

OPTIONS NODECK,LIST,XREF,REL,OBJ(P)

THE LIST OF OPTIONS USED DURING THIS ASSEMBLY IS-- NODECK,LIST,XREF,REL,OBJ

EXTERNAL SYMBOL LIST

SYMBOL TYPE

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##0TRK MODULE

##0TRK BIS - CYL 0, TRACK 0, SECTOR 00

ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT VER 15, MOD 00 20/09/15 PAGE 2

0000		2		PRINT ON,NODATA	
		3	##0TRK	START	
		4	*	@SYS EXP-Y	
		6+		PRINT ON	
0000		459		ORG X'0000'	

##0TRK - BOOTSTRAP LOADER

ERR	LOC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT	VER 15, MOD 00	20/09/15	PAGE 13
				0007	517	IPLCNT	EQU 7			SECTOR COUNT FOR READ
				0000	518	IPLBAS	EQU *			BASE ADDR
				0000	519		USING IPLBAS,@BR			BASE REGISTER VALUE
					520	*				
					521	*	THE FOLLOWING TBN INSTRUCTION IS A DUMMY TO PREVENT			
					522	*	AN IPL OF A SYSTEM/3 PACK ON AN IBM SYSTEM/7			
					523	*				
0000	38	FF	0000		524	TBN	IPLBAS,IPLIPQ			DUMMY X'38FF' 1-4
0004	F2	90	00		525	JF	IPL050			RESET FALSE INDICATOR 1-4
0007	3D	00	0000		526	IPL050	CLI @ZERO,@ZERO			LOAD PSR 1-4
000B	3D	00	0000		527	CLI	@ZERO,@ZERO			LOAD PSR
000F	C2	01	1200		528	LA	IPLREL,@BR			SET BASE REG TO RELOCATION AREA
0013	4C	FF	FF 00FF		529	MVC	@SCTSZ-@B1(@SCTSZ,@BR),IPLEND-1			RELOCATE TO X'1200'
0018	D0	87	1B		530	B	IPLSTT(,@BR)			BRANCH TO RE-LOCATED PROGRAM
					531	*				
				0001	532	IPLBIS	EQU X'01'			BIS SYSTEM
				00FE	533	IPLIDR	EQU X'FE'			DISP BIS/DSM INDR
				00FF	534	IPLIPQ	EQU X'FF'			DISP DISK DRIVE INDR
					535	*				
				001B	536	IPLSTT	EQU *			CONTINUE OF IPL (AT X'121B')
001B	5E	00	27 FF		537	ALC	IPL110+@Q(@B1,@BR),IPLIPQ(,@BR)			SET SIO FOR READ
001F	5E	00	42 FF		538	ALC	IPL150+@Q(@B1,@BR),IPLIPQ(,@BR)			SET SIO FOR READ
0023	71	A6	72		539	IPL100	LIO IPLDFC(,@BR),@SPINA+@DFCR			LOAD FOR SEEK
0026	F3	00	00		540	IPL110	SIO @SKCTL,@DSEEK			SEEK
					541	*				
0029	7D	01	FE		542	CLI	IPLIDR(,@BR),IPLBIS			DSM OR BIS IPL ?
002C	F2	81	0C		543	JE	IPL140			YES - CONTINUE BIS IPL
					544	*				
					545	***	DSM IPL PROCEDURE			
					546	*				
002F	5C	01	6B 6D		547	MVC	IPLCOR(@CADDR,@BR),IPL180(,@BR)			DSM CADDR
0033	5C	00	75 6E		548	MVC	IPLCRF+@DSAD(@B1,@BR),IPL0BC(,@BR)			DSM DADDR
0037	5C	01	57 6D		549	MVC	IPL170+@OP1(@CADDR,@BR),IPL180(,@BR)			DSM EXEC ADDR
					550	*				
003B	71	A6	70		551	IPL140	LIO IPLFCR(,@BR),@SPINA+@DFCR			LOAD DFDCR
003E	71	A4	6B		552	LIO	IPLCOR(,@BR),@SPINA+@DFDR			LOAD DFDCR FOR READ
0041	F3	01	00		553	IPL150	SIO @DCTRW,@DREAD			READ
0044	D1	A4	44		554	IPL160	TIO IPL160(,@BR),@SPINA+@DFDR			WAIT FOR COMPLETION
0047	D1	A0	58		555	TIO	IPLERR(,@BR),@SPINA+@DERR			BRANCH IF ERRORS
004A	7D	A8	FF		556	CLI	IPLIPQ(,@BR),X'A8'			IPL FROM FIXED DISK ?
004D	F2	01	04		557	JNE	IPL170			NO - EXIT
0050	3C	01	05FF		558	MVI	X'05FF',X'01'			SET FIXED DISK IPL INDR
0054	C0	87	0000		559	IPL170	B IPLSTA			START EXECUTION OF PROGRAM
					560	*				
					561	***	ERROR PROCESSING			
					562	*				
				0058	563	IPLERR	EQU *			ENTRY FROM ERROR DETECTION
0058	5E	00	69 68		564	ALC	IPLCTR(@B1,@BR),IPLONE(,@BR)			COUNT OF TRY'S
005C	7D	10	69		565	CLI	IPLCTR(,@BR),X'10'			16 TRY'S ?
005F	D0	82	23		566	BL	IPL100(,@BR)			NO - TRY IT AGAIN
					567	*				
0062	F0	6C	02		568	IPLHPL	HPL @CADDR,@HIPLE			HARD ERROR
0065	D0	87	62		569	B	IPLHPL(,@BR)			SORRY, HARD HALT
					570	*				
0068	01			0068	571	IPLONE	DC XL1'01'			INCREMENT
0069				0069	572	IPLCTR	DS XL1			COUNTER

##0TRK - BOOTSTRAP LOADER

ERR	LOC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT	VER 15, MOD 00	20/09/15	PAGE 14
	0069				573	ORG	*-1			RESET
	0069	00		0069	574	DC	XL1'00'			INITIALIZE TO ZERO
	006A	0000		006B	575	IPLCOR	DC XL2'0000'			DFDCR ADDR
					576	*				
	006C	1800		006D	577	IPL180	DC XL2'1800'			DSM CADDR & EXEC ADDR
	006E	BC		006E	578	IPL0BC	DC XL1'BC'			DSM DADDR (0/0/15)
					579	*				
	006F	1273		0070	580	IPLFCR	DC AL2(IPLCRF+IPLREL-IPLBAS)			RELOCATED DPL
	0071	1277		0072	581	IPLDFC	DC AL2(IPLDCF+IPLREL-IPLBAS)			RELOCATED DPL
				0073	582	IPLCRF	EQU *			PSEUDO DPL
	0073	000080		0075	583		DC XL3'000080'			CYL 0, TRK 1, SCTR 0
	0076	07		0076	584		DC AL1(IPLCNT)			7 SCTRS
				0077	585	IPLDCF	EQU *			PSEUDO DPL
	0077	00008000		007A	586		DC XL4'00008000'			
					587	*				
	00FE				588	ORG	IPLBAS+X'00FE'			FORCE TO SECTOR 0 END
	00FE			00FE	589	DS	XL1			DSM OR BIS SELECTOR INDR
	00FE				590	ORG	*-1			RESET
	00FE	01		00FE	591	DC	XL1'01'			INITIALIZE FOR BIS SYSTEM
					592	*				
	00FF			00FF	593	DS	XL1			DISK DRIVE R1 OR F1 INDR
	00FF				594	ORG	*-1			RESET
	00FF	A8		00FF	595	DC	XL1'A8'			INITIALIZE FOR FIXED DISK
					596	*				
				0100	597	IPLXXX	EQU *			END OF IPL BOOTSTRAP LOADER
				0100	598	IPLENG	EQU IPLXXX-IPLBAS			LENGTH OF RELOCATED SEGMENT
				0100	599	IPLEND	EQU *-IPLSRT			REAL END LOCATION
					600	*				
	0100				601	ORG	*,256,0			

##0TRK BIS - CYL 0, TRACK 0, SECTOR 01

ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT VER 15, MOD 00 20/09/15 PAGE 15

603 *
604 * THIS MODULE CONTAINS THE 3.7 SOURCE CODE
605 * TO INITIALIZE THE CONFIGURATION RECORD
606 *
607 DC 256XL1'00' INITIALIZE TO ZEROS
608 *

0100 0000000000000000 01FF

			610	*			
			611	*		THIS MODULE CONTAINS THE 3.7 SOURCE CODE	
			612	*		TO CREATE THE INITIAL 3.7 BIS VOLUME LABEL	
			613	*			
0200	E5D6D3	0202	614		DC	CL3'VOL'	VOLUME LABEL RECORD IDENTIFIER
0203	E5D6D3C6F140	0208	615		DC	CL6'VOLF1'	USER SUPPLIED VOLUME LABEL
0209	0024	020A	616		DC	XL2'0024'	VTOC POINTER
020B	FF	020B	617		DC	XL1'FF'	SCP NOT ON SYSTEM BYTE
020C	0000000000000000	0224	618		DC	XL25'00'	RESERVED FOR SCP
0225	FF	0225	619		DC	XL1'FF'	SCP NOT ON SYSTEM BYTE
0226	0000000000000000	0251	620		DC	XL44'00'	RESERVED FOR SCP
0252	4040404040404040	025B	621		DC	10CL1'	USER SUPPLIED OWNER ID
025C	CB	025C	622		DC	XL1'CB'	NO. CYLINDERS
			623	*			DEVICE CONSTANTS
025D	02	025D	624		DC	XL1'02'	* 2 TRACKS/CYLINDER
025E	18	025E	625		DC	XL1'18'	* 24 SECTORS/TRACK
025F	0100	0260	626		DC	XL2'0100'	* 256 BYTES/SECTOR
0261	0000000000000000	0269	627		DC	9XL1'00'	* RESERVED
026A	0000000000000000	0275	628		DC	6XL2'0000'	ALTERNATE TRACK ASSIGNMENTS
			629	*			
			630	*			TRACK USAGE MASK
			631	*			
0276	C0	0276	632		DC	XL1'C0'	CYL'S 200-202 OPEN END OF DISK
0277	0000000000	027B	633		DC	5XL1'00'	CYL'S 180-199 OPEN
027C	0000000000000000	0295	634		DC	26XL1'00'	CYL'S 074-179 OPEN
0296	0F	0296	635		DC	XL1'0F'	CYL'S 059-073 HELPTTEXT
0297	FFFFFF	0299	636		DC	3XL1'FF'	CYL'S 059-073 HELPTTEXT
029A	C0	029A	637		DC	XL1'C0'	CYL'S 059-073 HELPTTEXT
029B	0003	029C	638		DC	XL2'0003'	CYL'S 049-058 OPEN
029D	FF	029D	639		DC	XL1'FF'	CYL'S 012-048 SYS.PROG. FILE
029E	FFFFFFFFFFFFFFFF	02A5	640		DC	8XL1'FF'	*
02A6	F000	02A7	641		DC	XL2'F000'	CYL'S 004-009 OPEN, 010&011 SPF
02A8	FF	02A8	642		DC	XL1'FF'	CYL'S 000-003 RESERVED
02A9	0000000000000000	02C0	643		DC	24XL1'00'	RESERVED DES
02C1	0000000000000000	02D7	644		DC	23XL1'00'	RESERVED
02D8	FFFFFFFFFFFFFFFF	02EF	645		DC	24XL1'FF'	SUSPECTED DEFECTIVE TRACKS
			646	*			
			647	*			BIS FILES INFORMATION AREA
			648	*			
02F0	02	02F0	649		DC	XL1'02'	HELP FILE VTOC TAG NO.
02F1	3B00	02F2	650		DC	XL2'3B00'	HELP FILE DADDR
02F3	00	02F3	651		DC	XL1'00'	PTF DATA FILE VTOC TAG NO.
02F4	00	02F4	652		DC	XL1'00'	PTF DATA FILE SIZE IN CYL'S
02F5	0000	02F6	653		DC	XL2'0000'	PTF DATA FILE STARTING DADDR
02F7	00	02F7	654		DC	XL1'00'	FILE LIB. SIZE IN CYL'S
02F8	00	02F8	655		DC	XL1'00'	FILE LIB. VTOC TAG NO.
02F9	00	02F9	656		DC	XL1'00'	WORK AREA VTOC TAG NO.
02FA	01	02FA	657		DC	XL1'01'	SYS.PROG.FILE VTOC TAG NO.
02FB	0A00	02FC	658		DC	XL2'0A00'	SYS.PROG.FILE STARTING DADDR
			659	*			
			660	*			OVERLAY WITH TEMPORARY SPF DADDR
			661	*			
02FB			662		ORG	*-2	
02FB	0A00	02FC	663		DC	XL2'0A00'	SYS.PROG.FILE
02FD	0000	02FE	664		DC	XL2'0000'	FILE LIB. STARTING DISK ADDR.
02FF	80	02FF	665		DC	XL1'80'	BIS FILES INDICATOR

##0TRK PID PACK VOLUME LABEL - CYL 0, TRACK 0, SECTOR 02

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	VER 15, MOD 00	20/09/15	PAGE 17
02FF			666	ORG	*-1			OVERLAY FILES INDICATOR
02FF 84		02FF	667	DC	XL1 '84'			SPECIFY SPF AND HELP FILE
			668 *					

##0TRK PID PACK OBR & SDR - CYL 0, TRACK 0, SECTOR 03-08

ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT VER 15, MOD 00 20/09/15 PAGE 18

0300	000000000000000000	06FF	670	DC	4XL256'00'	SDR AREA
			671 *		CYL 0, TRACK 0, SECTOR 10 - 13	
0700	01FF01FF	0703	672	DC	XL4'01FF01FF'	OBR INITIAL POINTERS
0704	000000000000000000	08FF	673	DC	2XL254'00'	OBR AREA
			674 *			

##0TRK PID PACK VTOC INDEX - CYL 0, TRACK 0, SECTOR 09-10

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	VER 15, MOD 00 20/09/15 PAGE 19
			676 *			
			677 *		THIS MODULE CONTAINS THE 3.7 SOURCE CODE	
			678 *		TO CREATE THE INITIAL VTOC INDEX	
			679 *			
0900	000000000000	0905	680	DC	6XL1'00'	FIRST 6 BYTES UNUSED
0906	E2E8E2E3C5D44040	090D	682	DC	CL8'SYSTEM'	SPF FILE NAME
090E	5C	090E	683	DC	XL1'5C'	SECTOR NUMBER
090F	7F	090F	684	DC	XL1'7F'	DISPLACEMENT WITHIN SECTOR
			685 *			
0910	C8C5D3D7E3C5E7E3	0917	686	DC	CL8'HELPTXT'	HELPTXT FILE NAME
0918	5C	0918	687	DC	XL1'5C'	SECTOR NUMBER
0919	3F	0919	688	DC	XL1'3F'	DISPLACEMENT WITHIN SECTOR
			689 *			
091A	0000000000000000	0921	690	DC	8XL1'00'	SPF FILE NAME
0922	58	0922	691	DC	XL1'58'	SECTOR NUMBER
0923	FF	0923	692	DC	XL1'FF'	DISPLACEMENT WITHIN SECTOR
			693 *			
0924	0000000000000000	092B	694	DC	8XL1'00'	SPF FILE NAME
092C	58	092C	695	DC	XL1'58'	SECTOR NUMBER
092D	BF	092D	696	DC	XL1'BF'	DISPLACEMENT WITHIN SECTOR
			697 *			
092E	0000000000000000	0935	698	DC	8XL1'00'	SPF FILE NAME
0936	58	0936	699	DC	XL1'58'	SECTOR NUMBER
0937	7F	0937	700	DC	XL1'7F'	DISPLACEMENT WITHIN SECTOR
			701 *			
0938	0000000000000000	093F	702	DC	8XL1'00'	SPF FILE NAME
0940	58	0940	703	DC	XL1'58'	SECTOR NUMBER
0941	3F	0941	704	DC	XL1'3F'	DISPLACEMENT WITHIN SECTOR
			705 *			
0942	0000000000000000	0949	706	DC	8XL1'00'	SPF FILE NAME
094A	54	094A	707	DC	XL1'54'	SECTOR NUMBER
094B	FF	094B	708	DC	XL1'FF'	DISPLACEMENT WITHIN SECTOR
			709 *			
094C	0000000000000000	0953	710	DC	8XL1'00'	SPF FILE NAME
0954	54	0954	711	DC	XL1'54'	SECTOR NUMBER
0955	BF	0955	712	DC	XL1'BF'	DISPLACEMENT WITHIN SECTOR
			713 *			
0956	0000000000000000	095D	714	DC	8XL1'00'	SPF FILE NAME
095E	54	095E	715	DC	XL1'54'	SECTOR NUMBER
095F	7F	095F	716	DC	XL1'7F'	DISPLACEMENT WITHIN SECTOR
			717 *			
0960	0000000000000000	0967	718	DC	8XL1'00'	SPF FILE NAME
0968	54	0968	719	DC	XL1'54'	SECTOR NUMBER
0969	3F	0969	720	DC	XL1'3F'	DISPLACEMENT WITHIN SECTOR
			721 *			
096A	0000000000000000	0971	722	DC	8XL1'00'	SPF FILE NAME
0972	50	0972	723	DC	XL1'50'	SECTOR NUMBER
0973	FF	0973	724	DC	XL1'FF'	DISPLACEMENT WITHIN SECTOR
			725 *			
0974	0000000000000000	097B	726	DC	8XL1'00'	SPF FILE NAME
097C	50	097C	727	DC	XL1'50'	SECTOR NUMBER
097D	BF	097D	728	DC	XL1'BF'	DISPLACEMENT WITHIN SECTOR
			729 *			
097E	0000000000000000	0985	730	DC	8XL1'00'	SPF FILE NAME
0986	50	0986	731	DC	XL1'50'	SECTOR NUMBER

##0TRK PID PACK VTOC INDEX - CYL 0, TRACK 0, SECTOR 09-10

ERR	LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	VER 15, MOD 00	20/09/15	PAGE 20
0987	7F		0987	732		DC XL1'7F'			DISPLACEMENT WITHIN SECTOR
				733	*				
0988	0000000000000000		098F	734		DC 8XL1'00'			SPF FILE NAME
0990	50		0990	735		DC XL1'50'			SECTOR NUMBER
0991	3F		0991	736		DC XL1'3F'			DISPLACEMENT WITHIN SECTOR
				737	*				
0992	0000000000000000		0999	738		DC 8XL1'00'			SPF FILE NAME
099A	4C		099A	739		DC XL1'4C'			SECTOR NUMBER
099B	FF		099B	740		DC XL1'FF'			DISPLACEMENT WITHIN SECTOR
				741	*				
099C	0000000000000000		09A3	742		DC 8XL1'00'			SPF FILE NAME
09A4	4C		09A4	743		DC XL1'4C'			SECTOR NUMBER
09A5	BF		09A5	744		DC XL1'BF'			DISPLACEMENT WITHIN SECTOR
				745	*				
09A6	0000000000000000		09AD	746		DC 8XL1'00'			SPF FILE NAME
09AE	4C		09AE	747		DC XL1'4C'			SECTOR NUMBER
09AF	7F		09AF	748		DC XL1'7F'			DISPLACEMENT WITHIN SECTOR
				749	*				
09B0	0000000000000000		09B7	750		DC 8XL1'00'			SPF FILE NAME
09B8	4C		09B8	751		DC XL1'4C'			SECTOR NUMBER
09B9	3F		09B9	752		DC XL1'3F'			DISPLACEMENT WITHIN SECTOR
				753	*				
09BA	0000000000000000		09C1	754		DC 8XL1'00'			SPF FILE NAME
09C2	48		09C2	755		DC XL1'48'			SECTOR NUMBER
09C3	FF		09C3	756		DC XL1'FF'			DISPLACEMENT WITHIN SECTOR
				757	*				
09C4	0000000000000000		09CB	758		DC 8XL1'00'			SPF FILE NAME
09CC	48		09CC	759		DC XL1'48'			SECTOR NUMBER
09CD	BF		09CD	760		DC XL1'BF'			DISPLACEMENT WITHIN SECTOR
				761	*				
09CE	0000000000000000		09D5	762		DC 8XL1'00'			SPF FILE NAME
09D6	48		09D6	763		DC XL1'48'			SECTOR NUMBER
09D7	7F		09D7	764		DC XL1'7F'			DISPLACEMENT WITHIN SECTOR
				765	*				
09D8	0000000000000000		09DF	766		DC 8XL1'00'			SPF FILE NAME
09E0	48		09E0	767		DC XL1'48'			SECTOR NUMBER
09E1	3F		09E1	768		DC XL1'3F'			DISPLACEMENT WITHIN SECTOR
				769	*				
09E2	0000000000000000		09E9	770		DC 8XL1'00'			SPF FILE NAME
09EA	44		09EA	771		DC XL1'44'			SECTOR NUMBER
09EB	FF		09EB	772		DC XL1'FF'			DISPLACEMENT WITHIN SECTOR
				773	*				
09EC	0000000000000000		09F3	774		DC 8XL1'00'			SPF FILE NAME
09F4	44		09F4	775		DC XL1'44'			SECTOR NUMBER
09F5	BF		09F5	776		DC XL1'BF'			DISPLACEMENT WITHIN SECTOR
				777	*				
09F6	0000000000000000		09FD	778		DC 8XL1'00'			SPF FILE NAME
09FE	44		09FE	779		DC XL1'44'			SECTOR NUMBER
09FF	7F		09FF	780		DC XL1'7F'			DISPLACEMENT WITHIN SECTOR
				781	*				
0A00	0000000000000000		0A07	782		DC 8XL1'00'			SPF FILE NAME
0A08	44		0A08	783		DC XL1'44'			SECTOR NUMBER
0A09	3F		0A09	784		DC XL1'3F'			DISPLACEMENT WITHIN SECTOR
				785	*				
0A0A	0000000000000000		0A11	786		DC 8XL1'00'			SPF FILE NAME
0A12	40		0A12	787		DC XL1'40'			SECTOR NUMBER

##0TRK PID PACK VTOC INDEX - CYL 0, TRACK 0, SECTOR 09-10

ERR	LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	VER 15, MOD 00	20/09/15	PAGE 21
	0A13	FF	0A13	788		DC XL1'FF'			DISPLACEMENT WITHIN SECTOR
				789	*				
	0A14	0000000000000000	0A1B	790		DC 8XL1'00'			SPF FILE NAME
	0A1C	40	0A1C	791		DC XL1'40'			SECTOR NUMBER
	0A1D	BF	0A1D	792		DC XL1'BF'			DISPLACEMENT WITHIN SECTOR
				793	*				
	0A1E	0000000000000000	0A25	794		DC 8XL1'00'			SPF FILE NAME
	0A26	40	0A26	795		DC XL1'40'			SECTOR NUMBER
	0A27	7F	0A27	796		DC XL1'7F'			DISPLACEMENT WITHIN SECTOR
				797	*				
	0A28	0000000000000000	0A2F	798		DC 8XL1'00'			SPF FILE NAME
	0A30	40	0A30	799		DC XL1'40'			SECTOR NUMBER
	0A31	3F	0A31	800		DC XL1'3F'			DISPLACEMENT WITHIN SECTOR
				801	*				
	0A32	0000000000000000	0A39	802		DC 8XL1'00'			SPF FILE NAME
	0A3A	3C	0A3A	803		DC XL1'3C'			SECTOR NUMBER
	0A3B	FF	0A3B	804		DC XL1'FF'			DISPLACEMENT WITHIN SECTOR
				805	*				
	0A3C	0000000000000000	0A43	806		DC 8XL1'00'			SPF FILE NAME
	0A44	3C	0A44	807		DC XL1'3C'			SECTOR NUMBER
	0A45	BF	0A45	808		DC XL1'BF'			DISPLACEMENT WITHIN SECTOR
				809	*				
	0A46	0000000000000000	0A4D	810		DC 8XL1'00'			SPF FILE NAME
	0A4E	3C	0A4E	811		DC XL1'3C'			SECTOR NUMBER
	0A4F	7F	0A4F	812		DC XL1'7F'			DISPLACEMENT WITHIN SECTOR
				813	*				
	0A50	0000000000000000	0A57	814		DC 8XL1'00'			SPF FILE NAME
	0A58	3C	0A58	815		DC XL1'3C'			SECTOR NUMBER
	0A59	3F	0A59	816		DC XL1'3F'			DISPLACEMENT WITHIN SECTOR
				817	*				
	0A5A	0000000000000000	0A61	818		DC 8XL1'00'			SPF FILE NAME
	0A62	38	0A62	819		DC XL1'38'			SECTOR NUMBER
	0A63	FF	0A63	820		DC XL1'FF'			DISPLACEMENT WITHIN SECTOR
				821	*				
	0A64	0000000000000000	0A6B	822		DC 8XL1'00'			SPF FILE NAME
	0A6C	38	0A6C	823		DC XL1'38'			SECTOR NUMBER
	0A6D	BF	0A6D	824		DC XL1'BF'			DISPLACEMENT WITHIN SECTOR
				825	*				
	0A6E	0000000000000000	0A75	826		DC 8XL1'00'			SPF FILE NAME
	0A76	38	0A76	827		DC XL1'38'			SECTOR NUMBER
	0A77	7F	0A77	828		DC XL1'7F'			DISPLACEMENT WITHIN SECTOR
				829	*				
	0A78	0000000000000000	0A7F	830		DC 8XL1'00'			SPF FILE NAME
	0A80	38	0A80	831		DC XL1'38'			SECTOR NUMBER
	0A81	3F	0A81	832		DC XL1'3F'			DISPLACEMENT WITHIN SECTOR
				833	*				
	0A82	0000000000000000	0A89	834		DC 8XL1'00'			SPF FILE NAME
	0A8A	34	0A8A	835		DC XL1'34'			SECTOR NUMBER
	0A8B	FF	0A8B	836		DC XL1'FF'			DISPLACEMENT WITHIN SECTOR
				837	*				
	0A8C	0000000000000000	0A93	838		DC 8XL1'00'			SPF FILE NAME
	0A94	34	0A94	839		DC XL1'34'			SECTOR NUMBER
	0A95	BF	0A95	840		DC XL1'BF'			DISPLACEMENT WITHIN SECTOR
				841	*				
	0A96	0000000000000000	0A9D	842		DC 8XL1'00'			SPF FILE NAME
	0A9E	34	0A9E	843		DC XL1'34'			SECTOR NUMBER

##0TRK PID PACK VTOC INDEX - CYL 0, TRACK 0, SECTOR 09-10

ERR	LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	VER 15, MOD 00	20/09/15	PAGE 22
	0A9F	7F	0A9F	844		DC XL1'7F'			DISPLACEMENT WITHIN SECTOR
				845	*				
	0AA0	0000000000000000	0AA7	846		DC 8XL1'00'			SPF FILE NAME
	0AA8	34	0AA8	847		DC XL1'34'			SECTOR NUMBER
	0AA9	3F	0AA9	848		DC XL1'3F'			DISPLACEMENT WITHIN SECTOR
				849	*				
	0AAA	0000000000000000	0AB1	850		DC 8XL1'00'			SPF FILE NAME
	0AB2	30	0AB2	851		DC XL1'30'			SECTOR NUMBER
	0AB3	FF	0AB3	852		DC XL1'FF'			DISPLACEMENT WITHIN SECTOR
				853	*				
	0AB4	0000000000000000	0ABB	854		DC 8XL1'00'			SPF FILE NAME
	0ABC	30	0ABC	855		DC XL1'30'			SECTOR NUMBER
	0ABD	BF	0ABD	856		DC XL1'BF'			DISPLACEMENT WITHIN SECTOR
				857	*				
	0ABE	0000000000000000	0AC5	858		DC 8XL1'00'			SPF FILE NAME
	0AC6	30	0AC6	859		DC XL1'30'			SECTOR NUMBER
	0AC7	7F	0AC7	860		DC XL1'7F'			DISPLACEMENT WITHIN SECTOR
				861	*				
	0AC8	0000000000000000	0ACF	862		DC 8XL1'00'			SPF FILE NAME
	0AD0	30	0AD0	863		DC XL1'30'			SECTOR NUMBER
	0AD1	3F	0AD1	864		DC XL1'3F'			DISPLACEMENT WITHIN SECTOR
				865	*				
	0AD2	0000000000000000	0AD9	866		DC 8XL1'00'			SPF FILE NAME
	0ADA	2C	0ADA	867		DC XL1'2C'			SECTOR NUMBER
	0ADB	FF	0ADB	868		DC XL1'FF'			DISPLACEMENT WITHIN SECTOR
				869	*				
	0ADC	0000000000000000	0AE3	870		DC 8XL1'00'			SPF FILE NAME
	0AE4	2C	0AE4	871		DC XL1'2C'			SECTOR NUMBER
	0AE5	BF	0AE5	872		DC XL1'BF'			DISPLACEMENT WITHIN SECTOR
				873	*				
	0AE6	0000000000000000	0AED	874		DC 8XL1'00'			SPF FILE NAME
	0AEE	2C	0AEE	875		DC XL1'2C'			SECTOR NUMBER
	0AEF	7F	0AEF	876		DC XL1'7F'			DISPLACEMENT WITHIN SECTOR
				877	*				
	0AF0	0000000000000000	0AF7	878		DC 8XL1'00'			SPF FILE NAME
	0AF8	2C	0AF8	879		DC XL1'2C'			SECTOR NUMBER
	0AF9	3F	0AF9	880		DC XL1'3F'			DISPLACEMENT WITHIN SECTOR
				881	*				
	0AFA	0000000000	0AFE	882		DC 5XL1'00'			NOT USED
	0AFF	30	0AFF	883		DC XL1'30'			NO. OF FREE TAGS AVAILABLE
				884	*				

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	VER 15, MOD 00 20/09/15 PAGE 23
			886 *		
			887 *	THIS MODULE CONTAINS THE 3.7 SOURCE CODE	
			888 *	TO INITIALIZE THE FORMAT 1 ENTRIES	
			889 *		
0B00 32		0B00	890	DC XL1'32'	INITIALIZE TAG
0B01 0000000000000000		0B3F	891	DC 63XL1'00'	INITIALIZE ENTRY
			892 *		
0B40 31		0B40	893	DC XL1'31'	INITIALIZE TAG
0B41 0000000000000000		0B7F	894	DC 63XL1'00'	INITIALIZE ENTRY
			895 *		
0B80 30		0B80	896	DC XL1'30'	INITIALIZE TAG
0B81 0000000000000000		0BBF	897	DC 63XL1'00'	INITIALIZE ENTRY
			898 *		
0BC0 2F		0BC0	899	DC XL1'2F'	INITIALIZE TAG
0BC1 0000000000000000		0BFF	900	DC 63XL1'00'	INITIALIZE ENTRY
			901 *		
0C00 2E		0C00	902	DC XL1'2E'	INITIALIZE TAG
0C01 0000000000000000		0C3F	903	DC 63XL1'00'	INITIALIZE ENTRY
			904 *		
0C40 2D		0C40	905	DC XL1'2D'	INITIALIZE TAG
0C41 0000000000000000		0C7F	906	DC 63XL1'00'	INITIALIZE ENTRY
			907 *		
0C80 2C		0C80	908	DC XL1'2C'	INITIALIZE TAG
0C81 0000000000000000		0CBF	909	DC 63XL1'00'	INITIALIZE ENTRY
			910 *		
0CC0 2B		0CC0	911	DC XL1'2B'	INITIALIZE TAG
0CC1 0000000000000000		0CFF	912	DC 63XL1'00'	INITIALIZE ENTRY
			913 *		
0D00 2A		0D00	914	DC XL1'2A'	INITIALIZE TAG
0D01 0000000000000000		0D3F	915	DC 63XL1'00'	INITIALIZE ENTRY
			916 *		
0D40 29		0D40	917	DC XL1'29'	INITIALIZE TAG
0D41 0000000000000000		0D7F	918	DC 63XL1'00'	INITIALIZE ENTRY
			919 *		
0D80 28		0D80	920	DC XL1'28'	INITIALIZE TAG
0D81 0000000000000000		0DBF	921	DC 63XL1'00'	INITIALIZE ENTRY
			922 *		
0DC0 27		0DC0	923	DC XL1'27'	INITIALIZE TAG
0DC1 0000000000000000		0DFB	924	DC 63XL1'00'	INITIALIZE ENTRY
			925 *		
0E00 26		0E00	926	DC XL1'26'	INITIALIZE TAG
0E01 0000000000000000		0E3F	927	DC 63XL1'00'	INITIALIZE ENTRY
			928 *		
0E40 25		0E40	929	DC XL1'25'	INITIALIZE TAG
0E41 0000000000000000		0E7F	930	DC 63XL1'00'	INITIALIZE ENTRY
			931 *		
0E80 24		0E80	932	DC XL1'24'	INITIALIZE TAG
0E81 0000000000000000		0EBF	933	DC 63XL1'00'	INITIALIZE ENTRY
			934 *		
0EC0 23		0EC0	935	DC XL1'23'	INITIALIZE TAG
0EC1 0000000000000000		0EFF	936	DC 63XL1'00'	INITIALIZE ENTRY
			937 *		
0F00 22		0F00	938	DC XL1'22'	INITIALIZE TAG
0F01 0000000000000000		0F3F	939	DC 63XL1'00'	INITIALIZE ENTRY
			940 *		
0F40 21		0F40	941	DC XL1'21'	INITIALIZE TAG

##0TRK PID PACK FORMAT 1 - CYL 0, TRACK 0, SECTOR 11-24

ERR	LOC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT	VER	MOD	DATE	PAGE	NO
		0F41	0000000000000000	0F7F	942	DC	63XL1'00'					
					943	*						
		0F80	20	0F80	944	DC	XL1'20'					
		0F81	0000000000000000	0FBF	945	DC	63XL1'00'					
					946	*						
		0FC0	1F	0FC0	947	DC	XL1'1F'					
		0FC1	0000000000000000	0FFF	948	DC	63XL1'00'					
					949	*						
		1000	1E	1000	950	DC	XL1'1E'					
		1001	0000000000000000	103F	951	DC	63XL1'00'					
					952	*						
		1040	1D	1040	953	DC	XL1'1D'					
		1041	0000000000000000	107F	954	DC	63XL1'00'					
					955	*						
		1080	1C	1080	956	DC	XL1'1C'					
		1081	0000000000000000	10BF	957	DC	63XL1'00'					
					958	*						
		10C0	1B	10C0	959	DC	XL1'1B'					
		10C1	0000000000000000	10FF	960	DC	63XL1'00'					
					961	*						
		1100	1A	1100	962	DC	XL1'1A'					
		1101	0000000000000000	113F	963	DC	63XL1'00'					
					964	*						
		1140	19	1140	965	DC	XL1'19'					
		1141	0000000000000000	117F	966	DC	63XL1'00'					
					967	*						
		1180	18	1180	968	DC	XL1'18'					
		1181	0000000000000000	11BF	969	DC	63XL1'00'					
					970	*						
		11C0	17	11C0	971	DC	XL1'17'					
		11C1	0000000000000000	11FF	972	DC	63XL1'00'					
					973	*						
		1200	16	1200	974	DC	XL1'16'					
		1201	0000000000000000	123F	975	DC	63XL1'00'					
					976	*						
		1240	15	1240	977	DC	XL1'15'					
		1241	0000000000000000	127F	978	DC	63XL1'00'					
					979	*						
		1280	14	1280	980	DC	XL1'14'					
		1281	0000000000000000	12BF	981	DC	63XL1'00'					
					982	*						
		12C0	13	12C0	983	DC	XL1'13'					
		12C1	0000000000000000	12FF	984	DC	63XL1'00'					
					985	*						
		1300	12	1300	986	DC	XL1'12'					
		1301	0000000000000000	133F	987	DC	63XL1'00'					
					988	*						
		1340	11	1340	989	DC	XL1'11'					
		1341	0000000000000000	137F	990	DC	63XL1'00'					
					991	*						
		1380	10	1380	992	DC	XL1'10'					
		1381	0000000000000000	13BF	993	DC	63XL1'00'					
					994	*						
		13C0	0F	13C0	995	DC	XL1'0F'					
		13C1	0000000000000000	13FF	996	DC	63XL1'00'					
					997	*						

##0TRK PID PACK FORMAT 1 - CYL 0, TRACK 0, SECTOR 11-24

ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT VER 15, MOD 00 20/09/15 PAGE 25

1400	0E	1400	998	DC	XL1'0E'	INITIALIZE TAG
1401	0000000000000000	143F	999	DC	63XL1'00'	INITIALIZE ENTRY
			1000	*		
1440	0D	1440	1001	DC	XL1'0D'	INITIALIZE TAG
1441	0000000000000000	147F	1002	DC	63XL1'00'	INITIALIZE ENTRY
			1003	*		
1480	0C	1480	1004	DC	XL1'0C'	INITIALIZE TAG
1481	0000000000000000	14BF	1005	DC	63XL1'00'	INITIALIZE ENTRY
			1006	*		
14C0	0B	14C0	1007	DC	XL1'0B'	INITIALIZE TAG
14C1	0000000000000000	14FF	1008	DC	63XL1'00'	INITIALIZE ENTRY
			1009	*		
1500	0A	1500	1010	DC	XL1'0A'	INITIALIZE TAG
1501	0000000000000000	153F	1011	DC	63XL1'00'	INITIALIZE ENTRY
			1012	*		
1540	09	1540	1013	DC	XL1'09'	INITIALIZE TAG
1541	0000000000000000	157F	1014	DC	63XL1'00'	INITIALIZE ENTRY
			1015	*		
1580	08	1580	1016	DC	XL1'08'	INITIALIZE TAG
1581	0000000000000000	15BF	1017	DC	63XL1'00'	INITIALIZE ENTRY
			1018	*		
15C0	07	15C0	1019	DC	XL1'07'	INITIALIZE TAG
15C1	0000000000000000	15FF	1020	DC	63XL1'00'	INITIALIZE ENTRY
			1021	*		
1600	06	1600	1022	DC	XL1'06'	INITIALIZE TAG
1601	0000000000000000	163F	1023	DC	63XL1'00'	INITIALIZE ENTRY
			1024	*		
1640	05	1640	1025	DC	XL1'05'	INITIALIZE TAG
1641	0000000000000000	167F	1026	DC	63XL1'00'	INITIALIZE ENTRY
			1027	*		
1680	04	1680	1028	DC	XL1'04'	INITIALIZE TAG
1681	0000000000000000	16BF	1029	DC	63XL1'00'	INITIALIZE ENTRY
			1030	*		
16C0	03	16C0	1031	DC	XL1'03'	INITIALIZE TAG
16C1	0000000000000000	16FF	1032	DC	63XL1'00'	INITIALIZE ENTRY
			1034	*		
			1035	*	HELP FILE LABEL	
			1036	*		
1700	020000	1702	1037	DC	XL3'020000'	INITLZ TAG AND SCP RESERVED AREA
1703	C8C5D3D7E3C5E7E3	170A	1038	DC	CL8'HELPTXT'	FILE LABEL
170B	0000000000000000	1711	1039	DC	7XL1'00'	SCP
1712	00	1712	1040	DC	XL1'00'	FILE TYPE
1713	0000000000000000	171E	1041	DC	12XL1'00'	SCP
171F	3B00	1720	1043	DC	XL2'3B00'	STARTING DADDR OF FILE
1721	4980	1722	1044	DC	XL2'4980'	END DADDR OF FILE
1723	0000000000000000	173F	1045	DC	29XL1'00'	USED BY COMMERCIAL SYSTEM
			1046	*		
			1047	*	SYSTEM PROGRAM FILE LABEL	
			1048	*		
1740	010000	1742	1049	DC	XL3'010000'	INITLZ TAG AND SCP RESERVED AREA
1743	E2E8E2E3C5D44040	174A	1050	DC	CL8'SYSTEM'	FILE LABEL
174B	0000000000000000	1751	1051	DC	7XL1'00'	SCP
1752	00	1752	1052	DC	XL1'00'	FILE TYPE
1753	0000000000000000	175E	1053	DC	12XL1'00'	SCP

##0TRK PID PACK FORMAT 1 - CYL 0, TRACK 0, SECTOR 11-24

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	VER 15, MOD 00 20/09/15 PAGE 26
175F	0A00	1760	1055	DC	XL2'0A00'	STARTING DADDR OF FILE
1761	3080	1762	1056	DC	XL2'3080'	END DADDR OF FILE
1763	000000000000000000	177F	1057	DC	29XL1'00'	USED BY COMMERCIAL SYSTEM
			1058 *			
1780	000000000000000000	17FF	1059	DC	128XL1'00'	REMAINDER OF SECTOR
			1060 *			
		FFFF	1061	END		

TOTAL STATEMENTS IN ERROR IN THIS ASSEMBLY = 0

CROSS REFERENCE

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
\$DOLAR	001	005B	0069	
##OTRK	001	0000	0003	
@ALTFI	001	0001	0251	
@ARR	001	0008	0018	
@ASIGN	001	007C	0072	
@ASTER	001	005C	0070	
@BCRDL	001	0050	0089	
@BE	001	0081	0044	
@BF	001	0090	0053	
@BH	001	0084	0042	
@BKSPC	001	0010	0347	
@BL	001	0082	0043	
@BLANK	001	0040	0066	
@BM	001	0082	0055	
@BNE	001	0001	0047	
@BNH	001	0004	0045	
@BNL	001	0002	0046	
@BNM	001	0002	0058	
@BNOL	001	0020	0051	
@BNOZ	001	0008	0050	
@BNP	001	0004	0057	
@BNZ	001	0001	0059	
@BOL	001	00A0	0049	
@BOZ	001	0088	0048	
@BP	001	0084	0054	
@BR	001	0001	0015	0519 0528* 0529 0530 0537 0537 0538 0538 0539 0542 0547 0547 0548 0548 0549 0549 0551 0552 0554 0555 0556 0564 0564 0565 0566 0569
@BT	001	0010	0052	
@BZ	001	0081	0056	
@BZ37B	001	00F2	0360	
@B1	001	0001	0064	0529* 0537 0538 0548 0564
@CADDR	001	0002	0142	0547 0549 0568
@CARDL	001	0060	0088	
@CC37B	001	0000	0356	
@CD37B	001	00F0	0374	
@CHARA	001	00C1	0073	
@CHARF	001	00C6	0074	
@CHARR	001	00D9	0075	
@CHARZ	001	00E9	0076	
@CKY01	001	0001	0309	
@CKY02	001	0002	0310	
@CKY03	001	0003	0311	
@CKY04	001	0004	0312	
@CKY05	001	0005	0313	
@CKY06	001	0006	0314	
@CKY07	001	0007	0315	
@CKY08	001	0008	0316	
@CKY09	001	0009	0317	
@CKY10	001	000A	0318	
@CKY11	001	000B	0319	
@CKY12	001	000C	0320	
@CKY13	001	000D	0321	
@CKY14	001	000E	0322	
@CKY15	001	000F	0323	
@CKY16	001	0010	0324	

CROSS REFERENCE

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SYMBOL LEN VALUE DEFN REFERENCES

@CLOFF 001 0010 0095
 @CLON 001 0011 0094
 @CMLON 001 0001 0327
 @CMOFF 001 0000 0326
 @COMMA 001 006B 0067
 @CPLUS 001 004E 0080
 @CP37B 001 0004 0387
 @CRERR 001 0090 0342
 @CRPRY 001 0004 0346
 @CRTDS 001 0092 0339
 @CRTQ 001 0090 0341
 @CURSR 001 0040 0343
 @DADDR 001 0002 0140
 @DBFR1 001 0004 0129
 @DBFR2 001 0005 0130
 @DBUSY 001 0002 0245
 @DCALK 001 0001 0082
 @DCBCY 001 0009 0115
 @DCBT1 001 0050 0117
 @DCFLN 001 0004 0229
 @DCNT 001 0003 0128
 @DCRID 001 0001 0243
 @DCST1 001 0040 0116
 @DCTRL 001 0000 0125
 @DCTRW 001 0000 0242
 @DCWID 001 0001 0239
 @DCYL 001 0001 0126
 @DCYMV 001 0001 0230
 @DD2 001 0003 0031
 @DEFLG 001 0002 0252
 @DERCE 001 0020 0282
 @DERD2 001 0008 0275
 @DEREQ 001 0010 0274
 @DERIN 001 0040 0272
 @DERMA 001 0020 0273
 @DERNR 001 0004 0276
 @DERR 001 0000 0246
 @DERSC 001 0001 0278
 @DERTC 001 0002 0277
 @DFCR 001 0006 0232
 @DFDR 001 0004 0233
 @DGET 001 0001 0134
 @DHARD 001 0000 0260
 @DLNCT 001 000F 0345
 @DLNLG 001 0040 0344
 @DOP2 001 0004 0029
 @DPLNG 001 0006 0132
 @DPOS 001 0000 0133
 @DPUT 001 0002 0135
 @DREAD 001 0001 0236
 @DSAD 001 0002 0127
 @DSBCY 001 0004 0106
 @DSBSY 001 0092 0340
 @DSCS1 001 0000 0107
 @DSEEK 001 0000 0235
 @DSIVF 001 0003 0138

0553

0555

0539* 0551*
 0552* 0554

0553
 0548*

0540

CROSS REFERENCE

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SYMBOL	LEN	VALUE	DEFN
@DSPIN	001	0002	0131
@DTRSZ	001	0018	0086
@DUNSF	001	0080	0271
@DVBCY	001	0007	0108
@DVERY	001	0003	0241
@DVERFY	001	0031	0136
@DVST1	001	0002	0247
@DVST2	001	0003	0248
@DWAIT	001	00FF	0137
@DWBCY	001	0005	0103
@DWRIT	001	0002	0237
@DWSIZ	001	00C0	0105
@DWTB1	001	0003	0104
@DZERO	001	00F0	0065
@D1	001	0002	0027
@EOF	001	001C	0078
@EOFTC	001	0075	0161
@EOS	001	001E	0077
@ER37B	001	00F0	0361
@FDDBC	001	0000	0194
@FDE1	001	000C	0199
@FDFNA	001	000B	0197
@FDHLN	001	0002	0207
@FDLNC	001	0002	0192
@FDNSC	001	0003	0209
@FDSD	001	0000	0205
@FLACE	001	0009	0196
@FLDBC	001	0001	0195
@FLDIN	001	0012	0334
@FLENT	001	0004	0200
@FLFNA	001	0002	0198
@FLHLN	001	0002	0208
@FLLNC	001	0002	0193
@FLNSC	001	0001	0210
@FLSD	001	0001	0206
@HCEPK	001	003C	0430
@HCOPS	001	001C	0437
@HCOPY	001	081C	0432
@HCRHE	001	7858	0453
@HDNRY	001	1008	0418
@HDRHE	001	7854	0451
@HDRLN	001	0007	0093
@HDRV1	001	7840	0443
@HDRV2	001	7844	0445
@HDTRD	001	1040	0414
@HDTRJ	001	1010	0416
@HERPG	001	087C	0420
@HFEHT	001	0804	0435
@HIPLE	001	006C	0427
@HKBER	001	2040	0410
@HKBHE	001	7848	0447
@HLOGE	001	1844	0422
@HPRER	001	0070	0412
@HPRHE	001	784C	0449
@HSTAD	001	0009	0258
@HSTEN	001	0007	0257

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CROSS REFERENCE

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
@HSTPE	001	0006	0256	
@HSTQR	001	0001	0254	
@HSTSN	001	0005	0255	
@HSTVI	001	000F	0259	
@HUNSF	001	1850	0425	
@IAR	001	0010	0019	
@ID37B	001	0040	0397	
@INDEX	001	0001	0155	0156
@INST3	001	0003	0033	
@INST4	001	0004	0034	
@INST5	001	0005	0035	
@INST6	001	0006	0036	
@IP37B	001	00C0	0396	
@I1IAR	001	00C0	0021	
@KCMDK	001	0020	0308	
@KELOK	001	001B	0307	
@KENAB	001	001E	0305	
@KEXIT	001	001F	0306	
@KEYBD	001	0010	0325	
@KFUNK	001	0010	0328	
@KHARD	001	0011	0333	
@KLEAR	001	000D	0329	
@LINSZ	001	00F4	0085	
@LO37B	001	00F0	0365	
@MAPEN	001	0005	0090	
@MINCR	001	2000	0084	
@MINUS	001	0060	0081	
@NOP	001	0080	0041	
@NORFL	001	0000	0253	
@NTRDY	001	00A0	0389	
@NUMBR	001	007B	0071	
@OPD2	001	0004	0030	
@OP1	001	0003	0028	0549*
@OP2	001	0005	0032	
@OVRUN	001	0004	0283	
@PBUSY	001	00E2	0295	
@PCAR	001	00E6	0292	
@PCNT	001	0003	0227	
@PCTRL	001	0000	0148	
@PCYL	001	0001	0225	
@PC37B	001	00F2	0381	
@PDAR	001	00E4	0291	
@PDATA	001	0003	0150	
@PD37B	001	0080	0395	
@PERR	001	00E0	0298	
@PFLAG	001	0000	0224	
@PFORM	001	00E1	0296	
@PGCSZ	001	0020	0083	0084
@PLITE	001	00E2	0297	
@PLNGH	001	0004	0288	
@PMGCK	001	0020	0299	
@PN37B	001	00F0	0380	
@PPLNG	001	0004	0147	
@PRCNT	001	0001	0149	
@PRETR	001	00C0	0153	
@PRINT	001	0040	0151	0153

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
@PRITY	001	0080	0332	
@PSAD	001	0002	0226	
@PSIOQ	001	00E0	0294	
@PSIOR	001	0000	0293	
@PSNSQ	001	00E2	0300	
@PSR	001	0004	0017	
@PWAIT	001	00FF	0157	
@PLIAR	001	0020	0020	
@Q	001	0001	0025	0537* 0538*
@RD37B	001	00F1	0375	
@REGL	001	0002	0014	
@RETRN	001	0080	0152	0153
@RLDWN	001	004F	0158	
@RTCNT	001	0003	0290	
@RTRNC	001	0080	0160	
@RT37B	001	0005	0388	
@SBLNL	001	0002	0183	
@SCTSZ	001	0100	0100	0529 0529*
@SDFLN	001	0007	0091	
@SDF0	001	0000	0165	
@SDF1	001	0001	0166	
@SDF2	001	0002	0167	
@SDF3	001	0003	0168	
@SDLN	001	0005	0169	
@SECCY	001	0030	0087	
@SIST	001	0001	0180	
@SKCTL	001	0000	0240	0540
@SLASH	001	0061	0068	
@SLAST	001	0002	0182	
@SMIDL	001	0003	0181	
@SNSB0	001	0000	0264	
@SNSB1	001	0001	0265	
@SNSB2	001	0002	0266	
@SNSB3	001	0003	0267	
@SNULL	001	0080	0172	
@SN37B	001	00F2	0369	
@SONLY	001	0000	0179	
@SPINA	001	00A0	0249	0539* 0551* 0552* 0554 0555
@SPINB	001	00B0	0250	
@STEXT	001	0007	0171	
@STYPE	001	0006	0170	
@SYCNT	001	0002	0289	
@TBCNT	001	0000	0159	
@TBLEF	001	0010	0154	0156
@TBLIX	001	0011	0156	
@TJ37B	001	0040	0386	
@TYPAM	001	0002	0331	
@TYPO	001	001C	0330	
@UCB	001	0087	0040	
@UPARW	001	005A	0079	
@VADDR	001	0002	0141	
@VENTA	001	0056	0113	
@VMDDV	001	00FE	0114	
@VMFD1	001	0000	0109	
@VMFD2	001	0001	0110	
@VMRS3	001	0002	0112	

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
@VMTRL	001	0001	0111	
@VOLID	001	0006	0092	
@VQ	001	0001	0026	
@WA37B	001	00FF	0394	
@WSFIT	001	0500	0101	
@WSTBL	001	0503	0102	
@XR	001	0002	0016	
@ZERO	001	0000	0063	0526 0526 0527 0527
@4K	001	0010	0348	
HPL	001	00F0	0455	
IPLBAS	001	0000	0518	0519 0524 0580 0581 0588 0598
IPLBIS	001	0001	0532	0542
IPLCNT	001	0007	0517	0584
IPLCOR	002	006B	0575	0547* 0552
IPLCRF	001	0073	0582	0548* 0580
IPLCSA	001	0000	0514	
IPLCTR	001	0069	0572	0564* 0565
IPLDCF	001	0077	0585	0581
IPLDFC	002	0072	0581	0539
IPLEND	001	0100	0599	0529
IPLENG	001	0100	0598	
IPLERR	001	0058	0563	0555
IPLFCR	002	0070	0580	0551
IPLHPL	003	0062	0568	0569
IPLIDR	001	00FE	0533	0542
IPLIPQ	001	00FF	0534	0524 0537 0538 0556
IPLONE	001	0068	0571	0564
IPLREL	001	1200	0513	0528 0580 0581
IPLSKF	001	0001	0515	
IPLSRT	001	0000	0461	0599
IPLSTA	001	0000	0516	0559
IPLSTT	001	001B	0536	0530
IPLXXX	001	0100	0597	0598
IPL0BC	001	006E	0578	0548
IPL050	004	0007	0526	0525
IPL100	003	0023	0539	0566
IPL110	003	0026	0540	0537*
IPL140	003	003B	0551	0543
IPL150	003	0041	0553	0538*
IPL160	003	0044	0554	0554
IPL170	004	0054	0559	0549* 0557
IPL180	002	006D	0577	0547 0549

TOTAL STATEMENTS IN ERROR IN THIS ASSEMBLY = 0

OL105 I THE CODE LENGTH OF ##0TRK IS 6144 DECIMAL.
 OL103 I TOTAL NUMBER OF LIBRARY SECTORS REQUIRED IS 28
 NAME-##0TRK,PACK-R1R1R1,UNIT-R1,RETAIN-P,LIBRARY-R,CATEGORY-000

START ADDRESS	CATEGORY	NAME AND ENTRY	CODE LENGTH HEXADECIMAL	DECIMAL
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0000	0	##0TRK	1800	6144
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OL100 I THE TOTAL CORE USED BY ##0TRK IS 6144 DECIMAL.
OL101 I THE START CONTROL ADDRESS OF THIS MODULE IS 0000.
OL104 I TOTAL NUMBER OF LIBRARY SECTORS REQUIRED IS 25
NAME-##0TRK,PACK-R1R1R1,UNIT-R1,RETAIN-P,LIBRARY-O