PER_GAME	--PURGED--	554# 4395P
SHOTGUN_FACTOR	--PURGED--	588# 4422P
SHOTGUN_FACTOR2	--PURGED--	589# 4423P
SIMU_ENTRY_FL	V BYTE 0000H	EXTRN 1642#
SIMULATE_FL	V BYTE 0000H	EXTRN 1641# 3934
SKIP	L NEAR A609H	ALLSEG 3614 3616#
SKIP_INITS	L NEAR 9E87H	ALLSEG 2240 2249#
SLAM_MASK	--PURGED--	468# 4347P
SLOTN	--PURGED--	1156# 4722P
SP_BKHIT	--PURGED--	1027# 4699P
SP_CEXP	--PURGED--	1015# 4690P
SP_COIN	--PURGED--	979# 4663P
SP_COMET	--PURGED--	999# 4678P
SP_EEXP	--PURGED--	1023# 4696P
SP_EJECT	--PURGED--	1031# 4702P
SP_EXTSHIP	--PURGED--	983# 4666P
SP_FEXP	--PURGED--	1019# 4693P
SP_HENTER	--PURGED--	1007# 4684P
SP_HPICK	--PURGED--	1011# 4687P
SP_KEXP	--PURGED--	1003# 4681P
SP_MEXP	--PURGED--	991# 4672P
SP_MSPIN	--PURGED--	995# 4675P
SP_NOMUSIC	--PURGED--	975# 4660P
SP_ROUND	--PURGED--	987# 4669P
SP_TRIGGER	--PURGED--	1035# 4705P
SPACE	--PURGED--	924# 1686 1734 2458 4622P
SPASM_PERD	--PURGED--	507# 4363P
SPCE	--PURGED--	2460# 4964P
SPEC_CHAR	--PURGED--	2458# 4963P
SPIN_ANGLE	--PURGED--	570# 4409P
SPIN_FRAMES	--PURGED--	568# 4407P
SPIX_TIMER	V BYTE 0001H	S FIELD 1315#
SPIXEL_PTR	V WORD 0004H	S FIELD 1317#
SPOSITION	V WORD 0006H	S FIELD 1318#
SSWO	V BYTE 0000H	EXTRN 1634# 3147 3153 3391 3491
ST_BKHIT	--PURGED--	1028# 4700P
ST_CEXP	--PURGED--	1016# 4691P
ST_COIN	--PURGED--	980# 4664P
ST_COMET	--PURGED--	1000# 4679P
ST_EEXP	--PURGED--	1024# 4697P
ST_EJECT	--PURGED--	1032# 4703P
ST_EXTSHIP	--PURGED--	984# 4667P
ST_FEXP	--PURGED--	1020# 4694P
ST_HENTER	--PURGED--	1008# 4685P
ST_HPICK	--PURGED--	1012# 4688P
ST_KEXP	--PURGED--	1004# 4682P
ST_MEXP	--PURGED--	992# 4673P
ST_MSPIN	--PURGED--	996# 4676P
ST_NOMUSIC	--PURGED--	976# 4661P
ST_ROUND	--PURGED--	988# 4670P
ST_TRIGGER	--PURGED--	1036# 4706P
STABLE_PTR	V WORD 0002H	S FIELD 1316#
STACK_BOTTOM	V WORD 0000H	EXTRN 1637# 2940
STAR_DUST_FL	V BYTE 0000H	EXTRN 1636# 3534
STAR_RESET	L NEAR 0000H	EXTRN 1635# 3928

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
STARPAR	--PURGED--	1312 1320# 4811P	
START_MSG	V BYTE	9BD1H	ALLSEG 1781# 3400
START_ONE_MASK	--PURGED--	461# 3495 3509 4343P	
START_TWO_MASK	--PURGED--	462# 4344P	
STATCTR	--PURGED--	1455# 4881P	
STATPAR	--PURGED--	1453 1465# 4880P	
STD_COLOR	NUMBER	0F72H	475#
STORED_CHKSUM	--PURGED--	387# 4310P	
SUMH	--PURGED--	1461# 4887P	
SUML	--PURGED--	1460# 4886P	
SXPOS	--PURGED--	1339# 4819P	
SXVEL	--PURGED--	1341# 4821P	
SYPOS	--PURGED--	1340# 4820P	
SYVEL	--PURGED--	1342# 4822P	
T	--PURGED--	912# 1666 1671 1685 1690 1692 1695 1696 1711 1712 1713 1715 1715 1716 1720 1721 1722 1722 1732 1735 1736 1737 1737 1738 1738 1742 1742 1746 1746 1750 1751 1751 1753 1757 1760 1761 1763 1763 1765 1769 1778 1781 1781 1782 1782 1782 4614P	
TABLE_DATUM	V WORD	0000H	EXTRN 1650# 4205
TABLE_EMPTY	L NEAR	A75DH	ALLSEG 4199 4209#
TABLE_EMPTY_FL	V BYTE	0000H	EXTRN 1645# 4030 415B 4209
TABLE_FULL_FL	V BYTE	0000H	EXTRN 1644#
TBALLY	V BYTE	0000H	EXTRN 1646#
TEST_ON_MASK	--PURGED--	469# 4348P	
TEST_STEP_MASK	--PURGED--	470# 4349P	
TIME_UP	--PURGED--	1804# 2391 2494 4930P	
TIMEOUT_PERD	--PURGED--	500# 4359P	
TOP_EDGE	--PURGED--	1810# 2377 4933P	
TRAVEL_BULLET	L NEAR	0000H	EXTRN 1648# 3075
TRIGGER_BULLET	L NEAR	0000H	EXTRN 1649# 3079
TRIGGER_HELD	--PURGED--	2512# 2517 4969P	
TRIGGER_MASK	--PURGED--	459# 2349 2516 4342P	
TRIPLE_CHECK	L NEAR	9D0EH	ALLSEG 1887 2006 2017# 2073 2948
TRIPLE_COPY	L NEAR	9D47H	ALLSEG 2025 2032 2039 2051#
TRIPLE_COPY2	L NEAR	9D4FH	ALLSEG 2047 2055#
TRY_3	L NEAR	9DC7H	ALLSEG 2107 2123#
TRY_4	L NEAR	9E04H	ALLSEG 2124 2144#
TWO_PLAYER_FL	V BYTE	0000H	EXTRN 1647# 1987 2578 2624 3497 3499 3514 3525 3930
TWO_PLYR	--PURGED--	1975 1987# 4949P	
TWO_PLYRS	--PURGED--	2579 2586# 4971P	
U	--PURGED--	913# 1666 1685 1698 1703 1711 1714 1716 1719 1732 1735 1742 1746 1757 1758 1759 1765 1782 4615P	
ULTRA	V WORD	0000H	EXTRN 1652# 1903 1925 1950 1962 1976 2043 2201 2202 2262 2696 2698 2700 2701 2777 2786 2819 2828 2868 2951 2954 3636
ULTRA_HS_MSG	V BYTE	99E2H	ALLSEG 1719# 2598
ULTRA_HS_TABLE	V BYTE	9B5FH	ALLSEG 1671# 3597
ULTRA_HSE	V 14	0000H	EXTRN 1653# 2022 2051 2055 2060 2065 3599 3600
ULTRA_HSE_FL	V BYTE	0000H	EXTRN 1654# 1904 1908 1974 1977 1978 2045 2306 2594 2706 2877 2950 2953 3572 3587
ULTRA_OK	L NEAR	A167H	ALLSEG 2697 2699 2701#
ULTRA_START	NUMBER	0126H	1813# 1903 2043 2127 2148 2698 2700 2954
ULTRA11	L NEAR	A5E0H	ALLSEG 3588 3597#
ULTRA13	L NEAR	A0F0H	ALLSEG 2595 2598#
V	--PURGED--	914# 1686 1733 1736 1754 1757 1758 1759 4616P	
V1	--PURGED--	377# 4307P	
V2	--PURGED--	378# 4308P	
VBAR	--PURGED--	931# 4629P	

NAME	TYPE	VALUE	ATTRIBUTES, XREFS
VHARD_COLOR . . .	NUMBER	0F31H	478#
VPN	--PURGED--		1141# 4716P
W	--PURGED--		915# 1686 1691 1712 1713 1721 1733 4617P
WAIT_FOR_NMI. . .	L NEAR	0000H	EXTRN 1656# 1900 2324 2386 2512 2521 3002 3010 3083 3160 3275
WAIT_MORE	L NEAR	A090H	ALLSEG 2515 2520#
WARM_START. . . .	L NEAR	0000H	EXTRN 1657# 2009
WLEN_COLOR_REG. . .	--PURGED--		391# 4313P
WLEN_FGND_REG . . .	--PURGED--		389# 4311P
X	--PURGED--		916# 1686 1689 1690 1733 4618P
XCLM.	--PURGED--		929# 4627P
XDISP	--PURGED--		1157# 4723P
XXHOME.	--PURGED--		1432# 4873P
XXPOS	--PURGED--		1443# 4877P
XXVEL	--PURGED--		1430# 4871P
XYHOME.	--PURGED--		1433# 4874P
XYPOS	--PURGED--		1444# 4878P
XYVEL	--PURGED--		1431# 4872P
Y	--PURGED--		917# 1686 1703 1704 1711 1712 1714 1719 1733 1735 1747 1750 1758 1759 1769 4619P
YDISP	--PURGED--		1158# 4724P
YELLOW.	--PURGED--		868# 4584P
Z	--PURGED--		918# 1686 1693 1734 1767 4620P
ZB_NXT.	--PURGED--		2820# 2831 4979P
ZEROS_TO_BLNKS. . .	L NEAR	A22EH	ALLSEG 1972 2249 2816# 2834

ASSEMBLY COMPLETE, NO ERRORS FOUND

```
1  
2 PAGE 60,132  
3 TITLE MDS INSTALLATION 2.00  
4  
5 NAME MSDINST_200  
6  
7 ; Copyright (C) 1984 Mylstar Electronics, Inc. All rights reserved.  
8  
9  
10 0000 ALLSEG SEGMENT PUBLIC 'CODE'  
11  
12 ASSUME CS:ALLSEG, DS:ALLSEG, ES:ALLSEG, SS:ALLSEG  
13  
14  
15 C INCLUDE MSDINST2.PUB  
16 C  
17 C  
18 C ; PUBLIC SYMBOL DECLARATIONS  
19 C  
20 C  
21 C PUBLIC ASK_DRIVE  
22 C PUBLIC ASK_DRIVE1  
23 C PUBLIC ASK_DRIVE2  
24 C PUBLIC ASK_DRIVE3  
25 C PUBLIC ASK_DRIVE4  
26 C PUBLIC ASK_DRIVE_ERR  
27 C PUBLIC BAD_DEBUG  
28 C PUBLIC CHECKSUM_ADJ  
29 C PUBLIC DO_CHECKSUM  
30 C PUBLIC DO_CHECKSUM_LP  
31 C PUBLIC END_CHECKSUM  
32 C PUBLIC ERROR_EXIT  
33 C PUBLIC EXIT_INSTALL  
34 C PUBLIC EXP_MAX  
35 C PUBLIC EXP_SEG  
36 C PUBLIC FILE_ERR_MSG ;PROC  
37 C PUBLIC GET_HEX ;PROC  
38 C PUBLIC GET_HEX_END  
39 C PUBLIC GET_HEX_END2  
40 C PUBLIC GET_HEX_ERR  
41 C PUBLIC GET_HEX_LP  
42 C PUBLIC GET_HEX_OK  
43 C PUBLIC GET_INPUT ;PROC  
44 C PUBLIC GET_INPUT1  
45 C PUBLIC GET_INPUT_LP  
46 C PUBLIC GET_INPUT_XT  
47 C PUBLIC INBUF  
48 C PUBLIC MACDEF_END  
49 C PUBLIC MACNAM_MAX  
50 C PUBLIC MAC_MAX  
51 C PUBLIC MAC_SEG  
52 C PUBLIC MAIN_BODY ;PROC  
53 C PUBLIC MSD_LENGTH  
54 C PUBLIC MSG_AUTO  
55 C PUBLIC MSG_AUTO2
```

```
56      C      PUBLIC MSG_BADDEBUG
57      C      PUBLIC MSG_BADSELF
58      C      PUBLIC MSG_BADVER
59      C      PUBLIC MSG_BYE
60      C      PUBLIC MSG_DEBUG
61      C      PUBLIC MSG_DRIVE
62      C      PUBLIC MSG_DRIVE_ERR
63      C      PUBLIC MSG_FILE_ERR
64      C      PUBLIC MSG_HEX_ERR
65      C      PUBLIC MSG_MAC
66      C      PUBLIC MSG_MSD
67      C      PUBLIC MSG_NOCLOSE
68      C      PUBLIC MSG_NODEBUG
69      C      PUBLIC MSG_NODIR
70      C      PUBLIC MSG_NORDOM
71      C      PUBLIC MSG_SAVE
72      C      PUBLIC MSG_SIGNON
73      C      PUBLIC MSG_SYM
74      C      PUBLIC MSG_SYM2
75      C      PUBLIC MSG_WORK
76      C      PUBLIC OPTION_AUTO
77      C      PUBLIC OPTION_AUTO_LP
78      C      PUBLIC OPTION_WORK
79      C      PUBLIC OPT_AUTO2
80      C      PUBLIC OPT_MAC2
81      C      PUBLIC OPT_MAC3
82      C      PUBLIC OPT_MAC4
83      C      PUBLIC OPT_MAC_DEF
84      C      PUBLIC OPT_MAC_LP
85      C      PUBLIC OPT_SYM2
86      C      PUBLIC OPT_SYM3
87      C      PUBLIC OPT_SYM4
88      C      PUBLIC OPT_SYM_DEF
89      C      PUBLIC OPT_SYM_LP
90      C      PUBLIC PATCH1
91      C      PUBLIC PATCH10
92      C      PUBLIC PATCH11
93      C      PUBLIC PATCH12
94      C      PUBLIC PATCH13
95      C      PUBLIC PATCH14
96      C      PUBLIC PATCH15
97      C      PUBLIC PATCH16
98      C      PUBLIC PATCH17
99      C      PUBLIC PATCH18
100     C      PUBLIC PATCH19A
101     C      PUBLIC PATCH19B
102     C      PUBLIC PATCH2
103     C      PUBLIC PATCH20
104     C      PUBLIC PATCH21
105     C      PUBLIC PATCH22
106     C      PUBLIC PATCH23
107     C      PUBLIC PATCH3
108     C      PUBLIC PATCH3B
109     C      PUBLIC PATCH3C
110     C      PUBLIC PATCH3D
```

```
111      C      PUBLIC PATCH4
112      C      PUBLIC PATCH5
113      C      PUBLIC PATCH6
114      C      PUBLIC PATCH7
115      C      PUBLIC PATCH8A
116      C      PUBLIC PATCH8B
117      C      PUBLIC PATCH8C
118      C      PUBLIC PATCH9
119      C      PUBLIC PATCH99
120      C      PUBLIC PATCH_DATA
121      C      PUBLIC PATCH_DEBUG
122      C      PUBLIC PATCH_DEBUG_LP
123      C      PUBLIC PUTS          ;PROC
124      C      PUBLIC READ_DEBUG
125      C      PUBLIC READ_DEBUG2
126      C      PUBLIC READ_DEBUG3
127      C      PUBLIC REP_MAX
128      C      PUBLIC REP_SEG
129      C      PUBLIC SAVE_FILE
130      C      PUBLIC SAVE_FILE1
131      C      PUBLIC SAVE_FILE2
132      C      PUBLIC SAVE_FILE3
133      C      PUBLIC SAVE_FILE4
134      C      PUBLIC SAVE_FILEX
135      C      PUBLIC SAVE_FILE_ERR
136      C      PUBLIC SCAN_FILE_NAME ;PROC
137      C      PUBLIC SCAN_FNAME2
138      C      PUBLIC SCAN_FNAME3
139      C      PUBLIC SCAN_FNAME4
140      C      PUBLIC SCAN_FNAME_LP
141      C      PUBLIC SELF_CHECKSUM
142      C      PUBLIC SELF_CHK_LP
143      C      PUBLIC SELF_CHK_OK
144      C      PUBLIC SKIP_BLANK    ;PROC
145      C      PUBLIC SKIP_BLANK2
146      C      PUBLIC SKIP_BLANK_LP
147      C      PUBLIC SKIP_BL_RET
148      C      PUBLIC STACK_BOTTOM
149      C      PUBLIC STR_DEBUGCOM
150      C      PUBLIC STR_MSDCOM
151      C      PUBLIC SYM_MAX
152      C      PUBLIC SYM_SEG
153      C      PUBLIC VERSION_CHK_OK
154      C      PUBLIC WRITE_MSD
155      C      PUBLIC WRITE_MSD2
156
157
158
159
```

```
160                                PAGE
161                                ;=====
162
163      00C0          org    0c0h
164      00C0  40 [      db     40h dup (20h)
165          20
166          ]
167
168
169      = 2E20          msd_start   equ     2e20h      ;msd's start offset - 100h
170      = 2E80          debug_len   equ     11904     ;debug.com 2.0 file length
171
172          ; maximum size allowed
173
174      = 1000          max_mac_size equ     1000h
175      = 1000          max_sym_size equ     1000h
176
177          ; minimum size allowed
178
179      = 0080          min_mac_size equ     80h
180      = 0080          min_sym_size equ     80h
181
182          ; default size
183
184      = 0100          def_mac_size equ     100h
185      = 0400          def_sym_size equ     400h
186
187      = 062F          checksum_200 equ     062fh
188
189      0100          ORG     100H
190
191      0100          MAIN_BODY PROC   FAR
192
193      0100  BC C8          mov     ax,cs
194      0102  BE D8          mov     ds,ax
195      0104  BE C0          mov     es,ax
196      0106  BE D0          mov     ss,ax
197      0108  BC 6821 R      mov     sp,offset stack_bottom
198
199          ; self checksum
200
201      010B  BE 0100          mov     si,100h
202      010E  B9 6621 R      mov     cx,offset end_checksum - 100h
203      0111  BB 0000          mov     bx,0
204      0114  B4 00          mov     ah,0
205      0116  FC
206      0117  AC          self_chk_lp: lodsb
207      0118  03 D8          add     bx,ax
208      011A  E2 FB          loop   self_chk_lp
209      011C  3B 1E 1199 R      cmp     bx,self_checksum
210      0120  74 0B          JMF    je     self_chk_ok
211      0122  BA 0DF3 R      mov     dx,offset msg_badself
212      0125  E8 0325 R      error_exit: call   puts
213      0128  BB 4C01          mov     ax,4c01h
214      012B  CD 21          int     21h      ;terminate if self bad
```

215
216 012D B4 30 self_chk_ok: mov ah,30h
217 012F CD 21 int 21h ;version number request
218 0131 3C 02 cmp al,2 ;at least version 2.0
219 0133 73 05 jae version_chk_ok
220 0135 BA 0DCB R mov dx,offset msg_badver
221 0138 EB EB jmp error_exit
222
223 013A BA 03F1 R version_chk_ok: mov dx,offset msg_signon
224 013D E8 0325 R call puts
225
226 0140 BA 063F R ask_drive: mov dx,offset msg_drive
227 0143 E8 032A R call get_input
228 0146 73 05 jnc ask_drive1 ;some input made
229 0148 BB FE mov di,si
230 014A EB 29 90 jmp ask_drive3
231
232 ; check if DEBUG.COM itself is entered
233
234 014D BE 063F R ask_drive1: mov si,offset msg_drive
235 0150 E8 0379 R call scan_file_name
236 0153 73 08 jnc ask_drive2
237
238 0155 BA 0EBC R ask_drive_err: mov dx,offset msg_drive_err
239 0158 E8 0325 R call puts
240 015B EB E3 jmp ask_drive
241
242 015D 56 ask_drive2: push si
243 015E 57 push di ;save it for now
244
245 015F BE 0FA1 R mov si,offset str_debugcom
246 0162 B9 0009 mov cx,9
247 0165 F3/ A6 repe cmpsb ;match?
248 0167 5E pop si ;don't care
249 0168 5F pop di ;end ptr
250
251 0169 74 12 je ask_drive4
252 016B 80 7D FF 5C cmp byte ptr [di-1],'\';last char '\'
253 016F 74 04 je ask_drive3
254 0171 C6 05 5C mov byte ptr [di],'\'
255 0174 47 inc di
256 0175 BE 0FA1 R ask_drive3: mov si,offset str_debugcom
257 0178 B9 000A mov cx,10
258 017B F3/ A4 rep movsb ;copy file name
259
260 017D BA 00C2 R ask_drive4: mov dx,offset inbuf+2
261 0180 BB 3D00 mov ax,3d00h ;open to read
262 0183 CD 21 int 21h
263 0185 73 05 jnc read_debug
264 0187 EB 03E9 R call file_err_msg
265 018A EB B4 jmp ask_drive
266
267 018C BB D8 read_debug: mov bx,ax ;bx = file handle
268 018E 33 C9 xor cx,cx
269 0190 BB D1 mov dx,cx ;cx:dx = 0:0

```
270 0192 BB 4202          mov    ax,4202h      ;lseek
271 0195 CD 21            int    21h           ;get file size
272 0197 73 05            jnc    read_debug2
273 0199 EB 03E9 R         call   file_err_msg
274 019C EB A2            jmp    ask_drive
275
276 019E 0B D2            read_debug2: or     dx,dx        ;dx = 0?
277 01A0 75 41            jnz    bad_debug
278 01A2 3D 2E80          cmp    ax,debug_len      ;ax is correct length?
279 01A5 75 3C            jne    bad_debug
280
281 01A7 33 C9            xor    cx,cx
282 01A9 BB D1            mov    dx,cx        ;cx:dx = 0:0
283 01AB BB 4200          mov    ax,4200h      ;lseek
284 01AE CD 21            int    21h           ;reset file point to top
285
286 01B0 B9 2E80          mov    ax,debug_len      ;length to read
287 01B3 BA 119B R         mov    dx,offset debug_buf
288 01B6 B4 3F            mov    ah,3fh
289 01B8 CD 21            int    21h           ;read it
290
291 01BA 73 06            jnc    read_debug3
292 01BC EB 03E9 R         call   file_err_msg
293 01BF E9 0140 R         jmp    ask_drive
294
295 01C2 81 F9 2E80          read_debug3: cmp   cx,debug_len      ;read exact length?
296 01C6 75 1B            jne    bad_debug
297 01C8 EB 22 90            jmp    patch_debug      ;<<<<< for now, no checksum
298
299 01CB B4 3E            mov    ah,3eh
300 01CD CD 21            int    21h           ;close the file
301
302 01CF BE 119B R         do_checksum:  mov    si,offset debug_buf
303 01D2 BA 0000          mov    dx,0
304 01D5 B4 00            mov    ah,0
305 01D7 FC
306 01D8 AC             do_checksum_lp: lodsb
307 01D9 03 D0            add    dx,ax
308 01DB E2 FB            loop   do_checksum_lp
309 01DD 81 FA 062F          cmp    dx,checksum_200
310 01E1 74 09            je     patch_debug
311
312 01E3 BA 0E52 R         bad_debug:   mov    dx,offset msg_baddebug
313 01E6 EB 0325 R         call   puts
314 01E9 E9 0140 R         jmp    ask_drive
315
316 01EC BE 103C R         patch_debug:  mov    si,offset patch_data
317 01EF AD             patch_debug_lp: lodsw      ;length of patch record
318 01F0 BB C8            mov    cx,ax
319 01F2 E3 0B            jcxz  option_auto      ;if 0, all done
320 01F4 AD             lodsw      ;addr of patch
321 01F5 BB FB            mov    di,ax
322 01F7 81 C7 109B R          add    di,offset debug_buf - 100h    ;patch start addr
323 01FB F3/ A4            rep    movsb
324 01FD EB F0            jmp    patch_debug_lp
```

325
326 01FF BA 0690 R option_auto: mov dx,offset msg_auto
327 0202 EB 0325 R call puts
328 0205 BA 08BD R option_auto_lp: mov dx,offset msg_auto2
329 0208 EB 032A R call get_input
330 020B 73 03 jnc opt_auto2
331 020D EB 7F 90 save_filex: jmp save_file
332 0210 3C 59 opt_auto2: cmp al,'Y'
333 0212 74 F9 je save_filex
334 0214 3C 4E cmp al,'N'
335 0216 74 02 je option_work
336 0218 EB EB jmp option_auto_lp
337
338 021A BA 08F2 R option_work: mov dx,offset msg_work
339 021D EB 0325 R call puts
340 0220 BA 082D R opt_mac_lp: mov dx,offset msg_mac
341 0223 EB 032A R call get_input
342 0226 72 07 jc opt_mac_def ;if default
343 0228 EB 03A9 R call get_hex
344 022B 72 F3 jc opt_mac_lp ;if error
345 022D EB 03 jmp short opt_mac2
346 022F BA 0100 opt_mac_def: mov dx,def_mac_size
347 0232 81 FA 0080 opt_mac2: cmp dx,min_mac_size ;too small?
348 0236 73 03 jae opt_mac3
349 0238 BA 0080 mov dx,min_mac_size
350 023B 81 FA 1000 opt_mac3: cmp dx,max_mac_size
351 023F 76 03 jbe opt_mac4
352 0241 BA 1000 mov dx,max_mac_size
353 0244 4A opt_mac4: dec dx
354 0245 D1 E2 shl dx,1
355 0247 D1 E2 shl dx,1
356 0249 D1 E2 shl dx,1
357 024B D1 E2 shl dx,1
358 024D 83 C2 0F add dx,15
359 0250 89 16 3FC9 R mov mac_max,dx
360
361 0254 BA 0B9D R mov dx,offset msg_sym
362 0257 EB 0325 R call puts
363 025A BA 0CBB R opt_sym_lp: mov dx,offset msg_sym2
364 025D EB 032A R call get_input
365 0260 72 07 jc opt_sym_def ;if default
366 0262 EB 03A9 R call get_hex
367 0265 72 F3 jc opt_sym_lp ;if error
368 0267 EB 03 jmp short opt_sym2
369 0269 BA 0400 opt_sym_def: mov dx,def_sym_size
370 026C 81 FA 0080 opt_sym2: cmp dx,min_sym_size ;too small?
371 0270 73 03 jae opt_sym3
372 0272 BA 0080 mov dx,min_sym_size ;if so, adjust it
373 0275 81 FA 1000 opt_sym3: cmp dx,max_sym_size ;too large?
374 0279 76 03 jbe opt_sym4
375 027B BA 1000 mov dx,max_sym_size ;if so, adjust it
376 027E 4A opt_sym4: dec dx
377 027F D1 E2 shl dx,1
378 0281 D1 E2 shl dx,1
379 0283 D1 E2 shl dx,1

```
380 0285 D1 E2          shl  dx,1
381 0287 B3 C2 0F        add  dx,15
382 028A 89 16 3FCF R   mov  sym_max,dx
383
384           ; save the file
385
386 028E BA 0D28 R       save_file:  mov  dx,offset msg_save
387 0291 EB 032A R       call  get_input
388 0294 73 05           jnc   save_file1      ;some input made
389 0296 BB FE           mov  di,si
390 0298 EB 29 90        jmp  save_file3
391
392           ; check if DEBUG.COM itself is entered
393
394 029B BE 063F R       save_file1:  mov  si,offset msg_drive
395 029E EB 0379 R       call  scan_file_name
396 02A1 73 08           jnc   save_file2
397
398 02A3 BA 0EBC R       save_file_err:  mov  dx,offset msg_drive_err
399 02A6 EB 0325 R       call  puts
400 02A9 EB E3           jmp  save_file
401
402 02AB 56              save_file2:  push si
403 02AC 57              push di           ;save it for now
404
405 02AD BE 0FAB R       mov  si,offset str_msocom
406 02B0 B9 0007          mov  cx,7
407 02B3 F3/ A6           repe cmpsb          ;match?
408 02B5 5E              pop  si           ;don't care
409 02B6 5F              pop  di           ;end ptr
410 02B7 74 12           je   save_file4
411
412 02B9 80 7D FF 5C     cmp  byte ptr [di-1],'\'
413 02BD 74 04           je   save_file3      ;last char '\'?
414 02BF C6 05 5C          mov  byte ptr [di],'\'
415 02C2 47              inc  di
416 02C3 BE 0FAB R       save_file3:  mov  si,offset str_msocom
417 02C6 B9 0008          mov  cx,8
418 02C9 F3/ A4           rep  movsb          ;copy file name
419
420 02CB BA 00C2 R       save_file4:  mov  dx,offset inbuf+2
421 02CE BB 3C00          mov  ax,3C00h         ;create output file
422 02D1 33 C9           xor  cx,cx          ;attribute set
423 02D3 CD 21           int  21h
424 02D5 73 05           jnc  write_ms
425 02D7 EB 03E9 R       call  file_err_msg
426 02DA EB B2           jmp  save_file
427
428 02DC BB D8           write_ms:  mov  bx,ax           ;file handle
429 02DE BA 119B R       mov  dx,offset debug_buf
430 02E1 BB 0E 1195 R   mov  cx,msd_length
431 02E5 B4 40           mov  ah,40h
432 02E7 CD 21           int  21h           ;write into file
433 02E9 3B 06 1195 R   cmp  ax,msd_length
434 02ED 74 1B           je   write_ms2
```

435
436 ; disk error on writing
437
438 02EF B4 10 mov ah,10h
439 02F1 CD 21 int 21h ;close this one
440 02F3 B4 13 mov ah,13h
441 02F5 CD 21 int 21h ;and delete this one
442 02F7 B4 3E mov ah,3eh ;close this one
443 02F9 CD 21 int 21h
444 02FB BA 00C2 R mov dx,offset inbuf+2
445 02FE B4 41 mov ah,41h ;and delete this one
446 0300 CD 21 int 21h
447
448 0302 BA 0F03 R mov dx,offset msg_noroom
449 0305 EB 0325 R call puts
450 0308 EB 84 jmp save_file
451
452 030A B4 3E write_ms2: mov ah,3eh ;close it
453 030C CD 21 int 21h
454 030E 73 09 jnc exit_install ;successful?
455 0310 BA 0F4A R mov dx,offset msg_nofclose
456 0313 EB 0325 R call puts
457 0316 E9 028E R jmp save_file
458
459 0319 BA 0FB3 R exit_install: mov dx,offset msg_bye
460 031C EB 0325 R call puts
461 031F BB 4C00 mov ax,4C00h
462 0322 CD 21 int 21h ;all done
463 0324 CB ret ;far return to the system
464
465 ;-----
466
467 0325 puts proc near
468
469 0325 B4 09 mov ah,9
470 0327 CD 21 int 21h ;message output
471 0329 C3 ret
472
473 032A puts endp
474
475 ;-----
476
477 032A get_input proc near
478
479 ; input: dx: message pointer
480 ; output: di: pointing top of the buffer
481 ; si: pointing first solid char
482 ; al: first solid char
483 ; cx: total number of char entered (including blanks)
484 ; cf: cy: null string, nc: solid char entered
485 ; alters: ax,cx,dx,di,si
486
487 032A EB 0325 R call puts
488 032D BA 00C0 R mov dx,offset inbuf
489 0330 C6 06 00C0 R 20 mov byte ptr inbuf,32

```
490 0335 B4 0A          mov ah,0ah
491 0337 CD 21          int 21h           ;buffered console input
492
493 0339 B2 0A          mov dl,10
494 033B B4 02          mov ah,2
495 033D CD 21          int 21h           ;line feed after cr
496
497 ; uppercase conversion
498
499 033F 8A 0E 00C1 R    mov cl,byte ptr inbuf+1
500 0343 B5 00          mov ch,0           ;cx = number of char
501 0345 BF 00C2 R    mov di,offset inbuf+2
502 0348 E3 15          jcxz get_input_xt
503 034A 51             push cx
504 034B 57             push di
505 034C 8A 05          get_input_lp: mov al,[di]
506 034E 24 7F          and al,07fh
507 0350 3C 61          cmp al,'a'
508 0352 72 06          jb get_input1
509 0354 3C 7A          cmp al,'z'
510 0356 77 02          ja get_input1
511 0358 2C 20          sub al,20h           ;convert to upper case
512 035A AA             get_input1: stosb
513 035B E2 EF          loop get_input_lp
514 035D 5F             pop di
515 035E 59             pop cx
516 035F 8B F7          get_input_xt: mov si,di
517 0361 EB 01 90        jmp skip_blank
518
519 0364               get_input    endp
520
521 ;-----
522
523 0364               skip_blank proc near
524
525 ;      input  si:  input string pointer (terminated by 0dh)
526 ;      output si:  pointing first non-blank char
527 ;              al:  first non_blank char
528 ;              cf:  cy= null string / nc= solid char returned
529 ;      alters al,si
530 ;
531
532 0364 8A 04          skip_blank_lp: mov al,[si]
533 0366 3C 0D          cmp al,0dh           ;is this the last char?
534 0368 74 0A          je skip_bl_ret
535 036A 3C 20          cmp al,20h           ;if blank, skip
536 036C 74 08          jz skip_blank2
537 036E 3C 09          cmp al,?
538 0370 74 04          jz skip_blank2           ;if tab, skip also
539 0372 F8             clc
540 0373 C3             ret           ;found solid char
541 0374 F9             skip_bl_ret: stc
542 0375 C3             ret           ;found
543 0376 46             skip_blank2: inc si
544 0377 EB EB          jmp skip_blank_lp
```

545
546 0379 skip_blank endp
547
548 ;-----
549
550 0379 scan_file_name proc near
551
552 ; find last element of path name and end
553 ; detects bad path name
554
555 ; input si input string ptr
556 ; output si last position ptr (set 0)
557 ; di last element ptr
558 ; cf nc=ok, cy=error
559
560 0379 E8 0364 R call skip_blank
561 037C 8B FE mov di,si ;remember first
562 037E B9 0040 mov cx,64 ;max length
563
564 0381 AC scan_fname_lp: lodsb
565 0382 3C 5C cmp al,'\' ;directory specified?
566 0384 74 10 je scan_fname2 ;yes
567 0386 3C 20 cmp al,20h ;space reached?
568 0388 74 12 je scan_fname3
569 038A 3C 09 cmp al,9 ;tab reached?
570 038C 74 0E je scan_fname3
571 038E 3C 0D cmp al,0dh ;end reached?
572 0390 74 11 je scan_fname4
573 0392 E2 ED loop scan_fname_lp
574 0394 F9 stc ;error
575 0395 C3 ret
576
577 0396 8B FE scan_fname2: mov di,si ;remember it
578 0398 E2 E7 loop scan_fname_lp
579 039A F9 stc
580 039B C3 ret
581
582 039C E8 0364 R scan_fname3: call skip_blank
583 039F 72 02 jc scan_fname4 ;if no more, ok
584 03A1 F9 stc
585 03A2 C3 ret
586
587 03A3 4E scan_fname4: dec si
588 03A4 C6 04 00 mov byte ptr [si],0 ;form ASCII string
589 03A7 F8 clc ;no carry
590 03AB C3 ret
591
592 03A9 scan_file_name endp
593 ;-----
594
595
596 03A9 get_hex proc near
597
598 ; input si: pointing input string
599 ; output dx: value

600 ; cf: nc= ok, cy= error
601
602 03A9 B9 0004
603 03AC BA 0000
604 03AF AC get_hex_lp:
605 03B0 3C 20 mov cx,4
606 03B2 74 26 mov dx,0
607 03B4 3C 09 lodsb
608 03B6 74 22 cmp al,20h
609 03B8 3C 0D je get_hex_end
610 03BA 74 23 cmp al,9
611 03BC 3C 0D je get_hex_end
612 03BE 72 21 cmp al,0dh
613 03C0 3C 0A je get_hex_end2
614 03C2 72 0A sub al,'0'
615 03C4 2C 07 jb get_hex_err
616 03C6 3C 0A cmp al,10
617 03C8 72 17 jb get_hex_ok
618 03CA 3C 0F cmp al,7
619 03CC 77 13 ja get_hex_err
620 03CE D1 E2 get_hex_ok:
621 03D0 D1 E2 shl dx,1
622 03D2 D1 E2 shl dx,1
623 03D4 D1 E2 shl dx,1
624 03D6 02 D0 add dl,al
625 03D8 E2 D5 loop get_hex_lp
626 03DA E8 0364 R get_hex_end:
627 03DD 73 02 call skip_blank
628 03DF F8 jnc get_hex_err
629 03E0 C3 get_hex_end2:
630 03E1 BA 0F79 R ret
631 03E4 E8 0325 R get_hex_err:
632 03E7 F9 mov dx,offset msg_hex_err
633 03E8 C3 call puts
634
635 03E9 get_hex endp
636
637 ;-----
638
639 03E9 file_err_msg proc near
640
641 03E9 BA 0ED6 R mov dx,offset msg_file_err
642 03EC B4 09 mov ah,9
643 03EE CD 21 int 21h
644 03F0 C3 ret
645
646 03F1 file_err_msg endp
647

648	PAGE
649	=====
650	
651 03F1 0D 0A	msg_signon db 13,10
652 03F3 0D 0A 4D 59 4C 53	db 13,10, 'MYLSTAR SYMBOLIC DEBUGGING PROGRAM INSTALLER Ver 2.00'
54 41 52 20 53 59	
654 4D 42 4F 4C 49 43	
655 20 44 45 42 55 47	
656 47 49 4E 47 20 50	
657 52 4F 47 52 41 4D	
658 20 49 4E 53 54 41	
659 4C 4C 45 52 20 20	
660 56 65 72 20 32 2E	
661 30 30	
662 042B 0D 0A 28 43 29 20	db 13,10, '(C) Copyright Mylstar Electronics, Inc. 1984'
43 6F 70 79 72 69	
664 67 68 74 20 20 4D	
665 79 6C 73 74 61 72	
666 20 45 6C 65 63 74	
667 72 6F 6E 69 63 73	
668 2C 20 49 6E 63 2E	
669 20 20 31 39 38 34	
670 045B 0D 0A	db 13,10
671 045D 0D 0A 54 6F 20 61	db 13,10, 'To abort this program at any time, press Ctrl-Break.'
672 62 6F 72 74 20 74	
673 68 69 73 20 70 72	
674 6F 67 72 61 6D 20	
675 61 74 20 61 6E 79	
676 20 74 69 6D 65 2C	
677 20 70 72 65 73 73	
678 20 43 74 72 6C 2D	
679 42 72 65 61 6B 2E	
680 0493 0D 0A	db 13,10
681 0495 0D 0A 59 6F 75 20	db 13,10, 'You will be asked to enter installation parameters at various points'
682 77 69 6C 6C 20 62	
683 65 20 61 73 6B 65	
684 64 20 74 6F 20 65	
685 6E 74 65 72 20 69	
686 6E 73 74 61 6C 6C	
687 61 74 69 6F 6E 20	
688 70 61 72 61 6D 65	
689 74 65 72 73 20 61	
690 74 20 76 61 72 69	
691 6F 75 73 20 70 6F	
692 69 6E 74 73	
693 04DB 0D 0A 69 6E 20 74	db 13,10, 'in this program. The default parameter to each answer is given inside'
694 68 69 73 20 70 72	
695 6F 67 72 61 6D 2E	
696 20 20 54 68 65 20	
697 64 65 66 61 75 6C	
698 74 20 70 61 72 61	
699 6D 65 74 65 72 20	
700 74 6F 20 65 61 63	
701 68 20 61 6E 73 77	
702 65 72 20 69 73 20	

703 67 69 76 65 6E 20
704 69 6E 73 69 64 65
705 0523 0D 0A 62 72 61 63 db 13,10, 'brackets. If you want the default parameter, press ENTER, otherwise'
706 6B 65 74 73 2E 20
707 49 66 20 79 6F 75
708 20 77 61 6E 74 20
709 74 68 65 20 64 65
710 66 61 75 6C 74 20
711 70 61 72 61 6D 65
712 74 65 72 2C 20 70
713 72 65 73 73 20 45
714 4E 54 45 52 2C 20
715 6F 74 68 65 72 77
716 69 73 65
717 0568 0D 0A 73 70 65 63 db 13,10, 'specify a value and press ENTER.'
718 69 66 79 20 61 20
719 76 61 6C 75 65 20
720 61 6E 64 20 70 72
721 65 73 73 20 45 4E
722 54 45 52 2E
723 058A 0D 0A db 13,10
724 058C 0D 0A db 13,10
725 058E 0D 0A db 13,10
726 0590 0D 0A 20 2A 2A 2A db 13,10, '***** LOAD DEBUG.COM *****'
*
727 2A 2A 2A 2A 2A 2A
728 2A 2A 2A 2A 2A 2A
729 2A 2A 2A 2A 2A 2A
730 2A 2A 2A 2A 2A 2A
731 2A 2A 2A 20 4C 4F
732 41 44 20 44 45 42
733 55 47 2E 43 4F 4D
734 20 2A 2A 2A 2A 2A
735 2A 2A 2A 2A 2A 2A
736 2A 2A 2A 2A 2A 2A
737 2A 2A 2A 2A 2A 2A
738 2A 2A 2A 2A 2A 2A
739 2A
740 05DF 0D 0A db 13,10
741 05E1 0D 0A 54 68 65 20 db 13,10, 'The file DEBUG.COM of PC-DOS ver 2.0 or 2.1 is required to continue this'
742 66 69 6C 65 20 44
743 45 42 55 47 2E 43
744 4F 4D 20 6F 66 20
745 50 43 2D 44 4F 53
746 20 20 76 65 72 20
747 32 2E 30 20 6F 72
748 20 32 2E 31 20 69
749 73 20 72 65 71 75
750 69 72 65 64 20 74
751 6F 20 63 6F 6E 74
752 69 6E 75 65 20 74
753 68 69 73
754 062C 0D 0A 69 6E 73 74 db 13,10, 'installation. \$'
755 61 6C 6C 61 74 69
756 6F 6E 2E 20 24

757 063D 0D 0A db 13,10
758 063F 0D 0A msg_drive db 13,10
759 0641 0D 0A 45 6E 74 65 db 13,10,'Enter directory name (path) to find "DEBUG.COM" file.'
760 72 20 64 69 72 65
761 63 74 6F 72 79 20
762 6E 61 6D 65 20 28
763 70 61 74 68 29 20
764 74 6F 20 66 69 6E
765 64 20 22 44 45 42
766 55 47 2E 43 4F 4D
767 22 20 66 69 6C 65
768 2E
769 0678 0D 0A 5B 63 75 72 db 13,10,['current directory] \$'
770 72 65 6E 74 20 64
771 69 72 65 63 74 6F
772 72 79 5D 20 20 24
773
774 0690 0D 0A msg_auto db 13,10
775 0692 0D 0A 4D 59 4C 53 db 13,10,'MYLSTAR SYMBOLIC DEBUGGING PROGRAM (MSD) has several installation options'
776 54 41 52 20 53 59
777 4D 42 4F 4C 49 43
778 20 44 45 42 55 47
779 47 49 4E 47 20 50
780 52 4F 47 52 41 4D
781 20 28 4D 53 44 29
782 20 68 61 73 20 73
783 65 76 65 72 61 6C
784 20 69 6E 73 74 61
785 6C 6C 61 74 69 6F
786 6E 20 6F 70 74 69
787 6F 6E 73
788 06DD 0D 0A 73 6F 20 74 db 13,10,'so that it may be configured to best suit your needs and environment.'
789 68 61 74 20 69 74
790 20 6D 61 79 20 62
791 65 20 63 6F 6E 66
792 69 67 75 72 65 64
793 20 74 6F 20 62 65
794 73 74 20 73 75 69
795 74 20 79 6F 75 72
796 20 6E 65 65 64 73
797 20 61 6E 64 20 65
798 6E 76 69 72 6F 6E
799 6D 65 6E 74 2E
800 0724 0D 0A db 13,10
801 0726 0D 0A 41 75 74 6F db 13,10,'Automatic installation is recommended for first time users.'
802 6D 61 74 69 63 20
803 69 6E 73 74 61 6C
804 6C 61 74 69 6F 6E
805 20 69 73 20 72 65
806 63 6F 6D 6D 65 6E
807 64 65 64 20 66 6F
808 72 20 66 69 72 73
809 74 20 74 69 6D 65
810 20 75 73 65 72 73
811 2E

812 0763 0D 0A 4F 6E 63 65 db 13,10, 'Once you become more familiar with MSD, you may then choose to'
813 20 79 6F 75 20 62
814 65 63 6F 6D 65 20
815 6D 6F 72 65 20 66
816 61 6D 69 6C 69 61
817 72 20 77 69 74 68
818 20 4D 53 44 2C 20
819 79 6F 75 20 6D 61
820 79 20 74 6B 65 6E
821 20 63 6B 6F 6F 73
822 65 20 74 6F
823 07A3 0D 0A 72 65 2D 69 db 13,10, 're-install it specifying your own parameters.'
824 6E 73 74 61 6C 6C
825 20 69 74 20 73 70
826 65 63 69 66 69 6E
827 67 20 79 6F 75 72
828 20 6F 77 6E 20 70
829 61 72 61 6D 65 74
830 65 72 73 2E
831 07D1 0D 0A db 13,10
832 07D3 0D 0A 54 68 65 20 db 13,10, 'The installation options are designed for systems with very limited'
833 69 6E 73 74 61 6C
834 6C 61 74 69 6F 6E
835 20 6F 70 74 69 6F
836 6E 73 20 61 72 65
837 20 64 65 73 69 67
838 6E 65 64 20 66 6F
839 72 20 73 79 73 74
840 65 6D 73 20 77 69
841 74 68 20 76 65 72
842 79 20 6C 69 6D 69
843 74 65 64
844 0818 0D 0A 6D 65 6D 6F db 13,10, 'memory (less than 128K) or for programs which require a large number'
845 72 79 20 28 6C 65
846 73 73 20 74 68 61
847 6E 20 31 32 38 4B
848 29 20 6F 72 20 66
849 6F 72 20 70 72 6F
850 67 72 61 6D 73 20
851 77 68 69 63 68 20
852 72 65 71 75 69 72
853 65 20 61 20 6C 61
854 72 67 65 20 6E 75
855 6D 62 65 72
856 085E 0D 0A 6F 66 20 73 db 13,10, 'of symbols and macros. Most users should not have to go through'
857 79 6D 62 6F 6C 73
858 20 61 6E 64 20 6D
859 61 63 72 6F 73 2E
860 20 20 4D 6F 73 74
861 20 75 73 65 72 73
862 20 73 6B 6F 75 6C
863 64 20 6E 6F 74 20
864 6B 61 76 65 20 74
865 6F 20 67 6F 20 74
866 6B 72 6F 75 67 68

867 0BA0 0D 0A 74 6B 65 20 db 13,10,'the optional installation.\$'
868 6F 70 74 69 6F 6E
869 61 6C 20 69 6E 73
870 74 61 6C 6C 61 74
871 69 6F 6E 2E 24
872 0BB0 0D 0A msg_auto2 db 13,10
873 0BBF 0D 0A 44 6F 20 79 db 13,10,'Do you want automatic installation (Y/N)? [Y] \$'
874 6F 75 20 77 61 6E
875 74 20 61 75 74 6F
876 6D 61 74 69 63 20
877 69 6E 73 74 61 6C
878 6C 61 74 69 6F 6E
879 20 28 59 2F 4E 29
880 3F 20 20 5B 59 5D
881 20 20 24
882 0BF2 0D 0A msg_work db 13,10
883 0BF4 0D 0A 20 2A 2A 2A db 13,10,'***** SET MSD WORK AREAS *****
*
884 2A 2A 2A 2A 2A 2A
885 2A 2A 2A 2A 2A 2A
886 2A 2A 2A 2A 2A 2A
887 2A 2A 2A 2A 2A 2A
888 20 53 45 54 20 4D
889 53 44 20 57 4F 52
890 4B 20 41 52 45 41
891 53 20 2A 2A 2A 2A
892 2A 2A 2A 2A 2A 2A
893 2A 2A 2A 2A 2A 2A
894 2A 2A 2A 2A 2A 2A
895 2A 2A 2A 2A 2A 2A
896 2A
897 0943 0D 0A db 13,10
898 0945 0D 0A 4D 53 44 20 db 13,10,'MSD requires a work area for the macro text and the symbol table. It is'
899 72 65 71 75 69 72
900 65 73 20 61 20 77
901 6F 72 6B 20 61 72
902 65 61 20 66 6F 72
903 20 74 6B 65 20 6D
904 61 63 72 6F 20 74
905 65 78 74 20 61 6E
906 64 20 74 6B 65 20
907 73 79 6D 62 6F 6C
908 20 74 61 62 6C 65
909 2E 20 49 74 20 69
910 73
911 09BE 0D 0A 6C 6F 63 61 db 13,10,'located immediately below the reserved memory area. The remaining memory is'
912 74 65 64 20 69 6D
913 6D 65 64 69 61 74
914 6C 79 20 62 65 6C
915 6F 77 20 74 6B 65
916 20 72 65 73 65 72
917 76 65 64 20 6D 65
918 6D 6F 72 79 20 61
919 72 65 61 2E 20 20
920 54 68 65 20 72 65

921 6D 61 69 6E 69 6E
922 67 20 6D 65 6D 6F
923 72 79 20 69 73
924 09DB 0D 0A 61 6C 6C 6F db 13,10, 'allocated to the target program that you are going to be debugging.'
925 63 61 74 65 64 20
926 74 6F 20 74 68 65
927 20 74 61 72 67 65
928 74 20 70 72 6F 67
929 72 61 6D 20 74 68
930 61 74 20 79 6F 75
931 20 61 72 65 20 67
932 6F 69 6E 67 20 74
933 6F 20 62 65 20 64
934 65 62 75 67 67 69
935 6E 67 2E
936 0A20 0D 0A 59 6F 75 20 db 13,10, 'You can expand the macro text area and the symbol table area from within MSD'
937 63 61 6E 20 65 78
938 70 61 6E 64 20 74
939 68 65 20 6D 61 63
940 72 6F 20 74 65 78
941 74 20 61 72 65 61
942 20 61 6E 64 20 74
943 68 65 20 73 79 6D
944 62 6F 6C 20 74 61
945 62 6C 65 20 61 72
946 65 61 20 66 72 6F
947 6D 20 77 69 74 68
948 69 6E 20 4D 53 44
949 2C
950 0A6F 0D 0A 74 68 65 20 db 13,10, 'the values you choose here become the default sizes used when MSD is invoked'
951 76 61 6C 75 65 73
952 20 79 6F 75 20 63
953 68 6F 6F 73 65 20
954 68 65 72 65 20 62
955 65 63 6F 6D 65 20
956 74 68 65 20 64 65
957 66 61 75 6C 74 20
958 73 69 7A 65 73 20
959 75 73 65 64 20 77
960 68 65 6E 20 4D 53
961 44 20 69 73 20 69
962 6E 76 6F 6B 65 64
963 2E
964 0ABE 0D 0A db 13,10
965 0AC0 0D 0A 54 68 65 20 db 13,10, 'The macro text area requires 1K for a directory, plus one byte for each'
966 6D 61 63 72 6F 20
967 74 65 78 74 20 61
968 72 65 61 20 72 65
969 71 75 69 72 65 73
970 20 31 4B 20 66 6F
971 72 20 61 20 64 69
972 72 65 63 74 6F 72
973 79 2C 20 70 6C 75

974 73 20 6F 6E 65 20
975 62 79 74 65 20 66
976 6F 72 20 65 61 63
977 68
978 0B09 0D 0A 63 68 61 72 db 13,10,'character of every macro defined.\$'
979 61 63 74 65 72 20
980 6F 66 20 65 76 65
981 72 79 20 6D 61 63
982 72 6F 20 64 65 66
983 69 6E 65 64 2E 24
984
985 0B2D 0D 0A 0D 0A msg_mac db 13,10,13,10
986 0B31 0D 0A 45 6E 74 65 db 13,10,'Enter number of paragraphs (16 bytes) in hexadecimal digits (minimum 80) for
987 72 20 6E 75 6D 62
988 65 72 20 6F 66 20
989 70 61 72 61 67 72
990 61 70 68 73 20 28
991 31 36 20 62 79 74
992 65 73 29 20 69 6E
993 20 68 65 78 61 64
994 65 63 69 6D 61 6C
995 20 64 69 67 69 74
996 73 20 28 6D 69 6E
997 69 6D 75 6D 20 38
998 30 29 20 66 6F 72
999 0B7F 0D 0A 6D 61 63 72 db 13,10,'macro text buffer [0100] \$'
1000 6F 20 74 65 78 74
1001 20 62 75 66 66 65
1002 72 20 20 5B 30 31
1003 30 30 5D 20 20 24
1004
1005 0B9D 0D 0A 0D 0A msg_sym db 13,10,13,10
1006 0BA1 0D 0A 54 68 65 20 db 13,10,'The symbol table area requires, 1K for hash table, plus'
1007 73 79 6D 62 6F 6C
1008 20 74 61 62 6C 65
1009 20 61 72 65 61 20
1010 72 65 71 75 69 72
1011 65 73 2C 20 31 4B
1012 20 66 6F 72 20 68
1013 61 73 68 20 74 61
1014 62 6C 65 2C 20 70
1015 6C 75 73
1016 0BDA 0D 0A 28 20 73 79 db 13,10,'(symbol length + 6) bytes for each symbol.'
1017 6D 62 6F 6C 20 6C
1018 65 6E 67 74 68 20
1019 2B 20 36 20 29 20
1020 62 79 74 65 73 20
1021 66 6F 72 20 65 61
1022 63 68 20 73 79 6D
1023 62 6F 6C 2E
1024 0C08 0D 0A 54 68 65 20 db 13,10,'The LINKER allows a maximum of 1024 public symbols.'
1025 4C 49 4E 4B 45 52
1026 20 61 6C 6C 6F 77
1027 73 20 61 20 6D 61

1028 78 69 6D 75 6D 20
1029 6F 66 20 31 30 32
1030 34 20 70 75 62 6C
1031 69 63 20 73 79 6D
1032 62 6F 6C 73 2E
1033 0C3D 0D 0A 55 6E 6C 65 db 13,10,'Unless you create a great number of additional symbols within MSD,'
1034 73 73 20 79 6F 75
1035 20 63 72 65 61 74
1036 65 20 61 20 67 72
1037 65 61 74 20 6E 75
1038 6D 62 65 72 20 6F
1039 66 20 61 64 64 69
1040 74 69 6F 6E 61 6C
1041 20 73 79 6D 62 6F
1042 6C 73 20 77 69 74
1043 68 69 6E 20 4D 53
1044 44 2C
1045 0CB1 0D 0A 79 6F 75 20 db 13,10,'you should not need more than 16K (400H paragraphs).\$'
1046 73 68 6F 75 6C 64
1047 20 6E 6F 74 20 6E
1048 65 65 64 20 6D 6F
1049 72 65 20 74 68 61
1050 6E 20 31 36 4B 20
1051 28 34 30 30 4B 20
1052 70 61 72 61 67 72
1053 61 70 68 73 29 2E
1054 24
1055
1056 0CB8 0D 0A 0D 0A msg_sym2 db 13,10,13,10
1057 0CBC 0D 0A 45 6E 74 65 db 13,10,'Enter number of paragraphs (16 bytes) in hexadecimal digits (minimum 80) for
1058 72 20 6E 75 6D 62
1059 65 72 20 6F 66 20
1060 70 61 72 61 67 72
1061 61 70 68 73 20 28
1062 31 36 20 62 79 74
1063 65 73 29 20 69 6E
1064 20 68 65 78 61 64
1065 65 63 69 6D 61 6C
1066 20 64 69 67 69 74
1067 73 20 28 6D 69 6E
1068 69 6D 75 6D 20 38
1069 30 29 20 66 6F 72
1070 0D0A 0D 0A 53 79 6D 62 db 13,10,'Symbol table area [0400] \$'
1071 6F 6C 20 74 61 62
1072 6C 65 20 61 72 65
1073 61 20 20 5B 30 34
1074 30 30 5D 20 20 24
1075
1076 0D28 0D 0A msg_save db 13,10
1077 0D2A 0D 0A 20 2A 2A 2A db 13,10,'***** CREATE MYLSTAR SYMBOLIC DEBUGGING PROGRAM *****'
1078 2A 2A 2A 2A 2A 2A
1079 2A 2A 2A 2A 2A 2A
1080 20 43 52 45 41 54

1081 45 20 4D 59 4C 53
1082 54 41 52 20 53 59
1083 4D 42 4F 4C 49 43
1084 20 44 45 42 55 47
1085 47 49 4E 47 20 50
1086 52 4F 47 52 41 4D
1087 20 2A 2A 2A 2A 2A
1088 2A 2A 2A 2A 2A 2A
1089 2A 2A 2A 2A 2A 2A
1090 2A
1091 0D79 0D 0A db 13,10
1092 0D7B 0D 0A 45 6E 74 65 db 13,10, 'Enter file name under which the executable .COM file is written.'
1093 72 20 66 69 6C 65
1094 20 6E 61 6D 65 20
1095 75 6E 64 65 72 20
1096 77 68 69 63 68 20
1097 74 68 65 20 65 78
1098 65 63 75 74 61 62
1099 6C 65 20 2E 43 4F
1100 4D 20 66 69 6C 65
1101 20 69 73 20 77 72
1102 69 74 74 65 6E 2E
1103 0DBD 0D 0A 5B 4D 53 44 db 13,10, '[MSD.COM] \$'
1104 2E 43 4F 4D 5D 20
1105 20 24
1106
1107 0DCB 0D 0A 50 43 2D 44 msg_badver db 13,10, 'PC-DOS 2.0 or later version required.\$'
1108 4F 53 20 32 2E 30
1109 20 6F 72 20 6C 61
1110 74 65 72 20 76 65
1111 72 73 69 6F 6E 20
1112 72 65 71 75 69 72
1113 65 64 2E 24
1114 0DF3 0D 0A 54 68 69 73 msg_badself db 13,10, 'This MSDINST.COM file has been damaged'
1115 20 4D 53 44 49 4E
1116 53 54 2E 43 4F 4D
1117 20 66 69 6C 65 20
1118 68 61 73 20 62 65
1119 65 6E 20 64 61 6D
1120 61 67 65 64
1121 0E1B 0D 0A 47 65 74 20 db 13,10, 'Get fresh copy from your back up disk and try again.\$'
1122 66 72 65 73 68 20
1123 63 6F 70 79 20 66
1124 72 6F 6D 20 79 6F
1125 75 72 20 62 61 63
1126 6B 20 75 70 20 64
1127 69 73 6B 20 61 6E
1128 64 20 74 72 79 20
1129 61 67 61 69 6E 2E
1130 24
1131 0E52 0D 0A 59 6F 75 20 msg_baddebug db 13,10, 'You have an invalid version of the DEBUG.COM file.\$'
1132 68 61 76 65 20 61
1133 6E 20 69 6E 76 61
1134 6C 69 64 20 76 65
1135 72 73 69 6F 6E 20

1136 6F 66 20 74 68 65
1137 20 44 45 42 55 47
1138 2E 43 4F 4D 20 66
1139 69 6C 65 2E 24
1140 0E87 0D 0A 22 44 45 42 msg_nodebug db 13,10,'"DEBUG.COM" file not found in the specified drive \$'
1141 55 47 2E 43 4F 4D
1142 22 20 66 69 6C 65
1143 20 6E 6F 74 20 66
1144 6F 75 6E 64 20 69
1145 6E 20 74 68 65 20
1146 73 70 65 63 69 66
1147 69 65 64 20 64 72
1148 69 76 65 20 24
1149 0EBC 0D 0A 44 72 69 76 msg_drive_err db 13,10,'Drive specifier error',13,10,'\$'
1150 65 20 73 70 65 63
1151 69 66 69 65 72 20
1152 65 72 72 6F 72 0D
1153 0A 24
1154 0ED6 0D 0A 46 69 6C 65 msg_file_err db 13,10,'File access err (need to be more specific)\$'
1155 20 61 63 63 65 73
1156 73 20 65 72 72 20
1157 28 6E 65 65 64 20
1158 74 6F 20 62 65 20
1159 6D 6F 72 65 20 73
1160 70 65 63 69 66 69
1161 63 29 24
1162 0F03 0D 0A 49 6E 73 75 msg_noroom db 13,10,'Insufficient disk space\$'
1163 66 66 69 63 69 65
1164 6E 74 20 64 69 73
1165 6B 20 73 70 61 63
1166 65 24
1167 0F1D 0D 0A 49 6E 76 61 msg_nodir db 13,10,'Invalid file name, or No room in directory\$'
1168 6C 69 64 20 66 69
1169 6C 65 20 6E 61 6D
1170 65 2C 20 6F 72 20
1171 4E 6F 20 72 6F 6F
1172 6D 20 69 6E 20 64
1173 69 72 65 63 74 6F
1174 72 79 24
1175 0F4A 0D 0A 44 69 73 6B msg_nofclose db 13,10,'Disk error, Output file could not be closed\$'