

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	<i>F528</i>	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	<i>F530</i>	STA	B	COMREG
00200	0111 8D 2A	<i>F530</i>	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	<i>F532</i>	CLR		SECREG
00250	011D 8D 1E		BSR		RETURN
00260	011F C6 9C		LDA	B	##9C
00270	0121 F7 8018	<i>FF30</i>	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	<i>F533</i>	LDA	A	DATREG
00330	0130 A7 00		STA	A	0, X
00340	0132 08	<i>F533</i>	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

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	DECPNT	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	DEUFFR	RMB 256
00430	3177	0020	OVERFL	RMB 32

00450	2600		ORG	\$2600
00470	2600	CE 2986	DOS	LDX #COPMSG
00472	2603	86 FF		LDA A #\$FF
00474	2605	B7 3055		STA A DECPNT
00476	2608	BD 289F		JSR OUTPUT
00478	260B	8E A049	DOS1	LDS #\$A049
00479	260E	BD 2A22		JSR DOSTRT
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

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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      DECPNT
00532 2637 26 DA          BNE      OUTCHA
00533 2639 20 DE          BRA      PRNCHA
00536 263B 7F 3055 PRINT  CLR      DECPNT
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 BD 2523          JSR     PRELIM
00670 2658 96 01      LIB2   LDA A    SECTOR
00680 265A B7 3056          STA A    LIBSEC
00690 265D CE 3176          LDX     #DBUFFR+255
00700 2660 DF 06          STX     MEMMH
00710 2662 CE 3077          LDX     #DBUFFR
00720 2665 BD 242E          JSR     READO
00730 2668 CE 3077          LDX     #DBUFFR
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     #FASERR

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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
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	0, 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

IS IT READ

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	2E	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	0A		SUB	B	#10	
01690	2716	24	FB		BCC		LIB79	
01700	2718	4A			DEC	A		
01710	2719	CE	0A		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	WRITE0
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	#TYFERR
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	GOX
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

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02690 2842 CE 2896 DEL      LDX      #DELMMSG
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 285E 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    0, 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    0, 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 8D 06      OUTPUT BSR      OUTNCR
03160 28A1 20 0B          BRA      CRLF
03170 28A3 BD 2634 OUTPUT1 JSR      OUTCH
03180 28A6 08          INX
03190 28A7 A6 00      OUTNCR LDA A    0, X
03200 28A9 81 04          CMP A    ##04
03210 28AB 26 F6          BNE     OUTPUT1
03220 28AD 39          RTS
03240 28AE FF 28C6 CRLF  STX      CRLFXX
03250 28B1 CE 28BA          LDX      #CRLFST
03260 28B4 8D F1          BSR      OUTNCR
03270 28B6 FE 28C6        LDX      CRLFXX
03280 28B9 39          RTS

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03300	28BA	0D		CRLFST	FCB	\$0D, \$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

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			FUL	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		LOOP5
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		

03750	2906	4C		DOSLIS	FCC		/LOAD/
03760	290A	00			FCB		0
03770	290B	2D3D			FDB		LOAD
03780	290D	52			FCC		/RUN/
03790	2910	00			FCB		0
03800	2911	2D59			FDB		RUN
03810	2913	53			FCC		/SAVE/
03820	2917	00			FCB		0
03830	2918	2D65			FDB		SAVE
03840	291A	45			FCC		/EXIT/



03850	291E	00	FCB	0
03860	291F	E0D0	FDB	\$E0D0
03870	2921	44	FCC	/DOS/
03880	2924	00	FCB	0
03890	2925	2600	FDB	DOS
03892	2927	50	FCC	/PACK/
03894	292B	00	FCB	0
03896	292C	2A52	FDB	PACK
03900	292E	49	FCC	/INIT/
03910	2932	00	FCB	0
03920	2933	2B39	FDB	INIT
03922	2935	54	FCC	/TEST/
03924	2939	00	FCB	0
03926	293A	2F05	FDB	TEST
03930	293C	43	FCC	/CATALOG/
03940	2943	00	FCB	0
03950	2944	2E2B	FDB	CATAL
03960	2946	43	FCC	/CAT/
03970	2949	00	FCB	0
03980	294A	2E2B	FDB	CATAL
03990	294C	46	FCC	/FILES/
04000	2951	00	FCB	0
04010	2952	2E24	FDB	FILES
04014	2954	48	FCC	/HOME/
04016	2958	00	FCB	0
04018	2959	2CB5	FDB	HOME
04020	295B	43	FCC	/CREATE/
04030	2961	00	FCB	0
04040	2962	2C7D	FDB	CREATE
04042	2964	50	FCC	/PRINT/
04044	2969	00	FCB	0
04046	296A	263B	FDB	PRINT
04050	296C	52	FCC	/RENAME/
04060	2972	00	FCB	0
04070	2973	2CBE	FDB	RENAME
04072	2975	44	FCC	/DELETE/
04073	297B	00	FCB	0
04074	297C	2CF6	FDB	PURGE
04080	297E	50	FCC	/PURGE/
04090	2983	00	COMEND FCB	0
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			FCC	/FDOS READY/
04117	2999	04			FCB	4
04120	299A	0D		RDYMSG	FCB	\$0D, \$0A, \$15, \$FF, \$FF
04130	299F	46			FCC	/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	DECPNT
04350	2A3A	CE	299A	READY	LDX	#RDYMSG
04360	2A3D	BD	289F		JSR	OUTPUT
04370	2A40	BD	2854	DOSTR2	JSR	KEYBDO
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	O, X
04510	2A64	FF	3000		STX	BUFNXT
04520	2A67	BD	2AF0		JSR	CLRPA5
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	LIB&5
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	FCC	/DRIVE ERROR/
04810	2AAC	04			FCB	4
04830	2AAD	CE	306F	GETPAS	LDX	#PASSWD
04840	2AB0	20	03		BRA	GETNA0
04850	2AB2	CE	3067	GETNAM	LIX	#NAME
04860	2AB5	FF	3061	GETNA0	STX	TEMPX1
04870	2AB8	C6	08		LDA B	#8
04880	2ABA	86	20		LDA A	##20
04890	2ABC	A7	00	GETN05	STA A	O, X
04900	2ABE	08			INX	
04910	2ABF	5A			DEC B	
04920	2AC0	26	FA		BNE	GETN05
04930	2AC2	FE	3000		LIX	BUFNXT
04940	2AC5	A6	00	GETNA1	LDA A	O, 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	2AD5	27	18		BEQ	GETNEX
05030	2AD7	FE	3061		LDX	TEMPX1
05040	2ADA	A7	00		STA A	O, X
05050	2ADC	08			INX	
05060	2ADD	8C	306F		CFX	#NAME+8
05070	2AE0	27	0D		BEQ	GETNEX
05080	2AE2	8C	3077		CFX	#PASSWD+8
05090	2AE5	27	08		BEQ	GETNEX
05100	2AE7	FF	3061		STX	TEMPX1
05110	2AEA	FE	3000		LDX	BUFNXT
05120	2AED	20	D6		BRA	GETNA1
05130	2AEF	39		GETNEX	RTS	
05150	2AF0	36		CLRFAS	PSH A	
05160	2AF1	C6	08		LDA B	#8
05170	2AF3	FF	3061		STX	TEMPX1
05180	2AF6	CE	306F		LDX	#PASSWD
05190	2AF9	86	20		LDA A	##20
05200	2AFB	A7	00	CLRFA1	STA A	O, X
05210	2AFD	08			INX	
05220	2AFE	5A			DEC B	
05230	2AFF	26	FA		BNE	CLRFA1
05240	2B01	FE	3061		LDX	TEMPX1
05250	2B04	32			FUL 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	2AB2	MAKNU1	JSR	GETNAM
05440	2B2E	BD	2AF0		JSR	CLRFAS
05450	2B31	81	2C		CMP A	#',
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 5
05740	2B76	C6	2E		LDA	B	#46 2
05750	2B78	4F			CLR	A	2
05760	2B79	BD	2C70	INIT2	JSR		UNPACK 9
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	EEMEMH
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	EEMEMH
06520	2C15	CE	3077		LDX	#DBUFFR
06521	2C18	86	24		LDA A	#'8
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	#'0
06528	2C24	A7	00		STA A	0, X
06529	2C26	08			INX	
06530	2C27	86	53		LDA A	#'8
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 SECOTRS
06610	2C63	AF	22		STS		34, X	
06620	2C65	9E	09		LDS		SAVEX	
06635	2C67	CE	3077		LDX		#DBUFFR	
06640	2C6A	BD	2561		JSR		WRITEO	
06650	2C6D	7E	2A22		JMP		DOSTRT	
06670	2C70	37		UNPACK	PSH	B		4
06680	2C71	F6	8018	UNPAC1	LDA	B	COMREG	45
06690	2C74	C5	02		BIT	B	#2	2
06700	2C76	27	F9		BEQ		UNPAC1	4
06710	2C78	B7	801B		STA	A	DATREG	35
06720	2C7B	33			PUL	B		H
06730	2C7C	39			RTS			5
06750	2C7D	4F		CREATE	CLR	A		29
06760	2C7E	B7	3058		STA	A	TYPE	
06770	2C81	BD	2B06		JSR		MAKNAM	
06780	2C84	CE	29DE	CREAT2	LDX		#SECNUM	
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		BCS		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	HOME	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	2CD0	97	01		STA	A	SECTOR
07050	2CD2	FF	3063		STX		TEMPX2
07060	2CD5	CE	2A13		LDX		#NEWMMSG
07070	2CD8	BD	28A7		JSR		OUTNCR
07080	2CDB	BD	2B1A		JSR		MAKNAO
07090	2CDE	C6	10		LDA	B	#16
07100	2CE0	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	O, 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			NOF		
07210	2CF3	0E			CLI		
07220	2CF4	20	2A		BRA		FURGE3
07240	2CF6	86	FF	FURGE	LDA	A	#\$FF
07250	2CF8	B7	3058		STA	A	TYPE
07260	2CFB	BD	2B06		JSR		MAKNAM
07270	2CFE	B6	3067	FURGE1	LDA	A	NAME
07280	2D01	81	24		CMF	A	#1\$
07290	2D03	26	03		BNE		**+5
07300	2D05	7E	2DA5		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	FURGE2	STA	A	O, X
07400	2D1C	08			INX		
07410	2D1D	5A			DEC	B	
07420	2D1E	26	FA		BNE		FURGE2
07430	2D20	DE	0B	FURGE3	LDX		PROGX
07440	2D22	FF	3065		STX		TEMPX3
07450	2D25	CE	2D2A		LDX		#FURGE4
07460	2D28	DF	0B		STX		PROGX
07470	2D2A	CE	3176	FURGE4	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	E7	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	E7	3058		STA	A	TYPE
07700	2D5E	8D	E7	RUN0	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	E7	3058		STA	A	TYPE
07760	2D6A	BD	2B06		JSR		MAKNAM
07770	2D6D	CE	29B4	SAVE2	LDX		#FIRADD
07780	2D70	BD	2DD5		JSR		GET4
07790	2D73	FF	3059		STX		STARTX
07800	2D76	CE	29C2		LDX		#LASADD
07810	2D79	BD	2DD5		JSR		GET4
07820	2D7C	FF	305B		STX		ENDX
07830	2D7F	CE	29D0		LDX		#PSTART
07840	2D82	BD	2DD5		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	86	11		LDA	A	##11
07900	2D91	E7	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	2DAE	7E	2A22		JMP		DOSTRT
08010	2DAE	BD	2645	SAVE3	JSR		WLIB
08020	2DB1	DE	04		LDX		BMEMH
08030	2DB3	BD	2561		JSR		WRITEO
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	8D	12		BSR		BYTE
08160	2DE9	25	ED		BCS		GET40

08170	2DEB	B7	2DF9		STA	A	XHI
08180	2DEE	8D	0B		BSR		BYTE
08190	2DF0	25	E6		BCS		GET40
08200	2DF2	B7	2DFA		STA	A	XLO
08210	2DFS	FE	2DF9		LDX		XHI
08220	2DF8	39			RTS		
08230	2DF9	0001		XHI	RMB		1
08240	2DFA	0001		XLO	RMB		1
08260	2DFB	8D	0E	BYTE	BSR		INHEX
08270	2DFD	25	0B		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	8D	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		CMF	A	##09
08440	2E14	2F	0A		BLE		YESHEX
08450	2E16	81	11		CMF	A	##11
08460	2E18	2B	08		BMI		NOTHEX
08470	2E1A	81	16		CMF	A	##16
08480	2E1C	2E	04		BGT		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		FRELIM
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		CMF	A	##FF

08790	2E5A	27	4D		BEQ	CATEX
08800	2E5C	C6	08		LDA B	#8
08810	2E5E	A6	00	CATAL3	LDA A	O, 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	2ED8		LDX	#REMSG
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	DDSTRT
09370	2EC8	53		REMSG	FCC	/SECTORS REMAINING (HEX) /

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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      READ0
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      DOSTRT
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

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TOTAL ERRORS 00000

00010  
00020

NAM SWTPID  
\*\*\*\*\*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	801E	DATREG	EQU	\$801E
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	BMEMH	RMB 1
00210	0005	0001	BMEML	RMB 1
00220	0006	0001	EMEMH	RMB 1
00230	0007	0001	EEMML	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	RESTRT	LDX	PROGX
00340	2405	8E	A049		LDS	#\$A049
00350	2408	AD	00		JSR	O, X
00360	240A	20	F7		BRA	RESTRT
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	READ0	JSR	SEEK
00540	2431	DF	04	READ2	STX	BMEMH
00550	2433	7F	0003		CLR	ERRCNT
00560	2436	DE	04	READ3	LDX	BMEMH
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 BUSY FLAG
00670	2453	27	10		BEQ	READ6	4
00680	2455	C5	02	READ5	BIT B	#2	2 DRQ FLAG
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 y
00730	2460	27	0C		BEQ	READ7	4
00740	2462	08			INX		4
00750	2463	20	E9		BRA	READ4	4
00760	2465	8D	0F	READ6	BSR	CHKERR	
00770	2467	26	CD		BNE	READ3	
00780	2469	BD	24F8		JSR	INCSEC	
00790	246C	20	C0		BRA	READ0	
00800	246E	8D	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	D0		LDA A	##D0	FORCE INTERRUPT
00880	247D	E7	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	8D	4B		BSR	OUT4HS	
01100	24AA	8D	49		BSR	OUT4HS	
01110	24AC	CE	24D4		LDX	#CRLF	
01120	24AF	8D	41		BSR	PDATA	
01130	24B1	CE	24BE		LDX	#CHKMSG	
01140	24B4	8D	3C	ERROR	BSR	PDATA	
01150	24B6	CE	24C7		LDX	#ERRMSG	
01160	24B9	8D	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	E0C8	OUT4HS	JMP		\$E0C8
01330	24F8	37		INCSEC	PSH	B	
01340	24F9	F6	801A		LDA	B	SECREG
01350	24FC	C1	0A		CMF	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
01490	2518	F7	8018		STA	B	COMREG
01510	251B	BD	25D7		JSR		DONE
01520	251E	C5	10		BIT	B	##10
01530	2520	26	EC		ENE		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		FREL25
01670	2537	C6	0B		LDA	B	##0B
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		FREL4
01740	2548	C5	02		BIT	B	##02
01750	254A	26	F6		BNE		FREL35

01760	254C	F6	8018	PREL36	LDA	B	COMREG	
01770	254F	09			DEX			
01780	2550	27	07		BEQ		FREL4	
01790	2552	C5	02		BIT	B	#\$02	
01800	2554	27	F6		BEQ		FREL36	
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		BMEMH	
01920	2568	DE	04	WRITE2	LDX		BMEMH	
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	MULTIPLE WRITE W/LOAD IBM FOR
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	BUSYFLAG
02030	2585	27	10		BEQ		WRITE6	
02040	2587	C5	02	WRITE4	BIT	B	#2	DRQ FLAG
02050	2589	27	F5		BEQ		WRITE3	
02060	258E	A6	00		LDA	A	O, X	
02070	258D	B7	801B		STA	A	DATREG	
02080	2590	9C	06		CFX		EMEMH	
02090	2592	27	11		BEQ		WRITE7	
02100	2594	08			INX			
02110	2595	20	E9		BRA		WRITE3	
02120	2597	C5	40	WRITE6	BIT	B	#\$40	
02130	2599	27	05		BEQ		*+7	
02140	259B	CE	24E5		LIX		#PROMSG	
02150	259E	20	BC		BRA		FREL45	
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			



```

02220 25AC 84 03   DRIVE AND A  ##03
02230 25AE 36     PSH A
02240 25AF DF 12     STX   PRELEX
02250 25B1 CE 000D   LDX   #ATRACK-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   #ATRACK-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 25CD 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