

0005 ;  
0010 ;  
0015 ; OS-65D V3.0 Disk Operating System  
0020 ;  
0025 ; Copyright, 1976  
0030 ;  
0035 ; by OHIO SCIENTIFIC, INC.  
0040 ;  
0045 ;  
0050 PageZero .DE \$00  
0055 ZE0 .DE \$E0  
0060 InBufVect .DE \$E1  
0065 ZE3 .DE \$E3  
0070 ZE4 .DE \$E4  
0075 ZE5 .DE \$E5  
0080 ZF6 .DE \$F6  
0085 ZF7 .DE \$F7  
0090 ZF8 .DE \$F8  
0095 ZF9 .DE \$F9  
0100 ZFA .DE \$FA  
0105 ZFB .DE \$FB  
0110 ZFC .DE \$FC  
0115 TempSecLen .DE \$FD  
0120 PointerLo .DE \$FE  
0125 PointerHi .DE \$FF  
0130 ;  
0135 PageOne .DE \$0100  
0140 TempInpRou .DE \$0213  
0145 Assembler .DE \$1300  
0150 ExMon .DE \$1700  
0155 Basic .DE \$20E4  
0160 FilePointr .DE \$3279  
0165 FileLenght .DE \$327D  
0170 Z327E .DE \$327E  
0175 Z3A7E .DE \$3A7E  
0180 Z3D7E .DE \$3D7E  
0185 Z427E .DE \$427E  
0190 MemoryFile .DE \$8000  
0195 DosPort .DE \$C000  
0200 DosAcia .DE \$C010  
0205 PortCh8 .DE \$CF00  
0210 ScreenRam .DE \$D000  
0215 LstScrPage .DE \$D700  
0220 ZDE00 .DE \$DE00  
0225 Keyboard .DE \$DF00  
0230 Acia.Board .DE \$F000  
0235 ZF022 .DE \$F022  
0240 P.Port .DE \$F400  
0245 ZFB05 .DE \$FB05  
0250 ZFB06 .DE \$FB06  
0255 Bootrout .DE \$FC00  
0260 InKey .DE \$FD00  
0265 ZFE01 .DE \$FE01  
0270 ZFEFC .DE \$FEFC  
0275 MaxRam .DE \$7FFF  
0280 ;  
0285 ;  
0290 .BA \$2200  
0295 .DC  
0300 .CE  
0305 .RC  
0310 ;  
0315 ;  
2200- A9 01 0320 KernelSt LDA #1

2202- 8D 5E 26	0325	STA NuSector
2205- 20 BC 26	0330	JSR Seek
2208- A9 2A	0335	LDA #H,KernelSt+\$800
220A- 85 FF	0340	STA *PointerHi
220C- 20 54 27	0345	JSR HeadDown
220F- 86 FE	0350	STX *PointerLo
2211- 20 67 29	0355	JSR LoTrNuSeNu
2214- 20 61 27	0360	JSR HeadUp
2217- 8E 01 F4	0365	STX P.Port+1
221A- 8E 00 F4	0370	STX P.Port
221D- 8E 03 F4	0375	STX P.Port+3
2220- CA	0380	DEX
2221- 8E 01 DF	0385	STX Keyboard+1
2224- 8E 02 F4	0390	STX P.Port+2
2227- AD 06 FB	0395	LDA ZFB06
222A- 8E 05 FB	0400	STX ZFB05
222D- A9 04	0405	LDA #4
222F- 8D 01 F4	0410	STA P.Port+1
2232- 8D 03 F4	0415	STA P.Port+3
2235- 8C 01 C0	0420	STY DosPort+1
2238- A0 40	0425	LDY #\$40
223A- 8C 00 C0	0430	STY DosPort
223D- 8D 01 C0	0435	STA DosPort+1
2240- A9 01	0440	LDA #1
2242- 20 C6 29	0445	JSR Select
2245- A9 03	0450 Z2245	LDA #3
2247- 8D 00 FC	0455	STA Bootrout
224A- A0 11	0460	LDY #\$11
224C- 8C 00 FC	0465	STY Bootrout
224F- A2 1E	0470	LDX #\$1E
2251- 9D 00 CF	0475 Z2251	STA PortCh8,X
2254- 98	0480	TYA
2255- 9D 00 CF	0485	STA PortCh8,X
2258- A9 03	0490	LDA #3
225A- CA	0495	DEX
225B- CA	0500	DEX
225C- 10 F3	0505	BPL Z2251
225E- A2 08	0510 ClearScreen	LDX #8
2260- A9 D0	0515	LDA #H,ScreenRam
2262- 85 FF	0520	STA *PointerHi
2264- A0 00	0525	LDY #L,ScreenRam
2266- 84 FE	0530	STY *PointerLo
2268- A9 20	0535 CLSc1	LDA #' '
226A- 91 FE	0540	STA (PointerLo),Y
226C- C8	0545	INY
226D- D0 F9	0550	BNE CLSc1
226F- E6 FF	0555	INC *PointerHi
2271- CA	0560	DEX
2272- D0 F4	0565	BNE CLSc1
2274- 86 00	0570	STX *PageZero
2276- A0 7F	0575 RamTest	LDY #H,MaxRam
2278- 20 EC 22	0580 RaTe1	JSR TestRamByt
227B- F0 03	0585	BEQ RaTe2
227D- 88	0590	DEY
227E- D0 F8	0595	BNE RaTe1
2280- 8C 00 23	0600 RaTe2	STY HiMem
2283- A2 01	0605 TestOutChn	LDX #1
2285- AD 01 FE	0610	LDA ZFE01
2288- F0 01	0615	BEQ TeOutCh1
228A- E8	0620	INX
228B- 8E C6 2A	0625 TeOutCh1	STX Reset.IO+1
228E- EA	0630	NOP
228F- A2 01	0635	LDX #1
2291- 8E 00 DE	0640	STX ZDE00
2294- 4C B3 22	0645	JMP PrtMessg
2297- EC 22 F0	0650	CPX ZF022

229A- 18	0655	CLC
229B- A0 D7	0660	LDY #H,LstScrPage
229D- 20 EC 22	0665	JSR TestRamByt
22A0- D0 11	0670	BNE PrtMessg
22A2- A0 00	0675	LDY #0
22A4- BE C7 22	0680	UpDatVideo LDX TabVidRout,Y
22A7- F0 0A	0685	BEG PrtMessg
22A9- C8	0690	INY
22AA- B9 C7 22	0695	LDA TabVidRout,Y
22AD- 9D 99 25	0700	STA OutChann2,X
22B0- C8	0705	INY
22B1- D0 F1	0710	BNE UpDatVideo
	0715 ;	
22B3- 20 73 2D	0720	PrtMessg JSR PrtString
	0725 ;	
22B6- 0D 0A 4F	0730	.BY \$D \$A 'OS-65D V3.0' 0
22B9- 53 2D 36		
22BC- 35 44 20		
22BF- 56 33 2E		
22C2- 30 00		
	0735 ;	
22C4- 4C E6 2A	0740	JMP LoadBasic
	0745 ;	
	0750 ;	Off Wrt Off Wrt
22C7- 0B 40 8D	0755	TabVidRout .BY \$0B \$40 \$8D \$40
22CA- 40		
22CB- 91 40 AF	0760	.BY \$91 \$40 \$AF \$40
22CE- 40		
22CF- 2D 80 9E	0765	.BY \$2D \$80 \$9E \$80
22D2- 80		
22D3- A1 D7 2A	0770	.BY \$A1 \$D7 \$2A \$D7
22D6- D7		
22D7- 34 D7 3C	0775	.BY \$34 \$D7 \$3C \$D7
22DA- D7		
22DB- 8B D7 97	0780	.BY \$8B \$D7 \$97 \$D7
22DE- D7		
22DF- BA D7 7D	0785	.BY \$BA \$D7 \$7D \$D7
22E2- D7		
22E3- 84 D7 80	0790	.BY \$84 \$D7 \$80 \$B1
22E6- B1		
22E7- 87 AA 31	0795	.BY \$87 \$AA \$31 \$00 \$00
22EA- 00 00		
	0800 ;	
22EC- 84 FF	0805	TestRamByt STY *PointerHi
22EE- B1 FE	0810	LDA (PointerLo),Y
22F0- 29 3F	0815	AND #X00111111
22F2- 49 3F	0820	EOR #X00111111
22F4- 91 FE	0825	STA (PointerLo),Y
22F6- 85 FD	0830	STA *TempSecLen
22F8- B1 FE	0835	LDA (PointerLo),Y
22FA- 29 3F	0840	AND #X00111111
22FC- C5 FD	0845	CMP *TempSecLen
22FE- 60	0850	RTS
	0855 ;	
22FF- 24	0860	.BY \$24
	0865 ;	
2300- 00	0870	HiMem .BY 0
	0875 ;	
2301- F5 24	0880	TabChann .SE InpChann1-1
2303- 2A 25	0885	.SE InpChann2-1
2305- 85 23	0890	.SE DummyChann-1
2307- 85 23	0895	.SE DummyChann-1
2309- 88 23	0900	.SE InpChann5-1
230B- A0 23	0905	.SE InpChann6-1
230D- EF 23	0910	.SE InpChann7-1
230F- AF 24	0915	.SE InpChann8-1

2311- CC 24	0920	.SE OutChann1-1
2313- 98 25	0925	.SE OutChann2-1
2315- 85 23	0930	.SE DummyChann-1
2317- 85 23	0935	.SE DummyChann-1
2319- 8F 23	0940	.SE OutChann5-1
231B- B1 23	0945	.SE OutChann6-1
231D- 02 24	0950	.SE OutChann7-1
231F- BC 24	0955	.SE OutChann8-1
	0960 ;	
2321- 10	0965 InpFlag	.BY \$10
2322- 00	0970 OutFlag	.BY 0
2323- 00	0975 Z2323	.BY 0
2324- 00	0980 Z2324	.BY 0
2325- 00	0985 Z2325	.BY 0
2326- 7E 32	0990 DiBuffSt6	.SE Z327E
2328- 7E 3A	0995 DiBuffEnd6	.SE Z3A7E
232A- 50	1000	.BY \$50
232B- 51	1005 Z232B	.BY \$51
232C- 50	1010 Z232C	.BY \$50
232D- 00	1015 DirtFLCh6	.BY 0
	1020 ;	
232E- 7E 3A	1025 DiBuffSt7	.SE Z3A7E
2330- 7E 42	1030 DiBuffEnd7	.SE Z427E
2332- 50	1035	.BY \$50
2333- 51	1040	.BY \$51
2334- 50	1045	.BY \$50
2335- 00	1050 DirtFLCh7	.BY 0
	1055 ;	
2336- 4C D6 2C	1060 Z2336	JMP Z2CD6
2339- AD 21 23	1065 Z2339	LDA InpFlag
233C- A0 00	1070	LDY #0
233E- F0 0B	1075	BEC Z234B
2340- 20 36 23	1080 Z2340	JSR Z2336
2343- 20 67 23	1085 CharOut	JSR TmpRegOut
2346- AD 22 23	1090 Z2346	LDA OutFlag
2349- A0 10	1095	LDY #\$10
234B- A2 FF	1100 Z234B	LDX #\$FF
234D- 4A	1105 Z234D	LSR A
234E- E8	1110	INX
234F- 90 09	1115	BCC Z235A
2351- 48	1120	PHA
2352- 8A	1125	TXA
2353- 48	1130	PHA
2354- 20 71 23	1135	JSR Z2371
2357- 68	1140	PLA
2358- AA	1145	TAX
2359- 68	1150	PLA
235A- E0 07	1155 Z235A	CPX #7
235C- D0 EF	1160	BNE Z234D
235E- A2 00	1165 TmpOut.X	LDX #0
2360- A0 00	1170 TmpOut.Y	LDY #0
2362- A9 00	i 75 TmpOutAcc	LDA #0
2364- 29 7F	1180	AND #\$7F
2366- 60	1185	RTS
	1190 ;	
2367- 8D 63 23	1195 TmpRegOut	STA TmpOutAcc+1
236A- 8C 61 23	1200	STY TmpOut.Y+1
236D- 8E 5F 23	1205	STX TmpOut.X+1
2370- 60	1210	RTS
	1215 ;	
2371- 0A	1220 Z2371	ASL A
2372- 8D 78 23	1225	STA Z2377+1
2375- 98	1230	TYA
2376- 18	1235	CLC
2377- 69 08	1240 Z2377	ADC #8
2379- AA	1245	TAX

237A-	BD 02 23	1250	LDA TabChann+1,X
237D-	48	1255	PHA
237E-	BD 01 23	1260	LDA TabChann,X
2381-	48	1265	PHA
2382-	AD 63 23	1270	LDA TmpOutAcc+1
2385-	60	1275	RTS
		1280 ;	
2386-	A9 00	1285 DummyChann	LDA #0
2388-	60	1290	RTS
		1295 ;	
2389-	AD 30 2E	1300 InpChann5	LDA Z2E30
238C-	A2 00	1305	LDX #0
238E-	F0 05	1310	BEQ OuCh5.1
2390-	8D 00 80	1315 OutChann5	STA MemoryFile
2393-	A2 07	1320	LDX #7
2395-	8D 63 23	1325 OuCh5.1	STA TmpOutAcc+1
2398-	FE 8A 23	1330	INC InpChann5+1,X
239B-	D0 03	1335	BNE OuCh5.2
239D-	FE 8B 23	1340	INC InpChann5+2,X
23A0-	60	1345 OuCh5.2	RTS
		1350 ;	
23A1-	A0 00	1355 InpChann6	LDY #0
23A3-	20 66 24	1360	JSR Z2466
23A6-	D0 03	1365	BNE InCh6.1
23AB-	20 CC 23	1370	JSR OuCh6.3
23AB-	AD 7E 31	1375 InCh6.1	LDA Z317D+1
23AE-	A2 22	1380	LDX #\$22
23B0-	D0 E3	1385	BNE OuCh5.1
23B2-	C9 0A	1390 OutChann6	CMP #\$A
23B4-	F0 EA	1395	BEQ OuCh5.2
23B6-	48	1400	PHA
23B7-	A0 17	1405	LDY #\$17
23B9-	20 66 24	1410	JSR Z2466
23BC-	D0 03	1415	BNE OuCh6.1
23BE-	20 CC 23	1420	JSR OuCh6.3
23C1-	68	1425 OuCh6.1	PLA
23C2-	8D 7E 31	1430 OuCh6.2	STA Z317D+1
23C5-	A2 39	1435	LDX #\$39
23C7-	8E 2D 23	1440	STX DirtFLCh6
23CA-	D0 C9	1445	BNE OuCh5.1
23CC-	AD 2D 23	1450 OuCh6.3	LDA DirtFLCh6
23CF-	F0 05	1455	BEQ OuCh6.4
23D1-	A2 00	1460	LDX #0
23D3-	20 77 24	1465	JSR Z2477
23D6-	AD 26 23	1470 OuCh6.4	LDA DiBuffSt6
23D9-	8D AC 23	1475	STA InCh6.1+1
23DC-	8D C3 23	1480	STA OuCh6.2+1
23DF-	85 FE	1485	STA *PointerLo
23E1-	AD 27 23	1490	LDA DiBuffSt6+1
23E4-	8D AD 23	1495	STA InCh6.1+2
23E7-	8D C4 23	1500	STA OuCh6.2+2
23EA-	85 FF	1505	STA *PointerHi
23EC-	A2 00	1510	LDX #0
23EE-	F0 52	1515	BEQ Z2442
23F0-	A2 08	1520 InpChann7	LDX #8
23F2-	A0 51	1525	LDY #\$51
23F4-	20 68 24	1530	JSR Z2468
23F7-	D0 03	1535	BNE InCh7.1
23F9-	20 20 24	1540	JSR Z2420
23FC-	AD 7E 3D	1545 InCh7.1	LDA Z3D7E
23FF-	A2 73	1550	LDX #\$73
2401-	D0 92	1555	BNE OuCh5.1
2403-	C9 0A	1560 OutChann7	CMP #\$A
2405-	F0 6F	1565	BEQ Z2476
2407-	48	1570	PHA
2408-	A2 08	1575	LDX #8

240A-	A0	6A	1580	LDY #\$6A
240C-	20	68	24	JSR Z2468
240F-	D0	03	1590	BNE Z2414
2411-	20	20	24	JSR Z2420
2414-	68		1600	Z2414
2415-	8D	7E	3D	STA Z3D7E
2418-	A2	8C		1610
241A-	8E	35	23	LDX #\$8C
241D-	4C	95	23	STX DirtFLch7
2420-	AD	35	23	JMP OuCh5.1
2423-	F0	05	1620	LDA DirtFLch7
2425-	A2	08	1630	BEQ Z242A
2427-	20	77	24	LDX #8
242A-	AD	2E	23	JSR Z2477
242B-	8D	FD	23	LDA DiBuffSt7
2430-	8D	16	24	1650
2433-	85	FE		STA InCh7.1+1
2435-	AD	2F	23	1655
2438-	8D	FE	23	STA Z2415+1
243B-	8D	17	24	1660
243E-	85	FF		STA *PointerLo
2440-	A2	08	1665	LDA DiBuffSt7+1
2442-	BD	2C	23	1670
2445-	18		1680	STA InCh7.1+2
2446-	F8		1685	STA Z2415+2
2447-	69	01	1690	Z2442
2449-	DB		1695	STA Z232C,X
244A-	9D	2C	23	CLC
244D-	20	53	24	1700
244E-	4C	1D	2B	SED
2450-	A9	00	1710	ADC #1
2453-	9D	2D	23	1715
2455-	BD	2C	23	CLD
2458-	BD	2C	23	1720
245B-	DD	2B	23	STA Z232C,X
245E-	20	8D	2C	1725
2461-	C8		1730	JSR Z2453
2462-	D0	2D		1735
2464-	00		1740	JMP Z2B1D
2465-	00		1745	LDA #0
2466-	A2	00	1750	STA DirtFLch6,X
2468-	B9	AC	23	1755
246B-	DD	28	23	1760
246E-	D0	06		LDX #0
2470-	B9	AD	23	1765
2473-	DD	29	23	1770
2476-	60		1775	BRK
			1780	Z2468
			1785	BRK
			1790	BRK
			1795	INY
			1800	BNE Z2491
			1805	BRK
			1810	BRK
			1815	RTS
			1820	1810 ;
			1825	LDA DiBuffEnd6+1,X
			1830	SEC
			1835	SBC DiBuffSt6+1,X
			1840	STA LghtSector
			1845	LDA DiBuffSt6,X
			1850	STA *PointerLo
			1855	LDA DiBuffSt6+1,X
			1860	STA *PointerHi
			1865	JSR Z2453
			1870	JMP TstBadSec
			1875	1880 ;
			1885	STY NuSector
			1890	JMP HeadDown
			1895	1895 ;
			1900	LDA #H,MemoryFile
			1905	STA InpChann5+2
			1905 ;	LDA #0
				RTS

249F- 48	1910	Z249F	PHA
24A0- 49 FF	1915		EOR #\$FF
24A2- 8D 00 DF	1920		STA Keyboard
24A5- AD 00 DF	1925		LDA Keyboard
24AB- 49 FF	1930		EOR #\$FF
24AA- 8D 25 25	1935		STA Z2525
24AD- 68	1940		PLA
24AE- D0 76	1945		BNE Z2526
24B0- AE 23 23	1950	InpChann8	LDX Z2323
24B3- BD 00 CF	1955		LDA PortCh8,X
24B6- 4A	1960		LSR A
24B7- 90 F7	1965		BCC InpChann8
24B9- B0 4D	1970		BCS Z2508
	1975 ;		
24BB- 00	1980		BRK
24BC- 00	1985		BRK
	1990 ;		
24BD- 48	1995	OutChann8	PHA
24BE- AE 23 23	2000	OuCh8.1	LDX Z2323
24C1- BD 00 CF	2005		LDA PortCh8,X
24C4- 4A	2010		LSR A
24C5- 4A	2015		LSR A
24C6- 90 F6	2020		BCC OuCh8.1
24C8- 68	2025		PLA
24C9- 9D 01 CF	2030		STA PortCh8+1,X
24CC- 60	2035		RTS
	2040 ;		
24CD- 48	2045	OutChann1	PHA
24CE- AD 00 F0	2050	OuCh1.1	LDA Acia.Board
24D1- 4A	2055		LSR A
24D2- 4A	2060		LSR A
24D3- 90 F9	2065		BCC OuCh1.1
24D5- 68	2070		PLA
24D6- 8D 01 F0	2075		STA Acia.Board+1
24D9- 48	2080		PHA
24DA- AD 00 F0	2085		LDA Acia.Board
24DB- 4A	2090		LSR A
24DE- 90 11	2095		BCC OuCh1.3
24E0- 20 F6 24	2100		JSR InpChann1
24E3- 8D 25 23	2105		STA Z2325
24E6- C9 13	2110		CMP #\$13
24E8- D0 07	2115		BNE OuCh1.3
24EA- 20 F6 24	2120	OuCh1.2	JSR InpChann1
24ED- C9 11	2125		CMP #\$11
24EF- D0 F9	2130		BNE OuCh1.2
24F1- 68	2135	OuCh1.3	PLA
24F2- 8D 63 23	2140	OuCh1.4	STA TmpOutAcc+1
24F5- 60	2145		RTS
	2150 ;		
24F6- AD 00 F0	2155	InpChann1	LDA Acia.Board
24F9- EE 24 23	2160		INC Z2324
24FC- 4A	2165		LSR A
24FD- 90 F7	2170		BCC InpChann1
24FF- AD 01 F0	2175		LDA Acia.Board+1
2502- 29 7F	2180		AND #\$7F
2504- 8D 63 23	2185		STA TmpOutAcc+1
2507- 60	2190		RTS
	2195 ;		
2508- BD 01 CF	2200	Z2508	LDA PortCh8+1,X
250B- B0 E5	2205		BCS OuCh1.4
	2210 ;		
250D- A2 04	2215	Swap5Byte	LDX #4
250F- BD 13 02	2220	Swap1	LDA TempInpRou,X
2512- BC 20 25	2225		LDY TempSwap,X
2515- 9D 20 25	2230		STA TempSwap,X
2518- 98	2235		TYA

2519-	9D	13	02	2240	STA TempInpRou,X
251C-	CA			2245	DEX
251D-	10	F0		2250	BPL Swap1
251F-	60			2255	RTS
				2260 ;	
2520-	00	00	00	2265	TempSwap .BY 0 0 0 0 0
2523-	00				2270 ;
2525-	00			2275	Z2525 .BY 0
				2280 ;	
2526-	D0	1B		2285	Z2526 BNE Z2543
2528-	20	44	25	2290	JSR Z2543+1
252B-	20	0D	25	2295	InpChann2 JSR Swap5Byte
252E-	EE	24	23	2300	INC Z2324
2531-	20	00	FD	2305	JSR InKey
2534-	8D	3E	25	2310	STA Z253D+1
2537-	8D	63	23	2315	STA TempOutAcc+1
253A-	20	0D	25	2320	JSR Swap5Byte
253D-	A9	FF		2325	Z253D LDA #\$FF
253F-	60			2330	RTS
				2335 ;	
2540-	00	00	00	2340	.BY 0 0 0
				2345 ;	
2543-	2C	25	25	2350	Z2543 BIT Z2525
2546-	60			2355	RTS
				2360 ;	
2547-	20	0D	25	2365	JSR Swap5Byte
254A-	4C	51	2A	2370	JMP GoIntoDOS
				2375 ;	
254D-	C9	5B		2380	TestForMem CMP #\$5B
254F-	D0	11		2385	BNE Z2562
2551-	A9	80		2390	LDA #H,MemoryFile
2553-	8D	92	23	2395	STA OutChann5+2
2556-	A9	00		2400	LDA #0
2558-	8D	91	23	2405	STA OutChann5+1
255B-	AD	22	23	2410	LDA OutFlag
255E-	09	10		2415	ORA #\$10
2560-	D0	31		2420	BNE Z2593
2562-	C9	5D		2425	Z2562 CMP #\$5D
2564-	D0	13		2430	BNE Z2579
2566-	20	46	23	2435	JSR Z2346
2569-	AD	C6	2A	2440	LDA Reset.I0+1
256C-	8D	21	23	2445	STA InpFlag
256F-	AD	22	23	2450	LDA OutFlag
2572-	29	EF		2455	AND #\$EF
2574-	8D	22	23	2460	STA OutFlag
2577-	A9	5D		2465	LDA #\$5D
2579-	C9	18		2470	Z2579 CMP #\$18
257B-	D0	0D		2475	BNE Z258A
257D-	A9	10		2480	LDA #\$10
257F-	8D	21	23	2485	STA InpFlag
2582-	20	97	24	2490	JSR Z2497
2585-	8D	8A	23	2495	STA InpChann5+1
2588-	B0	0C		2500	BCS Z2596
258A-	C9	10		2505	Z258A CMP #\$10
258C-	D0	0A		2510	BNE Z2598
258E-	AD	22	23	2515	LDA OutFlag
2591-	49	08		2520	EOR #8
2593-	8D	22	23	2525	Z2593 STA OutFlag
2596-	A9	00		2530	Z2596 LDA #0
2598-	60			2535	Z2598 RTS
				2540 ;	
2599-	98			2545	OutChann2 TYA
259A-	48			2550	PHA
259B-	AC	5B	26	2555	LDY OldChar
259E-	AD	63	23	2560	LDA TempOutAcc+1

25A1- 29 7F	2565	AND #\$7F
25A3- A2 4E	2570 Z25A3	LDX #\$4E
25A5- C9 0D	2575	CMP #\$D
25A7- F0 78	2580	BEQ Z2621
25A9- C9 08	2585	CMP #\$8
25AB- F0 66	2590	BEQ Z2613
25AD- C9 10	2595	CMP #\$10
25AF- F0 69	2600	BEQ Z261A
25B1- C9 0C	2605	CMP #\$C
25B3- F0 65	2610	BEQ Z261A
25B5- C9 0A	2615	CMP #\$A
25B7- F0 74	2620	BEQ Z262D
25B9- C9 20	2625	CMP #\$20
25BB- 30 1C	2630	BMI Z25D9
25BD- C9 78	2635	CMP #\$7B
25BF- 10 18	2640	BPL Z25D9
25C1- 9D 00 D7	2645	STA LstScrPage,X
25C4- E8	2650	INX
25C5- E0 7C	2655	CPX #\$7C
25C7- F0 60	2660	BEQ Z2629
25C9- D0 3B	2665	BNE Z2606
	2670 ;	
25CB- BC 00 D7	2675 Z25CB	LDY LstScrPage,X
25CE- 8C 5B 26	2680	STY OldChar
25D1- A9 5F	2685	LDA #\$5F
25D3- 9D 00 D7	2690	STA LstScrPage,X
25D6- 8E A4 25	2695	STX Z25A3+1
25D9- 68	2700 Z25D9	PLA
25DA- AB	2705	TAY
25DB- AD 63 23	2710	LDA TmpOutAcc+1
25DE- 48	2715	PHA
25DF- A9 01	2720	LDA #1
25E1- 20 9F 24	2725	JSR Z249F
25E4- 50 0E	2730	BVC Z25F4
25E6- A9 08	2735	LDA #\$8
25E8- 20 9F 24	2740	JSR Z249F
25EB- 10 07	2745	BPL Z25F4
25ED- 20 2B 25	2750 Z25ED	JSR InpChann2
25F0- C9 11	2755	CMP #\$11
25F2- D0 F9	2760	BNE Z25ED
25F4- 4C F1 24	2765 Z25F4	JMP OuCh1.3
	2770 ;	
25F7- 00	2775	BRK
25F8- 00	2780	BRK
	2785 ;	
25F9- 8A	2790 Z25F9	TXA
25FA- 29 3F	2795	AND #\$3F
25FC- C9 07	2800	CMP #7
25FE- D0 CB	2805	BNE Z25CB
2600- 8A	2810	TXA
2601- E9 0C	2815	SBC #\$C
2603- AA	2820	TAX
2604- D0 C5	2825	BNE Z25CB
2606- 8A	2830 Z2606	TXA
2607- 29 3F	2835	AND #\$3F
2609- C9 3C	2840	CMP #\$3C
260B- D0 BE	2845	BNE Z25CB
260D- 8A	2850	TXA
260E- 69 0B	2855	ADC #\$B
2610- AA	2860	TAX
2611- D0 BB	2865	BNE Z25CB
2613- 98	2870 Z2613	TYA
2614- 9D 00 D7	2875	STA LstScrPage,X
2617- CA	2880	DEX
2618- B0 DF	2885	BCS Z25F9
261A- 98	2890 Z261A	TYA

261B- 9D 00 D7	2895	STA LstScrPage,X
261E- E8	2900	INX
261F- B0 E5	2905	BCS Z2606
2621- 98	2910 Z2621	TYA
2622- 9D 00 D7	2915	STA LstScrPage,X
2625- A2 48	2920	LDX #\$48
2627- D0 A2	2925	BNE Z25CB
2629- A2 48	2930 Z2629	LDX #\$48
262B- D0 04	2935	BNE Z2631
262D- 98	2940 Z262D	TYA
262E- 9D 00 D7	2945	STA LstScrPage,X
2631- 8E 57 26	2950 Z2631	STX Z2656+1
2634- A9 20	2955	LDA #\$20
2636- A2 7C	2960	LDX #\$7C
2638- 9D 00 D7	2965 Z2638	STA LstScrPage,X
263B- E8	2970	INX
263C- D0 FA	2975	BNE Z2638
263E- A0 CF	2980	LDY #\$CF
2640- C8	2985 Z2640	INY
2641- 8C 49 26	2990	STY Z2647+2
2644- 8C 4C 26	2995	STY Z264A+2
2647- BD 40 D7	3000 Z2647	LDA LstScrPage+64,X
264A- 9D 00 D0	3005 Z264A	STA ScreenRam,X
264D- E8	3010	INX
264E- F0 F0	3015	BEQ Z2640
2650- 10 F5	3020	BPL Z2647
2652- C0 D7	3025	CPY #\$D7
2654- 90 F1	3030	BCC Z2647
2656- A2 00	3035 Z2656	LDX #0
2658- 4C CB 25	3040	JMP Z25CB
	3045 ;	
265B- 20	3050 OldChar	.BY 32
265C- 01	3055 DriveFlag	.BY 1
265D- 00	3060 NuTrack	.By 0
265E- 00	3065 NuSector	.By 0
265F- 00	3070 LghtSector	.By 0
2660- 00	3075 PointerLoX	.By 0
2661- 00	3080 PointerHiX	.By 0
2662- 00	3085 TrackX	.By 0
	3090 ;	
2663- 20 8A 26	3095 Homerout	JSR DoStepOut
2666- 20 78 26	3100	JSR MainDelay
2669- 8C 5D 26	3105	STY NuTrack
266C- A9 02	3110 HoRo1	LDA #%00000010
266E- 2C 00 C0	3115	BIT DosPort
2671- F0 05	3120	BEQ MainDelay
2673- 20 83 26	3125	JSR DoStepIn
2676- F0 F4	3130	BEQ HoRo1
2678- A2 0C	3135 MainDelay	LDX #\$C
267A- A0 C7	3140 Delay	LDY #\$C7
267C- 88	3145 Del	DEY
267D- D0 FD	3150	BNE Del
267F- CA	3155	DEX
2680- D0 F8	3160	BNE Delay
2682- 60	3165 DelayRts	RTS
	3170 ;	
2683- AD 02 C0	3175 DoStepIn	LDA DosPort+2
2686- 09 04	3180	ORA #4
2688- D0 05	3185	BNE DoStep
268A- A9 FB	3190 DoStepOut	LDA #\$FB
268C- 2D 02 C0	3195	AND DosPort+2
268F- 8D 02 C0	3200 DoStep	STA DosPort+2
2692- 20 82 26	3205	JSR DelayRts
2695- 29 F7	3210	AND #\$F7
2697- 8D 02 C0	3215	STA DosPort+2
269A- 20 82 26	3220	JSR DelayRts

269D- 09 08	3225	Z269D	ORA #8
269F- 8D 02 C0	3230		STA DosPort+2
26A2- A2 19	3235		LDX #\$19
26A4- D0 D4	3240		BNE Delay
	3245 ;		
26A6- AD 62 26	3250		LDA TrackX
26A9- 38	3255		SEC
26AA- A2 FF	3260		LDX #\$FF
26AC- E8	3265	Z26AC	INX
26AD- E9 0A	3270		SBC #\$A
26AF- B0 FB	3275		BCS Z26AC
26B1- 69 0A	3280		ADC #\$A
26B3- 85 FA	3285		STA *ZFA
26B5- 8A	3290		TXA
26B6- 0A	3295		ASL A
26B7- 0A	3300		ASL A
26B8- 0A	3305		ASL A
26B9- 0A	3310		ASL A
26BA- 05 FA	3315		ORA *ZFA
	3320 ;		
26BC- 85 FA	3325	Seek	STA *ZFA
26BE- 48	3330		PHA
26BF- 2C 9E 26	3335		BIT Z269D+1
26C2- F0 04	3340		BEQ Z26C8
26C4- 29 06	3345		AND #6
26C6- D0 05	3350		BNE Z26CD
26C8- 68	3355	Z26C8	PLA
26C9- C9 40	3360		CMP #\$40
26CB- 90 04	3365		BCC Z26D1
26CD- A9 08	3370	Z26CD	LDA #8
26CF- D0 0D	3375		BNE Z26DE
26D1- AD 5C 26	3380	Z26D1	LDA DriveFlag
26D4- 29 01	3385		AND #1
26D6- A8	3390		TAY
26D7- 20 DA 29	3395		JSR Z29DA
26DA- 90 05	3400		BCC Z26E1
26DC- A9 06	3405		LDA #6
26DE- 4C 4B 2A	3410	Z26DE	JMP GivErrOut
26E1- F8	3415	Z26E1	SED
26E2- A6 FA	3420		LDX *ZFA
26E4- EC 5D 26	3425		CPX NuTrack
26E7- F0 1C	3430		BEQ Z2705
26E9- B0 0D	3435		BCS Z26F8
26EB- A9 99	3440		LDA #\$99
26ED- 6D 5D 26	3445		ADC NuTrack
26F0- 8D 5D 26	3450		STA NuTrack
26F3- 20 83 26	3455		JSR DoStepIn
26F6- F0 E9	3460		BEQ Z26E1
26F8- A9 00	3465	Z26F8	LDA #0
26FA- 6D 5D 26	3470		ADC NuTrack
26FD- 8D 5D 26	3475		STA NuTrack
2700- 20 8A 26	3480		JSR DoStepOut
2703- F0 DC	3485		BEQ Z26E1
2705- D8	3490	Z2705	CLD
2706- 4C 78 26	3495		JMP MainDelay
	3500 ;		
2709- AD 02 C0	3505		LDA DosPort+2
270C- A2 42	3510		LDX #\$42
270E- EC 5D 26	3515		CPX NuTrack
2711- 90 04	3520		BCC Z2717
2713- 09 40	3525		ORA #\$40
2715- D0 02	3530		BNE Z2719
2717- 29 BF	3535	Z2717	AND #\$BF
2719- 8D 02 C0	3540	Z2719	STA DosPort+2
271C- 60	3545		RTS
	3550 ;		

271D- AD 00 C0	3555	WaitIndex	LDA DosPort
2720- 30 FB	3560		BMI WaitIndex
2722- AD 00 C0	3565	WaIn1	LDA DosPort
2725- 10 FB	3570		BPL WaIn1
2727- 60	3575		RTS
	3580 ;		
2728- 20 54 27	3585	DwnIndAcia	JSR HeadDown
272B- 20 1D 27	3590	WtInSeAcia	JSR WaitIndex
272E- A9 03	3595		LDA #3
2730- 8D 10 C0	3600		STA DosAcia
2733- A9 58	3605		LDA #\$58
2735- 8D 10 C0	3610		STA DosAcia
2738- 60	3615		RTS
	3620 ;		
2739- 20 28 27	3625	ReadSector	JSR DwnIndAcia
273C- AD 00 C0	3630	ReadSe1	LDA DosPort
273F- 10 20	3635		BPL HeadUp
2741- AD 10 C0	3640		LDA DosAcia
2744- 4A	3645		LSR A
2745- 90 F5	3650		BCC ReadSe1
2747- AD 11 C0	3655		LDA DosAcia+1
274A- 91 FE	3660		STA (PointerLo),Y
274C- C8	3665		INY
274D- D0 ED	3670		BNE ReadSe1
274F- E6 FF	3675		INC *PointerHi
2751- 4C 3C 27	3680		JMP ReadSe1
	3685 ;		
2754- A9 7F	3690	HeadDown	LDA #\$01111111
2756- 2D 02 C0	3695		AND DosPort+2
2759- 8D 02 C0	3700	HeDo1	STA DosPort+2
275C- A2 28	3705		LDX #\$28
275E- 4C 7A 26	3710		JMP Delay
	3715 ;		
2761- A9 80	3720	HeadUp	LDA #\$10000000
2763- 0D 02 C0	3725	HeUp1	ORA DosPort+2
2766- D0 F1	3730		BNE HeDo1
	3735 ;		
2768- A9 39	3740	InizAll	LDA #\$39
276A- 85 E5	3745		STA *ZE5
276C- 20 63 26	3750		JSR Homerout
276F- 20 83 2C	3755	Z276F	JSR Z2C83
2772- 20 7D 27	3760		JSR TstT0.Prot
2775- AD 5D 26	3765		LDA NuTrack
2778- C9 39	3770		CMP #\$39
277A- D0 F3	3775		BNE Z276F
277C- 60	3780		RTS
	3785 ;		
277D- A9 02	3790	TstT0.Prot	LDA #\$00000010
277F- 2C 00 C0	3795		BIT DosPort
2782- D0 04	3800		BNE TestProtct
2784- A9 03	3805		LDA #3
2786- D0 09	3810		BNE TestErr
2788- A9 20	3815	TestProtct	LDA #\$00100000
278A- 2C 00 C0	3820		BIT DosPort
278D- D0 05	3825		BNE WrtHeader
278F- A9 04	3830		LDA #4
2791- 4C 4B 2A	3835	TestErr	JMP GivErrOut
2794- 20 28 27	3840	WrtHeader	JSR DwnIndAcia
2797- A9 FC	3845		LDA #\$FC
2799- 2D 02 C0	3850		AND DosPort+2
279C- 8D 02 C0	3855		STA DosPort+2
279F- A2 0A	3860		LDX #\$A
27A1- 20 7A 26	3865		JSR Delay
27A4- A2 43	3870		LDX #\$43
27A6- 20 C2 27	3875		JSR PutByte
27A9- A2 57	3880		LDX #\$57

27AB- 20 C2 27	3885	JSR PutByte
27AE- AE 5D 26	3890	LDX NuTrack
27B1- 20 C2 27	3895	JSR PutByte
27B4- A2 58	3900	LDX #\$58
27B6- 20 C2 27	3905	JSR PutByte
27B9- AD 00 C0	3910 WrHe1	LDA DosPort
27BC- 30 FB	3915	BMI WrHe1
27BE- A9 83	3920	LDA #\$83
27C0- D0 A1	3925	BNE HeUp1
	3930 ;	
27C2- AD 10 C0	3935 PutByte	LDA DosAcia
27C5- 4A	3940	LSR A
27C6- 4A	3945	LSR A
27C7- 90 F9	3950	BCC PutByte
27C9- 8E 11 C0	3955	STX DosAcia+1
27CC- 60	3960	RTS
	3965 ;	
27CD- AD 10 C0	3970 GetByte	LDA DosAcia
27D0- 4A	3975	LSR A
27D1- 90 FA	3980	BCC GetByte
27D3- AD 11 C0	3985	LDA DosAcia+1
27D6- 60	3990 PutGetRts	RTS
	3995 ;	
27D7- AD 60 26	4000	LDA PointerLoX
27DA- 85 FE	4005	STA *PointerLo
27DC- AD 61 26	4010	LDA PointerHiX
27DF- 85 FF	4015	STA *PointerHi
27E1- AD 5F 26	4020 TstBadSec	LDA LghtSector
27E4- F0 02	4025	BEQ GivBS.Err
27E6- 10 04	4030	BPL Z27EC
27E8- A9 08	4035 GivBS.Err	LDA #\$B
27EA- D0 A5	4040 Z27EA	BNE TestErr
27EC- C9 09	4045 Z27EC	CMP #\$9
27EE- 10 F8	4050	BPL GivBS.Err
27F0- A9 02	4055	LDA #2
27F2- 2C 00 C0	4060	BIT DosPort
27F5- F0 DF	4065	BEQ PutGetRts
27F7- 4A	4070	LSR A
27F8- 85 FA	4075	STA *ZFA
27FA- A9 20	4080	LDA #\$20
27FC- 2C 00 C0	4085	BIT DosPort
27FF- D0 04	4090	BNE Z2805
2801- A9 04	4095	LDA #\$4
2803- D0 E5	4100	BNE Z27EA
2805- A9 01	4105 Z2805	LDA #1
2807- 85 F6	4110	STA *ZF6
2809- A9 03	4115 Z2809	LDA #3
280B- 85 F8	4120	STA *ZF8
280D- 20 C4 28	4125	JSR Find
2810- 20 9F 28	4130	JSR Z289F
2813- A9 FE	4135	LDA #\$FE
2815- 2D 02 C0	4140	AND DosPort+2
2818- 8D 02 C0	4145	STA DosPort+2
281B- A2 25	4150	LDX #\$25
281D- CA	4155 Z281D	DEX
281E- D0 FD	4160	BNE Z281D
2820- A9 FF	4165	LDA #\$11111111
2822- 2D 02 C0	4170	AND DosPort+2
2825- 8D 02 C0	4175	STA DosPort+2
2828- 20 9F 28	4180	JSR Z289F
282B- A2 76	4185	LDX #\$76
282D- 20 C2 27	4190	JSR PutByte
2830- AE 5E 26	4195	LDX NuSector
2833- 20 C2 27	4200	JSR PutByte
2836- AE 5F 26	4205	LDX LghtSector
2839- 86 FD	4210	STX *TempSecLen

283B- 20 C2 27	4215	JSR PutByte
283E- A0 00	4220	LDY #0
2840- B1 FE	4225 Z2840	LDA (PointerLo),Y
2842- AA	4230	TAX
2843- 20 C2 27	4235	JSR PutByte
2846- C8	4240	INY
2847- D0 F7	4245	BNE Z2840
2849- E6 FF	4250	INC *PointerHi
284B- C6 FD	4255	DEC *TempSecLen
284D- D0 F1	4260	BNE Z2840
284F- A2 47	4265	LDX #'G'
2851- 20 C2 27	4270	JSR PutByte
2854- A2 53	4275	LDX #'S'
2856- 20 C2 27	4280	JSR PutByte
2859- AD 5F 26	4285	LDA LghtSector
285C- 0A	4290	ASL A
285D- 85 FD	4295	STA *TempSecLen
285F- 0A	4300	ASL A
2860- 18	4305	CLC
2861- 65 FD	4310	ADC *TempSecLen
2863- 20 A4 28	4315	JSR Z28A4
2866- AD 02 C0	4320	LDA DosPort+2
2869- 09 01	4325	ORA #\$00000001
286B- 8D 02 C0	4330	STA DosPort+2
286E- A2 69	4335	LDX #\$69
2870- CA	4340 Z2870	DEX
2871- D0 FD	4345	BNE Z2870
2873- 09 02	4350	ORA #\$00000010
2875- 8D 02 C0	4355	STA DosPort+2
2878- 18	4360 Z2878	CLC
2879- 8A	4365	TXA
287A- 65 FF	4370	ADC *PointerHi
287C- 38	4375	SEC
287D- ED 5F 26	4380	SBC LghtSector
2880- 85 FF	4385	STA *PointerHi
2882- 20 05 29	4390	JSR Z2905
2885- B0 28	4395	BCS Z28AF
2887- C6 F8	4400	DEC *ZF8
2889- D0 ED	4405	BNE Z2878
288B- C6 F6	4410	DEC *ZF6
288D- 30 0C	4415	BMI Z289B
288F- 8A	4420	TXA
2890- 65 FF	4425	ADC *PointerHi
2892- 38	4430	SEC
2893- ED 5F 26	4435	SBC LghtSector
2896- 85 FF	4440	STA *PointerHi
2898- 4C 09 28	4445	JMP Z2809
289B- A9 02	4450 Z289B	LDA #2
289D- D0 22	4455	BNE JmpError
289F- A5 FA	4460 Z289F	LDA #ZFA
28A1- 0A	4465	ASL A
28A2- 0A	4470	ASL A
28A3- 0A	4475	ASL A
28A4- A8	4480 Z28A4	TAY
28A5- A2 12	4485 Z28A5	LDX #\$12
28A7- CA	4490 Z28A7	DEX
28A8- D0 FD	4495	BNE Z28A7
28AA- EA	4500	NOP
28AB- EA	4505	NOP
28AC- 88	4510	DEY
28AD- D0 F6	4515	BNE Z28A5
28AF- 60	4520 Z28AF	RTS
	4525 ;	
28B0- AD 00 C0	4530 Z28B0	LDA DosPort
28B3- 10 0A	4535 Z28B3	BPL GivErr9
28B5- AD 10 C0	4540	LDA DosAsia

28B8- 4A	4545	LSR A
28B9- 90 F5	4550	BCC Z28B0
28BB- AD 11 C0	4555	LDA DosAsia+1
28BE- 60	4560	RTS
	4565 ;	
28BF- A9 09	4570	GivErr9 LDA #9
28C1- 4C 4B 2A	4575	JmpError JMP GivErrOut
	4580 ;	
28C4- 20 2B 27	4585	Find JSR WtInSeAsia
28C7- 20 B0 28	4590	Fnd1 JSR Z28B0
28CA- C9 43	4595	Fnd2 CMP #'C'
28CC- D0 F9	4600	BNE Fnd1
28CE- 20 B0 28	4605	JSR Z28B0
28D1- C9 57	4610	CMP #'W'
28D3- D0 F5	4615	BNE Fnd2
28D5- 20 CD 27	4620	JSR GetByte
28D8- CD 5D 26	4625	CMP NuTrack
28DB- F0 04	4630	BEQ Fnd3
28DD- A9 05	4635	SeekError LDA #5
28DF- D0 E0	4640	BNE JmpError
28E1- 20 CD 27	4645	Fnd3 JSR GetByte
28E4- CE 5E 26	4650	DEC NuSector
28E7- F0 14	4655	BEQ FindRts
28E9- A9 00	4660	LDA #0
28EB- 85 F9	4665	STA *ZF9
28ED- 20 98 29	4670	JsrDumRead JSR DummyRead
28F0- 90 0F	4675	BCC NoSecError
28F2- AD 5E 26	4680	LDA NuSector
28F5- C5 F9	4685	CMP *ZF9
28F7- D0 F4	4690	BNE JsrDumRead
28F9- C5 FB	4695	CMP *ZFB
28FB- D0 04	4700	BNE NoSecError
28FD- EE 5E 26	4705	FindRts INC NuSector
2900- 60	4710	RTS
	4715 ;	
2901- A9 0A	4720	NoSecError LDA #\$A
2903- D0 BC	4725	BNE JmpError
	4730 ;	
2905- 4B	4735	Z2905 PHA
2906- 20 C4 28	4740	JSR Find
2909- 20 B0 28	4745	Z2909 JSR Z28B0
290C- C9 76	4750	CMP #\$76
290E- D0 F9	4755	BNE Z2909
2910- 20 CD 27	4760	JSR GetByte
2913- CD 5E 26	4765	CMP NuSector
2916- F0 03	4770	BEQ Z291B
2918- 68	4775	PLA
2919- 18	4780	Z2919 CLC
291A- 60	4785	RTS
	4790 ;	
291B- 20 CD 27	4795	Z291B JSR GetByte
291E- AA	4800	TAX
291F- 8D 5F 26	4805	STA LghtSector
2922- A0 00	4810	LDY #0
2924- 68	4815	PLA
2925- F0 1C	4820	BEQ Z2943
2927- AD 10 C0	4825	Z2927 LDA DosAsia
292A- 4A	4830	LSR A
292B- 90 FA	4835	BCC Z2927
292D- AD 11 C0	4840	LDA DosAsia+1
2930- 2C 10 C0	4845	BIT DosAsia
2933- 70 E4	4850	BVS Z2919
2935- D1 FE	4855	CMP (PointerLo),Y
2937- D0 E0	4860	BNE Z2919
2939- C8	4865	INY
293A- D0 EB	4870	BNE Z2927

293C- E6 FF	4875	INC *PointerHi
293E- CA	4880	DEX
293F- D0 E6	4885	BNE Z2927
2941- 38	4890	SEC
2942- 60	4895	RTS
	4900 ;	
2943- AD 10 C0	4905 Z2943	LDA DosAsia
2946- 4A	4910	LSR A
2947- 90 FA	4915	BCC Z2943
2949- AD 11 C0	4920	LDA DosAsia+1
294C- 2C 10 C0	4925	BIT DosAsia
294F- 70 C8	4930	BVS Z2919
2951- 91 FE	4935	STA (PointerLo),Y
2953- C8	4940	INY
2954- D0 ED	4945	BNE Z2943
2956- E6 FF	4950	INC *PointerHi
2958- CA	4955	DEX
2959- D0 E8	4960	BNE Z2943
295B- 38	4965	SEC
295C- 60	4970	RTS
	4975 ;	
295D- AD 60 26	4980	LDA PointerLoX
2960- 85 FE	4985	STA *PointerLo
2962- AD 61 26	4990	LDA PointerHiX
2965- 85 FF	4995	STA *PointerHi
2967- A9 03	5000 LoTrNuSeNu	LDA #3
2969- 85 F7	5005	STA *ZF7
296B- A9 07	5010 Z296B	LDA #7
296D- 85 FB	5015	STA *ZF8
296F- A9 00	5020 Z296F	LDA #0
2971- 20 05 29	5025	JSR Z2905
2974- 90 04	5030	BCC Z297A
2976- 60	5035	RTS
2977- C6 FF	5040 Z2977	DEC *PointerHi
2979- E8	5045	INX
297A- EC 5F 26	5050 Z297A	CPX LghtSector
297D- D0 FB	5055	BNE Z2977
297F- C6 F8	5060	DEC *ZF8
2981- D0 EC	5065	BNE Z296F
2983- 20 83 26	5070	JSR DoStepIn
2986- 20 78 26	5075	JSR MainDelay
2989- 20 8A 26	5080	JSR DoStepOut
298C- 20 78 26	5085	JSR MainDelay
298F- C6 F7	5090	DEC *ZF7
2991- 10 DB	5095	BPL Z296B
2993- A9 01	5100 CntReadSec	LDA #1
2995- 4C 4B 2A	5105	JMP GivErrOut
	5110 ;	
2998- AD 00 C0	5115 DummyRead	LDA DosPort
299B- 10 27	5120	BPL ClearCarry
299D- AD 10 C0	5125	LDA DosAsia
29A0- 4A	5130	LSR A
29A1- 90 F5	5135	BCC DummyRead
29A3- AD 11 C0	5140	LDA DosAsia+1
29A6- C9 76	5145	CMP #\$76
29A8- D0 EE	5150	BNE DummyRead
29AA- 20 CD 27	5155	JSR GetByte
29AD- 85 FB	5160	STA *ZFB
29AF- 20 CD 27	5165	JSR GetByte
29B2- 85 FA	5170	STA *ZFA
29B4- E6 F9	5175	INC *ZF9
29B6- AB	5180	TAY
29B7- A2 00	5185	LDX #0
29B9- 20 CD 27	5190 DumRe1	JSR GetByte
29BC- CA	5195	DEX
29BD- D0 FA	5200	BNE DumRe1

29BF- 88	5205	DEY
29C0- D0 F7	5210	BNE DumRe1
29C2- 38	5215	SEC
29C3- 60	5220	RTS
	5225 ;	
29C4- 18	5230 ClearCarry	CLC
29C5- 60	5235	RTS
	5240 ;	
29C6- 8D 5C 26	5245 Select	STA DriveFlag
29C9- 0A	5250	ASL A
29CA- AA	5255	TAX
29CB- 29 02	5260	AND #2
29CD- AB	5265	TAY
29CE- BD E9 29	5270	LDA Z29E9,X
29D1- 8D 00 C0	5275	STA DosPort
29D4- BD EA 29	5280	LDA Z29EA,X
29D7- 8D 02 C0	5285	STA DosPort+2
29DA- AD 00 C0	5290 Z29DA	LDA DosPort
29DD- 4A	5295	LSR A
29DE- 08	5300	PHP
29DF- C0 00	5305	CPY #0
29E1- D0 06	5310	BNE Z29E9
29E3- 28	5315	PLP
29E4- 4A	5320	LSR A
29E5- 4A	5325	LSR A
29E6- 4A	5330	LSR A
29E7- 4A	5335	LSR A
29E8- 60	5340	RTS
	5345 ;	
29E9- 28	5350 Z29E9	PLP
29EA- 60	5355 Z29EA	RTS
	5360 ;	
29EB- 40 FF 00	5365	.BY \$40 \$FF \$00 \$FF
29EE- FF		
29EF- 40 DF 00	5370	.BY \$40 \$DF \$00 \$DF
29F2- DF		
	5375 ;	
29F3- AA	5380 PrtSectors	TAX
29F4- F0 CE	5385	BEQ ClearCarry
29F6- 48	5390	PHA
29F7- 20 BC 26	5395	JSR Seek
29FA- 20 73 2D	5400	JSR PrtString
29FD- 0D 0A 54	5405	.BY \$D \$A 'TRACK ' 0
2A00- 52 41 43		
2A03- 4B 20 00		
2A06- 68	5410	PLA
2A07- 20 92 2D	5415	JSR PrintAccu
2A0A- BA	5420	TSX
2A0B- 86 FC	5425	STX *ZFC
2A0D- 20 54 27	5430	JSR HeadDown
2A10- E8	5435	INX
2A11- 8E 5E 26	5440	STX NuSector
2A14- 20 C4 28	5445	JSR Find
2A17- A9 00	5450	LDA #0
2A19- 85 F9	5455	STA *ZF9
2A1B- 20 98 29	5460 Z2A1B	JSR DummyRead
2A1E- A5 FB	5465	LDA *ZFB
2A20- 48	5470	PHA
2A21- A5 FA	5475	LDA *ZFA
2A23- 48	5480	PHA
2A24- B0 F5	5485	BCS Z2A1B
2A26- A6 FC	5490	LDX *ZFC
2A28- 90 0D	5495	BCC Z2A37
2A2A- 20 6A 2D	5500 Z2A2A	JSR CrLf
2A2D- A9 20	5505	LDA #' '
2A2F- 20 41 2A	5510	JSR Z2A41

2A32- A9 2D	5515	LDA #'-'
2A34- 20 41 2A	5520	JSR Z2A41
2A37- C6 F9	5525	Z2A37 DEC *ZF9
2A39- 10 EF	5530	BPL Z2A2A
2A3B- A6 FC	5535	LDX *ZFC
2A3D- 9A	5540	TXS
2A3E- 4C 61 27	5545	JMP HeadUp
	5550 ;	
2A41- 20 43 23	5555	Z2A41 JSR CharOut
2A44- BD 00 01	5560	LDA PageOne,X
2A47- CA	5565	DEX
2A48- 4C 92 2D	5570	JMP PrintAccu
	5575 ;	
2A4B- 20 C4 2A	5580	GivErrOut JSR Error
2A4E- 4C 51 2A	5585	Z2A4E JMP GoIntoDOS
	5590 ;	
2A51- A2 28	5595	GoIntoDOS LDX #\$28
2A53- 9A	5600	TXS
2A54- A9 51	5605	LDA #L,GoIntoDOS
2A56- A0 2A	5610	LDY #H,GoIntoDOS
2A58- 20 7D 2A	5615	JSR Z2A7D
2A5B- 20 6A 2D	5620	JSR CrLf
2A5E- AD 5C 26	5625	LDA DriveFlag
2A61- 18	5630	CLC
2A62- 69 40	5635	ADC #\$40
2A64- 20 43 23	5640	JSR CharOut
2A67- A9 2A	5645	LDA #'*' JSR CharOut
2A69- 20 43 23	5650	JSR CharOut
2A6C- 20 98 2C	5655	JSR Z2C9B
2A6F- A9 2E	5660	LDA #H,InBuffDos
2A71- 85 E2	5665	STA *InBufVect+1
2A73- A9 1E	5670	LDA #L,InBuffDos
2A75- 85 E1	5675	STA *InBufVect
2A77- 20 84 2A	5680	JSR Z2A84
2A7A- 4C 51 2A	5685	JMP GoIntoDOS
	5690 ;	
2A7D- 8D 4F 2A	5695	Z2A7D STA Z2A4E+1
2A80- 8C 50 2A	5700	STY Z2A4E+2
2A83- 60	5705	RTS
	5710 ;	
2A84- A2 00	5715	Z2A84 LDX #0
2A86- 8E E5 2C	5720	STX ChargeDOS+1
2A89- A0 00	5725	Z2A89 LDY #0
2A8B- BD 30 2E	5730	LDA Z2E30,X
2A8E- F0 30	5735	BEQ SyntaxErr
2A90- D1 E1	5740	CMP (InBufVect),Y
2A92- D0 26	5745	BNE Z2ABA
2A94- C8	5750	INY
2A95- BD 31 2E	5755	LDA Z2E30+1,X
2A98- D1 E1	5760	CMP (InBufVect),Y
2A9A- D0 1E	5765	BNE Z2ABA
2A9C- BD 33 2E	5770	LDA Z2E32+1,X
2A9F- 48	5775	PHA
2AA0- BD 32 2E	5780	LDA Z2E32,X
2AA3- 48	5785	PHA
2AA4- 20 E4 2C	5790	Z2AA4 JSR ChargeDOS
2AA7- C9 0D	5795	CMP #\$D
2AA9- F0 0E	5800	BEQ Z2AB9
2AAB- C9 20	5805	CMP #\$20
2AAD- D0 F5	5810	BNE Z2AA4
2AAF- 20 E4 2C	5815	Z2AAF JSR ChargeDOS
2AB2- C9 20	5820	CMP #\$20
2AB4- F0 F9	5825	BEQ Z2AAF
2AB6- CE E5 2C	5830	DEC ChargeDOS+1
2AB9- 60	5835	Z2AB9 RTS
	5840 ;	

2ABA- E8	5845	Z2ABA	INX
2ABB- E8	5850		INX
2ABC- E8	5855		INX
2ABD- E8	5860		INX
2ABE- D0 C9	5865		BNE Z2A89
	5870	;	
2AC0- A9 07	5875	SyntaxErr	LDA #7 ;D9
2AC2- D0 87	5880		BNE GivErrOut
	5885	;	
2AC4- 48	5890	Error	PHA
2AC5- A9 01	5895	Reset.IO	LDA #1
2AC7- 8D 21 23	5900		STA InpFlag
2ACA- 8D 22 23	5905		STA OutFlag
2ACD- 20 73 2D	5910		JSR PrtString
2AD0- 20 45 52	5915		.BY ' ERR #' 0
2AD3- 52 20 23			
2AD6- 00			
2AD7- 68	5920		PLA
2AD8- 20 9B 2D	5925		JSR PrAc1
2ADB- 4C 61 27	5930		JMP HeadUp
	5935	;	
2ADE- A9 07	5940	LoadAss	LDA #7 ;AS
2AE0- 20 EE 2A	5945		JSR Ld4TrAt200
2AE3- 4C 00 13	5950		JMP Assembler
	5955	;	
2AE6- A9 02	5960	LoadBasic	LDA #2 ;BA
2AE8- 20 EE 2A	5965		JSR Ld4TrAt200
2AE9- 4C E4 20	5970		JMP Basic
	5975	;	
2AEE- 20 BC 26	5980	Ld4TrAt200	JSR Seek
2AF1- A2 02	5985		LDX #H,\$0200
2AF3- 86 E0	5990		STX *ZEO
2AF5- 86 FF	5995		STX *PointerHi
2AF7- CA	6000		DEX
2AF8- 8E 5E 26	6005		STX NuSector
2AFB- CA	6010		DEX
2 AFC- 86 FE	6015		STX *PointerLo
2AFE- CA	6020		DEX
2AFF- 86 E5	6025		STX *ZE5
2B01- 20 79 31	6030		JSR Z3179
2B04- 20 67 29	6035	Z2B04	JSR LoTrNuSeNu
2B07- C6 E0	6040		DEC *ZEO
2B09- 30 15	6045		BMI Z2B20
2B0B- 20 83 2C	6050		JSR Z2C83
2B0E- 4C 04 2B	6055		JMP Z2B04
	6060	;	
2B11- 20 23 2D	6065	Z2B11	JSR Z2D23 ;CA
2B14- 20 58 2D	6070		JSR TestEqual
2B17- 20 60 2C	6075		JSR Z2C60
2B1A- 20 54 27	6080	Z2B1A	JSR HeadDown
2B1D- 20 67 29	6085	Z2B1D	JSR LoTrNuSeNu
2B20- 4C 61 27	6090	Z2B20	JMP HeadUp
	6095	;	
2B23- A9 00	6100		LDA #0
2B25- 8D B4 28	6105		STA Z2BB3+1
2B28- 60	6110		RTS
	6115	;	
2B29- 20 2E 2D	6120	Z2B29	JSR BcdToHex ;DI
2B2C- 4C F3 29	6125		JMP PrtSectors
	6130	;	
2B2F- A9 07	6135	LoadExMon	LDA #7 ;EM
2B31- 20 EE 2A	6140		JSR Ld4TrAt200
2B34- 4C 00 17	6145		JMP ExMon
	6150	;	
2B37- 20 23 2D	6155	Z2B37	JSR Z2D23 ;EX
2B3A- 20 58 2D	6160		JSR TestEqual

2B3D- 20 2E 2D	6165	JSR BcdToHex
2B40- 20 BC 26	6170	JSR Seek
2B43- 4C 39 27	6175	JMP ReadSector
	6180 ;	
2B46- 20 2E 2D	6185 Z2B46	JSR BcdToHex ;GO
2B49- 8D 54 2B	6190	STA Z2B52+2
2B4C- 20 2E 2D	6195	JSR BcdToHex
2B4F- 8D 53 2B	6200	STA Z2B52+1
2B52- 4C 51 2A	6205 Z2B52	JMP GoIntoDOS
	6210 ;	
2B55- 20 E4 2C	6215 Iniz	JSR ChargeDOS ;IN
2B58- C9 0D	6220	CMP #\$D
2B5A- F0 0C	6225	BEQ Z2B68
2B5C- CE E5 2C	6230	DEC ChargeDOS+1
2B5F- 20 2E 2D	6235	JSR BcdToHex
2B62- 20 BC 26	6240	JSR Seek
2B65- 4C 7D 27	6245	JMP TstTO.Prot
2B68- 20 73 2D	6250 Z2B68	JSR PrtString
2B6B- 41 52 45	6255	.BY 'ARE YOU SURE?' 0
2B6E- 20 59 4F		
2B71- 55 20 53		
2B74- 55 52 45		
2B77- 3F 00		
2B79- 20 40 23	6260	JSR Z2340
2B7C- C9 59	6265	CMP #'Y'
2B7E- D0 26	6270	BNE Z2BA6
2B80- 4C 68 27	6275	JMP InizAll
	6280 ;	
2B83- 20 E4 2C	6285 Z2B83	JSR ChargeDOS ;IO
2B86- C9 2C	6290	CMP #'.'
2B88- F0 16	6295	BEQ Z2BA0
2B8A- CE E5 2C	6300	DEC ChargeDOS+1
2B8D- 20 2E 2D	6305	JSR BcdToHex
2B90- 8D 21 23	6310	STA InpFlag
2B93- 20 E4 2C	6315	JSR ChargeDOS
2B96- C9 0D	6320	CMP #\$D
2B98- F0 OC	6325	BEQ Z2BA6
2B9A- CE E5 2C	6330	DEC ChargeDOS+1
2B9D- 20 5B 2D	6335	JSR TestColon+1
2BA0- 20 2E 2D	6340 Z2BA0	JSR BcdToHex
2BA3- 8D 22 23	6345	STA OutFlag
2BA6- 60	6350 Z2BA6	RTS
	6355 ;	
2BA7- 20 A6 2D	6360 LoadFile	JSR FindNumber ;LO
2BAA- 20 70 2C	6365	JSR Z2C70
2BAD- 86 E0	6370	STX *ZEO
2BAF- F0 03	6375	BEQ Z2BB4
2BB1- 20 83 2C	6380 Z2BB1	JSR Z2C83
2BB4- 20 67 29	6385 Z2BB4	JSR LoTrNuSeNu
2BB7- E6 E0	6390	INC *ZEO
2BB9- CE 7D 32	6395	DEC FileLength
2BBC- D0 F3	6400	BNE Z2BB1
2BBE- A5 E0	6405	LDA *ZEO
2BC0- 8D 7D 32	6410	STA FileLength
2BC3- 4C 61 27	6415	JMP HeadUp
	6420 ;	
2BC6- A2 00	6425 Z2BC6	LDX #0 ;ME
2BC8- 20 D0 2B	6430	JSR Z2BD0
2BCB- 20 5B 2D	6435	JSR TestColon+1
2BCE- A2 07	6440	LDX #7
2BD0- 20 2E 2D	6445 Z2BD0	JSR BcdToHex
2BD3- 9D 8B 23	6450	STA InpChann5+2,X
2BD6- 20 2E 2D	6455	JSR BcdToHex
2BD9- 9D 8A 23	6460	STA InpChann5+1,X
2BDC- 60	6465	RTS
	6470 ;	

2BDD-	20 A6 2D	6475	PutFile	JSR FindNumber	;PU
2BE0-	20 70 2C	6480		JSR Z2C70	
2BE3-	AD 7D 32	6485		LDA FileLength	
2BE6-	85 E0	6490		STA *ZEO	
2BE8-	A9 08	6495		LDA #8	
2BEA-	8D 5F 26	6500		STA LghtSector	
2BED-	20 E1 27	6505	Z2BED	JSR TstBadSec	
2BF0-	C6 E0	6510		DEC *ZEO	
2BF2-	F0 06	6515		BEQ Z2BFA	
2BF4-	20 83 2C	6520		JSR Z2C83	
2BF7-	4C ED 2B	6525		JMP Z2BED	
2BFA-	4C 61 27	6530	Z2BFA	JMP HeadUp	
		6535	;		
2BFD-	20 E4 2C	6540	Reenter	JSR ChargeDOS	;RE
2C00-	C9 41	6545		CMP #'A	
2C02-	D0 03	6550		BNE Z2C07	
2C04-	4C C0 2A	6555		JMP SyntaxErr	
2C07-	C9 42	6560	Z2C07	CMP #'B	
2C09-	D0 03	6565		BNE Z2C0E	
2C0B-	4C C0 2A	6570		JMP SyntaxErr	
2C0E-	C9 45	6575	Z2C0E	CMP #'E	
2C10-	D0 03	6580		BNE Z2C15	
2C12-	4C C0 2A	6585		JMP SyntaxErr	
2C15-	C9 4D	6590	Z2C15	CMP #'M	
2C17-	D0 06	6595		BNE Z2C1F	
2C19-	20 0D 25	6600		JSR Swap5Byte	
2C1C-	6C FC FE	6605		JMP (ZFEFC)	
2C1F-	4C C0 2A	6610	Z2C1F	JMP SyntaxErr	
		6615	;		
2C22-	20 A7 2B	6620	Z2C22	JSR LoadFile	;XQ
2C25-	4C 7E 32	6625		JMP Z327E	
		6630	;		
2C28-	20 60 2C	6635	SaveTrack	JSR Z2C60 ;SA	
2C2B-	20 58 2D	6640		JSR TestEqual	
2C2E-	20 23 2D	6645		JSR Z2D23	
2C31-	20 5E 2D	6650		JSR TestDiv+1	
2C34-	20 3D 2D	6655		JSR TestHex	
2C37-	8D 5F 26	6660		STA LghtSector	
2C3A-	20 54 27	6665		JSR HeadDown	
2C3D-	20 E1 27	6670		JSR TstBadSec	
2C40-	4C 61 27	6675		JMP HeadUp	
		6680	;		
2C43-	20 E4 2C	6685	Z2C43	JSR ChargeDOS	;SE
2C46-	C9 41	6690		CMP #'A'	
2C48-	30 0E	6695		BMI Z2C58	
2C4A-	C9 45	6700		CMP #'E'	
2C4C-	10 0A	6705		BPL Z2C58	
2C4E-	29 0F	6710		AND #\$F	
2C50-	20 C6 29	6715		JSR Select	
2C53-	B0 06	6720		BCS Z2C5B	
2C55-	4C 63 26	6725		JMP Homerout	
2C58-	4C C0 2A	6730	Z2C58	JMP SyntaxErr	
2C5B-	A9 06	6735	Z2C5B	LDA #6	
2C5D-	4C 4B 2A	6740	Z2C5D	JMP GivErrOut	
		6745	;		
2C60-	20 2E 2D	6750	Z2C60	JSR BcdToHex	
2C63-	20 BC 26	6755		JSR Seek	
2C66-	20 5B 2D	6760		JSR TestColon+1	
2C69-	20 3D 2D	6765		JSR TestHex	
2C6C-	8D 5E 26	6770		STA NuSector	
2C6F-	60	6775		RTS	
		6780	;		
2C70-	20 BC 26	6785	Z2C70	JSR Seek	
2C73-	A9 32	6790		LDA #H,FilePointr	
2C75-	85 FF	6795		STA *PointerHi	
2C77-	A9 79	6800		LDA #L,FilePointr	

2C79- 85 FE 6805 STA \*PointerLo  
2C7B- A9 01 6810 LDA #1  
2C7D- 8D 5E 26 6815 STA NuSector  
2C80- 4C 54 27 6820 JMP HeadDown  
6825 ;  
2C83- AD 5D 26 6830 Z2C83 LDA NuTrack  
2C86- 18 6835 CLC  
2C87- F8 6840 SED  
2C88- 69 01 6845 ADC #1  
2C8A- D8 6850 CLD  
2C8B- C5 E5 6855 CMP #ZE5  
2C8D- F0 02 6860 Z2C8D BEQ Z2C91  
2C8F- B0 03 6865 BCS GivErrD  
2C91- 4C BC 26 6870 Z2C91 JMP Seek  
2C94- A9 0D 6875 GivErrD LDA #\$D  
2C96- D0 C5 6880 BNE Z2C5D  
6885 ;  
2C98- 20 6A 2D 6890 Z2C98 JSR CrLf  
2C9B- A9 11 6895 Z2C9B LDA #\$11  
2C9D- 8D ED 2C 6900 STA ChGeBufLen+1  
2CA0- A2 00 6905 LDX #0  
2CA2- 20 40 23 6910 Z2CA2 JSR Z2340  
2CA5- C9 5F 6915 CMP #\$5F  
2CA7- D0 13 6920 BNE Z2CBC  
2CA9- CA 6925 DEX  
2CAA- 30 EC 6930 BMI Z2C98  
2CAC- 9D 1E 2E 6935 STA InBuffDos,X  
2CAF- 20 73 2D 6940 JSR PrtString  
2CB2- 08 08 20 6945 .BY 8 8 ' ' 8 8 0  
2CB5- 20 08 08  
2CB8- 00  
2CB9- 4C A2 2C 6950 JMP Z2CA2  
6955 ;  
2CBC- C9 15 6960 Z2CBC CMP #\$15  
2CBE- F0 D8 6965 BEQ Z2C98  
2CC0- 9D 1E 2E 6970 Z2CC0 STA InBuffDos,X  
2CC3- C9 0D 6975 CMP #\$D  
2CC5- F0 09 6980 BEQ Z2CD0  
2CC7- E8 6985 INX  
2CC8- E0 11 6990 CPX #\$11  
2CCA- D0 D6 6995 BNE Z2CA2  
2CCC- A9 0D 7000 LDA #\$D  
2CCE- D0 F0 7005 BNE Z2CC0  
2CD0- 4C 6A 2D 7010 Z2CD0 JMP CrLf  
7015 ;  
2CD3- 00 7020 BRK  
2CD4- 00 7025 BRK  
2CD5- 00 7030 BRK  
7035 ;  
2CD6- 20 67 23 7040 Z2CD6 JSR TmpRegOut  
2CD9- 20 39 23 7045 Z2CD9 JSR Z2339  
2CDC- 20 4D 25 7050 JSR TestForMem  
2CDF- F0 F8 7055 BEQ Z2CD9  
2CE1- 4C 5E 23 7060 JMP TmpOut.X  
7065 ;  
2CE4- A0 00 7070 ChargeDOS LDY #0  
2CE6- B1 E1 7075 LDA (InBufVect),Y  
2CE8- C9 0D 7080 CMP #\$D  
2CEA- F0 07 7085 BEQ ChGetRts  
2CEC- C0 12 7090 ChGeBufLen CPY #18  
2CEE- F0 04 7095 BEQ BuffFull  
2CF0- EE E5 2C 7100 INC ChargeDOS+1  
2CF3- 60 7105 ChGetRts RTS  
7110 ;  
2CF4- A9 0D 7115 BuffFull LDA #\$D  
2CF6- 60 7120 RTS

		7125 ;
2CF7-	68	7130 SwapPages PLA
2CF8-	18	7135 CLC
2CF9-	69 01	7140 ADC #1
2CFB-	8D 21 2D	7145 STA SwapReturn+1
2CFE-	68	7150 PLA
2CFF-	69 00	7155 ADC #0
2D01-	8D 22 2D	7160 STA SwapReturn+2
2D04-	A2 00	7165 LDX #0
2D06-	BD 00 01	7170 SwPa1 LDA PageOne,X
2D09-	BC 79 30	7175 LDY Buff3079,X
2D0C-	9D 79 30	7180 STA Buff3079,X
2D0F-	98	7185 TYA
2D10-	9D 00 01	7190 STA PageOne,X
2D13-	B5 00	7195 LDA *PageZero,X
2D15-	BC 79 2F	7200 LDY Buff2F79,X
2D18-	9D 79 2F	7205 STA Buff2F79,X
2D1B-	94 00	7210 STY *PageZero,X
2D1D-	E8	7215 INX
2D1E-	D0 E6	7220 BNE SwPa1
2D20-	4C 45 22	7225 SwapReturn JMP Z2245
		7230 ;
2D23-	20 2E 2D	7235 Z2D23 JSR BcdToHex
2D26-	85 FF	7240 STA *PointerHi
2D28-	20 2E 2D	7245 JSR BcdToHex
2D2B-	85 FE	7250 STA *PointerLo
2D2D-	60	7255 RTS
		7260 ;
2D2E-	20 3D 2D	7265 BcdToHex JSR TestHex
2D31-	0A	7270 ASL A
2D32-	0A	7275 ASL A
2D33-	0A	7280 ASL A
2D34-	0A	7285 ASL A
2D35-	85 E0	7290 STA *ZEO
2D37-	20 3D 2D	7295 JSR TestHex
2D3A-	05 E0	7300 ORA *ZEO
2D3C-	60	7305 RTS
		7310 ;
2D3D-	20 E4 2C	7315 TestHex JSR ChargedDOS
2D40-	38	7320 SEC
2D41-	E9 30	7325 SBC #\$30
2D43-	C9 0A	7330 CMP #\$A
2D45-	90 08	7335 BCC TestHexRts
2D47-	E9 11	7340 SBC #\$11
2D49-	C9 06	7345 CMP #6
2D4B-	B0 08	7350 BCS JmpSynErr
2D4D-	69 0A	7355 ADC #\$A
2D4F-	60	7360 TestHexRts RTS
		7365 ;
2D50-	A5 00	7370 Z2D50 LDA *PageZero
2D52-	F0 A3	7375 BEQ SwapPages
2D54-	60	7380 RTS
		7385 ;
2D55-	4C C0 2A	7390 JmpSynErr JMP SyntaxErr
		7395 ;
2D58-	A9 3D	7400 TestEqual LDA #'=
2D5A-	2C A9 2C	7405 TestColon BIT \$2CA9
2D5D-	2C A9 2F	7410 TestDiv BIT \$2FA9
2D60-	85 E0	7415 STA *ZEO
2D62-	20 E4 2C	7420 JSR ChargedDOS
2D65-	C5 E0	7425 CMP *ZEO
2D67-	D0 EC	7430 BNE JmpSynErr
2D69-	60	7435 RTS
		7440 ;
2D6A-	A9 0D	7445 CrLf LDA #\$D
2D6C-	20 43 23	7450 JSR CharOut

ZD6F- A9 0A	7455	LDA #\$A
ZD71- D0 30	7460	BNE PrAcRts
	7465 ;	
ZD73- 68	7470 PrtString	PLA
ZD74- 85 E3	7475	STA *ZE3
ZD76- 68	7480	PLA
ZD77- 85 E4	7485	STA *ZE4
ZD79- A0 01	7490	LDY #1
ZD7B- B1 E3	7495 PrSt1	LDA (ZE3),Y
ZD7D- F0 06	7500	BEQ PrStrEnd
ZD7F- 20 43 23	7505	JSR CharOut
ZD82- C8	7510	INY
ZD83- D0 F6	7515	BNE PrSt1
ZD85- 98	7520 PrStrEnd	TYA
ZD86- 38	7525	SEC
ZD87- 65 E3	7530	ADC *ZE3
ZD89- 85 E3	7535	STA *ZE3
ZD8B- 90 02	7540	BCC PrStrRts
ZD8D- E6 E4	7545	INC *ZE4
ZD8F- 6C E3 00	7550 PrStrRts	JMP (ZE3)
	7555 ;	
ZD92- 48	7560 PrintAccu	PHA
ZD93- 4A	7565	LSR A
ZD94- 4A	7570	LSR A
ZD95- 4A	7575	LSR A
ZD96- 4A	7580	LSR A
ZD97- 20 9B 2D	7585	JSR PrAc1
ZD9A- 68	7590	PLA
ZD9B- 29 OF	7595 PrAc1	AND #\$F
ZD9D- C9 0A	7600	CMP #\$A
ZD9F- F8	7605	SED
ZDA0- 69 30	7610	ADC #\$30
ZDA2- D8	7615	CLD
ZDA3- 4C 43 23	7620 PrAcRts	JMP CharOut
	7625 ;	
ZDA6- A9 39	7630 FindNumber	LDA #\$39
ZDA8- 85 E5	7635	STA *ZE5
ZDAA- 20 E4 2C	7640	JSR ChargeDOS
ZDAD- CE E5 2C	7645	DEC ChargeDOS+1
ZDB0- C9 41	7650	CMP #'A'
ZDB2- 10 0A	7655	BPL FindFile
ZDB4- A2 00	7660	LDX #0
ZDB6- A9 39	7665	LDA #\$39
ZDB8- 9D 7A 2E	7670	STA Buff2E79+1,X
ZDBB- 4C 2E 2D	7675	JMP BcdToHex
	7680 ;	
ZDBE- AD E5 2C	7685 FindFile	LDA ChargeDOS+1
ZDC1- 85 E0	7690	STA *ZE0
ZDC3- A9 12	7695	LDA #\$12
ZDC5- 20 BC 26	7700	JSR Seek
ZDC8- 8C 5E 26	7705	STY NuSector
ZDCB- 4C 00 2E	7710	JMP Z2E00
	7715 ;	
ZDCE- A2 00	7720 Z2DCE	LDX #0
ZDD0- 20 E4 2C	7725 Z2DD0	JSR ChargeDOS
ZDD3- C9 0D	7730	CMP #\$D
ZDD5- D0 02	7735	BNE Z2DD9
ZDD7- A9 20	7740	LDA #\$20
ZDD9- DD 79 2E	7745 Z2DD9	CMP Buff2E79,X
ZDDC- D0 11	7750	BNE Z2DEF
ZDDE- E8	7755	INX
ZDDF- 8A	7760	TXA
ZDE0- 29 07	7765	AND #7
ZDE2- C9 06	7770	CMP #6
ZDE4- D0 EA	7775	BNE Z2DD0
ZDE6- BD 7A 2E	7780	LDA Buff2E79+1,X

2DE9- 85 E5	7785	STA *ZE5
2DEB- BD 79 2E	7790	LDA Buff2E79,X
2DEE- 60	7795	RTS
	7800 ;	
2DEF- 8A	7805 Z2DEF	TXA
2DF0- 29 F8	7810	AND #\$F8
2DF2- 18	7815	CLC
2DF3- 69 08	7820	ADC #8
2DF5- AA	7825	TAX
2DF6- F0 08	7830	BEQ Z2E00
2DF8- A5 E0	7835 Z2DF8	LDA *ZEO
2DFA- 8D E5 2C	7840	STA ChargeDOS+1
2DFD- 4C D0 2D	7845	JMP Z2DD0
2E00- EE 5E 26	7850 Z2E00	INC NuSector
2E03- AD 5E 26	7855	LDA NuSector
2E06- C9 03	7860	CMP #3
2E08- 30 05	7865	BMI Z2EOF
2E0A- A9 0C	7870 CntFndName	LDA #\$C
2E0C- 4C 4B 2A	7875	JMP GivErrOut
2E0F- A9 79	7880 Z2EOF	LDA #L,Buff2E79
2E11- 85 FE	7885	STA *PointerLo
2E13- A9 2E	7890	LDA #H,Buff2E79
2E15- 85 FF	7895	STA *PointerHi
2E17- 20 1A 2B	7900	JSR Z2B1A
2E1A- A2 00	7905	LDX #0
2E1C- F0 DA	7910	BEQ Z2DF8
	7915 ;	
2E1E- 0D 00 00	7920 InBuffDos	.BY \$D 0 0 0 0 0 0
2E21- 00 00 00		
2E24- 00		
2E25- 52 55 4E	7925	.BY 'RUN"BEXEC*' \$D
2E28- 22 42 45		
2E2B- 58 45 43		
2E2E- 2A 0D		
	7930 ;	
2E30- 41 53	7935 Z2E30	.BY 'AS'
2E32- DD 2A	7940 Z2E32	.SE LoadAss-1
2E34- 42 41	7945	.BY 'BA'
2E36- E5 2A	7950	.SE LoadBasic-1
2E38- 43 41	7955	.BY 'CA'
2E3A- 10 2B	7960	.SE Z2B11-1
2E3C- 44 39	7965	.BY 'D9'
2E3E- BF 2A	7970	.SE SyntaxErr-1
2E40- 44 49	7975	.BY 'DI'
2E42- 28 2B	7980	.SE Z2B29-1
2E44- 45 4D	7985	.BY 'EM'
2E46- 2E 2B	7990	.SE LoadExMon-1
2E48- 45 58	7995	.BY 'EX'
2E4A- 36 2B	8000	.SE Z2B37-1
2E4C- 47 4F	8005	.BY 'GO'
2E4E- 45 2B	8010	.SE Z2B46-1
2E50- 48 4F	8015	.BY 'HO'
2E52- 62 26	8020	.SE Homerout-1
2E54- 49 4E	8025	.BY 'IN'
2E56- 54 2B	8030	.SE Iniz-1
2E58- 49 4F	8035	.BY 'IO'
2E5A- 82 2B	8040	.SE Z2B83-1
2E5C- 4C 4F	8045	.BY 'LO'
2E5E- A6 2B	8050	.SE LoadFile-1
2E60- 4D 45	8055	.BY 'ME'
2E62- C5 2B	8060	.SE Z2BC6-1
2E64- 50 55	8065	.BY 'PU'
2E66- DC 2B	8070	.SE PutFile-1
2E68- 52 45	8075	.BY 'RE'
2E6A- FC 2B	8080	.SE Reenter-1
2E6C- 58 51	8085	.BY 'XQ'

2E6E- 21 2C	8090	.SE Z2C22-1
2E70- 53 41	8095	.BY 'SA'
2E72- 27 2C	8100	.SE SaveTrack-1
2E74- 53 45	8105	.BY 'SE'
2E76- 42 2C	8110	.SE Z2C43-1
	8115 ;	
2E78- 00	8120	BRK
	8125 ;	
2E79-	8130 Buff2E79	.DS 256
	8135 ;	
2F79-	8140 Buff2F79	.DS 256
	8145 ;	
3079-	8150 Buff3079	.DS 256
	8155 ;	
3179- A9 04	8160 Z3179	LDA #4
317B- 85 E0	8165	STA *ZEO
317D- 4C 54 27	8170 Z317D	JMP HeadDown
	8175 ;	
	8180	.EN

LABEL FILE: A / = EXTERNAL 0

/PageZero=0000	/ZE0=00E0	/InBufVect=00E1
/ZE3=00E3	/ZE4=00E4	/ZE5=00E5
/ZF6=00F6	/ZF7=00F7	/ZF8=00F8
/ZF9=00F9	/ZFA=00FA	/ZFB=00FB
/ZFC=00FC	/TempSecLen=00FD	/PointerLo=00FE
/PointerHi=00FF	/PageOne=0100	/TempInpRou=0213
/Assembler=1300	/ExMon=1700	/Basic=20E4
/FilePointr=3279	/FileLenght=327D	/Z327E=327E
/Z3A7E=3A7E	/Z3D7E=3D7E	/Z427E=427E
/MemoryFile=8000	/DosPort=C000	/DosAcia=C010
/PortCh8=CF00	/ScreenRaw=D000	/LstScrPage=D700
/ZDE00=DE00	/Keyboard=DF00	/Acia.Board=F000
/ZF022=F022	/P.Port=F400	/ZFB05=FB05
/ZFB06=FB06	/BootROUT=FC00	/InKey=FD00
/ZFE01=FE01	/ZFEFC=FEFC	/MaxRam=7FFF
KernelSt=2200	Z2245=2245	Z2251=2251
ClearScreen=225E	CLSc1=2268	RamTest=2276
RaTe1=2278	RaTe2=2280	TestOutChn=2283
TeOutCh1=228B	UpDatVideo=22A4	PrtMessg=22B3
TabVidRout=22C7	TestRamByt=22EC	HiMem=2300
TabChann=2301	InpFlag=2321	OutFlag=2322
Z2323=2323	Z2324=2324	Z2325=2325
DiBuffSt6=2326	DiBuffEnd6=2328	Z232B=232B
Z232C=232C	DirtFLCh6=232D	DiBuffSt7=232E
DiBuffEnd7=2330	DirtFLCh7=2335	Z2336=2336
Z2339=2339	Z2340=2340	CharOut=2343
Z2346=2346	Z234B=234B	Z234D=234D
Z235A=235A	TmpOut.X=235E	TmpOut.Y=2360
TmpOutAcc=2362	TmpRegOut=2367	Z2371=2371
Z2377=2377	DummyChann=2386	InpChann5=2389
OutChann5=2390	OuCh5.1=2395	OuCh5.2=23A0
InpChann6=23A1	InCh6.1=23AB	OutChann6=23B2
OuCh6.1=23C1	OuCh6.2=23C2	OuCh6.3=23CC
OuCh6.4=23D6	InpChann7=23F0	InCh7.1=23FC
OutChann7=2403	Z2414=2414	Z2415=2415
Z2420=2420	Z242A=242A	Z2442=2442
Z2453=2453	Z2466=2466	Z2468=2468
Z2476=2476	Z2477=2477	Z2491=2491
Z2497=2497	Z249F=249F	InpChann8=24B0
OutChann8=24BD	OuCh8.1=24BE	OutChann1=24CD
OuCh1.1=24CE	OuCh1.2=24EA	OuCh1.3=24F1
OuCh1.4=24F2	InpChann1=24F6	Z2508=2508

Swap5Byte=250D	Swap1=250F	TempSwap=2520
Z2525=2525	Z2526=2526	InpChann2=252B
Z253D=253D	Z2543=2543	TestForMem=254D
Z2562=2562	Z2579=2579	Z258A=258A
Z2593=2593	Z2596=2596	Z2598=2598
OutChann2=2599	Z25A3=25A3	Z25CB=25CB
Z25D9=25D9	Z25ED=25ED	Z25F4=25F4
Z25F9=25F9	Z2606=2606	Z2613=2613
Z261A=261A	Z2621=2621	Z2629=2629
Z262D=262D	Z2631=2631	Z2638=2638
Z2640=2640	Z2647=2647	Z264A=264A
Z2656=2656	OldChar=265B	DriveFlag=265C
NuTrack=265D	NuSector=265E	LightSector=265F
PointerLoX=2660	PointerHiX=2661	TrackX=2662
Homerout=2663	HoRoi=266C	MainDelay=2678
Delay=267A	Del=267C	DelayRts=2682
DoStepIn=2683	DoStepOut=268A	DoStep=268F
Z269D=269D	Z26AC=26AC	Seek=26BC
Z26C8=26C8	Z26CD=26CD	Z26D1=26D1
Z26DE=26DE	Z26E1=26E1	Z26F8=26F8
Z2705=2705	Z2717=2717	Z2719=2719
WaitIndex=271D	WaIn1=2722	DwnIndAcia=2728
WtInSeAcia=272B	ReadSector=2739	ReadSel=273C
HeadDown=2754	HeDo1=2759	HeadUp=2761
HeUp1=2763	InizAll=2768	Z276F=276F
TstT0.Prot=277D	TestProtct=2788	TestErr=2791
WrHeader=2794	WrHe1=27B9	PutByte=27C2
GetByte=27CD	PutGetRts=27D6	TstBadSec=27E1
GivBS.Err=27E8	Z27EA=27EA	Z27EC=27EC
Z2805=2805	Z2809=2809	Z281D=281D
Z2840=2840	Z2870=2870	Z2878=2878
Z289B=289B	Z289F=289F	Z28A4=28A4
Z28A5=28A5	Z28A7=28A7	Z28AF=28AF
Z28B0=28B0	Z28B3=28B3	GivErr9=28BF
JmpError=28C1	Find=28C4	Fnd1=28C7
Fnd2=28CA	SeekError=28DD	Fnd3=28E1
JsrDumRead=28ED	FindRts=28FD	NoSecError=2901
Z2905=2905	Z2909=2909	Z2919=2919
Z291B=291B	Z2927=2927	Z2943=2943
LoTrNuSeNu=2967	Z296B=296B	Z296F=296F
Z2977=2977	Z297A=297A	CntReadSec=2993
DummyRead=2998	DumRe1=29B9	ClearCarry=29C4
Select=29C6	Z29DA=29DA	Z29E9=29E9
Z29EA=29EA	PrtSectors=29F3	Z2A1B=2A1B
Z2A2A=2A2A	Z2A37=2A37	Z2A41=2A41
GivErrOut=2A4B	Z2A4E=2A4E	GoIntoDOS=2A51
Z2A7D=2A7D	Z2A84=2A84	Z2A89=2A89
Z2AA4=2AA4	Z2AAF=2AAF	Z2AB9=2AB9
Z2ABA=2ABA	SyntaxErr=2AC0	Error=2AC4
Reset.IO=2AC5	LoadAss=2ADE	LoadBasic=2AE6
Ld4TrAt200=2AEE	Z2B04=2B04	Z2B11=2B11
Z2B1A=2B1A	Z2B1D=2B1D	Z2B20=2B20
Z2B29=2B29	LoadExMon=2B2F	Z2B37=2B37
Z2B46=2B46	Z2B52=2B52	Iniz=2B55
Z2B68=2B68	Z2B83=2B83	Z2BA0=2BA0
Z2BA6=2BA6	LoadFile=2BA7	Z2BB1=2BB1
Z2BB4=2BB4	Z2BC6=2BC6	Z2BD0=2BD0
PutFile=2BDD	Z2BED=2BED	Z2BFA=2BFA
Reenter=2BFD	Z2C07=2C07	Z2C0E=2C0E
Z2C15=2C15	Z2C1F=2C1F	Z2C22=2C22
SaveTrack=2C28	Z2C43=2C43	Z2C58=2C58
Z2C5B=2C5B	Z2C5D=2C5D	Z2C60=2C60
Z2C70=2C70	Z2C83=2C83	Z2C8D=2C8D
Z2C91=2C91	GivErrD=2C94	Z2C98=2C98
Z2C9B=2C9B	Z2CA2=2CA2	Z2CBC=2CBC
Z2CC0=2CC0	Z2CD0=2CD0	Z2CD6=2CD6

Z2CD9=2CD9	ChagetDOS=2CE4	ChGeBufLen=2CEC
ChGetRts=2CF3	BuffFull=2CF4	SwapPages=2CF7
SwPn1=2D06	SwapReturn=2D20	Z2D23=2D23
BcdToHex=2D2E	TestHex=2D3D	TestHexRts=2D4F
Z2D50=2D50	JmpSynErr=2D55	TestEqual=2D58
TestColon=2D5A	TestDiv=2D5D	Crlf=2D6A
PrtString=2D73	PrSt1=2D7B	PrtStrEnd=2D85
PrtStrRts=2D8F	PrintAccu=2D92	PrAc1=2D9B
PrAcRts=2DA3	FindNumber=2DA6	FindFile=2DBE
Z2DCE=2DCE	Z2DD0=2DD0	Z2DD9=2DD9
Z2DEF=2DEF	Z2DF8=2DF8	Z2E00=2E00
CntFndName=2E0A	Z2EOF=2EOF	InBuffDos=2E1E
Z2E30=2E30	Z2E32=2E32	Buff2E79=2E79
Buff2F79=2F79	Buff3079=3079	Z3179=3179
Z317D=317D		
//0000,3180,3180		