

Autor: THE SIR

MINI-SCAN

kommentiert 22.07.93

```
..,1000 4C D7 10 JMP $10D7 START
..,1003 4C F3 11 JMP $11F3
..,1006 A9 01 LDA #$01
..,1008 8D 19 D0 STA $D019
..,100B 4C 34 EA JMP $EA34 STOP-Taste nicht abgedrückt
..,100E A2 00 LDX #$00
..,1010 A9 01 LDA #$01
..,1012 9D 00 D8 STA $D800,X
..,1015 9D 00 D9 STA $D900,X
..,1018 9D 00 DA STA $DA00,X
..,101B 9D 00 DB STA $DB00,X
..,101E EB INX
..,101F D0 F1 BNE $1012
..,1021 60 RTS
..,1022 78 SEI
..,1023 A9 06 LDA #$06
..,1025 BD 14 03 STA $0314
..,1028 A9 10 LDA #$10
..,102A 8D 15 03 STA $0315
..,102D A9 01 LDA #$01
..,102F 8D 1A D0 STA $D01A
..,1032 A9 00 LDA #$00
..,1034 8D 0E DC STA $DC0E
..,1037 AD 11 D0 LDA $D011
..,103A 8D 11 D0 STA $D011
..,103D A9 7F LDA #$7F
..,103F 8D 0D DC STA $DC0D
..,1042 A9 01 LDA #$01
..,1044 8D 19 D0 STA $D019
..,1047 A9 00 LDA #$00
..,1049 8D 41 03 STA $0341
..,104C 8D 42 03 STA $0342
..,104F 58 CLI
..,1050 60 RTS
..,1051 A5 04 LDA $04
..,1053 C9 12 CMP #$12
..,1055 90 0B BCC $1062
..,1057 C9 19 CMP #$19
..,1059 90 0A BCC $1065
..,105B C9 1F CMP #$1F
..,105D 90 09 BCC $1068
..,105F A2 11 LDX #$11
..,1061 60 RTS
..,1062 A2 15 LDX #$15
..,1064 60 RTS
..,1065 A2 13 LDX #$13
..,1067 60 RTS
..,1068 A2 12 LDX #$12
..,106A 60 RTS
..,106B 78 SEI
..,106C A9 EA LDA #$EA
..,106E 8D 15 03 STA $0315
..,1071 A9 31 LDA #$31
..,1073 8D 14 03 STA $0314
..,1076 A9 00 LDA #$00
..,1078 8D 0D DC STA $DC0D
..,107B 8D 1A D0 STA $D01A
..,107E 8D 20 D0 STA $D020
..,1081 58 CLI
..,1082 60 RTS
..,1083 A9 01 LDA #$01
```

Farb-RAM weiß

von 1007 IRQ auf 1006

von 11FE

von 11CD

IRQ setzen

normaler IRQ

```
..,1085 A2 D5 LDX #$D5
..,1087 A0 10 LDY #$10
..,1089 20 BD FF JSR $FFBD
..,108C A9 08 LDA #$08
..,108E 85 BA STA $BA
..,1090 A9 60 LDA #$60
..,1092 85 B9 STA $B9
..,1094 20 D5 F3 JSR $F3D5
..,1097 A5 BA LDA $BA
..,1099 20 B4 FF JSR $FFB4
..,109C A5 B9 LDA $B9
..,109E 20 96 FE JSR $FF96
..,10A1 A9 00 LDA #$00
..,10A3 85 90 STA $90
..,10A5 A0 03 LDY #$03
..,10A7 84 BB STY $BB
..,10A9 20 AD 13 JSR $13AD
..,10AC 85 BC STA $BC
..,10AE 20 AD 13 JSR $13AD
..,10B1 A4 BB LDY $BB
..,10B3 88 DEY
..,10B4 D0 F1 BNE $10A7
..,10B6 A6 BC LDX $BC
..,10B8 20 CD BD JSR $BDCD
..,10BB A9 20 LDA #$20
..,10BD 20 D2 FF JSR $FFD2
..,10C0 20 AD 13 JSR $13AD
..,10C3 AA TAX
..,10C4 F0 06 BEQ $10CC
..,10C6 20 D2 FF JSR $FFD2
..,10C9 4C C0 10 JMP $10C0
..,10CC A9 0D LDA #$0D
..,10CE 20 D2 FF JSR $FFD2
..,10D1 A0 02 LDY #$02
..,10D3 D0 D2 BNE $10A7
..,10D5 24 00 BIT $00
..,10D7 20 22 10 JSR $1022
..,10DA A9 13 LDA #$13
..,10DC 20 18 D0 STA $D018
..,10DF A9 93 LDA #$93
..,10E1 20 D2 FF JSR $FFD2
..,10E4 A9 00 LDA #$00
..,10E6 8D 20 D0 STA $D020
..,10E9 8D 21 D0 STA $D021
..,10EC 20 0E 10 JSR $100E
..,10EF 20 25 12 JSR $1225
..,10F2 20 73 13 JSR $1373
..,10F5 04 ???
..,10F6 00 BRK
..,10F7 1D 1D 1D ORA $1D1D,X
..,10FA 1D 1D 1D ORA $1D1D,X
..,10FD 05 4D ORA $4D
..,10FF 49 4E EOR #$4E
..,1101 49 2D EOR #$2D
..,1103 53 ???
..,1104 43 ???
..,1105 41 4E EOR ($4E,X)
..,1107 20 42 59 JSR $5942
..,110A 20 54 48 JSR $4854
..,110D 45 20 EOR $20
..,110F 53 ???
```

IRQ einrichten
neuer Zeichenschalt
ab 80800 einrichten
Bildschirm
löschen
BS schwarz
Farb-RAM weiß
Bildschirmwache
PRIMM
Mini-
MINI-SCAN
BY THE SIR
IN 1992
F1: ERROR SCAN
F3: DENSITY SCAN
F5: DISPLAY DIRECT
F7: LEAVE MINI-SCAN

MINI-SCAN

```

.,1110 49 52 00 EOR #52 00 00 0001
.,1112 20 49 4E JSR #4E4901 0A 0001
.,1115 20 31 39 JSR #393100 0A 0001
.,1118 39 32 0D AND #0D32,Y 0A 0001
.,111B 11 11 A0 ORAT ($11),Y 0A 0001
.,111D 1D 1D 1D ORA #1D1D,X 0A 0001
.,1120 1D 1D 1D ORA #1D1D,X 0A 0001
.,1123 1D 1D 1D ORA #1D1D,X 0A 0001
.,1126 1D 1D 1D ORA #1D1D,X 0A 0001
.,1129 46 31 11 LSR #31 0A 0001
.,112B 20 3A 20 JSR #203A 0A 0001
.,112E 45 52 A9 EOR #52 0A 0001
.,1130 52 00 00 00 00 00 0001
.,1131 4F 00 00 00 00 00 0001
.,1132 52 00 00 00 00 00 0001
.,1133 20 53 43 JSR #4353 0A 0001
.,1136 41 4E 0A EOR #4E,X 0A 0001
.,1138 0D 11 1D ORA #1D11 0A 0001
.,113B 1D 1D 1D ORA #1D1D,X 0A 0001
.,113E 1D 1D 1D ORA #1D1D,X 0A 0001
.,1141 1D 1D 1D ORA #1D1D,X 0A 0001
.,1144 1D 46 33 ORA #3346,X 0A 0001
.,1147 20 3A 20 JSR #203A 0A 0001
.,114A 44 00 00 00 00 00 0001
.,114B 45 4E 0A EOR #4E 0A 0001
.,114D 53 00 00 00 00 00 0001
.,114E 49 54 0A EOR #54 0A 0001
.,1150 59 20 53 EOR #5320,Y 0A 0001
.,1153 43 00 00 00 00 00 0001
.,1154 41 4E 0A EOR #4E,X 0A 0001
.,1156 0D 11 1D ORA #1D11 0A 0001
.,1159 1D 1D 1D ORA #1D1D,X 0A 0001
.,115C 1D 1D 1D ORA #1D1D,X 0A 0001
.,115F 1D 1D 46 ORA #461D,X 0A 0001
.,1162 35 20 0A AND #20,X 0A 0001
.,1164 3A 00 00 00 00 00 0001
.,1165 20 44 49 JSR #4944 0A 0001
.,1168 53 00 00 00 00 00 0001
.,1169 50 4C 81 BVC #11B7 0A 0001
.,116B 41 59 0A EOR #59,X 0A 0001
.,116D 20 44 49 JSR #4944 0A 0001
.,1170 52 00 00 00 00 00 0001
.,1171 45 43 0A EOR #4300 0A 0001
.,1173 54 00 00 00 00 00 0001
.,1174 4F 00 00 00 00 00 0001
.,1175 52 00 00 00 00 00 0001
.,1176 59 0D 11 EOR #110D,Y 0A 0001
.,1179 1D 1D 1D ORA #1D1D,X 0A 0001
.,117C 1D 1D 1D ORA #1D1D,X 0A 0001
.,117F 1D 1D 1D ORA #1D1D,X 0A 0001
.,1182 1D 46 37 ORA #3746,X 0A 0001
.,1185 20 3A 20 JSR #203A 0A 0001
.,1188 4C 45 41 JMP #4145 0A 0001
.,118B 56 45 0A LSR #45,X 0A 0001
.,118D 20 4D 49 JSR #494D 0A 0001
.,1190 4E 49 2D LSR #2D49 0A 0001
.,1193 53 00 00 00 00 00 0001
.,1194 43 00 00 00 00 00 0001
.,1195 41 4E 0A EOR #4E,X 0A 0001
.,1197 00 00 00 00 00 00 0001
.,1198 20 E4 FF JSR #FFE4 GET 0A 0001
.,119B F0 FB BEQ #1198 nichts gedruckt

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.,119D C9 87 CMP #87
.,119F D0 09 BNE #11AA
.,11A1 20 44 E5 JSR #E544 ES löschen
.,11A4 20 B3 10 JSR #10B3
.,11A7 4C 18 12 JMP #1218
.,11AA C9 88 CMP #88 ← F7 201
.,11AC D0 03 BNE #11B1 neu
.,11AE 4C E2 FC JMP #FCE2 RESET
.,11B1 EA X,0080 NOP
.,11B2 EA X,0090 NOP
.,11B3 EA X,00A0 NOP
.,11B4 EA X,00B0 NOP
.,11B5 EA X,00C0 NOP
.,11B6 EA X,00D0 NOP
.,11B7 EA X,00E0 NOP
.,11B8 EA X,00F0 NOP
.,11B9 EA X,0100 NOP
.,11BA EA X,0110 NOP
.,11BD C9 85 CMP #85 F1
.,11BD F0 0E BEQ #11CD
.,11BF C9 86 CMP #86
.,11C1 D0 F3 BNE #11B6
.,11C3 20 6B 10 JSR #106B F3
.,11C6 A9 01 LDA #01 Flag für Dirty Scan
.,11CB 85 FB STA #FB
.,11CA 4C D4 11 JMP #11D4
.,11CD 20 6B 10 JSR #106B ERROR
.,11D0 A9 00 LDA #00 Flag für IRQ SCAN
.,11D2 85 FB STA #FB Error Scan
.,11D4 A9 93 LDA #93
.,11D6 20 D2 FF JSR #FFD2 ES löschen
.,11D9 20 0E 10 JSR #100E Sub-RAM weiß
.,11DC 20 25 12 JSR #1225 Bildschirmausgabe
.,11DF A9 01 LDA #01
.,11E1 85 04 STA #04
.,11E3 A5 FB LDA #FB
.,11E5 D0 06 BNE #11ED
.,11E7 20 00 18 JSR #1800
.,11EA 4C 18 12 JMP #1218 Taste Menu
.,11ED 20 03 18 JSR #1803
.,11F0 4C 18 12 JMP #1218 auf Taste
.,11F3 A2 03 LDX #03 von Wartem +
.,11F5 A4 04 LDY #04 Zeile 102 Menu
.,11F7 18 CLC
.,11F8 20 F0 FF JSR #FFF0 Cursor setzen
.,11FB 20 51 10 JSR #1051
.,11FE 86 F9 STX #F9 ablegen
.,1200 A0 00 LDY #00
.,1202 B9 00 C0 LDA #C000, 4. Tabelle laden
.,1205 20 D2 FF JSR #FFD2 ausgeben
.,1208 A9 9D LDA #9D CSR RIGHT LEFT
.,120A 20 D2 FF JSR #FFD2 ausgeben
.,120D A9 11 LDA #11 CSR DOWN
.,120F 20 D2 FF JSR #FFD2 ausgeben
.,1212 C8 BITN ATB 00
.,1213 C4 F9 COPY #F9
.,1215 D0 EB BNE #1202 Loop
.,1217 60 AIRTS ATB 00
.,1218 20 22 10 JSR #1022 neu IRQ
.,121B 20 E4 FF JSR #FFE4 GET
.,121E F0 FB BEQ #121B

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MINI-SCAN

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.,1220 EA NOP
.,1221 EA NOP
.,1222 4C 00 10 JMP $1000 Menu von 10EF
.,1225 20 73 13 JSR $1373 PRIM
.,1228 00 07 BRK koordinat
.,1229 01 05 DRA ($05,X) weiss
.,122B A0 A0 LDY #$A0
.,122D A0 A0 LDY #$A0
.,122F A0 A0 LDY #$A0
.,1231 A0 A0 LDY #$A0
.,1233 A0 B1 LDY #$B1
.,1235 A0 A0 LDY #$A0
.,1237 A0 A0 LDY #$A0
.,1239 A0 A0 LDY #$A0
.,123B A0 A0 LDY #$A0
.,123D A0 B2 LDY #$B2
.,123F A0 A0 LDY #$A0
.,1241 A0 A0 LDY #$A0
.,1243 A0 A0 LDY #$A0
.,1245 A0 A0 LDY #$A0
.,1247 A0 B3 LDY #$B3
.,1249 00 BRK Null!
.,124A 20 73 13 JSR $1373 PRIM
.,124D 01 01 DRA ($01,X)
.,124F 0B 00 PHP coord.
.,1250 B1 B2 LDA ($B2),Y
.,1252 B3 ???
.,1253 B4 B5 LDY $B5,X
.,1255 B6 B7 LDX $B7,Y
.,1257 B8 CLV
.,1258 B9 08 B0 LDA $B008,Y
.,125B 08 PHP
.,125C B1 B2 LDA ($B2),Y
.,125E B3 ???
.,125F B4 B5 LDY $B5,X
.,1261 B6 B7 LDX $B7,Y
.,1263 B8 CLV
.,1264 B9 08 B0 LDA $B008,Y
.,1267 08 PHP
.,1268 B1 B2 LDA ($B2),Y
.,126A B3 ???
.,126B B4 B5 LDY $B5,X
.,126D B6 B7 LDX $B7,Y
.,126F B8 CLV
.,1270 B9 08 B0 LDA $B008,Y
.,1273 08 PHP
.,1274 B1 B2 LDA ($B2),Y
.,1276 B3 ???
.,1277 B4 B5 LDY $B5,X
.,1279 B6 B7 LDX $B7,Y
.,127B B8 CLV
.,127C 05 00 DRA $00
.,127E A2 02 LDX #$02 y=20
.,1280 A0 00 LDY #$00 x=0 zweite Zeile
.,1282 18 CLC
.,1283 20 F0 FF JSR $FFFF0 Answer setzen
.,1286 A9 B0 LDA #$B0 "0"
.,1288 20 D2 FF JSR $FFD2
.,128B A2 26 LDX #$26
.,128D A9 60 LDA #$60 Zeit verschlekt
.,128F 20 D2 FF JSR $FFD2 ausgeben
.,1292 CA DEX

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.,1293 D0 F8 BNE $128D loop
.,1295 A9 AE LDA #$AE
.,1297 20 D2 FF JSR $FFD2 ausgeben
.,129A A2 17 LDX #$17 y=17
.,129C A0 12 LDY #$12 x=12
.,129E 18 CLC
.,129F 20 F0 FF JSR $FFFF0 Answer setzen
.,12A2 A2 00 LDX #$00
.,12A4 BD 51 13 LDA $1351,X
.,12A7 C9 00 CMP #$00 unnotig
.,12A9 F0 06 BEQ $12B1
.,12AB 20 D2 FF JSR $FFD2 ausgeben
.,12AE E8 INX
.,12AF D0 F3 BNE $12A4
.,12B1 A2 11 LDX #$11 17x
.,12B3 A9 7D LDA #$7D 11
.,12B5 20 D2 FF JSR $FFD2 ausgeben
.,12B8 A9 9D LDA #$9D rechts
.,12BA 20 D2 FF JSR $FFD2
.,12BD A9 91 LDA #$91
.,12BF 20 D2 FF JSR $FFD2
.,12C2 CA DEX
.,12C3 D0 EE BNE $12B3 loop
.,12C5 A2 03 LDX #$03 y=3
.,12C7 A0 00 LDY #$00 x=0
.,12C9 18 CLC
.,12CA 20 F0 FF JSR $FFFF0 Answer setzen
.,12CD A2 00 LDX #$00
.,12CF BD 13 13 LDA $1313,X ablesen
.,12D2 C9 00 CMP #$00 unnotig
.,12D4 F0 06 BEQ $12DC Null-Eagle
.,12D6 20 D2 FF JSR $FFD2 ausgeben
.,12D9 E8 INX
.,12DA D0 F3 BNE $12CF loop
.,12DC A9 9D LDA #$9D CSR RIGHT
.,12DE 20 D2 FF JSR $FFD2 ausgeben
.,12E1 A9 11 LDA #$11 CSR DOWN
.,12E3 20 D2 FF JSR $FFD2 ausgeben
.,12E6 A9 AD LDA #$AD
.,12E8 20 D2 FF JSR $FFD2 ausgeben
.,12EB A2 11 LDX #$11 17x
.,12ED A9 60 LDA #$60 11
.,12EF 20 D2 FF JSR $FFD2 ausgeben
.,12F2 CA DEX
.,12F3 D0 F8 BNE $12ED loop
.,12F5 A9 BD LDA #$BD "="
.,12F7 20 D2 FF JSR $FFD2 ausgeben
.,12FA 20 73 13 JSR $1373 PRIM
.,12FD 17 00 00 00 17x
.,12FE 16 20 ASL $20,X
.,1300 20 20 20 JSR $2020
.,1303 20 20 20 JSR $2020
.,1306 20 20 20 JSR $2020 8x Space
.,1309 20 20 20 JSR $2020
.,130C 20 20 20 JSR $2020
.,130F 20 20 00 JSR $0020
.,1312 60 RTS Ende
.,1313 7D 11 9D ADC $9D11,X
.,1316 7D 11 9D ADC $9D11,X
.,1319 7D 11 9D ADC $9D11,X
.,131C 7D 11 9D ADC $9D11,X BS-Markie

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MINI-SCAN

.,131F 7D 11 9D ADD #9D11,X
.,1322 7D 11 9D ADD #9D11,X
.,1325 7D 11 9D ADD #9D11,X
.,1328 7D 11 9D ADD #9D11,X
.,132B 7D 11 9D ADD #9D11,X
.,132E 7D 11 9D ADD #9D11,X
.,1331 7D 11 9D ADD #9D11,X
.,1334 7D 11 9D ADD #9D11,X
.,1337 7D 11 9D ADD #9D11,X
.,133A 7D 11 9D ADD #9D11,X
.,133D 7D 11 9D ADD #9D11,X
.,1340 7D 11 9D ADD #9D11,X
.,1343 7D 11 9D ADD #9D11,X
.,1346 7D 11 9D ADD #9D11,X
.,1349 7D 11 9D ADD #9D11,X
.,134C 7D 11 9D ADD #9D11,X
.,134F 7D 00 7D ADD #7D00,X
.,1352 9D 91 B0 STA #B091,X
.,1355 60 RTS
.,1356 60 RTS
.,1357 60 RTS
.,1358 60 RTS
.,1359 60 RTS
.,135A 60 RTS
.,135B BD 9D 91 LDA #919D,X
.,135E B0 60 BCS #13C0
.,1360 60 RTS
.,1361 60 RTS
.,1362 60 RTS
.,1363 60 RTS
.,1364 BD 9D 91 LDA #919D,X
.,1367 B0 60 BCS #13C9
.,1369 60 RTS
.,136A 60 RTS
.,136B 60 RTS
.,136C 60 RTS
.,136D 60 RTS
.,136E 60 RTS
.,136F BD 9D 91 LDA #919D,X
.,1372 00 BRK
.,1373 68 11 PLAXD
.,1374 85 B0 STA #B0
.,1376 68 PLAR
.,1377 85 B1 STA #B1
.,1379 A0 01 LDY #01
.,137B B1 B0 LDA (#B0),Y
.,137D AA TAX
.,137E CB INY
.,137F B1 B0 LDA (#B0),Y
.,1381 A8 X,TAY
.,1382 18 CLC
.,1383 20 F0 FF JSR #FF0
.,1386 A0 03 LDY #03
.,1388 B1 B0 LDA (#B0),Y
.,138A F0 06 BEQ #1392
.,138C 20 A4 13 JSR #13A4
.,138F CB INY
.,1390 D0 F6 BNE #1388
.,1392 CB X,INY
.,1393 8C 9A 13 STY #139A
.,1396 18 X,CLC
.,1397 A5 B0 LDA #B0

Handwritten notes:
- *Bedienung* (near lines 131F-134F)
- *mask* (near line 1352)
- *Bildschirm* (near line 135B)
- *von 125* (near line 1372)
- *Adressen* (near line 1374)
- *nach \$B0/B1* (near line 1377)
- *Byte holen* (near line 137B)
- *weiterzahlen* (near line 137E)
- *Y Byte holen* (near line 137F)
- *ausgeben* (near line 138C)
- *100 PIR* (near line 1390)

.,1399 69 A4 ADD #A4
.,139B 85 B0 STA #B0
.,139D 90 020001 BCC #13A1
.,139F E6 B1 INC #B1
.,13A1 6C B0 00 JMP #100B0
.,13A4 C9 A0 00 CMP #A0
.,13A6 90 02 0A BCC #13AA
.,13AB E9 B0 0A SBC #B0
.,13AA 4C D2 FF JMP #FFD200
.,13AD 20 A5 FF JSR #FFA5
.,13B0 48 11 PHA
.,13B1 A5 90 0A LDA #90
.,13B3 F0 05 0A BEQ #13BA
.,13B5 20 42 F6 JSR #F642
.,13B8 68 0A PLA
.,13B9 68 0A PLA
.,13BA 68 0A PLA
.,13BB 60 0A RTS
.,13BC 00 0A BRK
.,13BD 00 0A BRK
.,13BE 00 0A BRK
.,13BF 00 0A BRK
.,13C0 00 0A BRK
.,13C1 00 0A BRK
.,13C2 00 0A BRK
.,13C3 00 0A BRK
.,13C4 00 0A BRK
.,13C5 00 0A BRK
.,13C6 00 0A BRK
.,13C7 00 0A BRK
.,13C8 00 0A BRK
.,13C9 00 0A BRK
.,13CA 00 0A BRK
.,13CB 00 0A BRK
.,13CC 00 0A BRK
.,13CD 00 0A BRK
.,13CE 00 0A BRK
.,13CF 00 0A BRK
.,13D0 00 0A BRK
.,13D1 00 0A BRK
.,13D2 00 0A BRK
.,13D3 00 0A BRK
.,13D4 00 0A BRK
.,13D5 00 0A BRK
.,13D6 00 0A BRK
.,13D7 00 0A BRK
.,13D8 00 0A BRK
.,13D9 00 0A BRK
.,13DA 00 0A BRK
.,13DB 00 0A BRK
.,13DC 00 0A BRK
.,13DD 00 0A BRK
.,13DE 00 0A BRK
.,13DF 00 0A BRK
.,13E0 00 0A BRK
.,13E1 00 0A BRK
.,13E2 00 0A BRK
.,13E3 00 0A BRK
.,13E4 00 0A BRK
.,13E5 00 0A BRK
.,13E6 00 0A BRK

Handwritten notes:
- *zurück* (near line 13A1)
- *kleiner \$A0* (near line 13A6)
- *sonst - 80* (near line 13AB)
- *ausgeben* (near line 13AD)
- *PHA* (near line 13B0)
- *BRK* (multiple instances near lines 13BC-13E6)

MINI-SCAN

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.,13E7 00 00 00 BRK 00 00 00 00 00 00 00 00
.,13E8 00 00 00 BRK 00 00 00 00 00 00 00 00
.,13E9 00 00 00 BRK 00 00 00 00 00 00 00 00
.,13EA 00 00 00 BRK 00 00 00 00 00 00 00 00
.,13EB 00 00 00 BRK 00 00 00 00 00 00 00 00
.,13EC 00 00 00 BRK 00 00 00 00 00 00 00 00
.,13ED 00 00 00 BRK 00 00 00 00 00 00 00 00
.,13EE 00 00 00 BRK 00 00 00 00 00 00 00 00
.,13EF 00 00 00 BRK 00 00 00 00 00 00 00 00
.,13F0 00 00 00 BRK 00 00 00 00 00 00 00 00
.,13F1 00 00 00 BRK 00 00 00 00 00 00 00 00
.,13F2 00 00 00 BRK 00 00 00 00 00 00 00 00
.,13F3 00 BRK
.,13F4 00 BRK
.,13F5 00 BRK
.,13F6 00 BRK
.,13F7 00 BRK
.,13F8 00 BRK
.,13F9 00 BRK
.,13FA 00 BRK
.,13FB 00 BRK
.,13FC 00 BRK
.,13FD 00 BRK
.,13FE 00 BRK
.,13FF 00 BRK
.,1400 A2 00 LDX #$00
.,1402 A0 0B LDY #$0B
.,1404 B6 FB STX $FB
.,1406 B4 FC STY $FC
.,1408 A2 04 LDX #$04
.,140A A0 00 LDY #$00
.,140C B1 FB LDA ($FB),Y
.,140E 49 FF EOR #$FF
.,1410 48 PHA
.,1411 A5 FC LDA $FC
.,1413 49 04 EOR #$04
.,1415 85 FC STA $FC
.,1417 68 PLA
.,1418 91 FB STA ($FB),Y
.,141A A5 FC LDA $FC
.,141C 49 04 EOR #$04
.,141E 85 FC STA $FC
.,1420 C8 INY
.,1421 D0 E9 BNE $140C
.,1423 E6 FC INC $FC
.,1425 CA DEX
.,1426 D0 E4 BNE $140C
.,1428 4C 00 10 JMP $1000
.,142B 00 BRK

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.,1028 a9 10 8d 15 03 a9 01 8d %pMuc%aM
.,1030 1a d0 a9 00 8d 0e dc ad zF%QmN%
.,1038 11 d0 8d 11 d0 a9 7f 8d qPMqP%M
.,1040 0d dc a9 01 8d 19 d0 a9 m%aMyP%
.,1048 00 8d 41 03 8d 42 03 58 %MacMbcx
.,1050 60 a5 04 c9 12 90 0b c9 -dIrPkI
.,1058 19 90 0a c9 1f 90 09 a2 yPjI+Pi
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.,1090 a9 60 85 b9 20 d5 f3 a5 %-E- UH
.,1098 ba 20 b4 ff a5 b9 20 96 v 1X - V
.,10a0 ff a9 00 85 90 a0 03 84 %SEP cD
.,10a8 bb 20 ad 13 85 bc 20 ad %E-
.,10b0 13 a4 bb 88 d0 f1 a6 bc s-HP-%
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.,10f8 1d 1d 1d 1d 1d 05 4d 49 ]]]]]lemi
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.,1150 59 20 53 43 41 4e 0d 11 y scan%
.,1158 1d 1d 1d 1d 1d 1d 1d 1d ]]]]]]]]]
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.,1178 11 1d 1d 1d 1d 1d 1d 1d %]]]]]]]]]]
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.,11a8 18 12 c9 88 d0 03 4c e2 xrIHPclm
.,11b0 fc ea ea ea ea ea ea ea %]]]]]]]]]]
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.,11c8 85 fb 4c d4 11 20 6b 10 E+1Tq Kp
.,11d0 a9 00 85 fb a9 93 20 d2 %E- %S P
.,11d8 ff 20 0e 10 20 25 12 a9 % np %r%

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6

1800	4C	06	18	JMP	\$1806	Error Secare
1803	4C	80	18	JMP	\$1880	Density Scan
1806	20	00	1C	JSR	\$1C00	übertragungsroutine
1809	A9	00		LDA	#\$00	senden
180B	85	FB		STA	#\$FB	
180D	A9	19		LDA	##19	\$1900, Position
180F	85	FC		STA	#\$FC	der Floppy-Routine
1811	A9	03		LDA	##03	3 Blöcke
1813	85	04		STA	#\$04	
1815	A0	00		LDY	#\$00	
1817	B1	FB		LDA	(\$FB), Y	holen
1819	20	00	1D	JSR	\$1D00	senden
181C	C8			INY		
181D	D0	FB		BNE	\$1817	LOOP
181F	E6	FC		INC	#\$FC	Highbyte erhöhen
1821	C6	04		DEC	#\$04	Blöckeanzahl erniedern
1823	D0	F0		BNE	\$1815	LOOP
1825	A9	01		LDA	##01	
1827	85	04		STA	#\$04	
1829	A9	00		LDA	#\$00	
182B	85	FB		STA	#\$FB	\$C000 Position
182D	A9	C0		LDA	##C0	der Tabelle
182F	85	FC		STA	#\$FC	
1831	A5	04		LDA	#\$04	
1833	20	55	18	JSR	\$1855	
1836	20	3D	1D	JSR	\$1D3D	Byte holen
1839	A0	00		LDY	#\$00	
183B	91	FB		STA	(\$FB), Y	ablegen
183D	E6	FB		INC	#\$FB	Highbyte inkler
183F	C6	05		DEC	#\$05	
1841	D0	F3		BNE	\$1836	LOOP
1843	20	71	18	JSR	\$1871	Ergebnis auf
1846	EA			NOP		Bit-Schritt ausgehen
1847	A5	04		LDA	#\$04	
1849	E6	04		INC	#\$04	
184B	C9	26		CMP	##26	Spur 38 überschritten?
184D	D0	E2		BNE	\$1831	nein LOOP
184F	EA			NOP		
1850	EA			NOP		
1851	4C	C9	18	JMP	\$18C9	warten + RTS
1854	00			BRK		von 1838
1855	A2	04		LDX	##04	
1857	DD	62	18	CMP	\$1862, X	
185A	CA			DEX		
185B	B0	FA		BCS	\$1857	
185D	BD	67	18	LDA	\$1867, X	
1860	85	05		STA	#\$05	
1862	60			RTS		
1863	40			RTI		
1864	1F			???		
1865	19	12	11	ORA	\$1112, Y	
1868	12			???		Tabelle
1869	13			???		
186A	15	00		ORA	#\$00, X	
186C	4C	C9	18	JMP	\$18C9	
186F	00			BRK	AXT	
1870	00			BRK	IMA	von 1843
1871	A9	00		LDA	##00	
1873	85	FB		STA	#\$FB	auf B5
1875	4C	03	10	JMP	\$1003	ausgegeben
1878	00			BRK		

1879	00			BRK		
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187C	00			BRK		
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187E	00			BRK		
187F	00			BRK		
1880	20	00	1C	JSR	\$1C00	
1883	A9	00		LDA	##00	
1885	85	FB		STA	#\$FB	
1887	A9	1E		LDA	##1E	
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188D	85	04		STA	#\$04	
188F	A0	00		LDY	#\$00	
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1896	C8			INY		
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18CB	8D	0E	DC	STA	\$DC0E	
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.,1B0D AD 00 1C LDA #1C00 85 23 2EAI
.,1B10 10 F6 100 BPL #1B08 49 20 9EAI
.,1B12 30 16 100 BMI #1B2A 13 2A 9EAI
.,1B14 CA 100 DEX 35 28 9EAI
.,1B15 D0 D7 100 BNE #1AEE 3E 02 1EAI
.,1B17 A9 31 100 LDA #31 79 02 9EAI
.,1B19 A2 00 100 LDX #00 31 0A 2EAI
.,1B1B 9D 00 06 STA #0800,X 71 2F 2EAI
.,1B1E E8 100 INX 81 2A 9EAI
.,1B1F D0 FA 100 BNE #1B1B 91 2A 9EAI
.,1B21 38 100 SEC 41 2A 9EAI
.,1B22 60 100 RTS 85 00 9EAI
.,1B23 CA 100 DEX 31 2A 1EAI
.,1B24 D0 DD 100 BNE #1B03 31 2A 2EAI
.,1B26 A9 53 100 LDA #53 25 00 2EAI
.,1B28 D0 EF 100 BNE #1B19 31 2A 2EAI
.,1B2A A2 00 100 LDX #00 71 2A 9EAI
.,1B2C A9 00 100 LDA #00 31 00 9EAI
.,1B2E 9D 00 06 STA #0600,X

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.,1B31 E8 0081 INX 81 00 08 2EAI
.,1B32 D0 F8 100 BNE #1B2C 85 23 2EAI
.,1B34 18 0081 CLD 81 00 08 9091
.,1B35 60 100 RTS 40 3E 1EAI
.,1B36 A2 00 100 LDX #00 30 95 2EAI
.,1B38 A9 000081 LDA #00 00 0A 1EAI
.,1B3A 9D 00 01 STA #0100,X 43 2EAI
.,1B3D 9D 00 06 STA #0600,X 43 2EAI
.,1B40 9D 00 07 STA #0700,X 44 2EAI
.,1B43 E8 0081 INX 81 00 08 2EAI
.,1B44 D0 F2 100 BNE #1B38 85 23 2EAI
.,1B46 A9 120001 LDA #12 00 0A 2EAI
.,1B48 85 51 800 STA #51 80 92 9EAI
.,1B4A 85 220001 STA #22 00 0A 2EAI
.,1B4C 4C 22 EB JMP #EB22 30 2A 2EAI
.,1B4F 00 100 BRK 81 2A 9EAI
.,1B50 00 100 BRK 81 2A 9EAI
.,1B51 4B 9177 AT2 91 28 1EAI
.,1B52 52 100 ??? 81 2EAI
.,1B53 53 100 ??? 40 95 2EAI
.,1B54 4E 4F 56 LSR #564F 24 20 2EAI
.,1B57 57 239 ??? 50 09 2EAI
.,1B58 49 59 100 EOR #59 43 2A 1EAI
.,1B5A 5A 100 ??? AT 4A 2EAI
.,1B5B 5B 100 ??? 40 03 2EAI
.,1B5C 4D 5D 5E EOR #5E5D 80 2EAI
.,1B5F 55 4A 100 EOR #4A,X 83 2EAI
.,1B61 4B 239 ??? 24 2A 2EAI
.,1B62 52 239 ??? 37 20 2EAI
.,1B63 53 100 ??? 40 2EAI
.,1B64 4E 4F 56 LSR #564F 24 20 2EAI
.,1B67 57 239 ??? 47 00 2EAI
.,1B68 49 59 100 EOR #59 43 2A 1EAI
.,1B6A 5A 100 ??? AT 4A 2EAI
.,1B6B 5B 100 ??? 40 03 2EAI
.,1B6C 4D 5D 5E EOR #5E5D 80 2EAI
.,1B6F 55 6A 100 EOR #6A,X 43 2A 1EAI
.,1B71 6B 2077 AD 20 02 2EAI
.,1B72 72 277 AT2 45 28 1EAI
.,1B73 73 277 LDX 91 28 1EAI
.,1B74 6E 6F 76 ROR #766F 03 20 2EAI
.,1B77 77 100 ??? 40 2EAI
.,1B78 69 79 100 ADC #79 40 90A1
.,1B7A 7A 100 ??? 81 2A 9EAI
.,1B7B 7B 100 ??? 05 03 2EAI
.,1B7C 6D 7D 7E ADC #7E7D 10 9A 2EAI
.,1B7F 75 4A 100 ADC #4A,X 75 28 0EAI
.,1B81 4B 100 ??? AD 20 02 2EAI
.,1B82 52 277 AT2 85 28 2EAI
.,1B83 53 277 LDX 05 2A 2EAI
.,1B84 4E 4F 56 LSR #564F 24 20 2EAI
.,1B87 57 239 ??? 47 00 2EAI
.,1B88 49 59 100 EOR #59 43 2A 1EAI
.,1B8A 5A 100 ??? AD 12 2A 1EAI
.,1B8B 5B 100 ??? 81 2EAI
.,1B8C 4D 5D 5E EOR #5E5D 80 2EAI
.,1B8F 55 6A 100 EOR #6A,X 43 2A 1EAI
.,1B91 6B 277 ??? 24 2A 2EAI
.,1B92 72 100 ??? 45 28 1EAI
.,1B93 73 100 ??? AD 20 02 2EAI
.,1B94 6E 6F 76 ROR #766F 03 20 2EAI

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.,1B97 77      ???
.,1B98 69 79   ADC  #79
.,1B9A 7A      ???
.,1B9B 7B      ???
.,1B9C 6D 7D 7E ADC  $7E7D
.,1B9F 75 A2   ADC  $A2,X
.,1BA1 40      RTI
.,1BA2 20 CF 04 JSR  $04CF
.,1BA5 50 FE   BVC  $1BA5
.,1BA7 B8      CLV
.,1BA8 AD 01 1C LDA  $1C01
.,1BAB C9 52   CMP  #$52
.,1BAD D0 21   BNE  $1BD0
.,1BAF 85 24   STA  $24
.,1BB1 50 FE   BVC  $1BB1
.,1BB3 B8      CLV
.,1BB4 AD 01 1C LDA  $1C01
.,1BB7 99 25 00 STA  $0025,Y
.,1BBA C8      INY
.,1BBB C0 07   CPY  #$07
.,1BBD D0 F2   BNE  $1BB1
.,1BF 20 97 F4 JSR  $F497
.,1BC2 A5 1A   LDA  $1A
.,1BC4 45 19   EOR  $19
.,1BC6 45 18   EOR  $18
.,1BC8 45 17   EOR  $17
.,1BCA 45 16   EOR  $16
.,1BCC D0 08   BNE  $1BD6
.,1BCE F0 03   BEQ  $1BD3
.,1BD0 CA      DEX
.,1BD1 D0 CF   BNE  $1BA2
.,1BD3 A9 30   LDA  #$30
.,1BD5 60      RTS
.,1BD6 A2 00   LDX  #$00
.,1BD8 A9 37   LDA  #$37
.,1BDA 9D 00 06 STA  $0600,X
.,1BDD E8      INX
.,1BDE D0 F8   BNE  $1BD8
.,1BE0 68      PLA
.,1BE1 68      PLA
.,1BE2 4C 2D 03 JMP  $032D
.,1BE5 58      CLI
.,1BE6 A9 12   LDA  #$12
.,1BEB 85 06   STA  $06
.,1BEA 85 22   STA  $22
.,1BEC A9 E0   LDA  #$E0
.,1BEE 85 00   STA  $00
.,1BF0 A5 00   LDA  $00
.,1BF2 30 FC   BMI  $1BF0
.,1BF4 A9 12   LDA  #$12
.,1BF6 85 22   STA  $22
.,1BF8 85 0E   STA  $0E
.,1BFA 85 18   STA  $18
.,1BFC 58      CLI
.,1BFD 4C 42 D0 JMP  $D042
.,1C00 20 64 1C JSR  $1C64
.,1C03 A9 00   LDA  #$00
.,1C05 85 02   STA  $02
.,1C07 A9 50   LDA  #$50
.,1C09 85 03   STA  $03
.,1C0B A0 00   LDY  #$00
.,1C0D 20 7D 1C JSR  $1C7D

```

von 1806 Disk initialisieren



M-W senden

```

.,1C10 A5 03   LDA  $03
.,1C12 20 AB FF JSR  $FFAB
.,1C15 A9 01   LDA  #$01
.,1C17 20 AB FF JSR  $FFAB
.,1C1A A9 23   LDA  #$23
.,1C1C 20 AB FF JSR  $FFAB
.,1C1F AA      TAX  $35
.,1C20 A4 02   LDY  $02
.,1C22 B9 B0 1C LDA  $1CB0,Y
.,1C25 20 AB FF JSR  $FFAB
.,1C28 C8      INY
.,1C29 CA      DEX
.,1C2A D0 F6   BNE  $1C22
.,1C2C 20 AE FF JSR  $FFAE
.,1C2F 84 02   STY  $02
.,1C31 18      CLC
.,1C32 A9 23   LDA  #$23
.,1C34 65 03   ADC  $03
.,1C36 C0 69   CPY  #$69
.,1C38 D0 CF   BNE  $1C09
.,1C3A 20 93 1C JSR  $1C93
.,1C3D A9 0D   LDA  #$0D
.,1C3F 20 AB FF JSR  $FFAB
.,1C42 20 AE FF JSR  $FFAE
.,1C45 20 93 1C JSR  $1C93
.,1C48 A0 03   LDY  #$03
.,1C4A 20 7D 1C JSR  $1C7D
.,1C4D A9 50   LDA  #$50
.,1C4F 20 AB FF JSR  $FFAB
.,1C52 A9 01   LDA  #$01
.,1C54 20 AB FF JSR  $FFAB
.,1C57 20 AE FF JSR  $FFAE
.,1C5A 78      SEI
.,1C5B A2 27   LDX  #$27
.,1C5D 8E 00 DD STX  $DD00
.,1C60 E8      INX
.,1C61 D0 11   BNE  $1C74
.,1C63 60      RTS
.,1C64 20 93 1C JSR  $1C93
.,1C67 A9 49   LDA  #$49
.,1C69 20 AB FF JSR  $FFAB
.,1C6C A9 30   LDA  #$30
.,1C6E 20 AB FF JSR  $FFAB
.,1C71 4C AE FF JMP  $FFAE
.,1C74 A2 00   LDX  #$00
.,1C76 88      DEY
.,1C77 D0 FD   BNE  $1C76
.,1C79 CA      DEX
.,1C7A D0 FA   BNE  $1C76
.,1C7C 60      RTS
.,1C7D 20 93 1C JSR  $1C93
.,1C80 A2 02   LDX  #$02
.,1C82 B9 BD 1C LDA  $1CBD,Y
.,1C85 20 AB FF JSR  $FFAB
.,1C88 C8      INY
.,1C89 CA      DEX
.,1C8A 10 F6   BPL  $1C82
.,1C8C 60      RTS
.,1C8D 4D 2D 57 EOR  $572D
.,1C90 4D 2D 45 EOR  $452D
.,1C93 A9 0B   LDA  #$0B

```

0.50 senden etc

35 Bytes

senden

TAX 35

Floppy routine

überschreiben

DEX 1

BNE \$1C22 LOOP

JSR \$FFAE UNLISTEN

STY \$02 zählen ablegen

CLC

LDA #\$23 +35

ADC \$03

CPY #\$69

BNE \$1C09 LOOP

JSR \$1C93 LISTEN

LDA #\$0D CR

JSR \$FFAB senden

JSR \$FFAE UNLISTEN

JSR \$1C93 LISTEN

LDY #\$03 M-E

JSR \$1C7D senden

LDA #\$50

JSR \$FFAB \$0150

LDA #\$01

JSR \$FFAB ausgeben

JSR \$FFAE UNLISTEN

SEI

LDX #\$27

STX \$DD00

INX

BNE \$1C74

RTS von 1000

JSR \$1C93 LISTEN

LDA #\$49 "1"

JSR \$FFAB ausgeben

LDA #\$30 "0"

JSR \$FFAB ausgeben

JMP \$FFAE UNLISTEN

LDX #\$00

DEY

BNE \$1C76

DEX

BNE \$1C76

RTS

JSR \$1C93 LISTEN

LDX #\$02

LDA \$1CBD,Y M-W

JSR \$FFAB

INX

DEX

BPL \$1C82

RTS

EOR \$572D

EOR \$452D M-E

LDA #\$08 Floppy

LISTEN

von 1004

.,1DBA 00	BRK	00	0001	.,1DF8 00	BRK	00	0001
.,1DBB 00	BRK	00	0001	.,1DF9 00	BRK	00	0001
.,1DBC 00	BRK	00	0001	.,1DFA 00	BRK	00	0001
.,1DBD 00	BRK	00	0001	.,1DFB 00	BRK	00	0001
.,1DBE 00	BRK	00	0001	.,1DFC 00	BRK	00	0001
.,1DBF 00	BRK	00	0001	.,1DFD 00	BRK	00	0001
.,1DC0 00	BRK	00	0001	.,1DFE 00	BRK	00	0001
.,1DC1 00	BRK	00	0001	.,1DFF 00	BRK	00	0001
.,1DC2 00	BRK	00	0001	.,1E00 78	SET	00	0001
.,1DC3 00	BRK	00	0001	.,1E01 A2 00	LDX ##00	00	0001
.,1DC4 00	BRK	00	0001	.,1E03 8E 03 1C	STX #1C03	00	0001
.,1DC5 00	BRK	00	0001	.,1E06 AD 00 1C	LDA #1C00	00	0001
.,1DC6 00	BRK	00	0001	.,1E09 09 0C	DRA ##0C	00	0001
.,1DC7 00	BRK	00	0001	.,1E0B 8D 00 1C	STA #1C00	00	0001
.,1DC8 00	BRK	00	0001	.,1E0E A9 EE	LDA ##EE	00	0001
.,1DC9 00	BRK	00	0001	.,1E10 8D 0C 1C	STA #1C0C	00	0001
.,1DCA 00	BRK	00	0001	.,1E13 88	DEY	00	0001
.,1DCB 00	BRK	00	0001	.,1E14 D0 FD	BNE #1E13	00	0001
.,1DCC 00	BRK	00	0001	.,1E16 CA	DEX	00	0001
.,1DCD 00	BRK	00	0001	.,1E17 D0 FA	BNE #1E13	00	0001
.,1DCE 00	BRK	00	0001	.,1E19 86 06	STX #06	00	0001
.,1DCF 00	BRK	00	0001	.,1E1B E6 06	INC #06	00	0001
.,1DD0 00	BRK	00	0001	.,1E1D A9 00	LDA ##00	00	0001
.,1DD1 00	BRK	00	0001	.,1E1F 85 07	STA #07	00	0001
.,1DD2 00	BRK	00	0001	.,1E21 20 49 03	JSR #0349	00	0001
.,1DD3 00	BRK	00	0001	.,1E24 20 E3 03	JSR #03E3	00	0001
.,1DD4 00	BRK	00	0001	.,1E27 A0 00	LDY ##00	00	0001
.,1DD5 00	BRK	00	0001	.,1E29 B9 00 06	LDA #0600	00	0001
.,1DD6 00	BRK	00	0001	.,1E2C 20 9C 03	JSR #039C	00	0001
.,1DD7 00	BRK	00	0001	.,1E2F C8	TNY	00	0001
.,1DD8 00	BRK	00	0001	.,1E30 C4 43	CPY #43	00	0001
.,1DD9 00	BRK	00	0001	.,1E32 D0 F5	BNE #1E29	00	0001
.,1DDA 00	BRK	00	0001	.,1E34 A5 06	LDA #06	00	0001
.,1ddb 00	BRK	00	0001	.,1E36 C9 26	CMP ##26	00	0001
.,1DDC 00	BRK	00	0001	.,1E38 D0 E1	BNE #1E1B	00	0001
.,1DDD 00	BRK	00	0001	.,1E3A A9 12	LDA #12	00	0001
.,1DDE 00	BRK	00	0001	.,1E3C 85 18	STA #18	00	0001
.,1DDF 00	BRK	00	0001	.,1E3E 85 0E	STA #0E	00	0001
.,1DE0 00	BRK	00	0001	.,1E40 85 51	STA #51	00	0001
.,1DE1 00	BRK	00	0001	.,1E42 20 4B 03	JSR #034B	00	0001
.,1DE2 00	BRK	00	0001	.,1E45 98	TYA	00	0001
.,1DE3 00	BRK	00	0001	.,1E46 4C A0	EA JMF #EAA0	00	0001
.,1DE4 00	BRK	00	0001	.,1E49 A5 06	LDA #06	00	0001
.,1DE5 00	BRK	00	0001	.,1E4B 38	SEC	00	0001
.,1DE6 00	BRK	00	0001	.,1E4C E5 22	SBC #22	00	0001
.,1DE7 00	BRK	00	0001	.,1E4E F0 29	BEQ #1E79	00	0001
.,1DE8 00	BRK	00	0001	.,1E50 A2 01	LDX ##01	00	0001
.,1DE9 00	BRK	00	0001	.,1E52 B0 06	BCS #1E5A	00	0001
.,1DEA 00	BRK	00	0001	.,1E54 A2 FF	LDX ##FF	00	0001
.,1DEB 00	BRK	00	0001	.,1E56 49 FF	EOR ##FF	00	0001
.,1DEC 00	BRK	00	0001	.,1E58 69 01	ADC #01	00	0001
.,1DED 00	BRK	00	0001	.,1E5A 0A	ASL	00	0001
.,1DEE 00	BRK	00	0001	.,1E5B AB	TAY	00	0001
.,1DEF 00	BRK	00	0001	.,1E5C BA	TXA	00	0001
.,1DF0 00	BRK	00	0001	.,1E5D 18	CLC	00	0001
.,1DF1 00	BRK	00	0001	.,1E5E 6D 00 1C	ADC #1C00	00	0001
.,1DF2 00	BRK	00	0001	.,1E61 4D 00 1C	EOR #1C00	00	0001
.,1DF3 00	BRK	00	0001	.,1E64 29 0B	AND #0B	00	0001
.,1DF4 00	BRK	00	0001	.,1E66 4D 00 1C	EOR #1C00	00	0001
.,1DF5 00	BRK	00	0001	.,1E69 8D 00 1C	STA #1C00	00	0001
.,1DF6 00	BRK	00	0001	.,1E6C A9 95	LDA ##95	00	0001
.,1DF7 00	BRK	00	0001				

.,1E6E 8D 09 18 STA \$1809	00 2071	.,1EE3 20 CA 03 JSR \$03CA	00 02 0071
.,1E71 2C 09 18 BIT \$1809	00 2071	.,1EE6 B0 1D BCS \$1F05	00 03 0071
.,1E74 30 FB BMI \$1E71	00 2071	.,1EE8 A9 FF LDA #FF	00 07 0071
.,1E76 88 DEY	00 2071	.,1EEA 8D 09 18 STA \$1809	00 08 0071
.,1E77 D0 E3 BNE \$1E5C	00 2071	.,1EED AD 09 18 LDA \$1809	00 0A 0071
.,1E79 A5 06 LDA \$06	00 2071	.,1EF0 F0 08 BEQ \$1EFA	00 0A 0071
.,1E7B 85 22 STA \$22	00 2071	.,1EF2 AD 00 1C LDA \$1C00	00 0C 0071
.,1E7D C9 22 CMP #22	00 2071	.,1EF5 10 F6 BPL \$1EED	00 0F 0071
.,1E7F 90 02 BCC \$1E83	00 2071	.,1EF7 4C 57 04 JMP \$0457	00 0F 0071
.,1E81 A9 22 LDA #22	00 2071	.,1EFA A9 FF LDA #FF	00 0F 0071
.,1E83 20 4B F2 JSR \$F24B	00 2071	.,1EFC A2 00 10 LDX #00	00 0F 0071
.,1E86 85 43 STA \$43	00 2071	.,1EFE 9D 00 06 STA \$0600,X	00 0F 0071
.,1E88 85 C0 STA \$C0	00 2071	.,1F01 E8 INX	00 0F 0071
.,1E8A 8A TXA	00 2071	.,1F02 D0 FA BNE \$1EFE	00 0F 0071
.,1E8B 0A ASL	00 2071	.,1F04 60 RTS	00 0F 0071
.,1E8C 0A ASL	00 2071	.,1F05 20 14 04 JSR \$0414	00 0F 0071
.,1E8D 0A ASL	00 2071	.,1F08 20 23 04 JSR \$0423	00 0F 0071
.,1E8E 09 40 ORA #40	00 2071	.,1F0B A0 00 LDY #00	00 0F 0071
.,1E90 4D 00 1C EOR \$1C00	00 2071	.,1F0D 99 00 06 STA \$0600,Y	00 0F 0071
.,1E93 29 60 AND #60	00 2071	.,1F10 C8 INY	00 0F 0071
.,1E95 4D 00 1C EOR \$1C00	00 2071	.,1F11 D0 FA BNE \$1F0D	00 0F 0071
.,1E98 8D 00 1C STA \$1C00	00 2071	.,1F13 60 RTS	00 0F 0071
.,1E9B 60 RTS	00 2071	.,1F14 A9 00 LDA #00	00 0F 0071
.,1E9C AA TAX	00 2071	.,1F16 8D 04 18 STA \$1804	00 0F 0071
.,1E9D 4A LSR	00 2071	.,1F19 8D 05 18 STA \$1805	00 0F 0071
.,1E9E 4A LSR	00 2071	.,1F1C 8D 06 18 STA \$1806	00 0F 0071
.,1E9F 4A LSR	00 2071	.,1F1F 8D 07 18 STA \$1807	00 0F 0071
.,1EA0 4A LSR	00 2071	.,1F22 60 RTS	00 0F 0071
.,1EA1 4B PHA	00 2071	.,1F23 A2 07 LDX #07	00 0F 0071
.,1EA2 A9 01 LDA #01	00 2071	.,1F25 A0 90 LDY #90	00 0F 0071
.,1EA4 8D 00 18 STA \$1800	00 2071	.,1F27 50 FE BVC \$1F27	00 0F 0071
.,1EA7 2C 00 18 BIT \$1800	00 2071	.,1F29 B8 CLV	00 0F 0071
.,1EAA D0 FB BNE \$1EA7	00 2071	.,1F2A AD 01 1C LDA \$1C01	00 0F 0071
.,1EAC 8A TXA	00 2071	.,1F2D 8C 04 18 STY \$1804	00 0F 0071
.,1EAD 29 0F AND #0F	00 2071	.,1F30 50 FE BVC \$1F30	00 0F 0071
.,1EAF 8D 00 18 STA \$1800	00 2071	.,1F32 B8 CLV	00 0F 0071
.,1EB2 0A ASL	00 2071	.,1F33 AD 01 1C LDA \$1C01	00 0F 0071
.,1EB3 29 0F AND #0F	00 2071	.,1F36 CA DEX	00 0F 0071
.,1EB5 8D 00 18 STA \$1800	00 2071	.,1F37 D0 F7 BNE \$1F30	00 0F 0071
.,1EB8 68 PLA	00 2071	.,1F39 AC 04 18 LDY \$1804	00 0F 0071
.,1EB9 8D 00 18 STA \$1800	00 2071	.,1F3C 8E 04 18 STX \$1804	00 0F 0071
.,1EBC 0A ASL	00 2071	.,1F3F 8E 05 18 STX \$1805	00 0F 0071
.,1EBD 29 0F AND #0F	00 2071	.,1F42 A9 31 LDA #31	00 0F 0071
.,1EBF 8D 00 18 STA \$1800	00 2071	.,1F44 C0 65 CPY #65	00 0F 0071
.,1EC2 EA NOP	00 2071	.,1F46 B0 0E BCS \$1F56	00 0F 0071
.,1EC3 EA NOP	00 2071	.,1F48 A9 32 LDA #32	00 0F 0071
.,1EC4 A9 08 LDA #08	00 2071	.,1F4A C0 53 CPY #53	00 0F 0071
.,1EC6 8D 00 18 STA \$1800	00 2071	.,1F4C B0 08 BCS \$1F56	00 0F 0071
.,1EC9 60 RTS	00 2071	.,1F4E A9 33 LDA #33	00 0F 0071
.,1ECA A9 FF LDA #FF	00 2071	.,1F50 C0 47 CPY #47	00 0F 0071
.,1ECC 8D 09 18 STA \$1809	00 2071	.,1F52 B0 02 BCS \$1F56	00 0F 0071
.,1ECF AD 09 18 LDA \$1809	00 2071	.,1F54 A9 34 LDA #34	00 0F 0071
.,1ED2 F0 0D BEQ \$1EE1	00 2071	.,1F56 60 RTS	00 0F 0071
.,1ED4 AD 00 1C LDA \$1C00	00 2071	.,1F57 20 75 04 JSR \$0475	00 0F 0071
.,1ED7 30 F6 BMI \$1ECF	00 2071	.,1F5A 20 14 04 JSR \$0414	00 0F 0071
.,1ED9 B8 CLV	00 2071	.,1F5D AD 00 1C LDA \$1C00	00 0F 0071
.,1EDA AD 01 1C LDA \$1C01	00 2071	.,1F60 30 FB BMI \$1F5D	00 0F 0071
.,1EDD A0 00 LDY #00	00 2071	.,1F62 B8 CLV	00 0F 0071
.,1EDF 18 CLC	00 2071	.,1F63 AD 01 1C LDA \$1C01	00 0F 0071
.,1EE0 60 RTS	00 2071	.,1F66 20 23 04 JSR \$0423	00 0F 0071
.,1EE1 38 SEC	00 2071	.,1F69 A6 07 LDX #07	00 0F 0071
.,1EE2 60 RTS	00 2071		

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.,1F6B 9D 00 06 STA $0600,X
.,1F6E E6 07 INC $07
.,1F70 C6 C0 77 DEC $C0
.,1F72 D0 E9 90B BNE $1F5D
.,1F74 60 90B RTS
.,1F75 A2 2A A7B LDX ##2A
.,1F77 20 CA 03 JSR $03CA
.,1F7A B0 F8 03B BCS $1F74
.,1F7C 50 FE 78B BVC $1F7C
.,1F7E B8 77 CLV
.,1F7F AD 01 10 LDA $1C01
.,1F82 99 00 07 STA $0700,Y
.,1F85 C8 INY
.,1F86 C0 04 33B CPY ##04
.,1F88 D0 F2 BNE $1F7C
.,1F8A AD 00 07 LDA $0700
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.,1F8F D0 19 00B BNE $1FAA
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.,1F94 29 0F AND ##0F
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.,1F9D 29 FC 00B AND ##FC
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.,1FA1 D0 07 00B BNE $1FAA
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.,1FA6 50 FE BVC $1FA6
.,1FAB B8 70 CLV
.,1FA9 60 09B RTS
.,1FAA CA 75B DEX
.,1FAB D0 CA BNE $1F77
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.,1FF7 A9 30 LDA ##30
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.,2000 F9 F1 FB SBC $FBF1,Y
.,2003 F3 77B ???
.,2004 FD F5 FF SBC $FFF5,X
.,2007 F7 77B ???
.,2008 F8 77B SED
.,2009 F0 FA 77B BEQ $2005
.,200B F2 77B ???
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.,2011 71 7B ADC ($7B),Y
.,2013 73 77B ???
.,2014 7D 75 7F ADC $7F75,X
.,2017 77 77B ???
.,2018 78 77B SEI
.,2019 70 7A 77B BVS $2095
.,201B 72 77B ???
.,201C 7C 77B ???
.,201D 74 77B ???
.,201E 7E 76 D9 ROR $D976,X
.,2021 D1 DB 77B CMP ($DB),Y
.,2023 D3 77B ???
.,2024 DD D5 DF CMP $DFD5,X
.,2027 D7 77B ???
.,2028 D8 77B CLD
.,2029 D0 DA 77B BNE $2005
.,202B D2 77B ???
.,202C DC 77B ???
.,202D D4 77B ???
.,202E DE D6 59 DEC $59D6,X

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.,2034	5D	55 5F	EOR \$5F55,X	CA 3E15	.,209A	6A	ROR	50 1015
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.,2038	58		CLI	CA 1F15	.,209C	6C 64 6E	JMP (\$6E64)	50 2015
.,2039	50	5A	BVC \$2095	CA 5F15	.,209F	66 C9	ROR \$C9	50 4015
.,203B	52		???	CA 0F15	.,20A1	C1 CB	CMP (\$CB,X)	50 2015
.,203C	5C		???	CA 4F15	.,20A3	C3	???	50 3015
.,203D	54		???	CA 0F15	.,20A4	CD C5 CF	CMP \$CFC5	50 5015
.,203E	5E	56 B9	LSR \$B956,X	CA 0F15	.,20A7	C7	???	50 8015
.,2041	B1	BB	LDA (\$BB),Y	CA 5F15	.,20AB	C8	INY	50 9015
.,2043	B3		???	CA 8F15	.,20A9	C0 CA	CPY #\$CA	50 A015
.,2044	BD	B5 BF	LDA \$BFB5,X	CA 9F15	.,20AB	C2	???	50 8015
.,2047	B7		???	CA AF15	.,20AC	CC C4 CE	CPY \$CEC4	50 0015
.,2048	B8		CLV	CA 0F15	.,20AF	C6 49	DEC \$49	50 0015
.,2049	B0	BA	BCS \$2005	CA 3F15	.,20B1	41 4B	EOR (\$4B,X)	50 3015
.,204B	B2		???	CA 0F15	.,20B3	43	???	50 3015
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.,204F	B6	39	LDX \$39,Y	CA 4F15	.,20B7	47	???	50 5115
.,2051	31	3B	AND (\$3B),Y	CA 0215	.,20B8	48	PHA	50 2115
.,2053	33		???	CA 1215	.,20B9	40	RTI	50 AF15
.,2054	3D	35 3F	AND \$3F35,X	CA 5215	.,20BA	4A	LSR	50 2F15
.,2057	37		???	CA 0215	.,20BB	42	???	50 3115
.,2058	38		SEC	CA 4215	.,20BC	4C 44 4E	JMP \$4E44	50 5115
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.,205B	32		???	CA 0215	.,20C1	A1 AB	LDA (\$AB,X)	50 9115
.,205C	3C		???	CA 5215	.,20C3	A3	???	50 AF15
.,205D	34		???	CA 8215	.,20C4	AD A5 AF	LDA \$AFA5	50 8115
.,205E	3E	36 99	ROL \$9936,X	CA 8215	.,20C7	A7	???	50 3115
.,2061	91	9B	STA (\$9B),Y	CA A215	.,20C8	A8	TAY	50 0115
.,2063	93		???	CA 3215	.,20C9	A0 AA	LDY #\$AA	50 3115
.,2064	9D	95 9F	STA \$9F95,X	CA 3215	.,20CB	A2 AC	LDX #\$AC	50 3115
.,2067	97		???	CA 0215	.,20CD	A4 AE	LDY \$AE	50 0215
.,2068	98		TYA	CA 3215	.,20CF	A6 29	LDX \$29	50 1515
.,2069	90	9A	BCC \$2005	CA 7215	.,20D1	21 2B	AND (\$2B,X)	50 5315
.,206B	92		???	CA 0215	.,20D3	23	???	50 2215
.,206C	9C		???	CA 1515	.,20D4	2D 25 2F	AND \$2F25	50 6515
.,206D	94	9E	STY \$9E,X	CA 5215	.,20D7	27	???	50 0215
.,206F	96	19	STX \$19,Y	CA 5215	.,20D8	28	PLP	50 3515
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.,2073	13		???	CA 2215	.,20DC	2C 24 2E	BIT \$2E24	50 8215
.,2074	1D	15 1F	DRA \$1F15,X	CA 3215	.,20DF	26 89	ROL \$89	50 6515
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.,2078	18		CLC	CA 9215	.,20E3	83	???	50 8515
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.,207D	14		???	CA 7215	.,20E9	80	???	50 7515
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.,2083	E3		???	CA 7215	.,20EC	8C 84 8E	STY \$8E84	CA 5215
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