

00010 NAM BOOT  
00020 OPT OBJ  
00040 \*WRITTEN BY R. H. UITERWYK

00050 8014 DRVREG EQU \$8014  
00060 8018 COMREG EQU \$8018  
00070 801B DATREG EQU \$801B  
00080 801A SECREG EQU \$801A  
00100 0100 ORG \$0100  
00110 0100 4F START CLR A  
00120 0101 B7 8014 F528 STA A DRVREG  
00130 0104 CE FFFF LDX #\$FFFF  
00140 0107 08 STARTO INX  
00150 0108 09 DEX  
00160 0109 09 DEX  
00170 010A 26 FB BNE STARTO  
00180 010C C6 0B LDA B #\$0B RESTORE W/LOAD  
00190 010E F7 8018 F530 STA B COMREG  
00200 0111 8D 2A F530 BSR RETURN  
00210 0113 F6 8018 LOOP1 LDA B COMREG  
00220 0116 C5 01 BIT B #1  
00230 0118 26 F9 BNE LOOP1  
00240 011A 7F 801A F532 CLR SECREG  
00250 011D 8D 1E BSR RETURN  
00260 011F C6 9C LDA B #\$9C  
00270 0121 F7 8018 FF30 STA B COMREG  
00280 0124 8D 17 BSR RETURN  
00290 0126 CE 2400 LDX #\$2400  
00300 0129 C5 02 LOOP2 BIT B #2  
00310 012B 27 06 BEQ LOOP3  
00320 012D B6 801B F533 LDA A DATREG  
00330 0130 A7 00 STA A O, X  
00340 0132 08 F534 INX  
00350 0133 F6 8018 LOOP3 LDA B COMREG  
00360 0136 C5 01 BIT B #1  
00370 0138 26 EF BNE LOOP2  
00380 013A 7E 2400 JMP \$2400  
00390 013D 39 RETURN RTS  
00400 END

TOTAL ERRORS 00000

00010  
00020

NAM DOS  
\*\*\*\*\* VERSION 1.00 \*\*\*\*\*

00030		OPT	NOGEN
00040		OPT	OBJECT
00060	8018	COMREG	EQU \$8018
00070	801B	DATREG	EQU \$801B
00080	2403	RESTRT	EQU \$2403
00090	242B	READ	EQU \$242B
00100	242E	READO	EQU \$242E
00110	2523	PRELIM	EQU \$2523
00120	255F	WRITE	EQU \$255F
00130	2561	WRITEO	EQU \$2561
00140	25AC	DRIVE	EQU \$25AC
00170	0000	TRACK	EQU \$0000
00180	0001	SECTOR	EQU \$0001
00190	0004	BMEMH	EQU \$0004
00200	0006	EMEMH	EQU \$0006
00210	0009	SAVEX	EQU \$0009
00220	000B	PROGX	EQU \$000B
00230	000D	NDRIVE	EQU \$000D

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00250	3000	ORG	\$3000
00260	3000 0002	BUFNXT	RMB 2
00270	3002 0002	ENDBUF	RMB 2
00280	3004 0050	BUFFER	RMB 80
00290	3054 0001	CREFLG	RMB 1
00295	3055 0001	DECFPNT	RMB 1
00300	3056 0001	LIBSEC	RMB 1
00310	3057 0001	NEEDNO	RMB 1
00320	3058 0001	TYPE	RMB 1
00330	3059 0002	STARTX	RMB 2
00340	305B 0002	ENDX	RMB 2
00350	305D 0002	GOX	RMB 2
00360	305F 0002	HILINE	RMB 2
00370	3061 0002	TEMPX1	RMB 2
00380	3063 0002	TEMPX2	RMB 2
00390	3065 0002	TEMPX3	RMB 2
00400	3067 0008	NAME	RMB 8
00410	306F 0008	PASSWD	RMB 8
00420	3077 0100	DBUFFR	RMB 256
00430	3177 0020	OVERFL	RMB 32

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00450	2600	ORG	\$2600
00470	2600 CE 2986 DOS	LDX	#COPMSG
00472	2603 86 FF	LDA A	#\$FF
00474	2605 B7 3055	STA A	DEC PNT
00476	2608 BD 289F	JSR	OUTPUT
00478	260B 8E A049 DOS1	LDS	#\$A049
00479	260E BD 2A22	JSR	DOSRT
00480	2611 20 F8	BRA	DOS1
00485	2613 7E E1D1 OUTCHA	JMP	OUTEEE
00490	E1D1	OUTEEE	EQU \$E1D1
00500	2616 7E E1AC INCH	JMP	INEEE
00510	E1AC	INEEE	EQU \$E1AC

00511	2619	7E	261C	PRNCHA	JMP	OUTPIA
00513	261C	DF	09	OUTPIA	STX	SAVEX
00514	261E	CE	801C		LDX	#\$801C
00515	2621	A7	00		STA A	0,X
00516	2623	86	36		LDA A	#\$36
00517	2625	A7	01		STA A	1,X
00518	2627	86	3E		LDA A	#\$3E
00519	2629	A7	01		STA A	1,X
00520	262B	6D	01	OUTPI3	TST	1,X
00521	262D	2A	FC		BPL	OUTPI3
00522	262F	A6	00		LDA A	0,X
00523	2631	DE	09		LDX	SAVEX
00524	2633	39			RTS	
00531	2634	7D	3055	OUTCH	TST	DECPT
00532	2637	26	DA		BNE	OUTCHA
00533	2639	20	DE		BRA	PRNCHA
00536	263B	7F	3055	PRINT	CLR	DECPT
00537	263E	7E	2A3A		JMP	READY
00540					*****	
00560	2641	86	03	RLIB	LDA A	#3
00570	2643	20	08		BRA	LIB1
00580	2645	86	02	WLIB	LDA A	#2
00590	2647	7F	3057		CLR	NEEDNO
00600	264A	7F	3054		CLR	CREFLG
00610	264D	36		LIB1	PSH A	
00620	264E	86	02		LDA A	#2
00630	2650	97	00		STA A	TRACK
00640	2652	4F			CLR A	
00650	2653	97	01		STA A	SECTOR
00660	2655	ED	2523		JSR	PRELIM
00670	2658	96	01	LIB2	LDA A	SECTOR
00680	265A	B7	3056		STA A	LIBSEC
00690	265D	CE	3176		LDX	#DEBUFFR+255
00700	2660	DF	06		STX	EMEMH
00710	2662	CE	3077		LDX	#DEBUFFR
00720	2665	ED	242E		JSR	READO
00730	2668	CE	3077		LDX	#DEBUFFR
00740	266B	0F			SEI	
00750	266C	9F	09		STS	SAVEX
00760	266E	C6	10	LIB3	LDA B	#16
00770	2670	FF	3063		STX	TEMPX2
00780	2673	8E	3066		LDS	#NAME-1
00790	2676	A6	00		LDA A	0,X
00800	2678	81	FF		CMP A	#\$FF
00810	267A	27	42		BEQ	LIB7
00820	267C	32		LIB4	PUL A	
00830	267D	A1	00		CMP A	0,X
00840	267F	26	0B		BNE	LIB5
00850	2681	08			INX	
00860	2682	5A			DEC B	
00870	2683	26	F7		BNE	LIB4
00880	2685	9E	09		LDS	SAVEX
00890	2687	01			NOP	
00900	2688	0E			CLI	
00910	2689	7E	272D		JMP	LIB8
00920	268C	C1	09	LIB5	CMP B	#9
00930	268E	24	05		BCC	LIB55
00940	2690	CE	2817		LDX	#PASERR

00950	2693	20	20	BRA	LIB65
00960	2695	08		LIB55	INX
00970	2696	5A			DEC B
00980	2697	26	FC		BNE LIB55
00990	2699	C6	10		LDA B #16
01000	269B	08		LIB57	INX
01010	269C	5A			DEC B
01020	269D	26	FC		BNE LIB57
01030	269F	09			DEX
01040	26A0	9C	06		CPX EMEMH
01050	26A2	27	03		BEQ LIB58
01060	26A4	08			INX
01070	26A5	20	C7		BRA LIB3
01080	26A7	9E	09	LIB58	LDS SAVEX
01090	26A9	01			NOP
01100	26AA	0E			CLI
01110	26AB	96	01		LDA A SECTOR
01140	26AD	81	09		CMP A #9
01150	26AF	26	A7		BNE LIB2
01160	26B1	CE	27C5	LIB6	LDX #DSKFUL
01170	26B4	32			PUL A.
01180	26B5	BD	28AE	LIB65	JSR CRLF
01190	26B8	BD	289F		JSR OUTPUT
01200	26BB	7E	2403		JMP RESTRT
01210	26BE	9E	09	LIB7	LDS SAVEX
01220	26C0	01			NOP
01230	26C1	0E			CLI
01240	26C2	33			PUL B
01250	26C3	C1	03		CMP B #3 IS IT READ
01260	26C5	26	05		BNE LIB75
01270	26C7	CE	27D9		LDX #NOTFND
01280	26CA	20	E9		BRA LIB65
01290	26CC	37		LIB75	PSH B
01300	26CD	7C	0006		INC EMEMH
01310	26D0	FF	3063		STX TEMPX2
01320	26D3	0F			SEI
01330	26D4	9F	09		STS SAVEX
01340	26D6	8E	3066		LDS #NAME-1
01350	26D9	C6	10		LDA B #16
01360	26DB	32		LIB77	PUL A
01370	26DC	A7	00		STA A O, X
01380	26DE	08			INX
01390	26DF	5A			DEC B
01400	26E0	26	F9		BNE LIB77
01410	26E2	9E	09		LDS SAVEX
01420	26E4	01			NOP
01430	26E5	0E			CLI
01440	26E6	7D	3057		TST NEEDNO
01450	26E9	26	0F		BNE LIB78
01460	26EB	B6	305B		LDA A ENDX
01470	26EE	B0	3059		SUB A STARTX
01480	26F1	4C			INC A
01490	26F2	16			TAB
01500	26F3	54			LSR B
01510	26F4	54			LSR B
01520	26F5	5C			INC B
01530	26F6	1B			ABA
01540	26F7	B7	3057		STA A NEEDNO

01550	26FA	A6 02	LIB78	LDA A	2,X
01560	26FC	E6 03		LDA B	3,X
01570	26FE	F0 3057		SUB B	NEEDNO
01580	2701	82 00		SBC A	#00
01590	2703	2B AC		BMI	LIB6
01600	2705	A7 22		STA A	34,X
01610	2707	E7 23		STA B	35,X
01620	2709	6F 02		CLR	2,X
01630	270B	F6 3057		LDA B	NEEDNO
01640	270E	E7 03		STA B	3,X
01650	2710	EB 01		ADD B	1,X
01660	2712	4F		CLR A	
01670	2713	4C	LIB79	INC A	
01680	2714	C0 OA		SUB B	#10
01690	2716	24 FB		BCC	LIB79
01700	2718	4A		DEC A	
01710	2719	CB OA		ADD B	#10
01720	271B	E7 21		STA B	33,X
01730	271D	AB 00		ADD A	0,X
01740	271F	A7 20		STA A	32,X
01750	2721	86 FF		LDA A	#\$FF
01760	2723	A7 10		STA A	16,X
01770	2725	B6 3058		LDA A	TYPE
01780	2728	A7 04		STA A	4,X
01790	272A	32		PUL A	
01800	272B	20 10		BRA	LIB82
01810	272D	32	LIB8	PUL A	
01820	272E	81 02		CMP A	#2 ARE WE WRITING
01830	2730	26 49		BNE	LIB9
01840	2732	7D 3054		TST	CREFLG
01850	2735	27 06		BEQ	LIB82
01860	2737	CE 282B		LDX	#NOTCRE
01870	273A	7E 26B5		JMP	LIB65
01880	273D	F6 305B	LIB82	LDA B	ENDX
01890	2740	F0 3059		SUB B	STARTX
01900	2743	5C		INC B	
01910	2744	E1 03		CMP B	3,X
01920	2746	23 06		BLS	LIB88
01930	2748	CE 27EB		LDX	#FLFULL
01940	274B	7E 26B5		JMP	LIB65
01950	274E	C6 08	LIB88	LDA B	#8
01960	2750	0F		SEI	
01970	2751	9F 09		STS	SAVEX
01980	2753	8E 3058		LDS	#STARTX-1
01990	2756	32	LIB89	PUL A	
02000	2757	A7 05		STA A	5,X
02010	2759	08		INX	
02020	275A	5A		DEC B	
02030	275B	26 F9		BNE	LIB89
02040	275D	9E 09		LDS	SAVEX
02050	275F	01		NOP	
02060	2760	0E		CLI	
02070	2761	FE 3063		LDX	TEMPX2
02080	2764	F6 3058		LDA B	TYPE
02090	2767	A6 14		LDA A	20,X
02100	2769	27 03		BEQ	*+5
02110	276B	11		CBA	
02120	276C	26 1F		BNE	LIB91

02130	276E	E7 14	STA B	20, X
02140	2770	B6 3056	LDA A	LIBSEC
02150	2773	97 01	STA A	SECTOR
02210	2775	CE 3077	LIB895 LDX	#DBUFFR
02220	2778	BD 2561	JSR	WRITEO
02250	277B	FE 3063	LIB9 LDX	TEMPX2
02260	277E	B6 3058	LDA A	TYPE
02270	2781	81 FF	CMP A	#\$FF
02280	2783	27 0E	BEQ	LIB95
02290	2785	6D 14	TST	20, X
02300	2787	27 0A	BEQ	LIB95
02310	2789	A1 14	CMP A	20, X
02320	278B	27 06	BEQ	LIB95
02330	278D	CE 2801	LIB91 LDX	#TYPERR
02340	2790	7E 26B5	JMP	LIB65
02350	2793	EE 1B	LIB95 LDX	27, X
02360	2795	FF 305F	STX	HILINE
02370	2798	FE 3063	LDX	TEMPX2
02380	279B	EE 19	LDX	25, X
02390	279D	FF 305D	STX	G0X
02400	27A0	FE 3063	LDX	TEMPX2
02410	27A3	EE 17	LDX	23, X
02420	27A5	DF 06	STX	EMEMH
02430	27A7	FF 305B	STX	ENDX
02440	27AA	FE 3063	LDX	TEMPX2
02450	27AD	A6 10	LDA A	16, X
02460	27AF	97 00	STA A	TRACK
02470	27B1	A6 11	LDA A	17, X
02480	27B3	97 01	STA A	SECTOR
02490	27B5	A6 14	LDA A	20, X
02500	27B7	B7 3058	STA A	TYPE
02510	27BA	EE 15	LDX	21, X
02520	27BC	FF 3059	STX	STARTX
02530	27BF	DF 04	STX	BMEMH
02540	27C1	FE 3063	LDX	TEMPX2
02550	27C4	39	RETURN	RTS
02560	27C5	44	DSKFUL	FCC /DISK FULL - PACK/
02570	27D5	0D	FCB	\$0D, \$0A, \$15, 4
02580	27D9	46	NOTFND	FCC /FILE NOT FOUND/
02590	27E7	0D	FCB	\$0D, \$0A, \$15, 4
02600	27EB	46	FLFULL	FCC /FILE FULL - RENAME/
02610	27FD	0D	FCB	\$0D, \$0A, \$15, 4
02620	2801	46	TYPERR	FCC /FILE TYPE MISMATCH/
02630	2813	0D	FCB	\$0D, \$0A, \$15, 4
02640	2817	50	PASERR	FCC /PASSWORD INVALID/
02650	2827	0D	FCB	\$0D, \$0A, \$15, 4
02660	282B	46	NOTCRE	FCC /FILE ALREADY EXISTS/
02670	283E	0D	FCB	\$0D, \$0A, \$15, 4

02690	2842	CE	2896	DEL	LDX	#DELMSG	
02700	2845	BD	289F		JSR	OUTPUT	
02710	2848	20	0A		BRA	KEYBDO	
02730	284A	86	3F	KEYBD	LDA A	#'?	
02740	284C	BD	2634		JSR	OUTCH	
02750	284F	86	20		LDA A	#\$20	
02760	2851	BD	2634		JSR	OUTCH	
02780	2854	CE	3004	KEYBDO	LDX	#BUFFER	
02790	2857	BD	2616	KEYBD1	JSR	INCH	
02800	285A	4D			TST A		
02810	285B	27	FA		BEQ	KEYBD1	
02820	285D	81	0A		CMP A	#\$0A	
02830	285F	27	F6		BEQ	KEYBD1	
02840	2861	81	03		CMP A	#\$03	
02850	2863	26	03		BNE	#+5	
02860	2865	7E	2A22		JMP	DOSTRT	
02870	2868	81	18		CMP A	#\$18	CONTROL X
02880	286A	27	D6		BEQ	DEL	
02890	286C	81	0D		CMP A	#\$0D	IS IT C/R
02900	286E	27	1B		BEQ	IEXIT	
02910	2870	81	0F		CMP A	#\$0F	CONTROL O
02920	2872	26	0D		BNE	KEYBD2	
02930	2874	86	5F		LDA A	#\$5F	
02940	2876	BD	2634		JSR	OUTCH	
02950	2879	8C	3004		CPX	#BUFFER	
02960	287C	27	D9		BEQ	KEYBD1	
02970	287E	09			DEX		
02980	287F	20	D6		BRA	KEYBD1	
02990	2881	8C	304C	KEYBD2	CPX	#BUFFER+72	
03000	2884	27	D1		BEQ	KEYBD1	
03010	2886	A7	00		STA A	O, X	
03020	2888	08			INX		
03030	2889	20	CC		BRA	KEYBD1	
03040	288B	86	04	IEXIT	LDA A	#\$04	
03050	288D	A7	00		STA A	O, X	
03060	288F	FF	3002		STX	ENDBUF	
03070	2892	BD	28AE		JSR	CRLF	
03080	2895	39			RTS		
03100	2896	20		DELMSG	FCC	/ DELETED/	
03110	289E	04			FCB	4	

03140 \*UNIVERSAL OUTPUT ROUTINE

03150	289F	BD	06	OUTPUT	BSR	OUTNCR
03160	28A1	20	0B		BRA	CRLF
03170	28A3	BD	2634	OUTPU1	JSR	OUTCH
03180	28A6	08			INX	
03190	28A7	A6	00	OUTNCR	LDA A	O, X
03200	28A9	81	04		CMP A	#\$04
03210	28AB	26	F6		BNE	OUTPU1
03220	28AD	39			RTS	
03240	28AE	FF	28C6	CRLF	STX	CRLFXX
03250	28B1	CE	28BA		LDX	#CRLFST
03260	28B4	BD	F1		BSR	OUTNCR
03270	28B6	FE	28C6		LDX	CRLFXX
03280	28B9	39			RTS	

03300	28BA	0D	CRLFST	FCB	\$OD, \$0A, \$15
03310	28BD	FF		FCB	\$FF, \$FF, \$FF, \$FF
03320	28C1	04		FCB	\$04
03330	28C2	FF		FCB	\$FF, \$FF, \$FF, \$FF
03350	28C6	0002	CRLFXX	RMB	2
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03370	28C8	A6	00	SKIPSP	LDA A 0, X
03380	28CA	81	20		CMP A #\$20
03390	28CC	26	03		BNE *+5
03400	28CE	08		INXSKP	INX
03410	28CF	20	F7		BRA SKIPSP
03420	28D1	4D			TST A
03430	28D2	39			RTS
03450	28D3	8D	F3	CCODE	BSR SKIPSP
03460	28D5	FF	3000		STX BUFNXT
03470	28D8	0F			SEI
03480	28D9	9F	09		STS SAVEX
03490	28DB	CE	2905		LDX #DOSLIS-1
03500	28DE	BE	3000	LOOP3	LDS BUFNXT
03510	28E1	34			DES
03520	28E2	08		LOOP4	INX
03530	28E3	32			PUL A
03540	28E4	81	20		CMP A #\$20
03550	28E6	27	FB		BEQ *-3
03560	28E8	E6	00		LDA B 0, X
03570	28EA	27	11		BEQ OKCODE
03580	28EC	11			CBA
03590	28ED	27	F3		BEQ LOOP4
03600	28EF	08		LOOP5	INX
03610	28F0	8C	2983		CPX #COMEND
03620	28F3	27	0C		BEQ NOCODE
03630	28F5	E6	00		LDA B 0, X
03640	28F7	26	F6		BNE LOOPS
03650	28F9	08			INX
03660	28FA	08			INX
03670	28FB	20	E1		BRA LOOP3
03680	28FD	08		OKCODE	INX
03690	28FE	BF	3000		STS BUFNXT
03700	2901	9E	09	NOCODE	LDS SAVEX
03710	2903	01			NOP
03720	2904	0E			CLI
03730	2905	39			RTS
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03750	2906	4C	DOSLIS	FCC	/LOAD/
03760	290A	00		FCB	O
03770	290B	2D3D		FDB	LOAD
03780	290D	52		FCC	/RUN/
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03790	2910	00		FCB	O
03800	2911	2D59		FDB	RUN
03810	2913	53		FCC	/SAVE/
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03820	2917	00		FCB	O
03830	2918	2D65		FDB	SAVE
03840	291A	45		FCC	/EXIT/

03850	291E	00	FCB	O	
03860	291F	E0D0	FDB	\$E0D0	
03870	2921	44	FCC	/DOS/	
03880	2924	00	FCB	O	
03890	2925	2600	FDB	DOS	
03892	2927	50	FCC	/PACK/	
03894	292B	00	FCB	O	
03896	292C	2A52	FDB	PACK	
03900	292E	49	FCC	/INIT/	
03910	2932	00	FCB	O	
03920	2933	2B39	FDB	INIT	
03922	2935	54	FCC	/TEST/	
03924	2939	00	FCB	O	
03926	293A	2F05	FDB	TEST	
03930	293C	43	FCC	/CATALOG/	
03940	2943	00	FCB	O	
03950	2944	2E2B	FDB	CATAL	
03960	2946	43	FCC	/CAT/	
03970	2949	00	FCB	O	
03980	294A	2E2B	FDB	CATAL	
03990	294C	46	FCC	/FILES/	
04000	2951	00	FCB	O	
04010	2952	2E24	FDB	FILES	
04014	2954	48	FCC	/HOME/	
04016	2958	00	FCB	O	
04018	2959	2CB5	FDB	HOME	
04020	295B	43	FCC	/CREATE/	
04030	2961	00	FCB	O	
04040	2962	2C7D	FDB	CREATE	
04042	2964	50	FCC	/PRINT/	
04044	2969	00	FCB	O	
04046	296A	263B	FDB	PRINT	
04050	296C	52	FCC	/RENAME/	
04060	2972	00	FCB	O	
04070	2973	2CBE	FDB	RENAME	
04072	2975	44	FCC	/DELETE/	
04073	297B	00	FCB	O	
04074	297C	2CF6	FDB	PURGE	
04080	297E	50	FCC	/PURGE/	
04090	2983	00	COMEND	FCB	O
04100	2984	2CF6	FDB	PURGE	

04115	2986	53	COPMSG	FCC	/SWTPC V1.0 (C) 1977/	
04117	2999	04		FCB	4	
04120	299A	0D	RDYMSG	FCB	\$0D, \$0A, \$15, \$FF, \$FF	
04130	299F	46		FCB	/FDOS READY/	
04117	2999	04		FCB	4	
04120	299A	0D	RDYMSG	FCB	\$0D, \$0A, \$15, \$FF, \$FF	
04130	299F	46		FCB	/FDOS READY/	
04140	29A9	04		FCB	4	
04150	29AA	46	NAMMSG	FCC	/FILE NAME/	
04160	29B3	04		FCB	4	
04170	29B4	46	FIRADD	FCC	/FIRST ADDRESS/	
04180	29C1	04		FCB	4	
04190	29C2	4C	LASADD	FCC	/LAST ADDRESS /	
04200	29CF	04		FCB	4	
04210	29D0	50	PSTART	FCC	/PROGRAM START/	
04220	29DD	04		FCB	4	
04230	29DE	23	SECNUM	FCC	/# OF SECTORS (HEX)/	
04240	29F0	04		FCB	4	
04250	29F1	41	SURMSG	FCC	/ARE YOU SURE/	
04260	29FD	04		FCB	4	
04270	29FE	42	TRKMSG	FCC	/BAD TRACK & SECTOR #/	
04280	2A12	04		FCB	4	
04290	2A13	4E	NEWMSG	FCC	/NEW /	
04300	2A17	04		FCB	4	
04302	2A18	54	TSTDON	FCC	/TEST DONE/	
04304	2A21	04		FCB	4	
04320	2A22	8E	A045	DOSTRT	LDS	#\$A045
04330	2A25	CE	2A22		LDX	#DOSTRT
04340	2A28	DF	0B		STX	PROGX
04341	2A2A	CE	801C		LDX	#\$801C
04342	2A2D	C6	FF		LDA B	#\$FF
04343	2A2F	E7	00		STA B	0, X
04344	2A31	C6	3E		LDA B	#\$3E
04345	2A33	E7	01		STA B	1, X
04346	2A35	86	FF		LDA A	#\$FF
04347	2A37	B7	3055		STA A	DECPTN
04350	2A3A	CE	299A	READY	LDX	#RDYMSG
04360	2A3D	BD	289F		JSR	OUTPUT
04370	2A40	BD	2854	DOSTRT2	JSR	KEYBD
04380	2A43	CE	3004		LDX	#BUFFER
04390	2A46	BD	28D3		JSR	CCODE
04400	2A49	8C	2983		CPX	#COMEND
04410	2A4C	27	07		BEQ	RUNCOM
04420	2A4E	EE	00		LDX	0, X
04430	2A50	6E	00		JMP	0, X

04435	2A52	BD	2A72	PACK	JSR	SELECT
04440	2A55	CE	3004	RUNCOM	LDX	#BUFFER
04450	2A58	BD	28C8		JSR	SKIPSP
04460	2A5B	81	04		CMP A	##\$04
04470	2A5D	27	E1		BEQ	DOSTR2
04480	2A5F	09			DEX	
04490	2A60	86	24		LDA A	#\$'
04500	2A62	A7	00		STA A	0, X
04510	2A64	FF	3000		STX	BUFNXT
04520	2A67	BD	2AFO		JSR	CLRPAS
04530	2A6A	86	11		LDA A	##\$11
04540	2A6C	B7	3058		STA A	TYPE
04550	2A6F	7E	2D5E		JMP	RUNO
04570	2A72	FE	3000	SELECT	LDX	BUFNXT
04580	2A75	BD	28C8		JSR	SKIPSP
04590	2A78	81	30		CMP A	##\$30
04600	2A7A	2B	04		BMI	NOSEL
04610	2A7C	81	39		CMP A	##\$39
04620	2A7E	2F	05		BLE	OKSEL
04630	2A80	4F		NOSEL	CLR A	
04640	2A81	BD	25AC		JSR	DRIVE
04650	2A84	39			RTS	
04660	2A85	80	30	OKSEL	SUB A	##\$30
04670	2A87	81	03		CMP A	##\$03
04680	2A89	2F	06		BLE	OKSEL1
04690	2A8B	CE	2AA1		LDX	#DRVERR
04700	2A8E	7E	26B5		JMP	LIB65
04710	2A91	BD	25AC	OKSEL1	JSR	DRIVE
04720	2A94	08			INX	
04730	2A95	BD	28C8		JSR	SKIPSP
04740	2A98	81	2C		CMP A	#\$'
04750	2A9A	26	01		BNE	SELEX
04760	2A9C	08			INX	
04770	2A9D	FF	3000	SELEX	STX	BUFNXT
04780	2AA0	39			RTS	
04800	2AA1	44		DRVERR	FCB	/DRIVE ERRORS/
04810	2AAC	04			FCB	4
04830	2AAD	CE	306F	GETPAS	LDX	#PASSWD
04840	2AB0	20	03		BRA	GETNAO
04850	2AB2	CE	3067	GETNAM	LDX	#NAME
04860	2AB5	FF	3061	GETNAO	STX	TEMPX1
04870	2AB8	C6	08		LDA B	#8
04880	2ABA	86	20		LDA A	##\$20
04890	2ABC	A7	00	GETNOS	STA A	0, X
04900	2ABE	08			INX	
04910	2ABF	5A			DEC B	
04920	2AC0	26	FA		BNE	GETNOS
04930	2AC2	FE	3000		LDX	BUFNXT
04940	2AC5	A6	00	GETNA1	LDA A	0, X
04950	2AC7	08			INX	
04960	2AC8	FF	3000		STX	BUFNXT
04970	2ACB	81	20		CMP A	##\$20
04980	2ACD	27	20		BEQ	GETNEX
04990	2ACF	81	04		CMP A	##\$04
05000	2AD1	27	1C		BEQ	GETNEX
05010	2AD3	81	2C		CMP A	#\$'

05020	2A05	27	18		BEQ	GETNEX
05030	2A07	FE	3061		LDX	TEMPX1
05040	2A0A	A7	00		STA A	O,X
05050	2A0C	08			INX	
05060	2A0D	8C	306F		CPX	#NAME+8
05070	2A0E	27	0D		BEQ	GETNEX
05080	2A0E	8C	3077		CPX	#PASSWD+8
05090	2A0F	27	08		BEQ	GETNEX
05100	2A0F	FF	3061		STX	TEMPX1
05110	2A0A	FE	3000		LDX	BUFNXT
05120	2A0D	20	D6		BRA	GETNA1
05130	2A0F	39		GETNEX	RTS	
05150	2A0F	36		CLRPAS	PSH A	
05160	2A0F	C6	08		LDA B	#8
05170	2A0F	FF	3061		STX	TEMPX1
05180	2A0F	CE	306F		LDX	#PASSWD
05190	2A0F	86	20		LDA A	#\$20
05200	2A0F	A7	00	CLRPA1	STA A	O,X
05210	2A0D	08			INX	
05220	2A0E	5A			DEC B	
05230	2A0F	26	FA		BNE	CLRPA1
05240	2B01	FE	3061		LDX	TEMPX1
05250	2B04	32			PUL A	
05260	2B05	39			RTS	
05280	2B06	BD	2A72	MAKNAM	JSR	SELECT
05290	2B09	BD	28C8	MAKN	JSR	SKIPSP
05300	2B0C	81	04		CMP A	#\$04
05310	2B0E	27	0A		BEQ	MAKNAO
05320	2B10	81	30		CMP A	#\$30
05330	2B12	25	17		BCS	MAKNU1
05340	2B14	81	3A		CMP A	#\$3A
05350	2B16	24	13		BCC	MAKNU1
05360	2B18	20	EC		BRA	MAKNAM
05370	2B1A	CE	29AA	MAKNAO	LDX	#NAMMSG
05380	2B1D	BD	28A7		JSR	OUTNCR
05390	2B20	BD	284A		JSR	KEYBD
05400	2B23	CE	3004		LDX	#BUFFER
05410	2B26	FF	3000		STX	BUFNXT
05420	2B29	20	DE		BRA	MAKN
05430	2B2B	BD	2A02	MAKNU1	JSR	GETNAM
05440	2B2E	BD	2A0F		JSR	CLRPAS
05450	2B31	81	2C		CMP A	#Y
05460	2B33	26	03		BNE	*+5
05470	2B35	BD	2AAD		JSR	GETPAS
05480	2B38	39			RTS	
05500	2B39	BD	2A72	INIT	JSR	SELECT
05510	2B3C	CE	29F1		LDX	#SURMSG
05520	2B3F	BD	28A7		JSR	OUTNCR
05530	2B42	BD	284A		JSR	KEYBD
05540	2B45	CE	3004		LDX	#BUFFER
05550	2B48	BD	28C8		JSR	SKIPSP
05560	2B4B	81	59		CMP A	#Y
05570	2B4D	27	03		BEQ	*+5
05580	2B4F	7E	2A22		JMP	DOSTRT
05590	2B52	BD	2523		JSR	PRELIM
05600	2B55	4F			CLR A	

05610	2B56	97 00	STA A	TRACK		
05620	2B58	97 01	STA A	SECTOR		
05630	2B5A	D6 00	INIT1	LDA B	TRACK	
05640	2B5C	F7 801B		STA B	DATREG	
05650	2B5F	C6 1B		LDA B	#\$1B	SEEK, LOAD, NOVERIFY
05660	2B61	F7 8018		STA B	COMREG	
05670	2B64	BD 27C4		JSR	RETURN	
05680	2B67	BD 27C4		JSR	RETURN	
05690	2B6A	F6 8018	INIT11	LDA B	COMREG	
05700	2B6D	C5 01		BIT B	#1	
05710	2B6F	26 F9		BNE	INIT11	
05720	2B71	C6 F4		LDA B	#\$F4	2 WRITE TRACK
05730	2B73	F7 8018		STA B	COMREG	
05740	2B76	C6 2E		LDA B	#46 2	
05750	2B78	4F		CLR A	2	
05760	2B79	BD 2C70	INIT2	JSR	UNPACK	
05770	2B7C	5A		DEC B		
05780	2B7D	26 FA		BNE	INIT2	
05790	2B7F	86 FC		LDA A	#\$FC	
05800	2B81	BD 2C70		JSR	UNPACK	
05810	2B84	C6 0B		LDA B	#11	
05820	2B86	4F		CLR A		
05830	2B87	BD 2C70	INIT22	JSR	UNPACK	
05840	2B8A	5A		DEC B		
05850	2B8B	26 FA		BNE	INIT22	
05860	2B8D	C6 06	INIT3	LDA B	#6	
05870	2B8F	4F		CLR A		
05880	2B90	BD 2C70	INIT31	JSR	UNPACK	
05890	2B93	5A		DEC B		
05900	2B94	26 FA		BNE	INIT31	
05910	2B96	86 FE		LDA A	#\$FE	
05920	2B98	BD 2C70		JSR	UNPACK	
05930	2B9B	96 00		LDA A	TRACK	
05940	2B9D	BD 2C70		JSR	UNPACK	
05950	2BA0	4F		CLR A		
05960	2BA1	BD 2C70		JSR	UNPACK	
05970	2BA4	96 01		LDA A	SECTOR	
05980	2BA6	BD 2C70		JSR	UNPACK	
05990	2BA9	86 01		LDA A	#\$01	
06000	2BAB	BD 2C70		JSR	UNPACK	
06010	2BAE	86 F7		LDA A	#\$F7	
06020	2BB0	BD 2C70		JSR	UNPACK	
06030	2BB3	C6 11		LDA B	#17	
06040	2BB5	4F		CLR A		
06050	2BB6	BD 2C70	INIT33	JSR	UNPACK	
06060	2BB9	5A		DEC B		
06070	2BBA	26 FA		BNE	INIT33	
06080	2BBC	86 FB		LDA A	#\$FB	
06090	2BBE	BD 2C70		JSR	UNPACK	
06100	2BC1	5F		CLR B		
06110	2BC2	86 E5		LDA A	#\$E5	
06120	2BC4	BD 2C70	INIT35	JSR	UNPACK	
06130	2BC7	5A		DEC B		
06140	2BC8	26 FA		BNE	INIT35	
06150	2BCA	86 F7		LDA A	#\$F7	
06160	2BCC	BD 2C70		JSR	UNPACK	
06170	2BCF	C6 0B		LDA B	#11	
06180	2BD1	4F		CLR A		

06190	2BD2	BD	2C70	INIT37	JSR	UNPACK
06200	2BD5	5A			DEC B	
06210	2BD6	26	FA		BNE	INIT37
06220	2BD8	D6	01		LDA B	SECTOR
06230	2BDA	5C			INC B	
06240	2BDB	D7	01		STA B	SECTOR
06250	2BDD	C1	0A		CMP B	#10
06260	2BDF	26	AC		BNE	INIT3
06270	2BE1	F6	8018	INIT4	LDA B	COMREG
06280	2BE4	C5	01		BIT B	#1
06290	2BE6	27	02		BEQ	INIT45
06300	2BE8	20	F7		BRA	INIT4
06310	2BEA	4F		INIT45	CLR A	
06320	2BEB	97	01		STA A	SECTOR
06330	2BED	96	00		LDA A	TRACK
06340	2BEF	4C			INC A	
06350	2BF0	97	00		STA A	TRACK
06360	2BF2	81	23		CMP A	#35
06370	2BF4	27	03		BEQ	INIT5
06380	2BF6	7E	2B5A		JMP	INIT1
06390	2BF9	4F		INIT5	CLR A	
06400	2BFA	97	00		STA A	TRACK
06410	2BFC	97	01		STA A	SECTOR
06420	2BFE	CE	2FFF		LDX	#\$2FFF
06430	2C01	DF	06		STX	EMEMH
06440	2C03	CE	2400		LDX	#\$2400
06450	2C06	BD	255F		JSR	WRITE
06460	2C09	4F			CLR A	
06470	2C0A	97	01		STA A	SECTOR
06480	2C0C	86	02		LDA A	#2
06490	2C0E	97	00		STA A	TRACK
06500	2C10	CE	3176		LDX	#DBUFFR+255
06510	2C13	DF	06		STX	EMEMH
06520	2C15	CE	3077		LDX	#DBUFFR
06521	2C18	86	24		LDA A	#'\$
06522	2C1A	A7	00		STA A	0, X
06523	2C1C	08			INX	
06524	2C1D	86	44		LDA A	#'D
06525	2C1F	A7	00		STA A	0, X
06526	2C21	08			INX	
06527	2C22	86	4F		LDA A	#'O
06528	2C24	A7	00		STA A	0, X
06529	2C26	08			INX	
06530	2C27	86	53		LDA A	#'S
06531	2C29	A7	00		STA A	0, X
06532	2C2B	C6	0C		LDA B	#12
06533	2C2D	86	20		LDA A	#\$20
06534	2C2F	08			INX	
06535	2C30	A7	00	INIT51	STA A	0, X
06536	2C32	08			INX	
06537	2C33	5A			DEC B	
06538	2C34	26	FA		BNE	INIT51
06539	2C36	6F	01		CLR	1, X
06540	2C38	6F	02		CLR	2, X
06541	2C3A	6F	04		CLR	4, X
06542	2C3C	86	14		LDA A	#20
06543	2C3E	A7	03		STA A	3, X
06544	2C40	86	FF		LDA A	#\$FF

06546	2C42	A7	10	STA A	16, X
06550	2C44	86	03	LDA A	#\$03
06560	2C46	A7	20	STA A	32, X
06570	2C48	4F		CLR A	
06580	2C49	A7	21	STA A	33, X
06590	2C4B	A7	24	STA A	36, X
06592	2C4D	6F	00	CLR	0, X
06593	2C4F	9F	09	STS	SAVEX
06594	2C51	8E	2400	LDS	#\$2400
06595	2C54	AF	05	STS	5, X
06596	2C56	8E	2FFF	LDS	#\$2FFF
06597	2C59	AF	07	STS	7, X
06598	2C5B	8E	2600	LDS	#\$2600
06599	2C5E	AF	09	STS	9, X
06600	2C60	8E	014A	LDS	#\$014A      NUMBER OF SECDTRS
06610	2C63	AF	22	STS	34, X
06620	2C65	9E	09	LDS	SAVEX
06635	2C67	CE	3077	LDX	#DEUFFR
06640	2C6A	BD	2561	JSR	WRITEO
06650	2C6D	7E	2A22	JMP	DOSTRT
06670	2C70	37		UNPACK	PSH B
06680	2C71	F6	8018	UNPAC1	LDA B
06690	2C74	C5	02	BIT B	#2
06700	2C76	27	F9	BEQ	UNPAC1
06710	2C78	B7	801B	STA A	DATREG
06720	2C7B	33		PUL B	
06730	2C7C	39		RTS	
06750	2C7D	4F		CREATE	CLR A
06760	2C7E	B7	3058	STA A	TYPE
06770	2C81	BD	2B06	JSR	MAKNAM
06780	2C84	CE	29DE	CREAT2	LDX
06790	2C87	BD	28A7	JSR	OUTNCR
06800	2C8A	BD	284A	JSR	KEYBD
06810	2C8D	CE	3004	LDX	#BUFFER
06820	2C90	BD	2DFB	JSR	BYTE
06830	2C93	25	EF	BOS	CREAT2
06840	2C95	B7	3057	STA A	NEEDNO
06850	2C98	CE	0000	LDX	#\$0000
06860	2C9B	FF	3059	STX	STARTX
06880	2C9E	FF	305B	STX	ENDX
06890	2CA1	CE	2600	LDX	#DOS
06900	2CA4	FF	305D	STX	GOX
06910	2CA7	FF	305F	STX	HILINE
06920	2CAA	86	02	LDA A	#2
06930	2CAC	B7	3054	STA A	CREFLG
06940	2CAF	BD	264D	JSR	LIB1
06950	2CB2	7E	2A22	JMP	DOSTRT
06952	2CB5	BD	2A72	JSR	SELECT
06954	2CB8	BD	2523	JSR	PRELIM
06956	2CBB	7E	2A22	JMP	DOSTRT

06970	2CBE	86 FF	RENAME	LDA A	#\$FF
06980	2CC0	B7 3058		STA A	TYPE
06990	2CC3	BD 2B06		JSR	MAKNAM
07000	2CC6	BD 2641		JSR	RLIB
07010	2CC9	86 02		LDA A	#\$02
07020	2CCB	97 00		STA A	TRACK
07030	2CCD	B6 3056		LDA A	LIBSEC
07040	2CDD	97 01		STA A	SECTOR
07050	2CD2	FF 3063		STX	TEMPX2
07060	2CD5	CE 2A13		LDX	#NEWMSG
07070	2CD8	BD 28A7		JSR	OUTNCR
07080	2CDB	BD 2B1A		JSR	MAKNAO
07090	2CDE	C6 10		LDA B	#16
07100	2CEO	FE 3063		LDX	TEMPX2
07110	2CE3	9F 09		STS	SAVEX
07120	2CE5	0F		SEI	
07130	2CE6	8E 3066		LDS	#NAME-1
07140	2CE9	32	REN2	PUL A	
07150	2CEA	A7 00		STA A	0, X
07160	2CEC	08		INX	
07170	2CED	5A		DEC B	
07180	2CEE	26 F9		BNE	REN2
07190	2CF0	9E 09		LDS	SAVEX
07200	2CF2	01		NOP	
07210	2CF3	0E		CLI	
07220	2CF4	20 2A		BRA	PURGE3
07240	2CF6	86 FF	PURGE	LDA A	#\$FF
07250	2CF8	B7 3058		STA A	TYPE
07260	2CFB	BD 2B06		JSR	MAKNAM
07270	2CFE	B6 3067	PURGE1	LDA A	NAME
07280	2D01	81 24		CMP A	#\$
07290	2D03	26 03		BNE	*+5
07300	2D05	7E 2DAS		JMP	GOAWAY
07310	2D08	BD 2641		JSR	RLIB
07320	2D0B	86 02		LDA A	#\$02
07330	2D0D	97 00		STA A	TRACK
07340	2D0F	B6 3056		LDA A	LIBSEC
07350	2D12	97 01		STA A	SECTOR
07360	2D14	6F 14		CLR	20, X
07370	2D16	C6 10		LDA B	#16
07380	2D18	86 20		LDA A	#\$20
07390	2D1A	A7 00	PURGE2	STA A	0, X
07400	2D1C	08		INX	
07410	2D1D	5A		DEC B	
07420	2D1E	26 FA		BNE	PURGE2
07430	2D20	DE 0B	PURGE3	LDX	PROGX
07440	2D22	FF 3065		STX	TEMPX3
07450	2D25	CE 2D2A		LDX	#PURGE4
07460	2D28	DF 0B		STX	PROGX
07470	2D2A	CE 3176	PURGE4	LDX	#DBUFFR+255
07480	2D2D	DF 06		STX	EMEMH
07490	2D2F	CE 3077		LDX	#DBUFFR
07500	2D32	BD 255F		JSR	WRITE
07510	2D35	FE 3065		LDX	TEMPX3
07520	2D38	DF 0B		STX	PROGX
07530	2D3A	7E 2A22		JMP	DOSTRT

07550	2D3D	86	22	LOAD	LDA A	#\$22
07560	2D3F	B7	3058		STA A	TYPE
07570	2D42	8D	03		BSR	LOADO
07580	2D44	7E	2A22		JMP	DOSTRT
07600	2D47	BD	2B06	LOADO	JSR	MAKNAM
07610	2D4A	BD	2641		JSR	RLIB
07620	2D4D	DE	04	LOAD3	LDX	BMEMH
07630	2D4F	BD	242E		JSR	READO
07640	2D52	FE	305D		LDX	GOX
07650	2D55	FF	A048		STX	\$A048
07660	2D58	39			RTS	
07680	2D59	86	22	RUN	LDA A	#\$22
07690	2D5B	B7	3058		STA A	TYPE
07700	2D5E	8D	E7	RUNO	BSR	LOADO
07710	2D60	8E	A049		LDS	#\$A049
07720	2D63	6E	00		JMP	O, X
07740	2D65	86	22	SAVE	LDA A	#\$22
07750	2D67	B7	3058		STA A	TYPE
07760	2D6A	BD	2B06		JSR	MAKNAM
07770	2D6D	CE	29B4	SAVE2	LDX	#FIRADD
07780	2D70	BD	2D05		JSR	GET4
07790	2D73	FF	3059		STX	STARTX
07800	2D76	CE	29C2		LDX	#LASADD
07810	2D79	BD	2D05		JSR	GET4
07820	2D7C	FF	305B		STX	ENDX
07830	2D7F	CE	29D0		LDX	#PSTART
07840	2D82	BD	2D05		JSR	GET4
07850	2D85	FF	305D		STX	GOX
07860	2D88	B6	3067		LDA A	NAME
07870	2D8B	81	24		CMP A	#\$'
07880	2D8D	26	1F		BNE	SAVE3
07890	2D8F	B6	11		LDA A	#\$11
07900	2D91	B7	3058		STA A	TYPE
07910	2D94	BD	284A		JSR	KEYBD
07920	2D97	B6	3004		LDA A	BUFFER
07930	2D9A	81	24		CMP A	#\$'
07940	2D9C	26	07		BNE	GOAWAY
07950	2D9E	B6	3005		LDA A	BUFFER+1
07960	2DA1	81	24		CMP A	#\$'
07970	2DA3	27	09		BEQ	SAVE3
07980	2DA5	CE	2DB9	GOAWAY	LDX	#NOSIR
07990	2DA8	BD	289F		JSR	OUTPUT
08000	2DAB	7E	2A22		JMP	DOSTRT
08010	2DAE	BD	2645	SAVE3	JSR	WLIB
08020	2DB1	DE	04		LDX	BMEMH
08030	2DB3	BD	2561		JSR	WRITE0
08040	2DB6	7E	2A22		JMP	DOSTRT
08060	2DB9	53		NOSIR	FCC	/SYSTEM FILE - ACCESS DENIED/
08070	2DD4	04			FCB	4
08090	2DD5	FF	3061	GET4	STX	TEMPX1
08100	2DD8	FE	3061	GET40	LDX	TEMPX1
08110	2DDB	BD	28A7		JSR	OUTNCR
08120	2DDE	BD	284A		JSR	KEYBD
08130	2DE1	CE	3004		LDX	#BUFFER
08140	2DE4	BD	28C8		JSR	SKIPSP
08150	2DE7	BD	12		BSR	BYTE
08160	2DE9	25	ED		BCS	GET40

08170	2DEB	B7	2DF9		STA A	XHI
08180	2DEE	80	0B		BSR	BYTE
08190	2DFO	25	E6		BCS	GET40
08200	2DF2	B7	2DFA		STA A	XLO
08210	2DF5	FE	2DF9		LDX	XHI
08220	2DF8	39			RTS	
08230	2DF9	0001		XHI	RMB	1
08240	2DFA	0001		XLO	RMB	1
08260	2DFB	80	OE	BYTE	BSR	INHEX
08270	2DFD	25	OB		BCS	OUTBYT
08280	2DFF	48			ASL A	
08290	2E00	48			ASL A	
08300	2E01	48			ASL A	
08310	2E02	48			ASL A	
08320	2E03	16			TAB	
08330	2E04	80	05		BSR	INHEX
08340	2E06	25	02		BCS	OUTBYT
08350	2E08	1B			ABA	
08360	2E09	0C			CLC	
08370	2E0A	39		OUTBYT	RTS	
08390	2E0B	A6	00	INHEX	LDA A	0, X
08400	2E0D	08			INX	
08410	2E0E	80	30		SUB A	#\$30
08420	2E10	2B	10		BMI	NOTHEX
08430	2E12	81	09		CMP A	#\$09
08440	2E14	2F	0A		BLE	YESHEX
08450	2E16	81	11		CMP A	#\$11
08460	2E18	2B	08		BMI	NOTHEX
08470	2E1A	81	16		CMP A	#\$16
08480	2E1C	2E	04		BTG	NOTHEX
08490	2E1E	80	07		SUB A	#7
08500	2E20	0C		YESHEX	CLC	
08510	2E21	39			RTS	
08520	2E22	0D		NOTHEX	SEC	
08530	2E23	39			RTS	
08550	2E24	C6	FF	FILES	LDA B	#\$FF
08560	2E26	F7	3054		STA B	CREFLG
08570	2E29	20	03		BRA	CATALO
08580	2E2B	7F	3054	CATAL	CLR	CREFLG
08590	2E2E	BD	2A72	CATALO	JSR	SELECT
08600	2E31	86	02		LDA A	#2
08610	2E33	97	00		STA A	TRACK
08620	2E35	4F			CLR A	
08630	2E36	97	01		STA A	SECTOR
08640	2E38	BD	2523		JSR	PRELIM
08650	2E3B	86	10		LDA A	#\$10
08660	2E3D	BD	2634		JSR	OUTCH
08670	2E40	86	16		LDA A	#\$16
08680	2E42	BD	2634		JSR	OUTCH
08690	2E45	C6	03		LDA B	#3
08700	2E47	37			PSH B	
08710	2E48	CE	3176	CATAL1	LDX	#DBUFFR+255
08720	2E4B	DF	06		STX	EMEMH
08730	2E4D	CE	3077		LDX	#DBUFFR
08740	2E50	BD	242E		JSR	READO
08750	2E53	CE	3077		LDX	#DBUFFR
08770	2E56	A6	00	CATAL2	LDA A	0, X
08780	2E58	81	FF		CMP A	#\$FF

08790	2E5A	27	4D		BEQ	CATEX
08800	2E5C	C6	08		LDA B	#8
08810	2E5E	A6	00	CATAL3	LDA A	0, X
08820	2E60	BD	2634		JSR	OUTCH
08830	2E63	08			INX	
08840	2E64	5A			DEC B	
08850	2E65	26	F7		BNE	CATAL3
08860	2E67	C6	08		LDA B	#8
08870	2E69	08		CATAL4	INX	
08880	2E6A	5A			DEC B	
08890	2E6B	26	FC		BNE	CATAL4
08900	2E6D	86	20		LDA A	#\$20
08905	2E6F	BD	2634		JSR	OUTCH
08910	2E72	7D	3054		TST	CREFLG
08920	2E75	27	16		BEQ	CATA45
08940	2E77	8D	74		BSR	OUT2HS
08950	2E79	8D	72		BSR	OUT2HS
08960	2E7B	08			INX	
08970	2E7C	8D	6F		BSR	OUT2HS
08980	2E7E	8D	6D		BSR	OUT2HS
08990	2E80	8D	69		BSR	OUT4HS
09000	2E82	8D	67		BSR	OUT4HS
09010	2E84	8D	65		BSR	OUT4HS
09020	2E86	BD	28AE		JSR	CRLF
09030	2E89	C6	05		LDA B	#5
09040	2E8B	20	10		BRA	CATAL6
09050	2E8D	33		CATA45	PUL B	
09060	2E8E	5A			DEC B	
09070	2E8F	26	05		BNE	CATA46
09080	2E91	BD	28AE		JSR	CRLF
09090	2E94	C6	03		LDA B	#3
09100	2E96	37		CATA46	PSH B	
09110	2E97	C6	10		LDA B	#16
09120	2E99	20	02		BRA	CATAL6
09130	2E9B	C6	20	CATAL5	LDA B	#32
09140	2E9D	08		CATAL6	INX	
09150	2E9E	5A			DEC B	
09160	2E9F	26	FC		BNE	CATAL6
09170	2EA1	09			DEX	
09180	2EA2	9C	06		CPX	EMEMH
09190	2EA4	27	A2		BEQ	CATAL1
09200	2EA6	08			INX	
09210	2EA7	20	AD		BRA	CATAL2
09220	2EA9	FF	3061	CATEX	STX	TEMPX1
09230	2EAC	33			PUL B	
09250	2EAD	BD	28AE		JSR	CRLF
09260	2EB0	CE	2EC8		LDX	#REMMSG
09270	2EB3	BD	28A7		JSR	OUTNCR
09280	2EB6	FE	3061		LDX	TEMPX1
09290	2EB9	C6	12		LDA B	#18
09300	2EBB	08		CATEX1	INX	
09310	2EBC	5A			DEC B	
09320	2EBD	26	FC		BNE	CATEX1
09330	2EBF	BD	2EEB		JSR	OUT4HS
09340	2EC2	BD	28AE		JSR	CRLF
09350	2EC5	7E	2A22		JMP	DOSTRT
09370	2EC8	53		REMMSG	FCC	/SECTORS REMAINING (HEX) /

09380	2EE1	04		FCB	4
09400	2EE2	A6 00	OUT2H	LDA A	0, X
09410	2EE4	8D 0E	OUT2HA	BSR	OUTHL
09420	2EE6	A6 00		LDA A	0, X
09430	2EE8	08		INX	
09440	2EE9	20 0D		BRA	OUTHR
09460	2EEB	8D F5	OUT4HS	BSR	OUT2H
09470	2EED	8D F3	OUT2HS	BSR	OUT2H
09480	2EEF	86 20	OUTS	LDA A	#\$20
09490	2EF1	7E 2634		JMP	OUTCH
09510	2EF4	44	OUTHL	LSR A	
09520	2EF5	44		LSR A	
09530	2EF6	44		LSR A	
09540	2EF7	44		LSR A	
09560	2EF8	84 0F	OUTHR	AND A	#\$F
09570	2EFA	8B 30		ADD A	#\$30
09580	2EFC	81 39		CMP A	#\$39
09590	2EFE	23 02		BLS	OUTHHH
09600	2F00	8B 07		ADD A	#\$7
09610	2F02	7E 2634	OUTHHH	JMP	OUTCH
09630	2F05	BD 2A72	TEST	JSR	SELECT
09640	2F08	BD 2523		JSR	PRELIM
09650	2F0B	CE 2F30		LDX	#TEST2
09660	2F0E	DF 0B		STX	PROGX
09670	2F10	86 00		LDA A	#0
09680	2F12	97 00		STA A	TRACK
09690	2F14	97 01		STA A	SECTOR
09700	2F16	CE 19FF		LDX	#\$19FF
09710	2F19	DF 06		STX	EMEMH
09720	2F1B	CE 1000	TEST1	LDX	#\$1000
09730	2F1E	BD 242E		JSR	READO
09740	2F21	96 00		LDA A	TRACK
09750	2F23	81 23		CMP A	#35
09760	2F25	26 F4		BNE	TEST1
09770	2F27	CE 2A18		LDX	#TSTDON
09780	2F2A	BD 289F		JSR	OUTPUT
09790	2F2D	7E 2A22		JMP	DOSRT
09800	2F30	96 01	TEST2	LDA A	SECTOR
09810	2F32	4C		INC A	
09820	2F33	81 0A		CMP A	#10
09830	2F35	26 04		BNE	TEST3
09840	2F37	4F		CLR A	
09850	2F38	7C 0000		INC	TRACK
09855	2F3B	97 01	TEST3	STA A	SECTOR
09860	2F3D	20 DC		BRA	TEST1
09870				END	

TOTAL ERRORS 00000

00010 NAM SWTPIO  
00020 \*\*\*\*\*VERSION 1.0 \*\*\*\*\*

00030 \*WRITTEN BY R. H. UITERWYK

00040		OPT	NOG
00050		OPT	OBJ
00070	2600	DOS	EQU \$2600
00080	8014	DRVREG	EQU \$8014
00090	8018	COMREG	EQU \$8018
00100	8019	TRKREG	EQU \$8019
00110	801A	SECREG	EQU \$801A
00120	801B	DATREG	EQU \$801B
00150	0000		ORG \$0000
00160	0000 0001	TRACK	RMB 1
00170	0001 0001	SECTOR	RMB 1
00180	0002 0001	STATUS	RMB 1
00190	0003 0001	ERRCNT	RMB 1
00200	0004 0001	EMEMH	RMB 1
00210	0005 0001	EMEML	RMB 1
00220	0006 0001	EMEMH	RMB 1
00230	0007 0001	EMEML	RMB 1
00240	0008 0001	NOSECT	RMB 1
00250	0009 0002	SAVEX	RMB 2
00260	000B 0002	PROGX	RMB 2
00270	000D 0001	NDRIVE	RMB 1
00280	000E 0004	ATRACK	RMB 4
00290	0012 0002	FRELEX	RMB 2

00310	2400		ORG \$2400
00320	2400 BD 240C	START	JSR BOOT
00330	2403 DE 0B	RESTRRT	LDX PROGX
00340	2405 8E A049		LDS #\$A049
00350	2408 AD 00		JSR O, X
00360	240A 20 F7		BRA RESTRRT
00370	240C CE 240C	BOOT	LDX #BOOT
00380	240F DF 0B		STX PROGX
00390	2411 4F		CLR A
00400	2412 97 0D		STA A NDRIVE
00410	2414 97 00		STA A TRACK
00420	2416 86 02		LDA A #2
00430	2418 97 01		STA A SECTOR
00440	241A CE 2FFF		LDX #\$2FFF
00450	241D DF 06		STX EMEMH
00460	241F CE 2600		LDX #DOS
00470	2422 8D 07		BSR READ
00480	2424 CE 2600		LDX #DOS
00490	2427 DF 0B		STX PROGX
00500	2429 6E 00		JMP O, X
00520	242B BD 2523	READ	JSR PRELIM
00530	242E BD 250E	READO	JSR SEEK
00540	2431 DF 04	READ2	STX EMEMH
00550	2433 7F 0003		CLR ERRCNT
00560	2436 DE 04	READ3	LDX EMEMH
00570	2438 D6 01		LDA B SECTOR
00580	243A F7 801A		STA B SECREG

00590	243D	BD	2489	JSR	RETURN	
00600	2440	C6	9C	LDA B	#\$9C	MULTIPLE READ W/LOAD IBM FORM
00610	2442	F7	8018	STA B	COMREG	
00620	2445	BD	2489	JSR	RETURN	DELAY 14 CYCLES
00630	2448	BD	2489	JSR	RETURN	
00640	244B	BD	2489	JSR	RETURN	
00650	244E	F6	8018	READ4	LDA B	COMREG 4
00660	2451	C5	01	BIT B	#1	2
00670	2453	27	10	BEQ	READ6	4
00680	2455	C5	02	READ5	BIT B	#2
00690	2457	27	F5	BEQ	READ4	4
00700	2459	B6	801B	LDA A	DATREG	4
00710	245C	A7	00	STA A	O, X	5
00720	245E	9C	06	CPX	EMEMH	6
00730	2460	27	0C	BEQ	READ7	4
00740	2462	08		INX		4
00750	2463	20	E9	BRA	READ4	4
00760	2465	BD	0F	READ6	BSR	CHKERR
00770	2467	26	CD	BNE	READ3	
00780	2469	BD	24F8	JSR	INCSEC	
00790	246C	20	CO	BRA	READ0	
00800	246E	BD	06	READ7	BSR	CHKERR
00810	2470	26	C4	BNE	READ3	
00820	2472	BD	24F8	JSR	INCSEC	
00830	2475	39		RTS		
00850	2476	F6	8018	CHKERR	LDA B	COMREG
00860	2479	D7	02	STA B	STATUS	
00870	247B	86	DO	LDA A	#\$DO	FORCE INTERRUPT
00880	247D	B7	8018	STA A	COMREG	
00890	2480	BD	25D7	JSR	DONE	
00900	2483	D6	02	LDA B	STATUS	
00910	2485	C4	1C	AND B	#\$1C	
00920	2487	26	01	BNE	CHKER1	
00930	2489	39		RETURN	RTS	
00940	248A	C4	10	CHKER1	AND B	#\$10
00950	248C	27	09	BEQ	CHKER3	
00960	248E	F6	801A	LDA B	SECREG	
00970	2491	C1	0A	CMP B	#10	
00980	2493	26	02	BNE	CHKER3	
00990	2495	5F		CLR B		
01000	2496	39		RTS		
01010	2497	D6	03	CHKER3	LDA B	ERRCNT
01020	2499	5C		INC B		
01030	249A	D7	03	STA B	ERRCNT	
01040	249C	C1	06	CMP B	#6	
01050	249E	26	E9	BNE	RETURN	
01060	24A0	F6	801A	LDA B	SECREG	
01070	24A3	D7	01	STA B	SECTOR	
01080	24A5	CE	0000	LDX	#TRACK	
01090	24A8	BD	4B	BSR	OUT4HS	
01100	24AA	BD	49	BSR	OUT4HS	
01110	24AC	CE	24D4	LDX	#CRLF	
01120	24AF	BD	41	BSR	PDATA	
01130	24B1	CE	24BE	LDX	#CHKMSG	
01140	24B4	BD	3C	ERROR	BSR	PDATA
01150	24B6	CE	24C7	LDX	#ERRMSG	
01160	24B9	BD	37	BSR	PDATA	
01170	24BB	7E	2403	JMP	RESTRT	

01190 24BE 0D	CHKMSG	FCB	\$0D, \$0A, \$15
01200 24C1 43		FCC	/CHECK/
01210 24C6 04		FCB	4
01220 24C7 20	ERRMSG	FCC	/ - DISK ERROR/
01230 24D4 0D	CRLF	FCB	\$0D, \$0A, \$15, 4
01240 24D8 0D	RDYMSG	FCB	\$0D, \$0A, \$15
01250 24DB 4E		FCC	/NOT READY/
01260 24E4 04		FCB	4
01270 24E5 0D	PROMSG	FCB	\$0D, \$0A, \$15
01280 24E8 50		FCC	/PROTECTED/
01290 24F1 04		FCB	4
01300 24F2 7E	E07E	PDATA	JMP \$E07E
01310 24F5 7E	EOC8	OUT4HS	JMP \$EOC8
01330 24F8 37		INCSEC	PSH B
01340 24F9 F6	801A	LDA B	SECREG
01350 24FC C1	0A	CMP B	#10
01360 24FE 26	07	BNE	INCSE2
01370 2500 7C	0000	INC	TRACK
01380 2503 BD	250E	JSR	SEEK
01390 2506 5F		CLR B	
01400 2507 D7	01	INCSE2	STA B SECTOR
01410 2509 F7	801A	STA B	SECREG
01420 250C 33		PUL B	
01430 250D 39		RTS	
01450 250E D6	00	SEEK	LDA B TRACK
01460 2510 F7	801B	STA B	DATREG
01470 2513 BD	2489	JSR	RETURN
01480 2516 C6	1B	LDA B	#\$1B LOAD & SEEK
01490 2518 F7	8018	STA B	COMREG
01510 251B BD	25D7	JSR	DONE
01520 251E C5	10	BIT B	#\$10
01530 2520 26	EC	BNE	SEEK
01540 2522 39		RTS	
01560 2523 36		PRELIM	PSH A
01570 2524 96	0D	LDA A	NDRIVE
01580 2526 BD	25AC	JSR	DRIVE
01590 2529 32		PUL A	
01600 252A DF	12	STX	PRELEX
01610 252C F6	8018	LDA B	COMREG
01620 252F CE	4FFF	LDX	#\$4FFF
01630 2532 08		PREL25	INX
01640 2533 09			DEX
01650 2534 09			DEX
01660 2535 26	FB	BNE	PREL25
01670 2537 C6	0B	LDA B	#\$0B LOAD + RESTORE
01680 2539 F7	8018	STA B	COMREG
01690 253C BD	25D7	JSR	DONE
01700 253F CE	4000	LDX	#\$4000
01710 2542 F6	8018	PREL35	LDA B COMREG
01720 2545 09			DEX
01730 2546 27	11	BEQ	PREL4
01740 2548 C5	02	BIT B	#\$02
01750 254A 26	F6	BNE	PREL35

01760	254C	F6	8018	PREL36	LDA B	COMREG
01770	254F	09			DEX	
01780	2550	27	07		BEQ	PREL4
01790	2552	C5	02		BIT B	#\$02
01800	2554	27	F6		BEQ	PREL36
01810	2556	DE	12		LDX	PRELEX
01820	2558	39			RTS	
01830	2559	CE	24D8	PREL4	LDX	#RDYMSG
01840	255C	7E	24B4	PREL45	JMP	ERROR
01880	255F	8D	C2	WRITE	BSR	PRELIM
01890	2561	8D	AB	WRITE0	BSR	SEEK
01900	2563	7F	0003	WRITE1	CLR	ERRCNT
01910	2566	DF	04		STX	EMEMH
01920	2568	DE	04	WRITE2	LDX	EMEMH
01930	256A	D6	01		LDA B	SECTOR
01940	256C	F7	801A		STA B	SECREG
01950	256F	BD	2489		JSR	RETURN
01960	2572	C6	BC		LDA B	##BC
01970	2574	F7	8018		STA B	COMREG
01980	2577	BD	2489		JSR	RETURN
01990	257A	BD	2489		JSR	RETURN
02000	257D	BD	2489		JSR	RETURN
02010	2580	F6	8018	WRITE3	LDA B	COMREG
02020	2583	C5	01		BIT B	#1
02030	2585	27	10		BEQ	WRITE6
02040	2587	C5	02	WRITE4	BIT B	#2
02050	2589	27	F5		BEQ	WRITE3
02060	258B	A6	00		LDA A	O,X
02070	258D	B7	801B		STA A	DATREG
02080	2590	9C	06		CPX	EMEMH
02090	2592	27	11		BEQ	WRITE7
02100	2594	08			INX	
02110	2595	20	E9		BRA	WRITE3
02120	2597	C9	40	WRITE6	BIT B	##\$40
02130	2599	27	05		BEQ	**+7
02140	259B	CE	24E5		LDX	#PROMSG
02150	259E	20	BC		BRA	PREL45
02160	25A0	BD	24F8		JSR	INCSEC
02170	25A3	20	BE		BRA	WRITE1
02180	25A5	BD	25D7	WRITE7	JSR	DONE
02190	25A8	BD	24F8		JSR	INCSEC
02200	25AB	39			RTS	

MULTIPLE WRITE W/LOAD IEM FOR  
BUSYFLAG  
DRQ FLAG

02220 25AC 84 03 DRIVE AND A #\\$03  
02230 25AE 36 PSH A  
02240 25AF DF 12 STX PRELEX  
02250 25B1 CE 000D LDX #ATTRACK-1  
02260 25B4 4C INC A  
02270 25B5 16 TAB  
02280 25B6 96 0D LDA A NDRIVE  
02290 25B8 4C INC A  
02300 25B9 08 DRIVE0 INX  
02310 25BA 4A DEC A  
02320 25BB 26 FC BNE DRIVE0  
02330 25BD B6 8019 LDA A TRKREG  
02340 25C0 A7 00 STA A O, X  
02350 25C2 CE 000D LDX #ATTRACK-1  
02360 25C5 08 DRIVE1 INX  
02370 25C6 5A DEC B  
02380 25C7 26 FC BNE DRIVE1  
02390 25C9 A6 00 LDA A O, X  
02400 25CB B7 8019 STA A TRKREG  
02410 25CE 32 PUL A  
02420 25CF 97 0D STA A NDRIVE  
02430 25D1 B7 8014 STA A DRVREG  
02440 25D4 DE 12 LDX PRELEX  
02450 25D6 39 RTS  
02470 25D7 BD 2489 DONE JSR RETURN  
02480 25DA BD 2489 JSR RETURN  
02490 25DD F6 8018 LDA B COMREG  
02500 25E0 C5 01 BIT B #1  
02510 25E2 26 F3 BNE DONE  
02520 25E4 39 RTS  
02540 END

TOTAL ERRORS 00000