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10 0000 ;*****
20 0000 ;
30 0000 ; DISK MONITOR - DIMMON
40 0000 ; VERSION 13.4
50 0000 ;
60 0000 ; NOTE: MUST BE ASSEMBLED AFTER ASSEMBLING
70 0000 ; DIMSYM SRC
80 0000 ;
90 0000 ; COPYRIGHT 1978, 1979, 1980
100 0000 ; HARRY J. SAAL AND LEONARD J. SHUSTEK
110 0000 ;
120 0000 ;
130 0000 ;*****
140 9042 *=PRBYTE
150 9042 4C469E JMP WROB EXTRN ENTRY
160 9045 *=PRWORD
170 9045 4C399E JMP WROA EXTRN ENTRY
180 904E *=PRMSG
190 904E 4C47A1 JMP WRMSG EXTRN ENTRY
200 9000 *=JMON
210 9000 4C4F9C JMP CALLE MAIN ENTRY POINT
220 9023 *=ENDSYM
230 9023 ;*****
240 9023 ;
250 9023 ; COMMAND JUMP TABLE
260 9023 ;
270 9023 ;*****
280 9023 3A CMDS .BYTE ':;PMGX'
280 9024 3B
280 9025 50
280 9026 4D
280 9027 47
280 9028 58
290 9029 4C .BYTE 'LSDENVRO'
290 902A 53
290 902B 44
290 902C 45
290 902D 4E
290 902E 56
290 902F 52
290 9030 4F
300 9031 ; .BYTE 'I' ***NOT IN***
310 9031 9DE2 ADRS .DBYTE ALTM-1
320 9033 9DD5 .DBYTE ALTR-1
330 9035 9D31 .DBYTE DSPLYR-1
340 9037 9D4C .DBYTE DSPLYM-1
350 9039 9DF5 .DBYTE GO-1
360 903B 9E32 .DBYTE EXIT-1
370 903D 9EC9 .DBYTE LDE-1
380 903F 9EC9 .DBYTE LDE-1
390 9041 A1A8 .DBYTE DASM-1
400 9043 9EC9 .DBYTE LDE-1
410 9045 9EC9 .DBYTE LDE-1
420 9047 9EC9 .DBYTE LDE-1
430 9049 9EC9 .DBYTE LDE-1
440 904B A1B1 .DBYTE OUTP-1
450 904D ; .DBYTE GO-1 ***NOT IN***
460 904D BBA1 WORD END
470 904F A971 CALLE LDA #BRKE*256/256 CALL ENTERS HERE
480 9051 8D1B02 STA BRKVEC SET UP BREAK VECTOR
490 9054 A99C LDA #BRKE/256

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A1D6

6 bytes over!

500	9C56	8D1C02		STA BRKVEC+1
510	9C59	A9FF		LDA #\$FF FORCE DISK INIT
520	9C5B	8D49AF		STA DSIDES+1 ON BOTH FLOPPIES
530	9C5E	8D4AAF		STA DSIDES+2
540	9C61	78		SEI TURN OFF INTS
550	9C62	A957		LDA #DINTRH*256/256 MAKE INTERRUPTS
560	9C64	8D1902		STA INTVEC GO TO COUNTDOWN
570	9C67	A990		LDA #DINTRH/256
580	9C69	8D1A02		STA INTVEC+1
590	9C6C	58		CLI PERMIT INTS AGAIN
600	9C6D	A900		LDA #0 SET ZERO IN FLAGS ON CALL
610	9C6F	F00B	BRKE	BEQ B3
620	9C71	4A	BRKE	LSR A SET CY FOR PC CORRECTION
630	9C72	68		PLA
640	9C73	851E		STA YR
650	9C75	68		PLA
660	9C76	851D		STA XR
670	9C78	68		PLA
680	9C79	851C		STA ACC
690	9C7B	68		PLA
700	9C7C	D8	B3	CLD
710	9C7D	851B		STA FLGS
720	9C7F	68		PLA
730	9C80	69FF		ADC #\$FF CY WAS SET, CORRECT PC FOR BREAK
740	9C82	8519		STA PCL
750	9C84	68		PLA
760	9C85	69FF		ADC #\$FF
770	9C87	851A		STA PCH
780	9C89	BA		TSX
790	9C8A	861F		STX SP
800	9C8C	860E		STX TRUESP USED FOR ABORTS
810	9C8E	58		CLI CLEAR INTS.
820	9C8F	204890		JSR PRSTR
830	9C92	0D		.BYTE 13,18,'MONITOR',0
830	9C93	12		
830	9C94	4D		
830	9C95	4F		
830	9C96	4E		
830	9C97	49		
830	9C98	54		
830	9C99	4F		
830	9C9A	52		
830	9C9B	00		
840	9C9C	A60E	START	LDX TRUESP RESET STACK
850	9C9E	9A		TXS
860	9C9F	A900		LDA #0 READ NEXT CMD
870	9CA1	85CA		STA TXTPT
880	9CA3	850D		STA BRKF CLEAR BRK FLG
890	9CA5	850A		STA WRAP CLEAR ADR WRAP FLG
900	9CA7	201D9D		JSR CRLF
910	9CAA	20C09E	ST1	JSR RDOC GET 1RST CHAR
920	9CAD	C920		CMP #' IGNORE SPACES
930	9CAF	F0F9		BEQ ST1
940	9CB1	A20D	S0	LDX #ADRS-CMDS-1 LOOKUP CMD
950	9CB3	DD239C	S1	CMP CMDS,X
960	9CB6	D00E		BNE S2
970	9CB8	8520		STA SAVCMD SAVE CMD LETTER
980	9CBA	8A		TXA
990	9CBB	0A		ASL A DOUBLE THE VALUE
1000	9CBC	AA		TAX
1010	9CBD	BD319C		LDA ADRS,X BRANCH ENTRY
1020	9CC0	48		PHA
1030	9CC1	BD329C		LDA ADRS+1,X
1040	9CC4	48		PHA
1050	9CC5	60		RTS GO DO IT
1060	9CC6	CA	S2	DEX

1070 9CC7 10EA BPL S1 KEEP SRCHNG
 1080 9CC9 4CD19D JMP ERRSYN UNRECOGNIZED CMD
 1090 9CCC 38 DCMP SEC TMP2-TMP0
 1100 9CCD A513 LDA TMP2
 1110 9CCF E511 SBC TMP0
 1120 9CD1 850B STA DIFF
 1130 9CD3 A514 LDA TMP2+1
 1140 9CD5 E512 SBC TMP0+1
 1150 9CD7 A8 TAY HIGH ANS IN Y
 1160 9CD8 050B ORA DIFF TEST FOR EQU 0
 1170 9CDA 60 RTS
 1180 9CDB A511 PUTP LDA TMP0 TMP0->PCL,H
 1190 9CDD 8519 STA PCL
 1200 9CDF A512 LDA TMP0+1
 1210 9CE1 851A STA PCH
 1220 9CE3 60 RTS
 1230 9CE4 ; DISPLAY MEMORY
 1240 9CE4 ; TMP0 IS ADDR, A=# BYTES
 1250 9CE4 8521 DM STA RCNT
 1260 9CE6 A000 LDY #0
 1270 9CE8 206E9E DM1 JSR SPACE
 1280 9CEB B111 LDA (TMP0),Y
 1290 9CED 20469E JSR WROB
 1300 9CF0 20229D JSR INCTMP
 1310 9CF3 C621 DEC RCNT
 1320 9CF5 D0F1 BNE DM1
 1330 9CF7 60 RTS
 1340 9CF8 ; READ, STORE BYTE IF NOT SPACE AND RCNT NOT 0
 1350 9CF8 20929E BYTE JSR RDOB
 1360 9CFB 900F BCC BY3 WAS SPACE
 1370 9CFD A200 LDX #0
 1380 9CFF 8111 STA (TMP0,X) SAVE IT
 1390 9D01 C111 CMP (TMP0,X) SEE IF VALID
 1400 9D03 F007 BEQ BY3
 1410 9D05 A93F ERRORPR LDA #'? ERROR
 1420 9D07 204B90 JSR PRCHAR
 1430 9D0A D090 BNE START
 1440 9D0C 20229D BY3 JSR INCTMP NXT BYTE
 1450 9D0F C621 DEC RCNT
 1460 9D11 60 RTS
 1470 9D12 A91B SETR LDA #FLGS ACCESS REGS
 1480 9D14 8511 STA TMP0
 1490 9D16 A900 LDA #0
 1500 9D18 8512 STA TMP0+1
 1510 9D1A A905 LDA #5 POINT TO SP
 1520 9D1C 60 RTS
 1530 9D1D A90D CRLF LDA #\$0D
 1540 9D1F 4C4B90 JMP PRCHAR
 1550 9D22 ; INC TMP0,1 BY 1
 1560 9D22 E611 INCTMP INC TMP0
 1570 9D24 D006 BNE SETWR
 1580 9D26 E612 INC TMP0+1
 1590 9D28 D002 BNE SETWR
 1600 9D2A E60A INC WRAP POINTER WRAPPED.....
 1610 9D2C 60 SETWR RTS
 1620 9D2D A909 DSPUGH LDA #MNOSYN BAD FORMAT
 1630 9D2F 4C20A1 JMP DPYXIT
 1640 9D32 201D9D DSPLYR JSR CRLF
 1650 9D35 206B9E JSR SPAC2
 1660 9D38 A90A LDA #MNOREG BANNER
 1670 9D3A 2038A1 JSR DPYMSG
 1680 9D3D A93B LDA #';
 1690 9D3F 204B90 JSR PRCHAR
 1700 9D42 203D9E JSR WRPC
 1710 9D45 20129D JSR SETR
 1720 9D48 20E49C JSR DM

1730 9D4B F03C BEQ DSP2
 1740 9D4D 20CFFF DSPLYM JSR RDSCRN
 1750 9D50 C920 CMP #' SPACE?
 1760 9D52 F007 BEQ DPLYC YES
 1770 9D54 C90D CMP #\\$0D CR?
 1780 9D56 D0D5 BNE DSPUGH NO, BAD
 1790 9D58 4C679D JMP DPLYD SHOW 8 BYTES MORE
 1800 9D5B 20839E DPLYC JSR RDOA READ START ADDR
 1810 9D5E 90CD BCC DSPUGH MUST BE PRESENT
 1820 9D60 20CFFF JSR RDSCRN
 1830 9D63 C90D CMP #\\$0D CR?
 1840 9D65 D00F BNE DPLYA NO
 1850 9D67 18 DPLYD CLC YES, GET 8 BYTES
 1860 9D68 A511 LDA TMP0 COMPUTE ADDR
 1870 9D6A 6907 ADC #7
 1880 9D6C 8513 STA TMP2
 1890 9D6E A512 LDA TMP0+1
 1900 9D70 6900 ADC #0
 1910 9D72 8514 STA TMP2+1
 1920 9D74 500B BVC DPLYB BR'S EXCEPT FOR 8 BYTES BEFORE SCREEN!!!!
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1930 9D76 20739E DPLYA JSR T2T2 MOVE TO TMP2
 1940 9D79 20839E JSR RDOA READ END ADDR
 1950 9D7C 9053 BCC ERRSYN MUST BE PRESENT
 1960 9D7E 20739E JSR T2T2 SA TO 0, EA TO 2
 1970 9D81 A90B DPLYB LDA #MNOHDR MEM BANNER
 1980 9D83 2031A1 JSR DPYMC
 1990 9D86 202AF3 DSP1 JSR BSTSTP STOP HIT?
 2000 9D89 F043 DSP2 BEQ BEQS1 YES
 2010 9D8B A60A LDX WRAP STOP ON WRAP
 2020 9D8D D03F BNE BEQS1
 2030 9D8F 20CC9C JSR DCMP DONE?
 2040 9D92 903A BCC BEQS1
 2050 9D94 201D9D JSR CRLF NEW LINE
 2060 9D97 A93A LDA #':
 2070 9D99 204B90 JSR PRCHAR
 2080 9D9C A511 LDA TMP0 SAVE OLD PTR
 2090 9D9E 8515 STA TMP4
 2100 9DA0 A512 LDA TMP0+1
 2110 9DA2 8516 STA TMP4+1
 2120 9DA4 20399E JSR WROA CURRENT MEM ADR
 2130 9DA7 A908 LDA #8
 2140 9DA9 20E49C JSR DM DISPLAY, STEP
 2150 9DAC A9AB LDA #128+' + FANCY CHAR DISPLAY
 2160 9DAE 204B90 JSR PRCHAR
 2170 9DB1 A000 LDY #0
 2180 9DB3 B115 SHOW LDA (TMP4),Y GET THE CONTENTS OF THE CELL
 2190 9DB5 AA TAX
 2200 9DB6 297F AND #\\$7F MAKE NORMAL CODE
 2210 9DB8 C920 CMP #\\$20 CHECK LEGAL RANGE
 2220 9DBA 1002 BPL OKCHAR
 2230 9DBC A2C0 LDX #128+'@ PRINT THIS INSTEAD
 2240 9DBE 8A OKCHAR TXA
 2250 9DBF 204B90 JSR PRCHAR
 2260 9DC2 C8 INY
 2270 9DC3 C008 CPY #8 SHOW 8 BYTES
 2280 9DC5 D0EC BNE SHOW
 2290 9DC7 A9B3 LDA #128+'3 FANCY BORDER
 2300 9DC9 204B90 JSR PRCHAR
 2310 9DC0 D0B8 BNE DSP1 NEXT ROW
 2320 9DCE 4C9C9C BEQS1 JMP START
 2330 9DD1 A909 ERRSYN LDA #MNOSYN
 2340 9DD3 4C20A1 JMP DPYXIT
 2350 9DD6 ; ALTER REGS
 2360 9DD6 20839E ALTR JSR RDOA IF SPACE, LEAVE PC
 2370 9DD9 9003 BCC AL2

2380 9DDE 20DB9C JSR PPUTP SET PC
 2390 9DDE 20129D AL2 JSR SETR SET REGS
 2400 9DE1 D007 BNE A4
 2410 9DE3 ; ALTER MEM
 2420 9DE3 20839E ALTM JSR RDOA READ MEM ADDR
 2430 9DE6 90F9 BCC ERRSYN BAD
 2440 9DE8 A908 LDA #8
 2450 9DEA 8521 A4 STA RCNT
 2460 9DEC 20009E A5 JSR RDOC
 2470 9DEF 20F89C JSR BYTE
 2480 9DF2 D0F8 BNE A5 MORE
 2490 9DF4 F0D8 A9 BEQ BEQS1
 2500 9DF6 20CFFF GO JSR RDSCRN
 2510 9DF9 C90D CMP #\$0D
 2520 9DFB F023 BEQ G1 IF CR, EXIT
 2530 9DFD A211 LDX #\$11 GA: GO TO \$1160
 2540 9DFF A060 LDY #\$60 (ASSEMBLER)
 2550 9E01 C941 CMP #'A
 2560 9E03 F008 BEQ GOSPEC
 2570 9E05 A270 LDX #\$70 GE: GO TO \$7000
 2580 9E07 A000 LDY #\$00 (EDITOR)
 2590 9E09 C945 CMP #'E BEQ GOSPEC
 2600 9E0B D007 BNE GOSP LDX #\$60
 2610 9E0D 861A GOSPEC STX PCH CMP #'Q
 2620 9E0F 8419 STY PCL BEQ GOSPEC
 2630 9E11 4C209E JMP G1 - BEQ G1 (UNC.)
 2640 9E14 C920 GOSP CMP #' MUST BE SPACE
 2650 9E16 D0B9 BNE ERRSYN
 2660 9E18 20839E JSR RDOA GET TARGET
 2670 9E1B 9003 BCC G1
 2680 9E1D 20DB9C JSR PPUTP UPDATE PC
 2690 9E20 A61F G1 LDX SP RESTORE HIM
 2700 9E22 9A TXS
 2710 9E23 A51A LDA PCH
 2720 9E25 48 PHA
 2730 9E26 A519 LDA PCL
 2740 9E28 48 PHA
 2750 9E29 A51B LDA FLGS
 2760 9E2B 48 PHA
 2770 9E2C A51C LDA ACC
 2780 9E2E A61D LDX XR
 2790 9E30 A41E LDY YR
 2800 9E32 40 RTI
 2810 9E33 A61F EXIT LDX SP
 2820 9E35 9A TXS
 2830 9E36 4C8BC3 JMP BSWARM RESTART BASIC
 2840 9E39 ; WRITE WORD FROM TMP'S
 2850 9E39 A201 WROA LDX #1 FROM TMP0
 2860 9E3B D002 BNE WROA1
 2870 9E3D A209 WRPC LDX #9
 2880 9E3F B511 WROA1 LDA TMP0,X
 2890 9E41 20469E JSR WROB
 2900 9E44 B510 LDA TMP0-1,X
 2910 9E46 ; FALL INTO.....
 2920 9E46 48 WROB PHA WRITE AC AS TWO HEX CHARS
 2930 9E47 4A LSR A
 2940 9E48 4A LSR A
 2950 9E49 4A LSR A
 2960 9E4A 4A LSR A
 2970 9E4B 205D9E JSR PRHEX CONVERT
 2980 9E4C 68 PLA
 2990 9E4F 290F AND #\$0F
 3000 9E51 4C5D9E JMP PRHEX CONVERT 2ND HEX
 3010 9E54 ; AND FALL INTO.....
 3020 9E54 48 WRTWO PHA WRITE X THEN A
 3030 9E55 8A TXA

3040	9E56	204B90		JSR PRCHAR
3050	9E59	68		PLA
3060	9E5A	4C4B90		JMP PRCHAR
3070	9E5D	18	PRHEX	CLC
3080	9E5E	6906		ADC #6
3090	9E60	69F0		ADC #\$F0
3100	9E62	9002		BCC ASC1
3110	9E64	6906		ADC #6
3120	9E66	693A	ASC1	ADC #\$3A
3130	9E68	4C4B90		JMP PRCHAR
3140	9E6B	206E9E	SPAC2	JSR SPACE
3150	9E6E	A920	SPACE	LDA #' SPACE....
3160	9E70	4C4B90		JMP PRCHAR
3170	9E73	A202	T2T2	LDX #2 SWAP TMP0,2
3180	9E75	B510	T2T21	LDA TMP0-1,X
3190	9E77	48		PHA
3200	9E78	B512		LDA TMP2-1,X
3210	9E7A	9510		STA TMP0-1,X
3220	9E7C	68		PLA
3230	9E7D	9512		STA TMP2-1,X
3240	9E7F	CA		DEX
3250	9E80	D0F3		BNE T2T21
3260	9E82	60		RTS
3270	9E83			; READ HEX ADDR, RETURN LO IN TMP0
3280	9E83			; HI IN TMP0+1
3290	9E83			; SET CY=1
3300	9E83			; IF SPACE, SET CY=0
3310	9E83	20929E	RDOA	JSR RDOB
3320	9E86	9002		BCC RDOA2
3330	9E88	8512		STA TMP0+1
3340	9E8A	20929E	RDOA2	JSR RDOB
3350	9E8D	9002		BCC RDEXIT QUIT ON SPACE
3360	9E8F	8511		STA TMP0
3370	9E91	60	RDEXIT	RTS
3380	9E92			;
3390	9E92			; READ HEX BYTE TO A. SET CY,
3400	9E92			; MAKE CY=0 IF SPACE
3410	9E92			;
3420	9E92	20C09E	RDOB	JSR RDOC READ THE CHAR
3430	9E95	C920		CMP #' SPACE..
3440	9E97	D009		BNE RDOB2
3450	9E99	20C09E		JSR RDOC READ THE NEXT
3460	9E9C	C920		CMP #' SPACE..
3470	9E9E	D00E		BNE RDOB3
3480	9EA0	18		CLC IT WAS SPACE
3490	9EA1	60		RTS
3500	9EA2	20B59E	RDOB2	JSR HEXIT MAKE HEX
3510	9EA5	0A		ASL A
3520	9EA6	0A		ASL A
3530	9EA7	0A		ASL A
3540	9EA8	0A		ASL A
3550	9EA9	850F		STA ACMD
3560	9EAB	20C09E		JSR RDOC GET THE 2ND
3570	9EAE	20B59E	RDOB3	JSR HEXIT
3580	9EB1	050F		ORA ACMD NOW IN A BYTE
3590	9EB3	38		SEC
3600	9EB4	60		RTS
3610	9EB5	C93A	HEXIT	CMP #':
3620	9EB7	08		PHP SAVE THE CMP
3630	9EB8	290F		AND #\$0F MASK IT
3640	9EBA	28		PLP
3650	9EBB	9002		BCC HEX09 IN 0-9
3660	9EBD	6908		ADC #8 WAS A-F
3670	9EBF	60	HEX09	RTS
3680	9EC0	20CFFF	RDOC	JSR RDSCRN GET A CHAR
3690	9EC3	C90D		CMP #\$0D IS IT CR?

3700	9EC5	D0F8		BNE HEX09	NOT, RETURN IT
3710	9EC7	4C9C9C	LDE	JMP START	
3720	9ECA	A900		LDA #0	
3730	9ECC	85EE		STA FNLEN	
3740	9ECE	85FA		STA FNADR+1	
3750	9ED0	85F7		STA BSBSL	
3760	9ED2	85F8		STA BSBSH	
3770	9ED4	853C		STA REPFLG	
3780	9ED6	A923		LDA #FNAME	
3790	9ED8	85F9		STA FNADR	
3800	9EDA	200C09E		JSR RDOC	CHAR AFTER CMD
3810	9EDD	C952		CMP #'R	REPLACE?
3820	9EDF	D007		BNE RDDEV	NO
3830	9EE1	A901		LDA #1	YES
3840	9EE3	853C		STA REPFLG	
3850	9EE5	200C09E		JSR RDOC	SKIP NEXT BYTE
3860	9EE8	20929E	RDDEV	JSR RDOB	GET DEVNO
3870	9EEB	85F1		STA DEVNO	
3880	9EED	20CFFF		JSR RDSCRN	
3890	9EFF0	C90D		CMP #\$0D	CR?
3900	9EF2	F078		BEQ L3	SEE IF ITS ENUF
3910	9EF4	A200		LDX #0	INITIALIZE INDEX
3920	9EF6	20CFFF	RD2	JSR RDSCRN	GET THE NAME
3930	9EF9	C92C		CMP #',	
3940	9EFA	D003		BNE PPP4	
3950	9EFD	4C68A0		JMP L4	
3960	9F00	C90D	PPP4	CMP #\$0D	CR ?
3970	9F02	D05D		BNE PPP5	NO
3980	9F04	A520		LDA SAVCMD	LAST CMD
3990	9F06	C945		CMP #'E	WAS IT ERASE?
4000	9F08	D00D		BNE SVX	NO
4010	9F0A	A5F1		LDA DEVNO	
4020	9F0C	20DEA0		JSR VALIDT	CHECK IT
4030	9F0F	200F90	DODEL	JSR FDELET	ERASE IT
4040	9F12	20B29F		JSR FCHK	
4050	9F15	F0F8		BEQ DODEL	(UNC) RETRY IF DISK CHANGE
4060	9F17	C953	SVX	CMP #'S	WAS IT SAVE?
4070	9F19	D051		BNE L3	NO.
4080	9F1B	A5F1		LDA DEVNO	YES, CHECK TYPE
4090	9F1D	29F0		AND #\$F0	
4100	9F1F	C9A0		CMP #FASM	ASM SOURCE?
4110	9F21	D012		BNE SVX2	NO.
4120	9F23	ACCA12		LDY \$12CA	YES, GET START
4130	9F26	AEC912		LDX \$12C9	
4140	9F29	2081A0		JSR PUTBSL	
4150	9F2C	ACFF12		LDY \$12FF	GET END PTR
4160	9F2F	AEFE12		LDX \$12FE	
4170	9F32	4CBBA0		JMP PUTEAL	SET END PTR
4180	9F35	C9P0	SVX2	CMP #FBASIC	BASIC SOURCE?
4190	9F37	D00E		BNE SVX3	NO.
4200	9F39	A200		LDX #0	YES.
4210	9F3B	A004		LDY #\$4	SAVE FROM 0400
4220	9F3D	2081A0		JSR PUTESL	
4230	9F40	A67C		LDX VARTAB	END OF BASIC TEXT
4240	9F42	A47D		LDY VARTAB+1	
4250	9F44	4CBBA0		JMP PUTEAL	SET END PTR
4260	9F47	C9C0	SVX3	CMP #FSYMBL	SYMBOL TABLE?
4270	9F49	D021		BNE L3	NO, NOTHING SPECIAL
4280	9F4B	AC0B03		LDY \$030B	BEGIN OF SYMB.
4290	9F4E	AE0A03		LDX \$030A	
4300	9F51	2081A0		JSR PUTBSL	
4310	9F54	AECB12		LDX \$12CB	END OF ASS STORAGE
4320	9F57	ACCC12		LDY \$12CC	
4330	9F5A	E8		INX	POINT PAST BY ONE
4340	9F5B	D001		BNE SVX1	
4350	9F5D	C8		INY	

4360 9F5E 4CBCA0 SVX1 JMP PUTEAL SET END PTR
 4370 9F61 E010 PPP5 CPX #DENAML MAX LEN
 4380 9F63 F091 BEQ RD2
 4390 9F65 9523 STA FNAME,X
 4400 9F67 E6EE INC FNLEN
 4410 9F69 E8 INX
 4420 9F6A D08A BNE RD2
 4430 9F6C A520 L3 LDA SAVCMD OLD CMD
 4440 9F6E C94C CMP #'L IS IT A LOAD?
 4450 9F70 F022 BEQ LD2 LOADS OK.
 4460 9F72 C952 CMP #'R RUN??
 4470 9F74 F01E BEQ LD2 LIKE LOAD
 4480 9F76 C956 CMP #'V VERIFY??
 4490 9F78 D004 BNE L3A NO
 4500 9F7A A201 LDX #1 SET VERIFY FLAG
 4510 9F7C D018 BNE LD2A
 4520 9F7E C94E L3A CMP #'N DIRECTORY LIST?
 4530 9F80 F003 BEQ L3C NO, YOU LOSE.
 4540 9F82 4CD19D JMP ERRSYN
 4550 9F85 20DEA0 L3C JSR VALIDT CHECK REQUEST
 4560 9F88 A900 LDA #0 GIVE LONG FORM
 4570 9F8A 853D STA LSTFLG OF DIR LIST
 4580 9F8C 202190 DOLIST JSR FDLIST SHOW IT
 4590 9F8F 20B29F JSR FCHK
 4600 9F92 F0F8 BEQ DOLIST (UNC) RETRY IF DISK CHANGE
 4610 9F94 A200 LD2 LDX #0 SET LOAD FLAG
 4620 9F96 8E0B02 LD2A STX VERCK
 4630 9F99 A5F1 LDA DEVNO
 4640 9F9B D003 BNE LD2B ZERO IS BAD
 4650 9F9D 4C1EA1 JMP BADDEV
 4660 9FA0 29F0 LD2B AND #\$F0 CHECK HIGH DIGIT
 4670 9FA2 D003 BNE *+5
 4680 9FA4 4C2DA0 JMP TPLOAD ZERO IS TAPE
 4690 9FA7 20DEA0 JSR VALIDT CHECK RANGE
 4700 9FAA 200690 DOREAD JSR FREAD READ IT IN
 4710 9FAD 20B29F JSR FCHK
 4720 9FB0 F0F8 BEQ DOREAD (UNC) RETRY IF DISK CHANGE
 4730 9FB2 ;
 4740 9FB2 A53E FCHK LDA RCODE CHECK FILSYS RETURN CODE
 4750 9FB4 C90A CMP #10 DISK CHANGE?
 4760 9FB6 F074 BEQ RETRN YES: RETURN EQ
 4770 9FB8 68 PLA ELSE PURGE RETURN ADDR
 4780 9FB9 68 PLA
 4790 9FBA A53E LDA RCODE
 4800 9FBC F003 BEQ LDSHOW OK
 4810 9FBE 4C20A1 JMP DPYKIT WRITE ERR MSG AND QUIT
 4820 9FC1 ;
 4830 9FC1 ;
 4840 9FC1 ;
 4850 9FC1 A520 LDSHOW LDA SAVCMD
 4860 9FC3 C94C CMP #'L LOAD?
 4870 9FC5 F018 BEQ LSHOW
 4880 9FC7 C952 CMP #'R RUN??
 4890 9FC9 F014 BEQ LSHOW DO LIKE LOAD
 4900 9FCB C953 CMP #'S SAVE?
 4910 9FCD F00C BEQ SVSHOW YES
 4920 9FCF C945 CMP #'E ERASE?
 4930 9FD1 D005 BNE LDXT NO, IGNORE NAME
 4940 9FD3 A90D LDA #MNOERA "ERASED:"
 4950 9FD5 2074A1 LDSH JSR SHOWNM
 4960 9FD8 4C9C9C LDXT JMP START
 4970 9FDB A90F SVSHOW LDA #MNOSVD "SAVED:"
 4980 9FDD D0F6 BNE LDSH
 4990 9FDF A90E LSHOW LDA #MNOLDD "LOADED:"
 5000 9FE1 2074A1 JSR SHOWNM
 5010 9FE4 A520 LDA SAVCMD LAST CMD

5020 9F16 C952 CMP #'R RUN??
 5030 9FE8 D003 BNE LDFIX NO,LOAD
 5040 9FEA 6C3A00 JMP (CMEMAD) GO GO GO
 5050 9FED ;
 5060 9FED ; DO SPECIAL LOAD FIXUPS
 5070 9FED ;
 5080 9FED A5F1 LDFIX LDA DEVNO
 5090 9FEF 29F0 AND #\$F0
 5100 9FF1 C9A0 CMP #FASM ASSEMBLER
 5110 9FF3 D00B BNE LDFIX2
 5120 9FF5 2022A0 JSR ADDAS COMPUTE END ADDR
 5130 9FF8 8EFE12 STX \$12FE STORE IN \$12FE
 5140 9FFB 8DFF12 STA \$12FF
 5150 9FFE D065 BNE PPP7
 5160 A000 C9B0 LDFIX2 CMP #FBASIC BASIC
 5170 A002 D009 BNE LDFIX3
 5180 A004 2022A0 JSR ADDAS COMPUTE END ADDR
 5190 A007 867C STX VARTAB STORE IN VARTAB
 5200 A009 857D STA VARTAB+1
 5210 A00B D058 BNE PPP7
 5220 A00D C9C0 LDFIX3 CMP #FSYMBL SYMBOL TABLE
 5230 A00F D054 BNE PPP7
 5240 A011 A538 LDA MEMAD PUT START ADDR IN 12FA
 5250 A013 8DFA12 STA \$12FA
 5260 A016 A539 LDA MEMAD+1
 5270 A018 8DFB12 STA \$12FB
 5280 A01B A918 LDA #\$18 PATCH ASSEMBLER TO USE IT
 5290 A01D 8D5508 STA \$0855
 5300 A020 D043 BNE PPP7
 5310 A022 ;
 5320 A022 ; X,A=CMEMAD+MEMSIZ
 5330 A022 ;
 5340 A022 18 ADDAS CLC
 5350 A023 A53A LDA CMEMAD
 5360 A025 6535 ADC MEMSIZ
 5370 A027 AA TAX
 5380 A028 A53B LDA CMEMAD+1
 5390 A02A 6536 ADC MEMSIZ+1
 5400 A02C 60 RETRN RTS
 5410 A02D ;
 5420 A02D A5F1 TPLOAD LDA DEVNO CHECK DEVICE
 5430 A02F C903 CMP #3 LEGAL??
 5440 A031 9003 BCC TP2 YES
 5450 A033 4C1EA1 JMP BADDEV NO.
 5460 A036 2067F6 TP2 JSR BSZZZ
 5470 A039 203BF8 JSR CSTE1
 5480 A03C 20FFF3 JSR LD300
 5490 A03F A5EE LDA FNLEN NAME LENGTH
 5500 A041 F00A BEQ LD150
 5510 A043 2095F4 JSR BSFAF FIND FILE W. NAME
 5520 A046 D00A BNE LD170 FOUND..
 5530 A048 A90C LD10 LDA #MNOTAP BAD..
 5540 A04A 4C20A1 JMP DPYXIT TAPE
 5550 A04D 20AEF5 LD150 JSR BSFAH FIND 1ST FILE
 5560 A050 F0F6 BEQ LD10 BAD...
 5570 A052 204DF6 LD170 JSR LDAD2 MOVE MEM ADR FROM HEADER (E3,E4->F7,F8)
 5580 A055 2022F4 JSR LD400 SAY 'LOADING'..
 5590 A058 208AF8 JSR BSTRD READ IT
 5600 A05B 2013F9 JSR TWAIT
 5610 A05E AD0C02 LDA BSSTAT STATUS
 5620 A061 2910 AND #SPERR ERRORS?
 5630 A063 D0E3 BNE LD10 YES
 5640 A065 4C9C9C PPP7 JMP START
 5650 A068 20839E L4 JSR RDOA PARSE REST OF CMD
 5660 A06B A611 LDX TMP0 GET 0,1,2 HEX ADDRS
 5670 A06D A412 LDY TMP0+1

5680 A06F 2081A0 JSR PUTBSL
 5690 A072 20CFFF L5 JSR RDSCRN
 5700 A075 C90D CMP #\$0D CR??
 5710 A077 D00D BNE L5A END CMD
 5720 A079 4C6C9F JMP L3
 5730 A07C A909 LSYN LDA #MNOSYN
 5740 A07E 4C20A1 JMP DPYXIT
 5750 A081 86F7 PUTBSL STX BSBSL SET START ADR
 5760 A083 84F8 STY BSBSH
 5770 A085 60 RTS
 5780 A086 ;
 5790 A086 C92C L5A CMP #' , SAW ADDR, ...
 5800 A088 D0F2 BNE LSYN BAD..
 5810 A08A 20839E JSR RDOA NEXT ADDR
 5820 A08D A611 LDX TMPØ
 5830 A08F A412 LDY TMPØ+1
 5840 A091 84E6 STY BSEAH
 5850 A093 86E5 STX BSEAL
 5860 A095 20CFFF JSR RDSCRN DONE?
 5870 A098 C90D CMP #\$D CR?
 5880 A09A F024 BEQ PUTS YES
 5890 A09C C92C CMP #' , NO
 5900 A09E D0DC BNE LSYN
 5910 A0A0 20DEA0 JSR VALIDT WONT RETURN IF TAPE
 5920 A0A3 20839E JSR RDOA LOADIT ADDR
 5930 A0A6 A611 LDX TMPØ
 5940 A0A8 A412 LDY TMPØ+1
 5950 A0AA 8638 STX MEMAD
 5960 A0AC 8439 STY MEMAD+1 TRUE ADDRESS LATER
 5970 A0AE A520 LDA SAVCMD
 5980 A0B0 C953 CMP #'S SAVE?
 5990 A0B2 D0C8 BNE LSYN NO, BAAD
 6000 A0B4 200C90 DOWRTD JSR FWRITD WRITE, OFFSET
 6010 A0B7 20B29F JSR FCHK
 6020 A0BA F0F8 BEQ DOWRTD (UNC) RETRY IF DISK CHANGE
 6030 A0BC 84E6 PUTEAL STY BSEAH
 6040 A0BE 86E5 STX BSEAL
 6050 A0C0 A520 PUTS LDA SAVCMD OLD CMD
 6060 A0C2 C953 CMP #'S SAVE?
 6070 A0C4 D0B6 BNE LSYN NO..
 6080 A0C6 A5F1 LDA DEVNO ITS SAVE
 6090 A0C8 29F0 AND #\$F0 CHECK HI DIGIT
 6100 A0CA D007 BNE MYSAVE NON-ZERO IS DISK
 6110 A0CC AA TAX ZERO..
 6120 A0CD 20B1F6 JSR BSSAVE TAPE SAVE
 6130 A0D0 4C9C9C P3A JMP START
 6140 A0D3 20DEA0 MYSAVE JSR VALIDT
 6150 A0D6 200990 DOWRIT JSR FWRITE
 6160 A0D9 20B29F JSR FCHK CHECK RCODE
 6170 A0DC F0F8 BEQ DOWRIT (UNC) RETRY IF DISK CHANGE
 6180 A0DE ;
 6190 A0DE ; VALIDATE DEVICE NO IN DEVNO
 6200 A0DE ; RETURNS IF OKAY, ELSE TO START
 6210 A0DE A5F1 VALIDT LDA DEVNO GET DEVNO
 6220 A0E0 AA TAX
 6230 A0E1 29F0 AND #\$F0
 6240 A0E3 F039 BEQ BADDEV ZERO IS TAPE ONLY
 6250 A0E5 8533 STA FTYPE
 6260 A0E7 8A TXA
 6270 A0E8 290F AND #\$0F
 6280 A0EA 8534 STA DRIVE
 6290 A0EC F030 BEQ BADDEV CANT BE ZERO
 6300 A0EE A920 LDA #' PAD BLANK
 6310 A0F0 A6EE LDX FNLEN CURRENT LENGTH
 6320 A0F2 D007 BNE V3 ALL BLANK?
 6330 A0F4 A02A LDY #'* YES

6340 A0F6 8423 STY FNAME FORCE WILDCARD
 6350 A0F8 8422 STY STARED SET STAR FLAG
 6360 A0FA E8 INX LENGTH NOW ONE
 6370 A0FB E010 V3 CPX #DENAML DONE?
 6380 A0FD 1005 BPL V4 YES
 6390 A0FF 9523 STA FNAME,X PAD A BLANK
 6400 A101 E8 INX
 6410 A102 D0F7 BNE V3
 6420 A104 A5F7 V4 LDA BSBSL MOVE TO ADDR FOR DISK
 6430 A106 8538 STA MEMAD
 6440 A108 853A STA CMEMAD
 6450 A10A A5F8 LDA BSBSH
 6460 A10C 8539 STA MEMAD+1
 6470 A10E 853B STA CMEMAD+1
 6480 A110 38 SEC
 6490 A111 A5E5 LDA BSEAL ENDL
 6500 A113 E5F7 SBC BSBSL ST L
 6510 A115 8535 STA MEMSIZ SAVE LENGTH
 6520 A117 A5E6 LDA BSEAH
 6530 A119 E5F8 SBC BSBSH
 6540 A11B 8536 STA MEMSIZ+1 FOR WRITE...
 6550 A11D 60 RTS
 6560 A11E A908 BADDEV LDA #MNOIDN ILLEGAL DEV NO
 6570 A120 C901 DPYXIT CMP #1 DISK ERROR?
 6580 A122 D007 BNE DPYXT1 NO
 6590 A124 AE3DAF LDX DSKERR WHICH ONE?
 6600 A127 E00B CPX #11 ILG DEV?
 6610 A129 F0F3 BEQ BADDEV YES
 6620 A12B 2054A1 DPYXT1 JSR DPYMH SHOW WITH "BAD"
 6630 A12E 4C9C9C ABRT JMP START ABORT
 6640 A131 ;
 6650 A131 ; DISPLAY MSG USING OFFSET IN A
 6660 A131 ; PRECEDED BY CRLF....
 6670 A131 ;
 6680 A131 48 DPYMCN PHA
 6690 A132 A90D LDA #\$0D
 6700 A134 204B90 JSR PRCHAR
 6710 A137 68 PLA
 6720 A138 ;
 6730 A138 ; FALL INTO DPYMSG
 6740 A138 ;
 6750 A138 ; DISPLAY MSG TEXT FROM MSGLST
 6760 A138 ; USING MSG NUMBER IN A
 6770 A138 ;
 6780 A138 A8 DPYMSG TAY
 6790 A139 B9139C LDA MPTBEG,Y
 6800 A13C 18 CLC
 6810 A13D 6920 ADC #MSGLST*256/256
 6820 A13F 8517 STA MSGPTR
 6830 A141 A900 LDA #0
 6840 A143 699B ADC #MSGLST/256
 6850 A145 8518 STA MSGPTR+1
 6860 A147 ;
 6870 A147 ; FALL INTO WRMSG
 6880 A147 ;
 6890 A147 ; DISPLAY MSG POINTED TO BY MSGPTR (\$17,18)
 6900 A147 ; UNTIL ZERO BYTE
 6910 A147 ; RETURNS WITH Z SET
 6920 A147 ;
 6930 A147 A000 WRMSG LDY #0
 6940 A149 B117 WRMS1 LDA (MSGPTR),Y GET CHAR
 6950 A14B F006 BEQ WRMS2 DONE?
 6960 A14D 204B90 JSR PRCHAR NO
 6970 A150 C8 INY
 6980 A151 D0F6 BNE WRMS1
 6990 A153 60 WRMS2 RTS

7000 A154 ; DISPLAY MESSAGE WITH HEADER "BAD: "

 7010 A154 ; PASS MESSAGE NUMBER IN A

 7020 A154 ;

 7030 A154 ;

 7040 A154 48 DPYMW1 PHA

 7050 A155 A900 LDA #MNOBAD

 7060 A157 2031A1 JSR DPYMCR

 7070 A15A 68 PLA

 7080 A15B 48 PHA

 7090 A15C 2038A1 JSR DPYMSG SHOW MSG

 7100 A15F 68 PLA MSG NO

 7110 A160 C901 CMP #1 DISK ERROR?

 7120 A162 D006 BNE DPYMW1 NO

 7130 A164 AD3DAF LDA DSKERR YES, SHOW IT

 7140 A167 4C4290 JMP PRBYTE IN HEX

 7150 A16A C906 DPYMW1 CMP #6 DIR ERROR???

 7160 A16C D0E5 BNE WRMS2 NO

 7170 A16E AD42AF LDA DIRCOD YES, SHOW DIRCOD

 7180 A171 4C4290 JMP PRBYTE IN HEX

 7190 A174 ;

 7200 A174 ;

 7210 A174 2031A1 SHOWNM JSR DPYMCR A REG HAS MSGNO

 7220 A177 A5F1 LDA DEVNO

 7230 A179 204290 JSR PRBYTE SHOW UNIT #

 7240 A17C A92C LDA #''

 7250 A17E 204B90 JSR PRCHAR

 7260 A181 A533 LDA FNAME+DENAML SAVE THIS

 7270 A183 48 PHA LAST BYTE

 7280 A184 A900 LDA #0 WHILE WE PATCH

 7290 A186 8533 STA FNAME+DENAML HIM TO ZERO

 7300 A188 A923 LDA #FNAME*256/256

 7310 A18A 8517 STA MSGPTR PRINT MSG FROM

 7320 A18C A900 LDA #FNAME/256 FNAME AREA

 7330 A18E 8518 STA MSGPTR+1

 7340 A190 2047A1 JSR WRMSG

 7350 A193 68 PLA

 7360 A194 8533 STA FNAME+DENAML RESTORED....

 7370 A196 60 RTS

 7380 A197 20CFFF SIMPLE JSR RDSCRN

 7390 A19A C90D CMP #\$0D CR?

 7400 A19C F00A BEQ SIMP1 YES

 7410 A19E C920 CMP #' BLANK?

 7420 A1A0 F003 BEQ SIMP2 YES

 7430 A1A2 4CD19D JMP ERRSYN NO

 7440 A1A5 20839E SIMP2 JSR RDOA READ ADDRESS

 7450 A1A8 60 SIMP1 RTS

 7460 A1A9 2097A1 DASM JSR SIMPLE PARSE IT

 7470 A1AC 200390 JSR JDSASM DISASSM HIM

 7480 A1AF 4C9C9C JMP START

 7490 A1B2 20CFFF OUTP JSR RDSCRN READ CR IN

 7500 A1B5 205A90 JSR PRTENB ENABLE PRINTER

 7510 A1B8 4C9C9C JMP START

 7520 A1BB END .END