Loader des FINAL CARTRIDGE III FREEZERs

01.05.1994
23.10.1994
19.05.1998

1986 SKS 2061

```
.,080D 78          SEI
.,080E A0 00       LDY #$00
.,0810 B1 BB       LDA ($BB),Y   } Filenamen
.,0812 99 33 0C    STA $0C33,Y   } umkopieren
.,0815 C8          INY
.,0816 C0 0F       CPY #$0F      15 Zeichen?
.,0818 F0 04       BEQ $081E     ja
.,081A C4 B7       CPY $B7       Filename zu Ende
.,081C D0 F2       BNE $0810     nein
.,081E A9 00       LDA #$00      mit 0
.,0820 99 33 0C    STA $0C33,Y   abschließen
.,0823 AD A6 02    LDA $02A6     PAL/NTSC?
.,0826 D0 0E       BNE $0836     PAL
.,0828 A2 1A       LDX #$1A
.,082A BD 09 0B    LDA $0B09,X   umkopieren
.,082D 9D 0A 0B    STA $0B0A,X
.,0830 CA          DEX
.,0831 10 F7       BPL $082A
.,0833 CE 21 0B    DEC $0B21
.,0836 A9 7F       LDA #$7F
.,0838 8D 0D DC    STA $DC0D
.,083B 8D 0D DD    STA $DD0D
.,083E A2 0E       LDX #$0E
.,0840 A9 80       LDA #$80
.,0842 9D 02 D4    STA $D402,X
.,0845 9D 03 D4    STA $D403,X
.,0848 A9 21       LDA #$21
.,084A 9D 04 D4    STA $D404,X
.,084D A9 08       LDA #$08
.,084F 9D 05 D4    STA $D405,X
.,0852 A9 80       LDA #$80
.,0854 9D 06 D4    STA $D406,X
.,0857 8A          TXA
.,0858 38          SEC           } X=X-7
.,0859 E9 07       SBC #$07
.,085B AA          TAX
.,085C 10 E2       BPL $0840
.,085E A9 8F       LDA #$8F
.,0860 8D 18 D4    STA $D418
.,0863 A2 00       LDX #$00      Index
.,0865 8E 0E DC    STX $DC0E
.,0868 BD 43 0C    LDA $0C43,X   } Zero-Page kopieren
.,086B 95 00       STA $00,X
.,086D BD 43 0D    LDA $0D43,X   } Stapel-Bereich
.,0870 9D 00 01    STA $0100,X
.,0873 E0 03       CPX #$03      X>2
.,0875 B0 06       BCS $087D     ja
.,0877 BD 72 10    LDA $1072,X
.,087A 9D 00 04    STA $0400,X
.,087D E8          INX
.,087E D0 E8       BNE $0868     LOOP
.,0880 A2 2E       LDX #$2E
.,0882 BD 43 10    LDA $1043,X   } VIC kopieren
.,0885 9D 00 D0    STA $D000,X
.,0888 CA          DEX
.,0889 10 F7       BPL $0882
.,088B A9 0B       LDA #$0B      = %00001011 BS aus
.,088D 8D 11 D0    STA $D011
.,0890 A6 93       LDX $93       } Stapel
.,0892 9A          TXS
.,0893 A2 00       LDX #$00
.,0895 BD 43 0E    LDA $0E43,X   } Color-RAM kopieren
.,0898 20 07 09    JSR $0907
.,089B 9D 00 DB    STA $DB00,X
.,089E 98          TYA
.,089F 9D 00 DA    STA $DA00,X
.,08A2 BD 43 0F    LDA $0F43,X
.,08A5 20 07 09    JSR $0907
.,08A8 9D 00 D9    STA $D900,X
.,08AB 98          TYA
.,08AC 9D 00 DB    STA $DB00,X
.,08AF BD C8 0B    LDA $0BC8,X
.,08B2 9D 00 03    STA $0300,X
.,08B5 E8          INX
.,08B6 D0 DD       BNE $0895
.,08B8 20 44 03    JSR $0344     File öffnen
.,08BB 20 AB FF    JSR $FFAB     UNTALK
.,08BE 20 11 09    JSR $0911     Routine übertragen + "M-E"
.,08C1 A9 03       LDA #$03      } $0403
.,08C3 20 A8 FF    JSR $FFA8     senden
.,08C6 A9 04       LDA #$04
.,08C8 20 A8 FF    JSR $FFA8
.,08CB 20 AE FF    JSR $FFAE     UNLISTEN
.,08CE 78          SEI           Y=0(?)
.,08CF B9 C8 0A    LDA $0AC8,Y   } kopieren
.,08D2 99 00 02    STA $0200,Y
.,08D5 C8          INY
.,08D6 D0 F7       BNE $08CF     LOOP
.,08D8 84 96       STY $96 = 0
.,08DA 20 00 02    JSR $0200     } 512 Bytes einlesen
.,08DD 20 00 02    JSR $0200
.,08E0 C8          INY
.,08E1 D0 F7       BNE $08DA
.,08E3 20 00 02    JSR $0200     } 3 Bytes nach $037B
.,08E6 99 7B 03    STA $037B,Y
.,08E9 C8          INY
.,08EA C0 03       CPY #$03
.,08EC D0 F5       BNE $08E3
.,08EE 20 00 02    JSR $0200     } Wert nach $91 und $027D
.,08F1 85 91       STA $91
.,08F3 8D 7D 02    STA $027D
.,08F6 20 00 02    JSR $0200
.,08F9 85 92       STA $92
.,08FB 8D 81 02    STA $0281
.,08FE A9 35       LDA #$35
.,0900 85 01       STA $01
.,0902 A0 00       LDY #$00
.,0904 4C 5D 02    JMP $025D
.,0907 48          PHA
.,0908 4A          LSR           High-Nibble in Y
.,0909 4A          LSR           Low-Nibble in A
.,090A 4A          LSR
.,090B 4A          LSR
.,090C A8          TAY
.,090D 68          PLA
.,090E 29 0F       AND #$0F
.,0910 60          RTS
.,0911 A2 04       LDX #$04
.,0913 A9 60       LDA #$60      } $0360
.,0915 85 C3       STA $C3
.,0917 A9 09       LDA #$09
.,0919 85 C4       STA $C4
```

```
.,091B A9 57     LDA #$57   "W"
.,091D 20 47 09  JSR $0947  "M-W" senden
.,0920 98        TYA = 0 (?)
.,0921 20 A8 FF  JSR $FFA8  senden
.,0924 8A        TXA = 4
.,0925 20 A8 FF  JSR $FFA8  senden
.,0928 A9 20     LDA #$20   SPACE
.,092A 20 A8 FF  JSR $FFA8  senden
.,092D B1 C3     LDA ($C3),Y Floppy-Routine
.,092F 20 A8 FF  JSR $FFA8  senden
.,0932 C8        INY
.,0933 98        TYA
.,0934 29 1F     AND #$1F
.,0936 D0 F5     BNE $092D  LOOP
.,0938 20 AE FF  JSR $FFAE  UNLISTEN
.,093B 98        TYA ~~$30~~
.,093C D0 DD     BNE $091B
.,093E E6 C4     INC $C4    Hi-Byte erhöhen
.,0940 E8        INX Floppy-Puffer erh.
.,0941 E0 06     CPX #$06   6?
.,0943 90 D6     BCC $091B
.,0945 A9 45     LDA #$45   "M-E" senden
.,0947 48        PHA        merken
.,0948 A9 08     LDA #$08   Floppy
.,094A 20 B1 FF  JSR $FFB1  LISTEN
.,094D A9 6F     LDA #$6F
.,094F 20 93 FF  JSR $FF93  Sekundäradresse
.,0952 A9 4D     LDA #$4D   "M"
.,0954 20 A8 FF  JSR $FFA8  senden
.,0957 A9 2D     LDA #$2D   "-"
.,0959 20 A8 FF  JSR $FFA8  senden
.,095C 68        PLA        holen
.,095D 4C A8 FF  JMP $FFA8  senden
.,0960 4C 28 04  JMP $0428
.,0963 A2 00     LDX #$00
.,0965 8E 00 18  STX $1800
.,0968 A5 19     LDA $19
.,096A 85 09     STA $09
.,096C A5 18     LDA $18
.,096E 85 08     STA $08
.,0970 A9 E0     LDA #$E0
.,0972 85 01     STA $01
.,0974 A5 01     LDA $01
.,0976 30 FC     BMI $0974
.,0978 C9 02     CMP #$02
.,097A B0 04     BCS $0980
.,097C A5 08     LDA $08
.,097E D0 F0     BNE $0970
.,0980 A9 02     LDA #$02
.,0982 8D 00 18  STA $1800
.,0985 4C 94 C1  JMP $C194
.,0988 A2 03     LDX #$03
.,098A 86 31     STX $31
.,098C E8        INX
.,098D D0 03     BNE $0992
.,098F 4C 0B F4  JMP $F40B
.,0992 20 56 F5  JSR $F556
.,0995 50 FE     BVC $0995
.,0997 B8        CLV
.,0998 AD 01 1C  LDA $1C01
.,099B C5 24     CMP $24
.,099D D0 ED     BNE $098C
.,099F C8        INY
.,09A0 50 FE     BVC $09A0
.,09A2 B8        CLV
.,09A3 AD 01 1C  LDA $1C01
.,09A6 91 30     STA ($30),Y
.,09A8 C8        INY
.,09A9 C0 04     CPY #$04
.,09AB D0 F3     BNE $09A0
.,09AD A0 00     LDY #$00
.,09AF 20 E8 F7  JSR $F7E8
.,09B2 A6 54     LDX $54
.,09B4 E4 09     CPX $09
.,09B6 D0 D0     BNE $0988
.,09B8 20 56 F5  JSR $F556
.,09BB 50 FE     BVC $09BB
.,09BD B8        CLV
.,09BE AD 01 1C  LDA $1C01
.,09C1 91 30     STA ($30),Y
.,09C3 C8        INY
.,09C4 D0 F5     BNE $09BB
.,09C6 A0 BA     LDY #$BA
.,09C8 50 FE     BVC $09C8
.,09CA B8        CLV
.,09CB AD 01 1C  LDA $1C01
.,09CE 99 00 01  STA $0100,Y
.,09D1 C8        INY
.,09D2 D0 F4     BNE $09C8
.,09D4 A9 42     LDA #$42
.,09D6 85 36     STA $36
.,09D8 A0 00     LDY #$00
.,09DA 84 C1     STY $C1
.,09DC C6 36     DEC $36
.,09DE 8C 00 18  STY $1800
.,09E1 D0 09     BNE $09EC
.,09E3 A5 08     LDA $08
.,09E5 C5 22     CMP $22
.,09E7 F0 9F     BEQ $0988
.,09E9 4C 18 F4  JMP $F418
.,09EC A4 C1     LDY $C1
.,09EE B1 30     LDA ($30),Y
.,09F0 4A        LSR
.,09F1 4A        LSR
.,09F2 4A        LSR
.,09F3 85 5C     STA $5C
.,09F5 B1 30     LDA ($30),Y
.,09F7 29 07     AND #$07
.,09F9 85 5D     STA $5D
.,09FB C8        INY
.,09FC D0 05     BNE $0A03
.,09FE C8        INY
.,09FF 84 31     STY $31
.,0A01 A0 BA     LDY #$BA
.,0A03 B1 30     LDA ($30),Y
.,0A05 0A        ASL
.,0A06 26 5D     ROL $5D
.,0A08 0A        ASL
.,0A09 26 5D     ROL $5D
.,0A0B 4A        LSR
.,0A0C 4A        LSR
.,0A0D 4A        LSR
.,0A0E 85 5A     STA $5A
.,0A10 B1 30     LDA ($30),Y
```

Floppy-Routine

Floppy-Routine 1.2

```
.,0A12 4A        LSR
.,0A13 C8        INY
.,0A14 B1 30     LDA ($30),Y
.,0A16 2A        ROL
.,0A17 2A        ROL
.,0A18 2A        ROL
.,0A19 2A        ROL
.,0A1A 2A        ROL
.,0A1B 29 1F     AND #$1F
.,0A1D 85 5B     STA $5B
.,0A1F B1 30     LDA ($30),Y
.,0A21 29 0F     AND #$0F
.,0A23 85 58     STA $58
.,0A25 C8        INY
.,0A26 B1 30     LDA ($30),Y
.,0A28 0A        ASL
.,0A29 26 58     ROL $58
.,0A2B 4A        LSR
.,0A2C 4A        LSR
.,0A2D 4A        LSR
.,0A2E 85 59     STA $59
.,0A30 B1 30     LDA ($30),Y
.,0A32 0A        ASL
.,0A33 0A        ASL
.,0A34 0A        ASL
.,0A35 29 18     AND #$18
.,0A37 85 56     STA $56
.,0A39 C8        INY
.,0A3A B1 30     LDA ($30),Y
.,0A3C 2A        ROL
.,0A3D 2A        ROL
.,0A3E 2A        ROL
.,0A3F 2A        ROL
.,0A40 29 07     AND #$07
.,0A42 05 56     ORA $56
.,0A44 85 56     STA $56
.,0A46 A9 08     LDA #$08
.,0A48 8D 00 18  STA $1800
.,0A4B AD 00 18  LDA $1800
.,0A4E 4A        LSR
.,0A4F 90 FA     BCC $0A4B
.,0A51 A9 00     LDA #$00
.,0A53 8D 00 18  STA $1800
.,0A56 B1 30     LDA ($30),Y
.,0A58 29 1F     AND #$1F
.,0A5A 85 57     STA $57
.,0A5C C8        INY
.,0A5D 84 C1     STY $C1
.,0A5F A5 36     LDA $36
.,0A61 C9 41     CMP #$41
.,0A63 D0 18     BNE $0A7D
.,0A65 A6 5A     LDX $5A
.,0A67 BD A0 F8  LDA $F8A0,X
.,0A6A A6 5B     LDX $5B
.,0A6C 1D C0 F8  ORA $F8C0,X
.,0A6F 85 08     STA $08
.,0A71 A6 58     LDX $58
.,0A73 BD A0 F8  LDA $F8A0,X
.,0A76 A6 59     LDX $59
.,0A78 1D C0 F8  ORA $F8C0,X
.,0A7B 85 09     STA $09
.,0A7D A0 08     LDY #$08
```

```
.,0A7F 8C 00 18  STY $1800
.,0A82 B6 55     LDX $55,Y
.,0A84 BD 30 05  LDA $0530,X
.,0A87 8D 00 18  STA $1800
.,0A8A BD 48 05  LDA $0548,X
.,0A8D B6 54     LDX $54,Y
.,0A8F 8D 00 18  STA $1800
.,0A92 88        DEY
.,0A93 D0 EF     BNE $0A84
.,0A95 4C 7C 04  JMP $047C
.,0A98 00        BRK
.,0A99 0A        ASL
.,0A9A 0A        ASL
.,0A9B 02        ???
.,0A9C 00        BRK
.,0A9D 0A        ASL
.,0A9E 0A        ASL
.,0A9F 02        ???
.,0AA0 00        BRK
.,0AA1 00        BRK
.,0AA2 08        PHP
.,0AA3 00        BRK
.,0AA4 00        BRK
.,0AA5 00        BRK
.,0AA6 08        PHP
.,0AA7 00        BRK
.,0AA8 00        BRK
.,0AA9 02        ???
.,0AAA 08        PHP
.,0AAB 00        BRK
.,0AAC 00        BRK
.,0AAD 02        ???
.,0AAE 08        PHP
.,0AAF 00        BRK
.,0AB0 00        BRK
.,0AB1 08        PHP
.,0AB2 0A        ASL
.,0AB3 0A        ASL
.,0AB4 00        BRK
.,0AB5 00        BRK
.,0AB6 02        ???
.,0AB7 02        ???
.,0AB8 00        BRK
.,0AB9 00        BRK
.,0ABA 0A        ASL
.,0ABB 0A        ASL
.,0ABC 00        BRK
.,0ABD 00        BRK
.,0ABE 02        ???
.,0ABF 02        ???
.,0AC0 00        BRK
.,0AC1 08        PHP
.,0AC2 08        PHP
.,0AC3 08        PHP
.,0AC4 00        BRK
.,0AC5 00        BRK
.,0AC6 00        BRK
.,0AC7 00        BRK
.,0AC8 A5 96     LDA $96
.,0ACA D0 09     BNE $0AD5
.,0ACC 20 1B 02  JSR $021B
```

1 Byte ≙ 0200

4 Bytes lesen

```
.
.,0ACF A2 00     LDX #$00
.,0AD1 A9 FE     LDA #$FE   T/S überspringen
.,0AD3 85 96     STA $96
.,0AD5 8A        TXA
.,0AD6 10 05     BPL $0ADD
.,0AD8 20 1B 02  JSR $021B  4 Bytes lesen
.,0ADB A2 03     LDX #$03
.,0ADD B5 C1     LDA $C1,X  Byte lesen
.,0ADF C6 96     DEC $96    Anzahl erniedrigen
.,0AE1 CA        DEX
.,0AE2 60        RTS
.,0AE3 98        TYA        Y retten
.,0AE4 48        PHA        4 Bytes
.,0AE5 2C 00 DD  BIT $DD00  nach
.,0AE8 70 FB     BVS $0AE5  $C1
.,0AEA A9 20     LDA #$20   lesen
.,0AEC 8D 00 DD  STA $DD00
.,0AEF 2C 00 DD  BIT $DD00
.,0AF2 50 FB     BVC $0AEF
.,0AF4 A9 00     LDA #$00
.,0AF6 8D 00 DD  STA $DD00
.,0AF9 2C 00 DD  BIT $DD00
.,0AFC 70 FB     BVS $0AF9
.,0AFE A0 03     LDY #$03
.,0B00 EA        NOP        5 T2
.,0B01 A5 01     LDA $01
.,0B03 AD 00 DD  LDA $DD00
.,0B06 4A        LSR
.,0B07 4A        LSR
.,0B08 EA        NOP        4 T2
.,0B09 EA        NOP
.,0B0A 0D 00 DD  ORA $DD00
.,0B0D 4A        LSR
.,0B0E 4A        LSR
.,0B0F EA        NOP        Byte holen
.,0B10 EA        NOP
.,0B11 0D 00 DD  ORA $DD00
.,0B14 4A        LSR
.,0B15 4A        LSR
.,0B16 EA        NOP
.,0B17 EA        NOP
.,0B18 0D 00 DD  ORA $DD00
.,0B1B 99 C1 00  STA $00C1,Y
.,0B1E 88        DEY
.,0B1F 10 E2     BPL $0B03
.,0B21 68        PLA        Y wiederherstellen
.,0B22 A8        TAY
.,0B23 60        RTS
.,0B24 EA        NOP        JMP $0B0A
.,0B25 20 00 02  JSR $0200  Byte
.,0B28 C6 01     DEC $01
.,0B2A 91 91     STA ($91),Y ablegen
.,0B2C E6 01     INC $01
.,0B2E E6 91     INC $91
.,0B30 D0 F3     BNE $0B25
.,0B32 E6 92     INC $92
.,0B34 D0 EF     BNE $0B25
.,0B36 A5 96     LDA $96
.,0B38 F0 06     BEQ $0B40
.,0B3A 20 00 02  JSR $0200
.,0B3D 4C 6E 02  JMP $026E
```

$021B

$025D

```
.,0B40 A9 34     LDA #$34   Blk
.,0B42 85 01     STA $01
.,0B44 A9 FF     LDA #$FF
.,0B46 85 96     STA $96
.,0B48 A9 FF     LDA #$FF
.,0B4A 85 97     STA $97
.,0B4C A9 03     LDA #$03
.,0B4E 85 91     STA $91    $C1/03
.,0B50 A9 04     LDA #$04
.,0B52 85 92     STA $92
.,0B54 A2 00     LDX #$00
.,0B56 B1 96     LDA ($96),Y
.,0B58 D0 1C     BNE $0B76
.,0B5A 20 FE 02  JSR $02FE  INCE get
.,0B5D AA        TAX
.,0B5E 20 FE 02  JSR $02FE  INCE get
.,0B61 20 07 03  JSR $0307  ablegen
.,0B64 CA        DEX
.,0B65 D0 F7     BNE $0B5E
.,0B67 20 FE 02  JSR $02FE
.,0B6A A5 91     LDA $91
.,0B6C C9 FD     CMP #$FD
.,0B6E A5 92     LDA $92
.,0B70 E9 FF     SBC #$FF
.,0B72 90 E2     BCC $0B56
.,0B74 B0 62     BCS $0BD8
.,0B76 AA        TAX
.,0B77 CA        DEX
.,0B78 D0 1B     BNE $0B95
.,0B7A 20 FE 02  JSR $02FE  get
.,0B7D 48        PHA
.,0B7E 20 FE 02  JSR $02FE  get
.,0B81 85 90     STA $90
.,0B83 20 FE 02  JSR $02FE  get
.,0B86 20 07 03  JSR $0307  store
.,0B89 E8        INX
.,0B8A D0 F7     BNE $0B83
.,0B8C C6 90     DEC $90
.,0B8E D0 F3     BNE $0B83
.,0B90 68        PLA
.,0B91 AA        TAX
.,0B92 38        SEC
.,0B93 B0 D0     BCS $0B65
.,0B95 CA        DEX
.,0B96 F0 0D     BEQ $0BA5
.,0B98 E8        INX
.,0B99 E8        INX
.,0B9A 20 FE 02  JSR $02FE  get
.,0B9D 20 07 03  JSR $0307  store
.,0BA0 CA        DEX
.,0BA1 D0 FA     BNE $0B9D
.,0BA3 F0 C2     BEQ $0B67
.,0BA5 20 FE 02  JSR $02FE  get
.,0BA8 48        PHA
.,0BA9 20 FE 02  JSR $02FE  get
.,0BAC 85 90     STA $90
.,0BAE 20 FE 02  JSR $02FE  get
.,0BB1 20 07 03  JSR $0307  store
.,0BB4 E8        INX
.,0BB5 D0 FA     BNE $0BB1
.,0BB7 C6 90     DEC $90
```

```
.,0BB9 D0 F6     BNE $0BB1
.,0BBB 85 90     STA $90
.,0BBD 68        PLA
.,0BBE AA        TAX
.,0BBF A5 90     LDA $90
.,0BC1 E0 00     CPX #$00
.,0BC3 38        SEC
.,0BC4 B0 DB     BCS $0BA1
.,0BC6 E6 96     INC $96
.,0BC8 D0 02     BNE $0BCC
.,0BCA E6 97     INC $97
.,0BCC B1 96     LDA ($96),Y
.,0BCE 60        RTS
.,0BCF 91 91     STA ($91),Y
.,0BD1 E6 91     INC $91
.,0BD3 D0 02     BNE $0BD7
.,0BD5 E6 92     INC $92
.,0BD7 60        RTS
.,0BD8 A9 36     LDA #$36
.,0BDA 85 01     STA $01
.,0BDC A0 00     LDY #$00
.,0BDE 8C A1 02  STY $02A1
.,0BE1 A2 02     LDX #$02
.,0BE3 BD 7B 03  LDA $037B,X
.,0BE6 9D FD FF  STA $FFFD,X
.,0BE9 CA        DEX
.,0BEA 10 F7     BPL $0BE3
.,0BEC A9 08     LDA #$08
.,0BEE 20 B1 FF  JSR $FFB1
.,0BF1 A9 E0     LDA #$E0
.,0BF3 20 93 FF  JSR $FF93
.,0BF6 20 AE FF  JSR $FFAE
.,0BF9 20 44 03  JSR $0344
.,0BFC 20 A5 FF  JSR $FFA5
.,0BFF 99 00 02  STA $0200,Y
.,0C02 C8        INY
.,0C03 D0 F7     BNE $0BFC
.,0C05 A9 00     LDA #$00
.,0C07 48        PHA
.,0C08 A9 A5     LDA #$A5
.,0C0A 48        PHA
.,0C0B 60        RTS
.,0C0C A9 08     LDA #$08
.,0C0E 20 B1 FF  JSR $FFB1
.,0C11 A9 F0     LDA #$F0
.,0C13 20 93 FF  JSR $FF93
.,0C16 A0 00     LDY #$00
.,0C18 B9 6A 03  LDA $036A,Y
.,0C1B F0 06     BEQ $0C23
.,0C1D 20 A8 FF  JSR $FFA8
.,0C20 C8        INY
.,0C21 D0 F5     BNE $0C18
.,0C23 20 AE FF  JSR $FFAE
.,0C26 A9 08     LDA #$08
.,0C28 20 B4 FF  JSR $FFB4
.,0C2B A0 00     LDY #$00
.,0C2D A9 60     LDA #$60
.,0C2F 4C 96 FF  JMP $FF96
.,0C32 2D 31 32  AND $3231
.,0C35 33        ???
.,0C36 34        ???
.,0C37 35 36     AND $36,X
.,0C39 37        ???
.,0C3A 38        SEC
.,0C3B 39 30 31  AND $3130,Y
.,0C3E 32        ???
.,0C3F 33        ???
.,0C40 34        ???
.,0C41 35 36     AND $36,X
.,0C43 2F        ???
.,0C44 37        ???
.,0C45 00        BRK
.,0C46 00        BRK
.,0C47 00        BRK
.,0C48 BF        ???
.,0C49 00        BRK
.,0C4A 00        BRK
.,0C4B 3A        ???
.,0C4C 00        BRK
.,0C4D 00        BRK
.,0C4E 4C 00 00  JMP $0000
.,0C51 00        BRK
.,0C52 00        BRK
.,0C53 00        BRK
.,0C54 00        BRK
.,0C55 00        BRK
.,0C56 00        BRK
.,0C57 21 D0     AND ($D0,X)
.,0C59 19 16 00  ORA $0016,Y
.,0C5C 0A        ASL
.,0C5D 76 A3     ROR $A3,X
.,0C5F 00        BRK
.,0C60 00        BRK
.,0C61 00        BRK
.,0C62 00        BRK
.,0C63 00        BRK
.,0C64 00        BRK
.,0C65 05 08     ORA $08
.,0C67 F2        ???
.,0C68 01 00     ORA ($00,X)
.,0C6A 00        BRK
.,0C6B 00        BRK
.,0C6C 00        BRK
.,0C6D 00        BRK
.,0C6E 01 08     ORA ($08,X)
.,0C70 03        ???
.,0C71 08        PHP
.,0C72 0A        ASL
.,0C73 08        PHP
.,0C74 0A        ASL
.,0C75 08        PHP
.,0C76 00        BRK
.,0C77 A0 00     LDY #$00
.,0C79 00        BRK
.,0C7A 00        BRK
.,0C7B A0 00     LDY #$00
.,0C7D FF        ???
.,0C7E 00        BRK
.,0C7F 00        BRK
.,0C80 00        BRK
.,0C81 00        BRK
.,0C82 00        BRK
.,0C83 00        BRK
```

INC ≙ 0300

ablegen
erhalten

Byte holen

ablegen

JMP $A500

≙ 0344

Floppy
LISTEN

Sekundäradresse

Filenummer holen

Schluß? ja
ausgeben an IEC-Bus

LOOP

Floppy
TALK

Sekundäradresse

≙ 036A

16 Bytes für
Filenamen

16 Bytes für
Filenamen

ZEROPAGE

5

```
.,0C84 00          BRK
.,0C85 08          PHP
.,0C86 00          BRK
.,0C87 00          BRK
.,0C88 49 00       EOR #$00
.,0C8A 05 08       ORA $08
.,0C8C 3A          ???
.,0C8D 00          BRK
.,0C8E 00          BRK
.,0C8F 00          BRK
.,0C90 00          BRK
.,0C91 00          BRK
.,0C92 00          BRK
.,0C93 00          BRK
.,0C94 00          BRK
.,0C95 00          BRK
.,0C96 03          ???
.,0C97 4C 00 00    JMP $0000
.,0C9A 00          BRK
.,0C9B 0A          ASL
.,0C9C 07          ???
.,0C9D 03          ???
.,0C9E 07          ???
.,0C9F 00          BRK
.,0CA0 00          BRK
.,0CA1 00          BRK
.,0CA2 00          BRK
.,0CA3 00          BRK
.,0CA4 88          DEY
.,0CA5 A1 00       LDA ($00,X)
.,0CA7 00          BRK
.,0CA8 00          BRK
.,0CA9 20 00 00    JSR $0000
.,0CAC 88          DEY
.,0CAD A0 00       LDY #$00
.,0CAF 00          BRK
.,0CB0 00          BRK
.,0CB1 20 21 7F    JSR $7F21
.,0CB4 00          BRK
.,0CB5 FF          ???
.,0CB6 00          BRK
.,0CB7 25 40       AND $40
.,0CB9 01 04       ORA ($04,X)
.,0CBB 01 44       ORA ($44,X)
.,0CBD 01 86       ORA ($86,X)
.,0CBF 00          BRK
.,0CC0 81 00       STA ($00,X)
.,0CC2 00          BRK
.,0CC3 97          ???
.,0CC4 00          BRK
.,0CC5 3F          ???
.,0CC6 00          BRK
.,0CC7 FF          ???
.,0CC8 FF          ???
.,0CC9 01 00       ORA ($00,X)
.,0CCB 08          PHP
.,0CCC 10 04       BPL $0CD2
.,0CCE 01 00       ORA ($00,X)
.,0CD0 7F          ???
.,0CD1 00          BRK
.,0CD2 00          BRK
.,0CD3 00          BRK
.,0CD4 2B          ???
.,0CD5 8B          ???
.,0CD6 C9 00       CMP #$00
.,0CD8 00          BRK
.,0CD9 00          BRK
.,0CDA 00          BRK
.,0CDB 00          BRK
.,0CDC 00          BRK
.,0CDD 00          BRK
.,0CDE 00          BRK
.,0CDF 00          BRK
.,0CE0 1B          ???
.,0CE1 40          RTI
.,0CE2 D1 00       CMP ($00),Y
.,0CE4 00          BRK
.,0CE5 C8          INY
.,0CE6 50 15       BVC $0CFD
.,0CE8 00          BRK
.,0CE9 20 A5 FF    JSR $FFA5
.,0CEC 99 00 03    STA $0300,Y
.,0CEF C8          INY
.,0CF0 D0 F7       BNE $0CE9
.,0CF2 A9 08       LDA #$08
.,0CF4 20 B1 FF    JSR $FFB1
.,0CF7 A9 E0       LDA #$E0
.,0CF9 20 93 FF    JSR $FF93
.,0CFC 20 AE FF    JSR $FFAE
.,0CFF C6 01       DEC $01
.,0D01 60          RTS
.,0D02 00          BRK
.,0D03 00          BRK
.,0D04 00          BRK
.,0D05 00          BRK
.,0D06 00          BRK
.,0D07 00          BRK
.,0D08 00          BRK
.,0D09 00          BRK
.,0D0A 00          BRK
.,0D0B 00          BRK
.,0D0C 00          BRK
.,0D0D 00          BRK
.,0D0E 00          BRK
.,0D0F 00          BRK
.,0D10 00          BRK
.,0D11 00          BRK
.,0D12 00          BRK
.,0D13 BF          ???
.,0D14 34          ???
.,0D15 03          ???
.,0D16 00          BRK
.,0D17 9B          ???
.,0D18 03          ???
.,0D19 00          BRK
.,0D1A 0D 00 84    ORA $8400
.,0D1D 84 84       STY $84
.,0D1F 84 84       STY $84
.,0D21 84 84       STY $84
.,0D23 85 85       STA $85
.,0D25 85 85       STA $85
.,0D27 85 85       STA $85
.,0D29 86 A5       STX $A5
```

```
.,0D2B 86 86     STX $86
.,0D2D 86 86     STX $86
.,0D2F 86 87     STX $87
.,0D31 87        ???
.,0D32 87        ???
.,0D33 87        ???
.,0D34 87        ???
.,0D35 87        ???
.,0D36 28        PLP
.,0D37 D8        CLD
.,0D38 81 EB     STA ($EB,X)
.,0D3A 00        BRK
.,0D3B 00        BRK
.,0D3C 00        BRK
.,0D3D 00        BRK
.,0D3E 00        BRK
.,0D3F 00        BRK
.,0D40 00        BRK
.,0D41 00        BRK
.,0D42 20 33 38  JSR $3833
.,0D45 39 31 31  AND $3131,Y
.,0D48 00        BRK
.,0D49 30 30     BMI $0D7B
.,0D4B 30 30     BMI $0D7D
.,0D4D 13        ???
.,0D4E 20 71 A4  JSR $A471
.,0D51 04        ???
.,0D52 16 20     ASL $20,X
.,0D54 71 A5     ADC ($A5),Y
.,0D56 03        ???
.,0D57 13        ???
.,0D58 20 00 A0  JSR $A000
.,0D5B 71 00     ADC ($00),Y
.,0D5D BD 70 A6  LDA $A670,X
.,0D60 18        CLC
.,0D61 00        BRK
.,0D62 8D 0F 29  STA $290F
.,0D65 2A        ROL
.,0D66 8A        TXA
.,0D67 18        CLC
.,0D68 00        BRK
.,0D69 8E 00 D0  STX $D000
.,0D6C 00        BRK
.,0D6D D0 18     BNE $0D87
.,0D6F 00        BRK
.,0D70 2C FB F0  BIT $F0FB
.,0D73 18        CLC
.,0D74 00        BRK
.,0D75 2C 18 00  BIT $0018
.,0D78 8D 04 A9  STA $A904
.,0D7B AA        TAX
.,0D7C A9 04     LDA #$04
.,0D7E 51 20     EOR ($20),Y
.,0D80 48        PHA
.,0D81 49 A5     EOR #$A5
.,0D83 78        SEI
.,0D84 08        PHP
.,0D85 60        RTS
.,0D86 18        CLC
.,0D87 00        BRK
.,0D88 8E 02 A2  STX $A202
.,0D8B 00        BRK
```

"38811"

```
.,0D8C F0 C1     BEQ $0D4F
.,0D8E D0 18     BNE $0DA8
.,0D90 00        BRK
.,0D91 8D 00 C0  STA $C000
.,0D94 0F        ???
.,0D95 29 2A     AND #$2A
.,0D97 EA        NOP
.,0D98 18        CLC
.,0D99 00        BRK
.,0D9A 8D 03 85  STA $8503
.,0D9D 68        PLA
.,0D9E 1C        ???
.,0D9F 0C        ???
.,0DA0 8D EC A9  STA $A9EC
.,0DA3 F9 8F 20  SBC $208F,Y
.,0DA6 33        ???
.,0DA7 84 18     STY $18
.,0DA9 00        BRK
.,0DAA 8C 1C 00  STY $001C
.,0DAD 8D F7 29  STA $29F7
.,0DB0 1C        ???
.,0DB1 00        BRK
.,0DB2 AD 04 83  LDA $8304
.,0DB5 20 FB F0  JSR $F0FB
.,0DB8 18        CLC
.,0DB9 00        BRK
.,0DBA 2C 04 A9  BIT $A904
.,0DBD 04        ???
.,0DBE CF        ???
.,0DBF 20 14 A9  JSR $A914
.,0DC2 05 29     ORA $29
.,0DC4 8D 0F A9  STA $A90F
.,0DC7 04        ???
.,0DC8 13        ???
.,0DC9 8D 59 A9  STA $A959
.,0DCC 04        ???
.,0DCD CF        ???
.,0DCE 20 13 A9  JSR $A913
.,0DD1 73        ???
.,0DD2 85 02     STA $02
.,0DD4 A9 74     LDA #$74
.,0DD6 85 06     STA $06
.,0DD8 A9 60     LDA #$60
.,0DDA 28        PLP
.,0DDB 49 20     EOR #$20
.,0DDD 0A        ASL
.,0DDE A0 05     LDY #$05
.,0DE0 02        ???
.,0DE1 20 04 F3  JSR $F304
.,0DE4 20 45 A0  JSR $A045
.,0DE7 04        ???
.,0DE8 F3        ???
.,0DE9 20 00 A0  JSR $A000
.,0DEC 12        ???
.,0DED D0 13     BNE $0E02
.,0DEF 16 35     ASL $35,X
.,0DF1 16 EF     ASL $EF,X
.,0DF3 EB        ???
.,0DF4 EF        ???
.,0DF5 EB        ???
.,0DF6 E2        ???
```

ERROR PAGE

Stapel Bereich

Stapel

```
.,0DF7 C2        ???
.,0DF8 11 FB     ORA ($FB),Y
.,0DFA 30 03     BMI $0DFF
.,0DFC 16 35     ASL $35,X
.,0DFE 16 35     ASL $35,X
.,0E00 FE 16 A8  INC $A816,X
.,0E03 ED 1B 28  SBC $281B
.,0E06 A8        TAY
.,0E07 ED E9 ED  SBC $EDE9
.,0E0A ED 93 83  SBC $8393
.,0E0D 9A        TXS
.,0E0E 03        ???
.,0E0F 9D 9B 03  STA $039B,X
.,0E12 CA        DEX
.,0E13 10 FA     BPL $0E0F
.,0E15 68        PLA
.,0E16 AA        TAX
.,0E17 68        PLA
.,0E18 85 01     STA $01
.,0E1A 68        PLA
.,0E1B 85 00     STA $00
.,0E1D 68        PLA
.,0E1E 40        RTI
.,0E1F CB        ???
.,0E20 01 E8     ORA ($E8,X)
.,0E22 37        ???
.,0E23 2F        ???
.,0E24 FE 23 8A  INC $8A23,X
.,0E27 A3        ???
.,0E28 2D AD E9  AND $E9AD
.,0E2B A7        ???
.,0E2C 81 05     STA ($05,X)
.,0E2E 08        PHP
.,0E2F 81 80     STA ($80,X)
.,0E31 00        BRK
.,0E32 00        BRK
.,0E33 00        BRK
.,0E34 01 89     ORA ($89,X)
.,0E36 7F        ???
.,0E37 80        ???
.,0E38 00        BRK
.,0E39 00        BRK
.,0E3A 00        BRK
.,0E3B FF        ???
.,0E3C 02        ???
.,0E3D 08        PHP
.,0E3E A7        ???
.,0E3F 79 A6 9C  ADC $9CA6,Y
.,0E42 E3        ???
.,0E43 00        BRK
.,0E44 00        BRK
.,0E45 00        BRK
.,0E46 00        BRK
.,0E47 00        BRK
.,0E48 00        BRK
.,0E49 00        BRK
.,0E4A 00        BRK
.,0E4B 00        BRK
.,0E4C 00        BRK
.,0E4D 00        BRK
.,0E4E 00        BRK
.,0E4F 00        BRK
```

Stack

COL-RAM

```
.,0E50 00        BRK
.,0E51 00        BRK
.,0E52 00        BRK
.,0E53 00        BRK
.,0E54 00        BRK
.,0E55 00        BRK
.,0E56 00        BRK
.,0E57 00        BRK
.,0E58 00        BRK
.,0E59 00        BRK
.,0E5A 00        BRK
.,0E5B 00        BRK
.,0E5C 00        BRK
.,0E5D 00        BRK
.,0E5E 00        BRK
.,0E5F 00        BRK
.,0E60 00        BRK
.,0E61 00        BRK
.,0E62 00        BRK
.,0E63 00        BRK
.,0E64 00        BRK
.,0E65 00        BRK
.,0E66 00        BRK
.,0E67 00        BRK
.,0E68 00        BRK
.,0E69 00        BRK
.,0E6A 00        BRK
.,0E6B 00        BRK
.,0E6C 00        BRK
.,0E6D 00        BRK
.,0E6E 00        BRK
.,0E6F 00        BRK
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.,0E71 00        BRK
.,0E72 00        BRK
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.,0E74 00        BRK
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.,0E76 00        BRK
.,0E77 00        BRK
.,0E78 00        BRK
.,0E79 00        BRK
.,0E7A 00        BRK
.,0E7B 00        BRK
.,0E7C 00        BRK
.,0E7D 00        BRK
.,0E7E 00        BRK
.,0E7F 00        BRK
.,0E80 00        BRK
.,0E81 00        BRK
.,0E82 00        BRK
.,0E83 00        BRK
.,0E84 00        BRK
.,0E85 00        BRK
.,0E86 00        BRK
.,0E87 00        BRK
.,0E88 00        BRK
.,0E89 00        BRK
.,0E8A 00        BRK
.,0E8B 00        BRK
.,0E8C 00        BRK
```

COLOR-RAM

```
.,0E8D 00    BRK
.,0E8E 00    BRK
.,0E8F 00    BRK
.,0E90 00    BRK
.,0E91 00    BRK
.,0E92 00    BRK
.,0E93 00    BRK
.,0E94 00    BRK
.,0E95 00    BRK
.,0E96 00    BRK
.,0E97 00    BRK
.,0E98 00    BRK
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.,0E9A 00    BRK
.,0E9B 00    BRK
.,0E9C 00    BRK
.,0E9D 00    BRK
.,0E9E 00    BRK
.,0E9F 00    BRK
.,0EA0 00    BRK
.,0EA1 00    BRK
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.,0EA8 00    BRK
.,0EA9 00    BRK
.,0EAA 00    BRK
.,0EAB 00    BRK
.,0EAC 00    BRK
.,0EAD 00    BRK
.,0EAE 00    BRK
.,0EAF 00    BRK
.,0EB0 00    BRK
.,0EB1 00    BRK
.,0EB2 00    BRK
.,0EB3 00    BRK
.,0EB4 00    BRK
.,0EB5 00    BRK
.,0EB6 00    BRK
.,0EB7 00    BRK
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.,0EB9 00    BRK
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.,0EBC 00    BRK
.,0EBD 00    BRK
.,0EBE 00    BRK
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.,0EC4 00    BRK
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.,0ECA 00    BRK
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.,0ECF 00    BRK
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.,0EEC 00    BRK
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.,0EEF 00    BRK
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.,0EF4 00    BRK
.,0EF5 00    BRK
.,0EF6 00    BRK
.,0EF7 00    BRK
.,0EF8 00    BRK
.,0EF9 00    BRK
.,0EFA 00    BRK
.,0EFB 00    BRK
.,0EFC 00    BRK
.,0EFD 00    BRK
.,0EFE 00    BRK
.,0EFF 00    BRK
.,0F00 00    BRK
.,0F01 00    BRK
.,0F02 00    BRK
.,0F03 00    BRK
.,0F04 00    BRK
.,0F05 00    BRK
.,0F06 00    BRK
.,0F07 00    BRK
```

COLOR-RAM

```
.,0F08 00    BRK
.,0F09 00    BRK
.,0F0A 00    BRK
.,0F0B 00    BRK
.,0F0C 00    BRK
.,0F0D 00    BRK
.,0F0E 00    BRK
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.,0F79 00    BRK
.,0F7A 00    BRK
.,0F7B 00    BRK
.,0F7C 00    BRK
.,0F7D 00    BRK
.,0F7E 00    BRK
.,0F7F 00    BRK
.,0F80 00    BRK
.,0F81 00    BRK
.,0F82 00    BRK
```

COPYPROGRAM

COLOR-RAM

Teil 2

```
.,0F83 00    BRK
.,0F84 00    BRK
.,0F85 00    BRK
.,0F86 00    BRK
.,0F87 00    BRK
.,0F88 00    BRK
.,0F89 00    BRK
.,0F8A 00    BRK
.,0F8B 00    BRK
.,0F8C 00    BRK
.,0F8D 00    BRK
.,0F8E 00    BRK
.,0F8F 00    BRK
.,0F90 00    BRK
.,0F91 00    BRK
.,0F92 00    BRK
.,0F93 00    BRK
.,0F94 00    BRK
.,0F95 00    BRK
.,0F96 00    BRK
.,0F97 00    BRK
.,0F98 00    BRK
.,0F99 00    BRK
.,0F9A 00    BRK
.,0F9B 00    BRK
.,0F9C 00    BRK
.,0F9D 00    BRK
.,0F9E 00    BRK
.,0F9F 00    BRK
.,0FA0 00    BRK
.,0FA1 00    BRK
.,0FA2 00    BRK
.,0FA3 00    BRK
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.,0FA8 00    BRK
.,0FA9 00    BRK
.,0FAA 00    BRK
.,0FAB 00    BRK
.,0FAC 00    BRK
.,0FAD 00    BRK
.,0FAE 00    BRK
.,0FAF 00    BRK
.,0FB0 00    BRK
.,0FB1 00    BRK
.,0FB2 00    BRK
.,0FB3 00    BRK
.,0FB4 00    BRK
.,0FB5 00    BRK
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.,0FF8 00    BRK
.,0FF9 00    BRK
.,0FFA 00    BRK
.,0FFB 00    BRK
.,0FFC 00    BRK
.,0FFD 00    BRK
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COLOR-RAM

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.,102F 00        BRK
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,1039 00         BRK
,103A 00         BRK
,103B 00         BRK
```

COLORARM

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.,104B 00        BRK
.,104C 00        BRK
.,104D 00        BRK
.,104E 00        BRK
.,104F 00        BRK
.,1050 00        BRK
.,1051 00        BRK
.,1052 00        BRK
.,1053 00        BRK
.,1054 1B        ???
.,1055 01 D1     ORA ($D1,X)
.,1057 00        BRK
.,1058 00        BRK
.,1059 C8        INY
.,105A 00        BRK
.,105B 15 71     ORA $71,X
.,105D F0 00     BEQ $105F
.,105F 00        BRK
.,1060 00        BRK
.,1061 00        BRK
.,1062 00        BRK
.,1063 F0 F0     BEQ $1055
.,1065 F1 F2     SBC ($F2),Y
.,1067 F3        ???
.,1068 F4        ???
.,1069 F0 F6     BEQ $1061
.,106B F2        ???
.,106C F3        ???
.,106D F4        ???
.,106E F5 F6     SBC $F6,X
.,1070 F7        ???
.,1071 FC        ???
.,1072 06 4F     ASL $4F   nach $0400
.,1074 09 00     ORA #$00
```