

26. 10.94
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Area-Offset \$FA0: Hindergr. Col.

Bitmap Manager

Author: Hannes Sommer

..8000 4C 27 8F JMP \$8F27			
..8003 A9 1B LDA #\$1B	von 8804	AGSP	
..8005 8D 11 DO STA \$D011	{ Normalinhalt		
..8008 A9 2C LDA #\$2C	auf 2. PC		
..800A CD 12 DO CMP \$D012	warten		
..800D DO FB BNE \$800A			
..800F A2 01 LDX #\$01	{ 6 Zyklen		
..8011 CA DEX			
..8012 DO FD BNE \$8011			
..8014 20 18 80 JSR \$8018			
..8017 60 RTS			
..8018 EA NOP			
..8019 EA NOP			
..801A EA NOP			
..801B EA NOP			
..801C EA NOP			
..801D EA NOP			
..801E EA NOP			
..801F 21 EA BIT \$EA			
..8021 BD 08 81 LDA \$8108,X	Wert aus Tab.		
..8024 CE 2F DO DEC \$D02F	6 Zyklen		
..8027 8D 11 DO STA \$D011	in Register		
..802A 8C 27 DO STY \$D027	Farbe v. Spr. 0		
..802D EE 2F DO INC \$D02F	6 Zyklen		
..8030 24 EA BIT \$EA			
..8032 EA NOP			
..8033 EA NOP			
..8034 EA NOP			
..8035 EA NOP			
..8036 BD 28 81 LDA \$8128,X			
..8039 AB TAY			
..803A EB INX			
..803B E0 02 CPX #\$02	84FS		
..803D DO E2 BNE \$8021	schon alle Zeilen?		
..803F 2D 07 81 LDA \$8109,X	Wert aus Tab.		
..8042 CE 2F DO DEC \$D02F			
..8045 8D 11 DO STA \$D011	ablegen		
..8048 8C 27 DO STY \$D027	Farbe v. Spr. 0		
..804B EE 2F DO INC \$D02F			
..804E 24 EA BIT \$EA			
..8050 EA NOP			
..8051 EA NOP			
..8052 EA NOP			
..8053 EA NOP			
..8054 BD 28 81 LDA \$8128,X			
..8057 AB TAY			
..8058 EB INX			
..8059 E0 1C CPX #\$1C			
..805B D0 E2 BNE \$803F			
..805D A2 01 LDX #\$01			
..805F CA DEX			
..8060 DO FD BNE \$805F	{ 6 Zyklen		
..8062 A9 59 LDA #\$59	{ B. Bildschirm aus		
..8064 8D 11 DO STA \$D011			
..8067 A2 4F LDX #\$4F			
..8069 A9 5F LDA #\$5F			
..806B EC 12 DO CPX \$D012	aus Zeile 14F		
..806E DO FB BNE \$806B	warten		
..8070 A2 03 LDX #\$03			
..8072 CA DEX			
..8073 DO FD BNE \$8072	{ 46 Zyklen		
..8075 8D 11 DO STA \$D011	Bildschirm an		
..8078 A9 DO LDA #\$D0	Mehrfarbe		
..807A 0D C7 BE ORA \$8EC7	+ Scroll X		
..807D 8D 16 DO STA \$D016	ablegen		
..8080 A9 0F LDA #\$0F			
..8082 8D 2F DO STA \$D02F			
..8085 A9 18 LDA #\$18			
..8087 8D 18 DO STA \$D018	{ Daten-Position		
..808A A2 02 LDX #\$02			
..808C CA DEX	{ 11 Zyklen		
..808D DO FD BNE \$808C			
..808F EA NOP	2 Zyklen		
..8090 A9 59 LDA #\$59			
..8092 D0 00 BNE \$8094			
..8094 C9 C9 CMP #\$C9			
..8096 C9 C9 CMP #\$C9			
..8098 C9 C9 CMP #\$C9			
..809A C9 C9 CMP #\$C9			
..809C C9 C9 CMP #\$C9			
..809E C9 C9 CMP #\$C9			
..80A0 C9 C9 CMP #\$C9			
..80A2 C9 C9 CMP #\$C9			
..80A4 C9 C9 CMP #\$C9			
..80A6 C9 C9 CMP #\$C9			
..80A8 C9 C9 CMP #\$C9			
..80AA C9 C9 CMP #\$C9			
..80AC C9 C9 CMP #\$C9			
..80AE C9 C9 CMP #\$C9			
..80B0 C9 C9 CMP #\$C9			
..80B2 C9 C9 CMP #\$C9			
..80B4 C9 C9 CMP #\$C9			
..80B6 C9 C9 CMP #\$C9			
..80B8 C9 C9 CMP #\$C9			
..80BA C9 C9 CMP #\$C9			
..80BC C9 C9 CMP #\$C9			
..80BE C9 C9 CMP #\$C9			
..80C0 24 EA BIT \$EA			
..80C2 8D 11 DO STA \$D011	neue Zeile beginn		
..80C5 A2 01 LDX #\$01	{ 6 Zyklen		
..80C7 CA DEX			
..80C8 DO FD BNE \$80C7			
..80CA A2 FF LDX #\$FF			
..80CC AD 12 DO LDA \$D012	{ auf nächste		
..80CF CD 12 DO CMP \$D012	Zeile warten		
..80D2 F0 FB BEQ \$80CF			
..80D4 29 07 AND #\$07	Scroll - Bits		
..80D6 09 50 ORA #\$50	Erw. Farbe + Scroll		
..80D8 8D 11 DO STA \$D011			
..80DB EB INX			
..80DD E0 05 CPX #\$05	84E3		
..80DE DO EC BNE \$80DD			
..80E0 BD 00 B1 LDA \$B100,X			
..80E3 18 CLC			
..80E4 69 43 ADC #\$43	{ Timing		
..80E6 AB TAY			
..80E7 88 DEY			
..80E8 DO FD BNE \$80E7			
..80EA AD 11 DO LDA \$D011			
..80ED 29 BF AND #\$BF	Erw. Farbe aus		
..80EF 09 20 ORA #\$20	84F0, 84F3		
..80F1 8D 11 DO STA \$D011	schreiben		

80DD = 4 fein

803C = 4 grob

Schlupf

```

..,80F4 60      RTS
..,80F5 00      BRK
..,80F6 00      BRK
..,80F7 00      BRK
..,80F8 00      BRK
..,80F9 00      BRK
..,80FA 00      BRK
..,80FB 00      BRK
..,80FC 00      BRK
..,80FD 00      BRK
..,80FE 00      BRK
..,80FF 00      BRK
..,8100 5C      ???
..,8101 51 45    EOR ($45),Y
..,8103 38      SEC
..,8104 2C 1E 13 BIT $131E
..,8107 0C      ???
..,8108 5E 5F 5B LSR $5B5F,X
..,810B 59 5A 5B EOR $5B5A,Y
..,810E 5C      ???
..,810F 5D 5E 5F EOR $5F5E,X
..,8112 5B      CLI
..,8113 59 5A 5B EOR $5B5A,Y
..,8116 5C      ???
..,8117 5D 5E 5F EOR $5F5E,X
..,811A 5B      CLI
..,811B 59 5A 5B EOR $5B5A,Y
..,811E 5C      ???
..,811F 5D 5E 5F EOR $5F5E,X
..,8122 5B      CLI
..,8123 59 5A 5B EOR $5B5A,Y
..,8126 5C      ???
..,8127 5D 00 00 EOR $0000,X
..,812A 00      BRK
..,812B 00      BRK
..,812C 00      BRK
..,812D 01 01    ORA ($01,X)
..,812F 01 01    ORA ($01,X)
..,8131 01 01    ORA ($01,X)
..,8133 01 01    ORA ($01,X)
..,8135 01 01    ORA ($01,X)
..,8137 01 01    ORA ($01,X)
..,8139 01 01    ORA ($01,X)
..,813B 01 01    ORA ($01,X)
..,813D 01 01    ORA ($01,X)
..,813F 01 01    ORA ($01,X)
..,8141 01 01    ORA ($01,X)
..,8143 AD DD 80 LDA $B0DD Y fein
..,8146 00      SEC
..,8147 ED 20 82 SBC $8220
..,814A ED 20 80 STA $80DD
..,814D B0 2D    BCS $817C
..,814F 29 07    AND #$07
..,8151 8D DD 80 STA $80DD
..,8154 EE 8B 86 INC $868B
..,8157 7E C6 8E INC $8EC6
..,815A 7E C6 8E LDA $8EC6
..,815D C9 1A    CMP #$1A
..,815F D0 1B    BNE $817C
..,8161 A9 01    LDA #$01
..,8163 8D C6 8E STA $8EC6
..,8166 AD 93 80 LDA $8093

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..,8169 38      SEC
..,816A E9 18    SBC #$18 -24
..,816C 8D C3 80 STA $8093
..,816F 1C 0B    BCS $817C
..,8171 18      CLC
..,8172 69 28    ADC #$28 +40
..,8174 8D 93 80 STA $8093 X grob
..,8177 A9 00    LDA #$00
..,8179 8D C6 8E STA $8EC6
..,817C AD DD 80 LDA $80DD Y fein
..,817F 18      CLC
..,8180 6D 21 82 ADC $8221 +1
..,8183 8D DD 80 STA $80DD
..,8186 C9 08    CMP #$08
..,8188 90 28    BCC $81B2
..,818A 29 07    AND #$07
..,818C 8D DD 80 STA $80DD
..,818F EE EE 86 INC $86EE
..,8192 CE C6 8E DEC $8EC6
..,8195 10 1B    BPL $81B2
..,8197 A9 18    LDA #$18
..,8199 8D C6 8E STA $8EC6
..,819C AD 93 80 LDA $8093 X grob
..,819F 18      CLC
..,81A0 69 18    ADC #$18 +24
..,81A2 8D 93 80 STA $8093
..,81A5 C9 28    CMP #$28 =40?
..,81A7 90 09    BCC $81B2 kleiner
..,81A9 38      SEC
..,81AA E9 28    SBC #$28 -40
..,81AC 8D 93 80 STA $8093 X grob
..,81AF EE C6 8E INC $8EC6
..,81B2 AD 97 8E LDA $8EC7 X fein
..,81B5 38      SEC
..,81B6 ED 22 82 SBC $8222 -" -> "
..,81B9 8D C6 8E STA $8EC7
..,81BC B0 1F    BCS $81DD
..,81BE 29 07    AND #$07
..,81C0 8D C7 8E STA $8EC7
..,81C3 EE C3 80 INC $8093
..,81C6 EE 51 87 INC $8751
..,81C9 AD 93 80 LDA $8093
..,81CC C9 28    CMP #$28
..,81CE D0 0F    BNE $81DD
..,81D0 A9 00    LDA #$00
..,81D2 8D 93 80 STA $8093
..,81D5 A9 00    LDA #$00
..,81D7 8D 22 82 STA $8222
..,81DA 4C 57 81 JMP $8157
..,81DD AD C7 8E LDA $8EC7
..,81E0 18      CLC
..,81E1 6D 23 82 ADC $8223 +1
..,81E4 8D C7 8E STA $8EC7
..,81E7 C9 08    CMP #$08
..,81E9 90 1D    BCC $8208
..,81EB 29 07    AND #$07
..,81ED 8D C7 8E STA $8EC7
..,81F0 CE 93 80 DEC $8093
..,81F3 EE AB 87 INC $87AB
..,81F6 AD 93 80 LDA $8093
..,81F9 10 0D    BPL $8208

```

Scroll

*"v" Pixel noch unten abzielen
zurückschreiben
liberant
untere 8 Bits
zurückschreiben
Scroll aktivieren*

X grob

```

81FB A9 27 LDA #27
81FD 8D 93 80 STA #8093
8200 89 00 LDA #00
8202 8D 23 82 STA #8223
8205 4C 92 81 JMP #8192
8208 AD C6 8E LDA #8EC6
820B 18 CLC
820C 89 02 ADC #02
820E 8D 3C 80 STA #803C
8211 A9 00 LDA #00
8213 8D 20 82 STA #8220
8216 8D 21 82 STA #8221
8219 8D 22 82 STA #8222
821C 8D 23 82 STA #8223
821F 60 RTS
8220 00 BRK
8221 00 BRK
8222 00 BRK
8223 00 BRK
8224 8C AF 82 STY #82AF
8227 8D 73 83 STA #8373
822A EE BF 02 INC #02BF
822D A5 88 LDA #88
822F 18 CLC
8230 7D C7 83 ADC #83C7,X
8233 8D B8 82 STA #82B8
8236 A5 89 LDA #89
8238 7D C8 83 ADC #83C8,X
823B 8D B9 82 STA #82B9
823E A5 8A LDA #8A
8240 18 CLC
8241 7D C9 83 ADC #83C9,X
8244 8D BF 83 STA #831E
8247 A5 8B LDA #8B
8249 7D CA 83 ADC #83CA,X
824C 8D BF 83 STA #831F
824F A5 8C LDA #8C
8251 18 CLC
8252 7D CB 83 ADC #83CB,X
8255 8D C0 83 STA #832A
8258 8D C1 83 STA #8330
825B A5 8D LDA #8D
825D 7D CC 83 ADC #83CC,X
8260 8D C2 83 STA #832B
8263 69 94 ADC #94
8265 8D C3 83 STA #8331
8268 C9 D0 CMP #DC
826A 90 18 BCC #8284
826C AD 1F 83 LDA #831F
826F 38 SEC
8270 E9 20 SBC #20
8272 8D 1F 83 STA #831F
8275 AD 2B 83 LDA #832B
8278 38 SEC
8279 E9 04 SBC #04
827B 8D 2B 83 STA #832B
827E 18 CLC
827F 69 94 ADC #94
8281 8D 31 83 STA #8331
8284 BD CD 83 LDA #83CD,X
8287 8D BF 82 STA #82BF
828A BD CE 83 LDA #83CE,X

```

Scroll-Flags
 Löschen

Scroll-Flags
 Zeile/Spalte
 von 86E9 kop-

```

828D 8D 37 83 STA #8337
8290 BD CF 83 LDA #83CF,X
8293 8D 3F 83 STA #833F
8296 BD D0 83 LDA #83D0,X
8299 BD 5B 83 STA #835B
829C BD D1 83 LDA #83D1,X
829F 8D D0 82 STA #82D0
82A2 BD D2 83 LDA #83D2,X
82A5 8D E1 82 STA #82E1
82A8 BD D3 83 LDA #83D3,X
82AB 8D D0 83 STA #83BD
82AE A9 28 LDA #28
82B0 EE AF 82 INC #82AF
82B3 29 01 AND #01
82B5 D0 26 BNE #82DD
82B7 AE 14 C0 LDX #C014
82BA AD B8 82 LDA #82B8
82BD 18 CLC
82BE 69 01 ADC #01
82C0 8D B8 82 STA #82B8
82C3 AD B9 82 LDA #82B9
82C6 69 00 ADC #00
82C8 8D B9 82 STA #82B9
82CB BD D0 04 LDA #0400,X
82CE 18 CLC
82CF 69 00 ADC #00
82D1 85 80 STA #80
82D3 BD D0 05 LDA #0500,X
82D6 69 00 ADC #00
82D8 85 81 STA #81
82DA 4C 5A 82 JMP #82EA
82DD A5 80 LDA #80
82DF 18 CLC
82E0 69 0A ADC #0A
82E2 85 80 STA #80
82E4 A5 81 LDA #81
82E6 69 00 ADC #00
82E8 85 81 STA #81
82EA AD B9 82 LDA #82B9
82ED C9 D0 CMP #C0
82EF 90 0F BCC #8300
82F1 C9 CF CMP #CF
82F3 F0 84 BEQ #82F9
82F5 B0 09 BCS #8300
82F7 90 20 BCC #8319
82F9 AD B8 82 LDA #82B8
82FC C9 A0 CMP #A0
82FE B0 00 BCS #8300
8300 AD 1E 83 LDA #831E
8303 8D 11 83 STA #8311
8306 AD 1F 83 LDA #831F
8309 BD 12 83 STA #8312
830C A0 07 LDY #07
830E A9 00 LDA #00
8310 99 18 7E STA #7E18,Y
8313 B8 DEY
8314 10 FA BPL #8310
8316 4C 32 83 JMP #8332
8319 A0 07 LDY #07
831B B1 80 LDA (#80),Y
831D 99 80 62 STA #6280,Y

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,8320 88      DEY
,8321 10 F8    BPL $831B
,8323 A0 08    LDY #$08
,8325 B1 80    LDA ($80),Y
,8327 F0 03    BEQ $832C
,8329 8D 50 44 STA $4450
,832C C8      INY
,832D B1 80    LDA ($80),Y
,832F 8D 50 D8 STA $D850
,8332 AD 1E 83 LDA $831E
,8335 18      CLC
,8336 69 08    ADC #$08
,8338 8D 1E 83 STA $831E
,833B AD 1F 83 LDA $831F
,833E 69 00    ADC #$00
,8340 8D 1E 83 STA $831F
,8343 C9 80    CMP #$80
,8345 90 0F    BCC $8356
,8347 38      SEC
,8348 E9 20    SBC #$20
,834A 8D 1F 83 STA $831F
,834D AD 2B 83 LDA $832B
,8350 38      SEC
,8351 E9 04    SBC #$04
,8353 8D 2B 83 STA $832B
,8356 AD 2A 83 LDA $832A
,8359 18      CLC
,835A 69 01    ADC #$01
,835C 8D 2A 83 STA $832A
,835F 8D 30 83 STA $8330
,8362 AD 2B 83 LDA $832B
,8365 69 00    ADC #$00
,8367 8D 2B 83 STA $832B
,836A 69 94    ADC #$94
,836C 8D 31 83 STA $8331
,836F EE 73 83 INC $8373
,8372 A9 50    LDA #$50
,8374 C9 28    CMP #$28
,8376 D0 41    BNE $83B9
,8378 4E 89 83 JMP $8389
,837B AD 1E 83 LDA $831E
,837E 38      SEC
,837F E9 40    SBC #$40
,8381 8D 1E 83 STA $831E
,8384 AD 1F 83 LDA $831F
,8387 E9 01    SBC #$01
,8389 8D 1F 83 STA $831F
,838C C9 60    CMP #$60
,838E B0 0F    BCS $839F
,8390 18      CLC
,8391 69 20    ADC #$20
,8393 8D 1F 83 STA $831F
,8396 AD 2B 83 LDA $832B
,8399 18      CLC
,839A 69 04    ADC #$04
,839C 8D 2B 83 STA $832B
,839F AD 2A 83 LDA $832A
,83A2 38      SEC
,83A3 E9 28    SBC #$28
,83A5 8D 2A 83 STA $832A
,83A8 8D 30 83 STA $8330
,83AB AD 2B 83 LDA $832B
,83AE E9 00    SBC #$00

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,83B0 8D 2B 83 STA $832B
,83B3 18      CLC
,83B4 69 94    ADC #$94
,83B6 8D 31 83 STA $8331
,83B9 CE 8D 83 DEC $83BD
,83BC A9 00    LDA #$00
,83BE F0 03    BEQ $83C3
,83C0 4C 1E 82 JMP $82AE
,83C3 CE B7 02 DEC $02BF
,83C6 60      RTS
,83C7 E8      INX
,83C8 03      ???
,83C9 80      ???
,83CA 1B      ???
,83CB 70 03    BVS $83D0
,83CD 01 08    ORA ($08,X)
,83CF 00      BRK
,83D0 01 14    ORA ($14,X)
,83D2 0A      ASL
,83D3 2B      PLP
,83D4 00      BRK
,83D5 00      BRK
,83D6 00      BRK
,83D7 E8      INX
,83D8 03      ???
,83D9 80      ???
,83DA 1B      ???
,83DB 70 03    BVS $83E0
,83DD 01 08    ORA ($08,X)
,83DF 00      BRK
,83E0 01 00    ORA ($00,X)
,83E2 0A      ASL
,83E3 2B      PLP
,83E4 00      BRK
,83E5 00      BRK
,83E6 00      BRK
,83E7 00      BRK
,83E8 00      BRK
,83E9 80      ???
,83EA 02      ???
,83EB 50 00    BVC $83ED
,83ED 01 08    ORA ($08,X)
,83EF 00      BRK
,83F0 01 00    ORA ($00,X)
,83F2 0A      ASL
,83F3 2B      PLP
,83F4 00      BRK
,83F5 00      BRK
,83F6 00      BRK
,83F7 00      BRK
,83F8 00      BRK
,83F9 80      ???
,83FA 02      ???
,83FB 50 00    BVC $83FD
,83FD 01 08    ORA ($08,X)
,83FF 00      BRK
,8400 01 14    ORA ($14,X)
,8402 0A      ASL
,8403 2B      PLP
,8404 00      BRK
,8405 00      BRK

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..,8406 00	BRK
..,8407 13	???
..,8408 00	BRK
..,8409 7B	SEI
..,840A 02	???
..,840B 4F	???
..,840C 00	BRK
..,840D 64	???
..,840E 40	RTI
..,840F 01 28	ORA (\$28,X)
..,8411 0A	ASL
..,8412 14	???
..,8413 16 00	ASL \$00,X
..,8415 00	BRK
..,8416 00	BRK
..,8417 13	???
..,8418 00	BRK
..,8419 7B	SEI
..,841A 02	???
..,841B 4F	???
..,841C 00	BRK
..,841D 64	???
..,841E 40	RTI
..,841F 01 28	ORA (\$28,X)
..,8421 00	BRK
..,8422 14	???
..,8423 16 00	ASL \$00,X
..,8425 00	BRK
..,8426 00	BRK
..,8427 00	BRK
..,8428 00	BRK
..,8429 4B	PHA
..,842A 01 29	ORA (\$29,X)
..,842C 00	BRK
..,842D 64	???
..,842E 40	RTI
..,842F 01 28	ORA (\$28,X)
..,8431 00	BRK
..,8432 14	???
..,8433 16 00	ASL \$00,X
..,8435 00	BRK
..,8436 00	BRK
..,8437 00	BRK
..,8438 00	BRK
..,8439 4B	PHA
..,843A 01 29	ORA (\$29,X)
..,843C 00	BRK
..,843D 64	???
..,843E 40	RTI
..,843F 01 28	ORA (\$28,X)
..,8441 0A	ASL
..,8442 14	???
..,8443 16 00	ASL \$00,X
..,8445 00	BRK
..,8446 00	BRK
..,8447 A9 00	LDA #\$00
..,8449 AA	TAX
..,844A 8D 53 84	STA \$B453
..,844D A9 E0	LDA #\$E0
..,844F 8D 5E 84	STA \$B45E
..,8452 A9 00	LDA #\$00
..,8454 9D 00 04	STA \$0400,X

..,8457 18	CLC
..,8458 69 28	ADC #\$28 = 40
..,845A 8D 53 84	STA \$B453
..,845B A9 08	LDA #\$08
..,845F 9D 00 05	STA \$0500,X
..,8462 69 00	ADC #\$00
..,8464 8D 5E 84	STA \$B45E
..,8467 E8	INX
..,8468 D0 E8	BNE \$B452
..,846A A2 00	LDX #\$00 <i>unnötig</i>
..,846C 8E 73 84	STX \$B473
..,846F 8E 7E 84	STX \$B47E
..,8472 A9 88	LDA #\$88
..,8474 9D C8 04	STA \$04C8,X
..,8477 18	CLC
..,8478 69 64	ADC #\$64
..,847A 8D 73 84	STA \$B473
..,847D A9 13	LDA #\$13
..,847F 9D C8 05	STA \$05C8,X
..,8482 69 00	ADC #\$00
..,8484 8D 7E 84	STA \$B47E
..,8487 E8	INX
..,8488 E0 32	CPX #\$32
..,848A D0 E6	BNE \$B472
..,848C A2 00	LDX #\$00
..,848E 8E 9B 84	STX \$B49B
..,8491 8E 46 84	STX \$B4A6
..,8494 8E 80 84	STX \$B4B0
..,8497 8E 8B 84	STX \$B4BB
..,849A A9 00	LDA #\$00
..,849C 9D 00 06	STA \$0600,X
..,849F 18	CLC
..,84A0 69 28	ADC #\$28
..,84A2 8D 9B 84	STA \$B49B
..,84A5 A9 05	LDA #\$05
..,84A7 9D 20 06	STA \$0620,X
..,84AA 69 00	ADC #\$00
..,84AC 8D A6 84	STA \$B4A6
..,84AF A9 00	LDA #\$00
..,84B1 9D 40 06	STA \$0640,X
..,84B4 18	CLC
..,84B5 69 40	ADC #\$40
..,84B7 8D 80 84	STA \$B4B0
..,84BA A9 28	LDA #\$28
..,84BC 9D 80 06	STA \$0680,X
..,84BF 69 01	ADC #\$01
..,84C1 8D BB 84	STA \$B4BB
..,84C4 E8	INX
..,84C5 E0 20	CPX #\$20
..,84C7 D0 D1	BNE \$B49A
..,84C9 A9 00	LDA #\$00
..,84CB 85 88	STA \$B8
..,84CD A9 C0	LDA #\$C0
..,84CF 85 89	STA \$B9
..,84D1 A9 00	LDA #\$00
..,84D3 85 8A	STA \$BA
..,84D5 A9 60	LDA #\$60
..,84D7 85 8B	STA \$BB
..,84D9 A9 00	LDA #\$00
..,84DB 85 8C	STA \$BC
..,84DD A9 44	LDA #\$44

Tabellenanlegen
von 8646

Area = \$C000

Ziel
Bitmap = \$6000

Ziel
Screen \$4400

```

.,84DF 85 8D STA $8D
.,84E1 A9 05 LDA #$05
.,84E3 8D DD 80 STA $B0DD
.,84E6 A9 16 LDA #$16
.,84E8 8D 8B 8B STA $88CB
.,84EB 8D DD 8B STA $88DD
.,84EE A9 20 LDA #$20
.,84F0 8D F0 80 STA $80F0
.,84F3 A9 02 LDA #$02
.,84F5 8D 3C 80 STA $803C
.,84F8 A9 00 LDA #$00
.,84FA 8D C6 8E STA $8EC6
.,84FD 8D 8A 0D STA $8093
.,8500 8D C7 8E STA $8EC7
.,8503 8D CA 8E STA $8ECA
.,8506 8D C9 8E STA $8EC9
.,8509 8D CC 8E STA $8ECC
.,850C 8D CB 8E STA $8ECB
.,850E 60 RTS
.,8510 8D D2 8E STA $8ED2
.,8513 8D D3 8E STY $8ED3
.,8516 18 CLC
.,8517 79 D3 04 ADC $04CB,Y
.,851A 85 FA STA $FA
.,851C A9 00 LDA #$00
.,851E 79 D3 05 ADC $05CB,Y
.,8521 85 FB STA $FB
.,8523 A0 00 LDY #$00
.,8525 B1 FA LDA ($FA),Y
.,8527 48 PHA
.,8528 8A TXA
.,8529 91 FA STA ($FA),Y
.,852B BD 00 04 LDA $0400,X
.,852E 85 FA STA $FA
.,8530 BD 00 05 LDA $0500,X
.,8533 85 FB STA $FB
.,8535 A5 8A LDA $8A
.,8537 8D 0E 86 STA $860E
.,853A A5 8B LDA $8B
.,853C 8D 0F 86 STA $860F
.,853F A5 8C LDA $8C
.,8541 8D 08 86 STA $8608
.,8544 8D 02 86 STA $8602
.,8547 A5 8D LDA $8D
.,8549 8D 09 86 STA $8609
.,854C 18 CLC
.,854D 69 94 ADC #$94
.,854F 8D 03 86 STA $8603
.,8552 AD D3 8E LDA $8ED3
.,8555 38 SEC
.,8556 ED CB 8E SBC $8ECB
.,8559 C9 0C CMP #$0C
.,855B 90 02 BCC $855F
.,855D 68 PLA
.,855E 60 RTS
.,855F 0A ASL
.,8560 AB TAY
.,8561 A9 00 LDA #$00
.,8563 8D 24 86 STA $8624
.,8566 AD D2 8E LDA $8ED2
.,8569 38 SEC
.,856A ED CC 8E SBC $8ECC

```

Block Scrolling
nach unten
und nach oben

Block setzen

A = X-Pos
Y = Y-Pos
X = Zeilen

```

.,856D C9 14 CMP #$14
.,856F B0 EC BCS $855D
.,8571 0A ASL
.,8572 0A ASL
.,8573 0A ASL
.,8574 0A ASL
.,8575 8D 23 86 STA $8623
.,8578 2E 24 86 ROL $8624
.,857B AD 23 86 LDA $8623
.,857E 18 CLC
.,857F 79 42 06 ADC $0642,Y
.,8582 8D 23 86 STA $8623
.,8585 AD 24 86 LDA $8624
.,8588 79 62 06 ADC $0662,Y
.,858B 8D 24 86 STA $8624
.,858E A9 00 LDA #$00
.,8590 8D 26 86 STA $8626
.,8593 AD D2 8E LDA $8ED2
.,8596 38 SEC
.,8597 ED CC 8E SBC $8ECC
.,859A 0A ASL
.,859B 18 CLC
.,859C 79 02 06 ADC $0602,Y
.,859F 8D 25 86 STA $8625
.,85A2 AD 26 86 LDA $8626
.,85A5 79 22 06 ADC $0622,Y
.,85A8 8D 26 86 STA $8626
.,85AB A9 00 LDA #$00
.,85AD 8D B1 85 STA $85B1
.,85B0 A9 04 LDA #$04
.,85B2 C9 04 CMP #$04
.,85B4 F0 6B BEQ $8621
.,85B6 EE B1 85 INC $85B1
.,85B9 0A ASL
.,85BA 0A ASL
.,85BB AA TAX
.,85BC AD 0E 86 LDA $860E
.,85BF 18 CLC
.,85C0 7D 23 86 ADC $8623,X
.,85C3 8D 0E 86 STA $860E
.,85C6 AD 0F 86 LDA $860F
.,85C9 7D 24 86 ADC $8624,X
.,85CC 8D 0F 86 STA $860F
.,85CF C9 80 CMP #$80
.,85D1 90 0F BCC $85E2
.,85D3 38 SEC
.,85D4 E9 20 SBC #$20
.,85D6 8D 0F 86 STA $860F
.,85D9 AD 09 86 LDA $8609
.,85DC 38 SEC
.,85DD E9 04 SBC #$04
.,85DF 8D 09 86 STA $8609
.,85E2 AD 08 86 LDA $8608
.,85E5 18 CLC
.,85E6 7D 25 86 ADC $8625,X
.,85E9 8D 08 86 STA $8608
.,85EC 8D 02 86 STA $8602
.,85EF AD 09 86 LDA $8609
.,85F2 7D 26 86 ADC $8626,X
.,85F5 8D 09 86 STA $8609
.,85F8 69 94 ADC #$94

```

schluß!

```

..85FA 8D 03 86 STA $B603
..85FD 00 09 LDY #$09
..85FF 00 FA LDA ($FA),Y
..8601 8D 5D DB STA $DB5D
..8604 8E DEY
..8605 B1 FA LDA ($FA),Y
..8607 8D 5D 47 STA $475D
..860A 88 DEY
..860B B1 FA LDA ($FA),Y
..860D 99 EB 7A STA $7AEB,Y
..8610 88 DEY
..8611 00 F8 BPL $B60B
..8613 A5 FA LDA $FA
..8615 4B CLC
..8616 69 0A ADC #$0A
..8618 B5 FA STA $FA
..861A 90 54 BCC $B5B0
..861C E6 FB INC $FB
..861E 4C B0 85 JMP $B5B0
..8621 68 PLA
..8622 60 RTS

```

```

..8623 90 0F BCC $B634
..8625 F2 ???
..8626 01 08 ORA ($08,X)
..8628 00 BRK
..8629 01 00 ORA ($00,X)
..862B 38 SEC
..862C 01 27 ORA ($27,X)
..862E 00 BRK
..862F 08 PHP
..8630 00 BRK
..8631 01 00 ORA ($00,X)

```

```

..8633 A9 00 LDA #$00
..8635 8D 20 D0 STA $D020
..8638 8D 21 D0 STA $D021
..863B A2 3E LDX #$3E
..863D 8D EB 8E LDA $BEEB,X
..8640 9D 40 40 STA $4040,X
..8643 CA DEX
..8644 10 F7 BPL $B63D
..8646 20 47 84 JSR $B447
..8649 78 SEI
..864A A9 51 LDA #$51
..864C 8D FE FF STA $FFFE
..864F A9 88 LDA #$88
..8651 8D FF FF STA $FFFF
..8654 A9 67 LDA #$67
..8656 8D FA FF STA $FFFA
..8659 A9 88 LDA #$88
..865B 8D FB FF STA $FFFB
..865E A9 24 LDA #$24
..8660 8D 12 D0 STA $D012
..8663 A9 1B LDA #$1B
..8665 8D 11 D0 STA $D011
..8668 A9 81 LDA #$81
..866A 8D 1A D0 STA $D01A
..866D A9 C6 LDA #$C6
..866F 8D 00 DD STA $DD00
..8672 A9 35 LDA #$35
..8674 85 01 STA $01

```

Tab.
f.
Block
schon

Start Editor

Bildschirm
schwarz

Sprite kopieren

Tabellen anlegen

IRQ = \$8851

NMI = \$8867 = RTI

Zeile \$24

\$D011 Normalinhalt

Raster-IRQ an

VIC = \$4000

ROM aus

```

..8676 5B CLI
..8677 AD D5 8E LDA $8ED5
..867A 29 0F AND #$0F
..867C 8D 20 D0 STA $D020
..867F A9 00 LDA #$00
..8681 8D 8B 86 STA $868B
..8684 8D D6 8E STA $8ED6
..8687 8D D7 8E STA $8ED7
..868A A9 00 LDA #$00
..868C F0 5F BEQ $86ED
..868E CE 8B 86 DEC $868B
..8691 EE C9 8E INC $8EC9
..8694 A2 00 LDX #$00
..8696 AD C9 8E LDA $8EC9
..8699 29 01 AND #$01
..869B F0 10 BEQ $86AD
..869D A2 10 LDX #$10
..869F EE CE 8E INC $8ECB
..86A2 A5 88 LDA $88
..86A4 18 CLC
..86A5 69 64 ADC #$64
..86A7 B5 88 STA $88
..86A9 90 02 BCC $86AD
..86AB E6 89 INC $89
..86AD A5 8A LDA $8A
..86AF 18 CLC
..86B0 69 40 ADC #$40
..86B2 B5 8A STA $8A
..86B4 A5 8B LDA $8B
..86B6 69 01 ADC #$01
..86B8 B5 8B STA $8B
..86BA C9 E0 CMP #$80
..86BC 90 0C BCC $86CA
..86BE 38 SEC
..86BF E9 20 SBC #$20
..86C1 85 8B STA $8B
..86C3 A5 8D LDA $8D
..86C5 38 SEC
..86C6 E9 04 SBC #$04
..86C8 85 8D STA $8D
..86CA A5 8C LDA $8C
..86CC 18 CLC
..86CD 69 28 ADC #$28
..86CF 85 8C STA $8C
..86D1 A5 8D LDA $8D
..86D3 69 00 ADC #$00
..86D5 85 8D STA $8D
..86D7 A0 00 LDY #$00
..86D9 AD CA 8E LDA $8ECA
..86DC 29 01 AND #$01
..86DE F0 01 BEQ $86E1
..86E0 C8 INY
..86E1 A9 28 LDA #$28
..86E3 38 SEC
..86E4 ED 93 80 SBC $8093
..86E7 20 24 82 JSR $8224
..86EA 4C 8A 86 JMP $868A
..86ED A9 00 LDA #$00
..86EF F0 5F BEQ $8750
..86F1 CE EE 86 DEC $86EE
..86F4 CE C9 8E DEC $8EC9

```

200 gehts!

Rahmen

155
"↓" LOOP

85-X-1

zeichnen

```

..86F7 A2 20 LDX ##20
..86F9 AD C9 8E LDA $8EC9
..86FC 29 01 AND ##01
..86FE D0 10 BNE $B710
..8700 A2 30 LDX ##30
..8702 CE CB 8E DEC $8ECB
..8705 A5 88 LDA $8B
..8707 38 SEC
..8708 E9 64 SBC ##64
..870A 85 88 STA $8B
..870C B0 02 BCS $B710
..870E C6 89 DEC $89
..8710 A5 8A LDA $8A
..8712 38 SEC
..8713 E9 40 SBC ##40
..8715 85 8A STA $8A
..8717 A5 8B LDA $8B
..8719 E9 01 SBC ##01
..871B 85 8B STA $8B
..871D C9 60 CMP ##60
..871F B0 0C BCS $B72D
..8721 18 CLC
..8722 69 20 ADC ##20
..8724 85 8B STA $8B
..8726 A5 8D LDA $8D
..8728 18 CLC
..8729 69 04 ADC ##04
..872B 85 8D STA $8D
..872D A5 8C LDA $8C
..872F 38 SEC
..8730 E9 28 SBC ##28
..8732 85 8C STA $8C
..8734 A5 8D LDA $8D
..8736 E9 00 SBC ##00
..8738 85 8D STA $8D
..873A A0 00 LDY ##00
..873C AD CA 8E LDA $8ECA
..873F 29 01 AND ##01
..8741 F0 01 BEQ $B744
..8743 C8 INY
..8744 A9 28 LDA ##28
..8746 38 SEC
..8747 ED 93 80 SBC $8093
..874A 20 24 82 JSR $B224
..874D 4C 8A 86 JMP $B68A
..8750 A9 00 LDA ##00
..8752 F0 56 BEQ $B7AA
..8754 CE 51 87 DEC $B751
..8757 EE CA 8E INC $8ECA
..875A A2 40 LDX ##40
..875C AD CA 8E LDA $8ECA
..875F 29 01 AND ##01
..8761 F0 0B BEQ $B76E
..8763 A2 50 LDX ##50
..8765 EE CC 8E INC $8ECC
..8768 E6 88 INC $8B
..876A D0 02 BNE $B76E
..876C E6 89 INC $89
..876E A5 8A LDA $8A
..8770 18 CLC
..8771 69 0B ADC ##0B
..8773 85 8A STA $8A

```

```

..8775 A5 8B LDA $8B
..8777 69 00 ADC ##00
..8779 85 8B STA $8B
..877B C9 80 CMP ##80
..877D 90 0C BCC $B78B
..877F 38 SEC
..8780 E9 20 SBC ##20
..8782 85 8B STA $8B
..8784 A5 8D LDA $8D
..8786 38 SEC
..8787 E9 04 SBC ##04
..8789 85 8D STA $8D
..878B A5 8C LDA $8C
..878D 18 CLC
..878E 69 01 ADC ##01
..8790 85 8C STA $8C
..8792 A5 8D LDA $8D
..8794 69 00 ADC ##00
..8796 85 8D STA $8D
..8798 A0 00 LDY ##00
..879A AD C9 8E LDA $8EC9
..879D 29 01 AND ##01
..879F F0 01 BEQ $B7A2
..87A1 C8 INY
..87A2 A9 64 LDA ##64
..87A4 20 24 82 JSR $B224
..87A7 4C 8A 86 JMP $B68A
..87AA A9 00 LDA ##00
..87AC F0 5A BEQ $B80B
..87AE CE AB 87 DEC $B7AB
..87B1 CE CA 8E DEC $8ECA
..87B4 A2 60 LDX ##60
..87B6 AD CA 8E LDA $8ECA
..87B9 29 01 AND ##01
..87BB D0 0F BNE $B7CC
..87BD A2 70 LDX ##70
..87BF CE CC 8E DEC $8ECC
..87C2 C6 88 DEC $8B
..87C4 A5 88 LDA $8B
..87C6 C9 FF CMP ##FF
..87C8 D0 02 BNE $B7CC
..87CA C6 89 DEC $89
..87CC A5 8A LDA $8A
..87CE 38 SEC
..87CF E9 08 SBC ##08
..87D1 85 8A STA $8A
..87D3 A5 8B LDA $8B
..87D5 E9 00 SBC ##00
..87D7 85 8B STA $8B
..87D9 C9 60 CMP ##60
..87DB B0 0C BCS $B7E9
..87DD 18 CLC
..87DE 69 20 ADC ##20
..87E0 85 8B STA $8B
..87E2 A5 8D LDA $8D
..87E4 18 CLC
..87E5 69 04 ADC ##04
..87E7 85 8D STA $8D
..87E9 A5 8C LDA $8C
..87EB 38 SEC
..87EC E9 01 SBC ##01

```

zeichnen

00 "e" ?

zeichnen

00 "5" ?

..87EE 85 8C STA #8C
..87F0 A5 8D LDA #8D
..87F2 E9 00 SBC #100
..87F4 85 8D STA #8D
..87F6 A0 00 LDY #100
..87F8 AD C9 8E LDA #BEC9
..87FB 29 01 AND #101
..87FD F0 01 BEQ #8800
..87FF CB INY
..8800 A9 64 LDA #164
..8802 20 24 82 JSR #8224
..8805 4C BA 86 JMP #86BA
..8808 AD D6 8E LDA #BED6
..880B F0 03 BEQ #8810
..880D 4C 27 8F JMP #8F27
..8810 AD D7 8E LDA #BED7
..8813 F0 39 BEQ #884E
..8815 A9 00 LDA #100
..8817 AA TAX
..8818 9D 00 C0 STA #C000,X
..881B 9D 00 C1 STA #C100,X
..881E 9D 00 C2 STA #C200,X
..8821 9D 00 C3 STA #C300,X
..8824 9D 00 C4 STA #C400,X
..8827 9D 00 C5 STA #C500,X
..882A 9D 00 C6 STA #C600,X
..882D 9D 00 C7 STA #C700,X
..8830 9D 00 C8 STA #C800,X
..8833 9D 00 C9 STA #C900,X
..8836 9D 00 CA STA #CA00,X
..8839 9D 00 CB STA #CB00,X
..883C 9D 00 CC STA #CC00,X
..883F 9D 00 CD STA #CD00,X
..8842 9D 00 CE STA #CE00,X
..8845 9D 40 CE STA #CE40,X
..8848 E8 INX
..8849 D0 CD BNE #8818
..884B 4C 33 86 JMP #8633
..884E 4C BA 86 JMP #86BA
..8851 48 PHA
..8852 8A TXA
..8853 48 PHA
..8854 98 TYA
..8855 48 PHA
..8856 AD 19 D0 LDA #D019
..8859 8D 19 D0 STA #D019
..885C 30 0A BMI #8868
..885E AD 0D DC LDA #DC0D
..8861 58 CLI
..8862 68 PLA
..8863 A8 TAY
..8864 68 PLA
..8865 AA TAX
..8866 68 PLA
..8867 40 RTI
..8868 A9 FF LDA #FF
..886A 8D 1D D0 STA #D01D
..886D 8D 15 D0 STA #D015
..8870 8D 17 D0 STA #D017
..8873 AD A0 CF LDA #CFA0
..8876 8D 21 D0 STA #D021
..8879 A9 00 LDA #100

Zeichnen

ELS?

weiss

Löschen

Editor-Start
nochmal von vorn

Regs retten

Regs holen

RAM \$24

alle Sprites ein

+ Expand X+Y

Hinlegen
setzen

Mehrfarbenmodus

..887B 8D 1C D0 STA #D01C
..887E A9 28 LDA #28
..8880 8D 01 D0 STA #D001
..8883 8D 03 D0 STA #D003
..8886 8D 05 D0 STA #D005
..8889 8D 07 D0 STA #D007
..888C 8D 09 D0 STA #D009
..888F 8D 0B D0 STA #D00B
..8892 8D 0D D0 STA #D00D
..8895 A9 1E LDA #1E
..8897 8D 00 D0 STA #D000
..889A A9 20 LDA #20
..889C 8D 04 D0 STA #D004
..889F A9 04 LDA #04
..88A1 8D 10 D0 STA #D010
..88A4 A9 00 LDA #00
..88A6 8D F8 47 STA #47F8
..88A9 A9 02 LDA #02
..88AB 8D FA 47 STA #47FA
..88AE A9 01 LDA #01
..88B0 8D 29 D0 STA #D029
..88B3 A9 03 LDA #03
..88B5 8D F9 47 STA #47F9
..88B8 8D FB 47 STA #47FB
..88BB 8D FC 47 STA #47FC
..88BE 8D FD 47 STA #47FD
..88C1 8D FE 47 STA #47FE
..88C4 20 03 80 JSR #8003
..88C7 A9 00 LDA #00
..88C9 F0 11 BEQ #88DC
..88CB CE C8 88 DEC #88C8
..88CE A9 08 LDA #08
..88D0 8D 20 82 STA #8220
..88D3 20 43 81 JSR #8143
..88D6 EE 19 D0 INC #D019
..88D9 4C 62 88 JMP #8862
..88DC A9 00 LDA #00
..88DE F0 11 BEQ #88F1
..88E0 CE DD 88 DEC #88DD
..88E3 A9 08 LDA #08
..88E5 8D 21 82 STA #8221
..88E8 20 43 81 JSR #8143
..88EB EE 19 D0 INC #D019
..88EE 4C 62 88 JMP #8862
..88F1 A9 20 LDA #20
..88F3 8D F0 80 STA #80F0
..88F6 A9 00 LDA #00
..88FB 8D 17 D0 STA #D017
..88FB 8D 1D D0 STA #D01D
..88FE A9 01 LDA #01
..8900 8D F8 47 STA #47F8
..8903 A9 A0 LDA #A0
..8905 8D 00 D0 STA #D000
..8908 A9 A6 LDA #A6
..890A 8D 01 D0 STA #D001
..890D A9 8C LDA #8C
..890F EE 0E 89 INC #890E
..8912 4A LSR
..8913 29 0F AND #0F
..8915 AA TAX
..8916 8D DB 8E LDA #8EDB,X

aus
Y-Positionen
setzen

X für Spr. 0

X für Spr. 2

USB

Printer = 0
f. Spr. 0

Printer = 2
f. Spr. 2

weiss
f. Spr. 2

Restl. Spr. 3

auf Block 3

AG SP

1048
Blöcke Scrolling
nach unten

Scrolling nach
unten

Scrolling koordinieren

IRQ-Ende

Blöcke Scroll
nach oben

8 Pixel
nach oben

Scrolling koordinieren

IRQ-Ende

Y-Expand
aus

X-Expand
Block v. Spr. 0 = 1

Sprite-Pos.
setzen

Farbe holen

85E0: 0 = ↓ (4 = 0)

1 = ↑

2 = →

3 = ←

..8919 BD 27 D0 STA \$D027 Farbe v. Spr. 0
..891C AA TAX
..891D AD D4 8E LDA \$8ED4 Spr.-Pointer blinken
..8920 D0 03 BNE \$8925 ja
..8922 AE 21 D0 LDX \$D021 } Panel Hintergrund
..8925 8E F8 DB STX \$DBF8
..8928 8E F9 DB STX \$DBF9 Color-RAM
..892B 8E FA DB STX \$DBFA
..892E 8E FB DB STX \$DBFB Ende setzen
..8931 8E FC DB STX \$DBFC
..8934 8E FD DB STX \$DBFD
..8937 8E FE DB STX \$DBFE
..893A 8E FF DB STX \$DBFF
..893D A2 3F LDX #\$3F
..893F A9 FF LDA #\$FF
..8941 9D C0 7F STA \$7FC0,X } Grafik-RAM
..8944 CA DEX Ende setzen
..8945 10 FA BPL \$8941
..8947 AD CC 8E LDA \$8ECC BS-X
..894A 1B CLC
..894B 69 09 ADC #\$09 +8
..894D 8D CD 8E STA \$8ECD = Cursor X
..8950 AD DB 8E LDA \$8EDB BS-Y
..8953 1B CLC
..8954 69 05 ADC #\$05 +5
..8956 8D CE 8E STA \$8ECE = Cursor Y
..8959 A9 00 LDA #\$00
..895B F0 0D BEQ \$896A
..895D CE 5A B9 DEC \$895A
..8960 A9 04 LDA #\$04
..8962 A2 02 LDX #\$02 } Tab. auf 4
..8964 9D 20 82 STA \$8220,X
..8967 4C ED 89 JMP \$89ED
..896A A9 37 LDA #\$37
..896C 85 01 STA \$01 } ROM ein
..896E AF 00 LDA #\$00 Tastaturpuffer
..8970 85 C6 STA \$C6 löschen
..8972 8D 77 02 STA \$0277
..8975 20 87 EA JSR \$EA87 Tastaturabfrage
..8978 A9 35 LDA #\$35
..897A 85 01 STA \$01 } ROM aus
..897C AD 00 1C LDA \$DC00 Joystick
..897F 8D C8 8E STA \$8EC8 reifen
..8982 AD 77 02 LDA \$0277
..8985 C9 11 CMP #\$11 "↓"?
..8987 F0 07 BEQ \$8990
..8989 A1 C8 8E LDA \$8EC8 Joy
..898C 29 02 AND #\$02 "↓"?
..898E D0 0B BNE \$899B
..8990 AD CE 8E LDA \$8ECE CSR-Y
..8993 C9 17 CMP #\$17 schon unten
..8995 F0 06 BEQ \$899D
..8997 A2 00 LDX #\$00 ja, dann weg
..8999 F0 45 BEQ \$89E0
..899B AD 77 02 LDA \$0277
..899E C9 91 CMP #\$91 "↑"
..89A0 F0 07 BEQ \$89A9 ja
..89A2 AD C8 8E LDA \$8EC8 Joy
..89A5 29 01 AND #\$01 "↑"?
..89A7 D0 09 BNE \$89B2 nein
..89A9 AD CE 8E LDA \$8ECE CSR-Y
..89AC F0 3F BEQ \$89ED schon
..89AE A2 01 LDX #\$01
..89B0 D0 2E BNE \$89E0
..89B2 AD 77 02 LDA \$0277
..89B5 C9 1D CMP #\$1D "↑"?
..89B7 F0 07 BEQ \$89C0 ja
..89B9 AD C8 8E LDA \$8EC8
..89BC 29 02 AND #\$02
..89BE D0 0B BNE \$89CB
..89C0 AD CD 8E LDA \$8ECD
..89C3 C9 63 CMP #\$63 schon rechts
..89C5 F0 06 BEQ \$89ED ja
..89C7 A2 02 LDX #\$02
..89C9 D0 05 BNE \$89E0
..89CB AD 77 02 LDA \$0277
..89CE C9 9D CMP #\$9D "←"
..89D0 F0 07 BEQ \$89D9 ja
..89D2 AD C8 8E LDA \$8EC8
..89D5 29 04 AND #\$04
..89D7 D0 14 BNE \$89ED
..89D9 AD C8 8E LDA \$8EC8 X-Pos
..89DC F0 0F BEQ \$89ED 0
..89DE A2 03 LDX #\$03
..89E0 A9 03 LDA #\$03 } 1000 lang keine
..89E2 8D 5A B9 STA \$895A
..89E5 A9 04 LDA #\$04
..89E7 9D 20 82 STA \$8220,X
..89EA BE 63 B9 STX \$8963
..89ED AD C8 8E LDA \$8EC8 Joy
..89F0 29 10 AND #\$10 Button?
..89F2 F0 07 BEQ \$89FB ja
..89F4 AD 77 02 LDA \$0277 Tastatur
..89F7 C9 20 CMP #\$20 SPC?
..89F9 D0 04 BNE \$89FF nein
..89FB A2 00 LDX #\$00
..89FD F0 20 BEQ \$8A1F
..89FF AD 77 02 LDA \$0277
..8A02 C9 31 CMP #\$31
..8A04 90 22 BCC \$8A28
..8A06 C9 39 CMP #\$39
..8A08 B0 1E BCS \$8A28
..8A0A 38 SEC
..8A0B E9 31 SBC #\$31
..8A0D 8D 1A 8A STA \$8A1A
..8A10 AD 15 8E LDA \$8ED5
..8A13 29 1F AND #\$1F
..8A15 0A ASL
..8A16 0A ASL
..8A17 0A ASL
..8A18 1B CLC
..8A19 69 07 ADC #\$07
..8A1B AB TAY
..8A1C BE 00 9F LDX \$9F00,Y
..8A1F AD CD 8E LDA \$8ECD X-Pos
..8A22 AC CE 8E LDY \$8ECE Y
..8A25 20 10 85 JSR \$8510 Block setzen
..8A28 AD 77 02 LDA \$0277
..8A2B C9 2B CMP #\$2B "↑"?
..8A2D D0 06 BNE \$8A35 nein
..8A2F EE D5 8E INC \$8ED5
..8A32 EE 20 D0 INC \$D020
..8A35 AD 77 02 LDA \$0277

..8A38 C9 2D	CMP ##2D	"-"	..8ABA 69 30	ADC ##30	→ Ziffer
..8A3A D0 04	BNE \$8A42	nein	..8ABC C9 3A	CMP ##3A	
..8A3C CE D5 8E	DEC \$8ED5		..8ABE 90 03	BCC \$8AC3	bzw. A-F
..8A3F CE 20 D0	DEC \$D020		..8AC0 38	SEC	
..8A42 AD 77 02	LDA \$0277		..8AC1 E9 39	SBC ##39	
..8A45 C9 04	CMP ##2A	"y"	..8AC3 A2 D0	LDX ##D0	
..8A47 D0 08	BNE \$8A51	nein	..8AC5 C9 20	CMP ##20	
..8A49 AD B4 8E	LDA \$8ED4		..8AC7 90 01	BCC \$8ACA	
..8A4C 49 01	EOR ##01		..8AC9 E9	INX	
..8A4E 8D B4 8E	STA \$8ED4		..8ACA 0A	ASL	
..8A51 AD 77 02	LDA \$0277		..8ACB 0A	ASL	x8
..8A54 C9 05	CMP ##85	CTRL+1	..8ACC 0A	ASL	
..8A56 D0 03	BNE \$8A5B	nein	..8ACD 8D 12 8A	STA \$8AD8	
..8A5B EE A0 CF	INC \$CFA0		..8AD0 8E 12 8A	STX \$8AD9	
..8A5B AD 77 02	LDA \$0277		..8AD3 A2 00	LDX ##00	
..8A5E C9 89	CMP ##89		..8AD5 A0 00	LDY ##00	
..8A60 D0 03	BNE \$8A65		..8AD7 BD 80 01	LDA \$D180,X	
..8A62 CE A0 CF	DEC \$CFA0		..8ADA 99 10 40	STA \$4010,Y	
..8A65 AD 77 02	LDA \$0277		..8ADD BE CB D1	LDA \$D1CB,X	"Y"-Zeichen kopieren
..8A68 C9 8B	CMP ##8B		..8AE0 99 11 40	STA \$4011,Y	
..8A6A D0 03	BNE \$8A6F		..8AE3 BD C0 D0	LDA \$D0C0,X	"X"-Zeichen kopieren
..8A6C 20 C1 8B	JSR \$8BC1		..8AE6 99 0F 40	STA \$400F,Y	
..8A6F AD 77 02	LDA \$0277		..8AE9 EB	INX	Schwarz + 1
..8A72 C9 0D	CMP ##0D	CR?	..8AEA CB	INX	
..8A74 F0 01	BEQ \$8A7A		..8AEB CB	INX	Sprite + 3
..8A76 C9 0F	CMP ##0F		..8AEC CB	INX	
..8A78 D0 03	BNE \$8A7D	nein	..8AED C0 1B	CPY ##1B	
..8A7A EE D6 8E	INC \$8ED6		..8AEF D0 E6	BNE \$8AD7	LOOP
..8A7D AD 77 02	LDA \$0277		..8AF1 AD CB 8E	LDA \$8ECE	Screen-Y
..8A80 C9 93	CMP ##93	CLR?	..8AF4 1B	CLC	
..8A82 D0 03	BNE \$8A87	nein	..8AF5 69 03	ADC ##05	+5
..8A84 EE D7 8E	INC \$8ED7		..8AF7 8D CE 8E	STA \$8ECE	in Cursor-Y
..8A87 20 43 81	JSR \$8143	Sorting koordinaten	..8AFA 4B	PHA	
..8ABA A9 33	LDA ##33	{character-ROM}	..8AFB 29 0F	AND ##0F	
..8ABC 95 01	STA \$01		..8AFD 1B	CLC	
..8ABE AD C5 8E	LDA \$8ECC	kein	..8AFE 69 30	ADC ##30	
..8A91 1B	CLC	FS-X-Par	..8B00 C9 3A	CMP ##3A	
..8A92 69 09	ADC ##09	+9	..8B02 90 03	BCC \$8B07	
..8A94 8D C0 8E	STA \$8ECD	in Cursor-X	..8B04 38	SEC	
..8A97 4B	PHA		..8B05 E9 39	SBC ##39	
..8A98 29 0F	AND ##0F	untere 4 Bits	..8B07 A2 D0	LDX ##D0	
..8A9A 1B	CLC		..8B09 C9 20	CMP ##20	
..8A9B 69 30	ADC ##30	in Ziffernummern	..8B0B 90 01	BCC \$8B0E	
..8A9D C9 3A	CMP ##3A	größer 9?	..8B0D EB	INX	
..8A9F 90 03	BCC \$8AA4	nein	..8B0E 0A	ASL	
..8AA1 38	SEC	sonst - \$9	..8B0F 0A	ASL	
..8AA2 E9 39	SBC ##39		..8B10 0A	ASL	
..8AA4 A2 D0	LDX ##D0		..8B11 8D 41 8B	STA \$8B41	
..8AA6 C9 20	CMP ##20	kleiner	..8B14 8E 42 8B	STX \$8B42	
..8AAB 90 01	BCC \$8AAB	20	..8B17 68	PLA	
..8AAA EB	INX		..8B18 4A	LSR	
..8AAB 0A	ASL		..8B19 4A	LSR	
..8AAC 0A	ASL	x8	..8B1A 4A	LSR	
..8AAD 0A	ASL		..8B1B 4A	LSR	
..8AAE 8D DE 8A	STA \$8ADE		..8B1C 1B	CLC	
..8AB1 8E DE 8A	STX \$8ADF		..8B1D 69 30	ADC ##30	
..8AB4 68	PLA	X-Position holen	..8B1F C9 3A	CMP ##3A	
..8AB5 4A	LSR		..8B21 90 03	BCC \$8B26	
..8AB6 4A	LSR	:16	..8B23 38	SEC	
..8AB7 4A	LSR		..8B24 E9 39	SBC ##39	
..8AB8 4A	LSR		..8B26 A2 D0	LDX ##D0	
..8AB9 1B	CLC				

..8B2B C9 20 CMP #20
..8B2A 90 01 BCC \$8B2D
..8B2C E8 INX
..8B2D 0A ASL
..8B2E 0A ASL
..8B2F 0A ASL
..8B30 8D 1B 8B STA \$8B3B
..8B33 8E 1C 8B STX \$8B3C
..8B36 A2 00 LDX #00
..8B38 A0 00 LDY #00
..8B3A BD B0 D1 LDA \$D180,X
..8B3D 99 1B 40 STA \$402B,Y
..8B40 BD A8 D1 LDA \$D1A8,X
..8B43 99 29 40 STA \$4029,Y
..8B46 BD C8 D0 LDA \$D0C8,X
..8B49 99 27 40 STA \$4027,Y
..8B4C E8 INX
..8B4D C8 INY
..8B4E C8 INY
..8B4F C8 INY
..8B50 C0 1B CPY #1B
..8B52 D0 E6 BNE \$8B3A
..8B54 20 61 8B JSR \$8B61
..8B57 A9 35 LDA #35
..8B59 85 01 STA \$01
..8B5B EE 19 D0 INC \$D019
..8B5E 4C 62 8B JMP \$8B62
..8B61 AD D5 8E LDA \$8ED5
..8B64 29 1F AND #1F
..8B66 4B PHA
..8B67 29 0F AND #0F
..8B69 1B CLC
..8B6A 69 30 ADC #30
..8B6C C9 3A CMP #3A
..8B6E 90 03 BCC \$8B73
..8B70 38 SEC
..8B71 E9 39 SBC #39
..8B73 A2 00 LDX #D0
..8B75 C9 20 CMP #20
..8B77 90 01 BCC \$8B7A
..8B79 E8 INX
..8B7A 0A ASL
..8B7B 0A ASL
..8B7C 0A ASL
..8B7D 8D AD 8B STA \$8BAD
..8B80 8E AE 8B STX \$8BAE
..8B83 68 PLA
..8B84 4A LSR
..8B85 4A LSR
..8B86 4A LSR
..8B87 4A LSR
..8B88 1B CLC
..8B89 69 30 ADC #30
..8B8B C9 3A CMP #3A
..8B8D 90 03 BCC \$8B92
..8B8F 38 SEC
..8B90 E9 39 SBC #39
..8B92 A2 00 LDX #D0
..8B94 C9 20 CMP #20
..8B96 90 01 BCC \$8B99
..8B98 E8 INX
..8B99 0A ASL

Ziffern
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Sprite
kopieren

Page in Spr kopieren
ROM aus
Junk's
IRQ-Ende

Page

in Sprite

kopieren

..8B9A 0A ASL
..8B9B 0A ASL
..8B9C 8D A7 8B STA \$8BA7
..8B9F 8E A8 8B STX \$8BA8
..8BA2 A2 00 LDX #00
..8BA4 A0 00 LDY #00
..8BA6 BD B0 D1 LDA \$D180,X
..8BA9 99 90 40 STA \$4090,Y
..8BAC BD B0 D1 LDA \$D180,X
..8BAF 99 91 40 STA \$4091,Y
..8BB2 BD B0 D0 LDA \$D080,X
..8BB5 99 BF 40 STA \$40BF,Y
..8BB8 E8 INX
..8BB9 C8 INY
..8BBA C8 INY
..8BBB C8 INY
..8BBC C0 1B CPY #1B
..8BBE D0 E6 BNE \$8BA6
..8BC0 60 RTS
..8BC1 20 29 BE JSR \$8E29
..8BC4 A9 D8 LDA #D8
..8BC6 85 16 D0 STA \$D016
..8BC9 A9 37 LDA #37
..8BCB 85 01 STA \$01
..8BCD A9 00 LDA #00
..8BCF 8D 05 D0 STA \$D005
..8BD2 8D 04 D0 STA \$D004
..8BD5 20 F4 BC JSR \$8CF4
..8BD8 A9 0E LDA #0E
..8BDA 8D 21 D0 STA \$D021
..8BDD 7B SEI
..8BDE A9 FA LDA #FA
..8BE0 CD 12 D0 CMP \$D012
..8BE3 D0 FB BNE \$8BE0
..8BE5 A9 C5 LDA #C5
..8BE7 EE E6 8B INC \$8BE6
..8BEA 4A LSR
..8BEB 29 0F AND #0F
..8BED AA TAX
..8BEE BD D8 8E LDA \$8ED8,X
..8BF1 8D 27 D0 STA \$D027
..8BF4 A9 01 LDA #01
..8BF6 8D 28 D0 STA \$D028
..8BF9 8D F8 47 STA \$47F8
..8BFC A9 02 LDA #02
..8BFE 8D F9 47 STA \$47F9
..8C01 A9 E1 LDA #E1
..8C03 8D 03 D0 STA \$D003
..8C06 A9 18 LDA #18
..8C08 8D 02 D0 STA \$D002
..8C0B A9 02 LDA #02
..8C0D 8D 17 D0 STA \$D017
..8C10 8D 1D D0 STA \$D01D
..8C13 A9 00 LDA #00
..8C15 85 C6 STA \$C6
..8C17 8D 77 02 STA \$0277
..8C1A 20 87 EA JSR \$EA87
..8C1D AD 77 02 LDA \$0277
..8C20 C9 88 CMP #88
..8C22 D0 0D BNE \$8C31
..8C24 20 29 BE JSR \$8E29

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..,8C27 A9 00	LDA #00	..,8CB1 A8	TAY
..,8C29 8D 02 D0	STA \$D002	..,8CB2 A9 35	LDA #35
..,8C2C A9 35	LDA #35	..,8CB4 85 01	STA #01
..,8C2E 85 01	STA #01	..,8CB6 20 16 8D	JSR \$8D16
..,8C30 60	RTS	..,8CB9 A9 37	LDA #37
..,8C31 AD 77 02	LDA \$0277	..,8CBB 85 01	STA #01
..,8C34 C9 91	CMP #91	..,8CBD A9 00	LDA #00
..,8C36 D0 08	BNE \$8C40	..,8CBF 8D 10 D0	STA \$D010
..,8C38 AD D0 8E	LDA \$8ED0	..,8CC2 AD D0 8E	LDA \$8ED0
..,8C3B F0 03	BEQ \$8C40	..,8CC5 0A	ASL
..,8C3D CE D0 8E	DEC \$8ED0	..,8CC6 0A	ASL
..,8C40 AD 77 02	LDA \$0277	..,8CC7 0A	ASL
..,8C43 C9 11	CMP #11	..,8CC8 0A	ASL
..,8C45 D0 0A	BNE \$8C51	..,8CC9 18	CLC
..,8C47 AD D0 8E	LDA \$8ED0	..,8CCA 69 32	ADC #32
..,8C4A C9 09	CMP #09	..,8CCC 8D 01 D0	STA \$D001
..,8C4C F0 03	BEQ \$8C51	..,8CCF AD CF 8E	LDA \$8ECF
..,8C4E EE D0 8E	INC \$8ED0	..,8CD2 0A	ASL
..,8C51 AD 77 02	LDA \$0277	..,8CD3 0A	ASL
..,8C54 C9 9D	CMP #9D	..,8CD4 0A	ASL
..,8C56 D0 08	BNE \$8C60	..,8CD5 0A	ASL
..,8C58 AD CF 8E	LDA \$8ECF	..,8CD6 18	CLC
..,8C5B F0 03	BEQ \$8C60	..,8CD7 69 18	ADC #18
..,8C5D CE CF 8E	DEC \$8ECF	..,8CD9 8D 00 D0	STA \$D000
..,8C60 AD 77 02	LDA \$0277	..,8CDC AD CF 8E	LDA \$8ECF
..,8C63 C9 1D	CMP #1D	..,8CDF C9 0F	CMP #0F
..,8C65 D0 0A	BNE \$8C71	..,8CE1 90 03	BCC \$8CE6
..,8C67 AD CF 8E	LDA \$8ECF	..,8CE3 EE 10 D0	INC \$D010
..,8C6A C9 13	CMP #13	..,8CE6 A9 33	LDA #33
..,8C6C F0 03	BEQ \$8C71	..,8CE8 85 01	STA #01
..,8C6E EE CF 8E	INC \$8ECF	..,8CEA 20 61 8B	JSR \$8B61
..,8C71 AD 77 02	LDA \$0277	..,8CED A9 37	LDA #37
..,8C74 C9 2B	CMP #2B	..,8CEF 85 01	STA #01
..,8C76 D0 09	BNE \$8C81	..,8CF1 4C DD 8B	JMP \$8BDD
..,8C78 EE D5 8E	INC \$8ED5	..,8CF4 A9 35	LDA #35
..,8C7B EE 20 D0	INC \$D020	..,8CF6 85 01	STA #01
..,8C7E 20 F4 8C	JSR \$8CF4	..,8CF8 A2 07	LDX #07
..,8C81 AD 77 02	LDA \$0277	..,8CFA AD D5 8E	LDA \$8ED5
..,8C84 C9 2D	CMP #2D	..,8CFD 0A	ASL
..,8C86 D0 09	BNE \$8C91	..,8CFE 0A	ASL
..,8C88 CE D5 8E	DEC \$8ED5	..,8CFF 0A	ASL
..,8C8B CE 20 D0	DEC \$D020	..,8D00 8D 04 8D	STA \$8D04
..,8C8E 20 F4 8C	JSR \$8CF4	..,8D03 BC 00 9F	LDY \$9F00,X
..,8C91 AD 77 02	LDA \$0277	..,8D06 8E 0D 8D	STX \$8D0D
..,8C94 C9 31	CMP #31	..,8D09 20 16 8D	JSR \$8D16
..,8C96 90 25	BCC \$8CBD	..,8DOC A2 00	LDX #00
..,8C98 C9 39	CMP #39	..,8DOE CA	DEX
..,8C9A B0 21	BCS \$8CBD	..,8DOF 10 F2	BPL \$8D03
..,8C9C 3B	SEC	..,8D11 A9 37	LDA #37
..,8C9D E9 31	SBC #31	..,8D13 85 01	STA #01
..,8C9F AA	TAX	..,8D15 60	RTS
..,8CA0 AD D0 8E	LDA \$8ED0	..,8D16 AD D5 8E	LDA \$8ED5
..,8CA3 0A	ASL	..,8D19 0A	ASL
..,8CA4 0A	ASL	..,8D1A 0A	ASL
..,8CA5 4B	PHA	..,8D1B 0A	ASL
..,8CA6 0A	ASL	..,8D1C 8D 21 8D	STA \$8D21
..,8CA7 0A	ASL	..,8D1F 98	TYA
..,8CAB 85 FA	STA \$FA	..,8D20 9D 00 9F	STA \$9F00,X
..,8CAA 6B	PLA	..,8D23 B9 00 04	LDA \$0400,Y
..,8CAB 1B	CLC	..,8D26 85 FA	STA \$FA
..,8CAC 65 FA	ADC \$FA	..,8D2B 1B	CLC
..,8CAE 6D CF 8E	ADC \$8ECF		

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.,8D29 69 0A    ADC #$0A
.,8D2B 8D C4 8D STA $BDC4
.,8D2E B9 00 05 LDA $0500,Y
.,8D31 85 FB    STA $FB
.,8D33 69 00    ADC #$00
.,8D35 8D C5 8D STA $BDC5
.,8D38 AD C4 8D LDA $BDC4
.,8D3B 18      CLC
.,8D3C 69 0A    ADC #$0A
.,8D3E 8D CA 8D STA $BDCA
.,8D41 AD C5 8D LDA $BDC5
.,8D44 69 00    ADC #$00
.,8D46 8D CB 8D STA $BDCB
.,8D49 AD CA 8D LDA $BDCA
.,8D4C 18      CLC
.,8D4D 69 0A    ADC #$0A
.,8D4F 8D D0 8D STA $BDD0
.,8D52 AD CB 8D LDA $BDCB
.,8D55 69 00    ADC #$00
.,8D57 8D D1 8D STA $BDD1
.,8D5A 8A      TXA
.,8D5B BD 19 8E LDA $BE19,X
.,8D5E 18      CLC
.,8D5F 69 00    ADC #$00
.,8D61 8D C1 8D STA $BDC1
.,8D64 A9 7D    LDA #$7D
.,8D66 69 00    ADC #$00
.,8D68 8D C2 8D STA $BDC2
.,8D6B AD C1 8D LDA $BDC1
.,8D6E 18      CLC
.,8D6F 69 08    ADC #$08
.,8D71 8D C7 8D STA $BDC7
.,8D74 AD C2 8D LDA $BDC2
.,8D77 69 00    ADC #$00
.,8D79 8D C8 8D STA $BDC8
.,8D7C AD C1 8D LDA $BDC1
.,8D7F 18      CLC
.,8D80 69 40    ADC #$40
.,8D82 8D CD 8D STA $BDCD
.,8D85 AD C2 8D LDA $BDC2
.,8D88 69 01    ADC #$01
.,8D8A 8D CE 8D STA $BDCE
.,8D8D AD C1 8D LDA $BDC1
.,8D90 18      CLC
.,8D91 69 48    ADC #$48
.,8D93 8D D3 8D STA $BDD3
.,8D96 AD C2 8D LDA $BDC2
.,8D99 69 01    ADC #$01
.,8D9B 8D D4 8D STA $BDD4
.,8D9E 8A      TXA
.,8D9F BD 21 8E LDA $BE21,X
.,8DA2 18      CLC
.,8DA3 69 A0    ADC #$A0
.,8DA5 85 FC    STA $FC
.,8DA7 A9 47    LDA #$47
.,8DA9 69 00    ADC #$00
.,8DAB 85 FD    STA $FD
.,8DAD 8A      TXA
.,8DAE BD 21 8E LDA $BE21,X
.,8DB1 18      CLC
.,8DB2 69 A0    ADC #$A0
.,8DB4 85 FE    STA $FE

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.,8DB6 A9 DB    LDA #$DB
.,8DB8 69 00    ADC #$00
.,8DBA 85 FF    STA $FF
.,8DBC A0 07    LDY #$07
.,8DBE B1 FA    LDA ($FA),Y
.,8DC0 99 00 7D STA $7D00,Y
.,8DC3 B9 D2 EA LDA $EAD2,Y
.,8DC6 99 08 7D STA $7D08,Y
.,8DC9 B9 DC EA LDA $EADC,Y
.,8DCC 99 40 7E STA $7E40,Y
.,8DCF B9 E6 EA LDA $EAE6,Y
.,8DD2 99 48 7E STA $7E48,Y
.,8DD5 88      DEY
.,8DD6 10 E6    BPL $BDBE
.,8DD8 A0 08    LDY #$08
.,8DDA B1 FA    LDA ($FA),Y
.,8DDC A0 00    LDY #$00
.,8DDE 91 FC    STA ($FC),Y
.,8DE0 A0 12    LDY #$12
.,8DE2 B1 FA    LDA ($FA),Y
.,8DE4 A0 01    LDY #$01
.,8DE6 91 FC    STA ($FC),Y
.,8DE8 A0 1C    LDY #$1C
.,8DEA B1 FA    LDA ($FA),Y
.,8DEC A0 28    LDY #$28
.,8DEE 91 FC    STA ($FC),Y
.,8DF0 A0 26    LDY #$26
.,8DF2 B1 FA    LDA ($FA),Y
.,8DF4 A0 29    LDY #$29
.,8DF6 91 FC    STA ($FC),Y
.,8DF8 A0 09    LDY #$09
.,8DFA B1 FA    LDA ($FA),Y
.,8DFC A0 00    LDY #$00
.,8DFE 91 FE    STA ($FE),Y
.,8E00 A0 13    LDY #$13
.,8E02 B1 FA    LDA ($FA),Y
.,8E04 A0 01    LDY #$01
.,8E06 91 FE    STA ($FE),Y
.,8E08 A0 1D    LDY #$1D
.,8E0A B1 FA    LDA ($FA),Y
.,8E0C A0 28    LDY #$28
.,8E0E 91 FE    STA ($FE),Y
.,8E10 A0 27    LDY #$27
.,8E12 B1 FA    LDA ($FA),Y
.,8E14 A0 29    LDY #$29
.,8E16 91 FE    STA ($FE),Y
.,8E18 60      RTS
.,8E19 00      BRK
.,8E1A 18      CLC
.,8E1B 30 48    BMI $BE65
.,8E1D 60      RTS
.,8E1E 78      SEI
.,8E1F 90 AB    BCC $BDC9
.,8E21 00      BRK
.,8E22 03      ???
.,8E23 06 09    ASL $09
.,8E25 0C      ???
.,8E26 0F      ???
.,8E27 12      ???
.,8E28 15 A9    ORA $A9,X
.,8E2A 00      BRK

```

```

..8E2B 8D 11 DO STA $D011
..8E2E 85 FA STA $FA
..8E30 85 FC STA $FC
..8E32 A9 20 LDA #$20
..8E34 85 FB STA $FB
..8E36 A9 60 LDA #$60
..8E38 85 FD STA $FD
..8E3A A0 00 LDY #$00
..8E3C B1 FA LDA ($FA),Y
..8E3E 4B PHA
..8E3F B1 FC LDA ($FC),Y
..8E41 91 FA STA ($FA),Y
..8E43 68 PLA
..8E44 91 FC STA ($FC),Y
..8E46 C8 INY
..8E47 D0 F3 BNE $8E3C
..8E49 E6 FB INC $FB
..8E4B E6 FD INC $FD
..8E4D A5 FD LDA $FD
..8E4F C9 80 CMP #$80
..8E51 D0 E9 BNE $8E3C
..8E53 A2 00 LDX #$00
..8E55 BD 00 0C LDA $0C00,X
..8E58 BC 00 44 LDY $4400,X
..8E5B 9D 00 44 STA $4400,X
..8E5E 98 TYA
..8E5F 9D 00 0C STA $0C00,X
..8E62 BD 00 0D LDA $0D00,X
..8E65 BC 00 45 LDY $4500,X
..8E68 9D 00 45 STA $4500,X
..8E6B 98 TYA
..8E6C 9D 00 0D STA $0D00,X
..8E6F BD 00 0E LDA $0E00,X
..8E72 BC 00 46 LDY $4600,X
..8E75 9D 00 46 STA $4600,X
..8E78 98 TYA
..8E79 9D 00 0E STA $0E00,X
..8E7C BD 00 0F LDA $0F00,X
..8E7F BC 00 47 LDY $4700,X
..8E82 9D 00 47 STA $4700,X
..8E85 98 TYA
..8E86 9D 00 0F STA $0F00,X
..8E89 BD 00 10 LDA $1000,X
..8E8C BC 00 D8 LDY $D800,X
..8E8F 9D 00 D8 STA $D800,X
..8E92 98 TYA
..8E93 9D 00 10 STA $1000,X
..8E96 BD 00 11 LDA $1100,X
..8E99 BC 00 D9 LDY $D900,X
..8E9C 9D 00 D9 STA $D900,X
..8E9F 98 TYA
..8EA0 9D 00 11 STA $1100,X
..8EA3 BD 00 12 LDA $1200,X
..8EA6 BC 00 DA LDY $DA00,X
..8EA9 9D 00 DA STA $DA00,X
..8EAC 98 TYA
..8EAD 9D 00 12 STA $1200,X
..8EB0 BD 00 13 LDA $1300,X
..8EB3 BC 00 DB LDY $DB00,X
..8EB6 9D 00 DB STA $DB00,X
..8EB9 98 TYA
..8EBA 9D 00 13 STA $1300,X

```

```

..8EBD CA DEX
..8EBE D0 95 BNE $8E55
..8EC0 A9 3B LDA #$3B
..8EC2 8D 11 DO STA $D011
..8EC5 60 RTS
..8EC6 00 BRK Y feu
..8EC7 00 BRK x feu
..8EC8 7F ???
..8EC9 FF ???
..8ECA 00 BRK
..8ECB 00 BRK
..8ECC 00 BRK
..8ECD 09 05 ORA #$05
..8ECF 0C ???
..8ED0 04 ???
..8ED1 00 BRK
..8ED2 0E 23 After-Blink-Flag
..8ED5 00 Page 18677
..8ED6 00 Menu-HP-Flag
..8ED7 00 CLS-Flag
..8ED8 00 BRK
..8ED9 09 0B ORA #$0B
..8EDB 0C ???
..8EDC 0F ???
..8EDD 0D 07 01 ORA $0107
..8EE0 01 07 ORA ($07,X)
..8EE2 0D 0F 0C ORA $0C0F
..8EE5 0B ???
..8EE6 09 00 ORA #$00
..8EEB FF ???
..8EE9 FF ???
..8EEA 00 BRK
..8EEB 80 ???
..8EEC 01 00 ORA ($00,X)
..8EEE 80 ???
..8EEF 01 00 ORA ($00,X)
..8EF1 80 ???
..8EF2 01 00 ORA ($00,X)
..8EF4 80 ???
..8EF5 01 00 ORA ($00,X)
..8EF7 80 ???
..8EF8 01 00 ORA ($00,X)
..8EFA 80 ???
..8EFB 01 00 ORA ($00,X)
..8EFD 80 ???
..8EFE 01 00 ORA ($00,X)
..8F00 80 ???
..8F01 01 00 ORA ($00,X)
..8F03 80 ???
..8F04 01 00 ORA ($00,X)
..8F06 80 ???
..8F07 01 00 ORA ($00,X)
..8F09 80 ???
..8F0A 01 00 ORA ($00,X)
..8F0C 80 ???
..8F0D 01 00 ORA ($00,X)
..8F0F 80 ???
..8F10 01 00 ORA ($00,X)
..8F12 80 ???
..8F13 01 00 ORA ($00,X)
..8F15 FF ???

```

Farb-
Labelle
Sprite

.,8F16 FF	???	.,8F89 20 44 E5 JSR \$E544
.,8F17 00	BRK	.,8F8C A9 08 LDA #\$08
.,8F18 00	BRK	.,8F8E 85 BA STA \$BA
.,8F19 00	BRK	.,8F90 A2 00 LDX #\$00
.,8F1A 00	BRK	.,8F92 8E 9C 92 STX \$929C
.,8F1B 00	BRK	.,8F95 8E A0 92 STX \$92A0
.,8F1C 00	BRK	.,8F98 BD 12 95 LDA \$9512,X
.,8F1D 00	BRK	.,8F9B F0 06 BEQ \$8FA3
.,8F1E 00	BRK	.,8F9D 20 D2 FF JSR \$FFD2
.,8F1F 00	BRK	.,8FA0 E8 INX
.,8F20 00	BRK	.,8FA1 D0 F5 BNE \$8F98
.,8F21 00	BRK	.,8FA3 A2 00 LDX #\$00
.,8F22 00	BRK	.,8FA5 BD F7 95 LDA \$95F7,X
.,8F23 00	BRK	.,8FAB F0 06 BEQ \$8FB0
.,8F24 00	BRK	.,8FAA 20 D2 FF JSR \$FFD2
.,8F25 00	BRK	.,8FAD E8 INX
.,8F26 00	BRK	.,8FAE D0 F5 BNE \$8FA5
.,8F27 A9 01 LDA #\$01		.,8FB0 A2 27 LDX #\$27
.,8F29 D0 25 BNE \$8F50		.,8FB2 A9 63 LDA #\$63
.,8F2B 85 FA STA \$FA		.,8FB4 9D 00 04 STA \$0400,X
.,8F2D 78 SEI		.,8FB7 9D 18 05 STA \$0518,X
.,8F2E A9 C0 LDA #\$C0		.,8FBA 9D D0 06 STA \$06D0,X
.,8F30 85 FB STA \$FB		.,8FBD 9D 98 07 STA \$0798,X
.,8F32 A9 30 LDA #\$30		.,8FC0 CA DEX
.,8F34 85 01 STA \$01		.,8FC1 10 F1 BPL \$8FB4
.,8F36 A0 00 LDY #\$00		.,8FC3 A2 00 LDX #\$00
.,8F38 A9 00 LDA #\$00		.,8FC5 BD 01 95 LDA \$9501,X
.,8F3A 78 SEI		.,8FC8 C9 40 CMP #\$40
.,8F3B 91 FA STA (\$FA),Y		.,8FCA 90 03 BCC \$8FCF
.,8F3D CB INY		.,8FCC 38 SEC
.,8F3E D0 FB BNE \$8F3B		.,8FCD E9 40 SBC #\$40
.,8F40 E6 FB INC \$FB		.,8FCF 9D 01 07 STA \$0701,X
.,8F42 D0 F4 BNE \$8F38		.,8FD2 E8 INX
.,8F44 A9 00 LDA #\$00		.,8FD3 E0 10 CPX #\$10
.,8F46 AA TAX		.,8FD5 D0 EE BNE \$8FCD
.,8F47 9D 00 9F STA \$9F00,X		.,8FD7 20 96 91 JSR \$9196
.,8F4A E8 INX		.,8FDA 78 SEI
.,8F4B D0 FA BNE \$8F47		.,8FDB A9 C8 LDA #\$C8
.,8F4D EE 28 8F INC \$8F28		.,8FDD CD 12 D0 CMP \$D012
.,8F50 A9 37 LDA #\$37		.,8FE0 D0 FB BNE \$8FDD
.,8F52 85 01 STA \$01		.,8FE2 A9 00 LDA #\$00
.,8F54 78 SEI		.,8FE4 85 C6 STA \$C6
.,8F55 A9 00 LDA #\$00		.,8FE6 8D 77 02 STA \$0277
.,8F57 8D 1A D0 STA \$D01A		.,8FE9 20 87 EA JSR \$EAB7
.,8F5A 8D 11 D0 STA \$D011		.,8FEC AD 77 02 LDA \$0277
.,8F5D 8D 15 D0 STA \$D015		.,8FEF C9 91 CMP #\$91
.,8F60 8D 20 D0 STA \$D020		.,8FF1 D0 22 BNE \$9015
.,8F63 8D 21 D0 STA \$D021		.,8FF3 AD E7 94 LDA \$94E7
.,8F66 A9 C7 LDA #\$C7		.,8FF6 F0 1D BEQ \$9015
.,8F68 8D 00 DD STA \$DD00		.,8FF8 CE E7 94 DEC \$94E7
.,8F6B A9 0F LDA #\$0F		.,8FFB AD E5 94 LDA \$94E5
.,8F6D 8D 86 02 STA \$0286		.,8FFE 8D 42 90 STA \$9042
.,8F70 A9 C8 LDA #\$C8		.,9001 38 SEC
.,8F72 8D 16 D0 STA \$D016		.,9002 E9 28 SBC #\$28
.,8F75 A9 15 LDA #\$15		.,9004 8D E5 94 STA \$94E5
.,8F77 8D 18 D0 STA \$D018		.,9007 AD E6 94 LDA \$94E6
.,8F7A A9 1B LDA #\$1B		.,900A 8D 43 90 STA \$9043
.,8F7C 8D 11 D0 STA \$D011		.,900D E9 00 SBC #\$00
.,8F7F A9 67 LDA #\$67		.,900F 8D E6 94 STA \$94E6
.,8F81 8D 18 03 STA \$0318		.,9012 4C 3D 90 JMP \$903D
.,8F84 A9 88 LDA #\$88		.,9015 AD 77 02 LDA \$0277
.,8F86 8D 19 03 STA \$0319		

..901B	C9	11	CMP	##11
..901A	D0	2B	BNE	\$9047
..901C	AD	E7 94	LDA	\$94E7
..901F	C9	08	CMP	##08
..9021	F0	24	BEQ	\$9047
..9023	EE	E7 94	INC	\$94E7
..9026	AD	E5 94	LDA	\$94E5
..9029	8D	42 90	STA	\$9042
..902C	1B		CLC	
..902D	69	28	ADC	##28
..902F	8D	E5 94	STA	\$94E5
..9032	AD	E6 94	LDA	\$94E6
..9035	8D	43 90	STA	\$9043
..9038	69	00	ADC	##00
..903A	8D	E6 94	STA	\$94E6
..903D	A9	0F	LDA	##0F
..903F	A2	27	LDX	##27
..9041	9D	90 D9	STA	\$D990,X
..9044	CA		DEX	
..9045	10	FA	BPL	\$9041
..9047	AD	77 02	LDA	\$0277
..904A	C9	5F	CMP	##5F
..904C	D0	03	BNE	\$9051
..904E	4C	33 86	JMP	\$8633
..9051	AD	77 02	LDA	\$0277
..9054	C9	0D	CMP	##0D
..9056	F0	03	BEQ	\$905B
..9058	4C	1B 91	JMP	\$911B
..905B	AD	E7 94	LDA	\$94E7
..905E	C9	01	CMP	##01
..9060	D0	0E	BNE	\$9070
..9062	A2	0A	LDX	##0A
..9064	20	CE 91	JSR	\$91CE
..9067	EE	9C 92	INC	\$929C
..906A	20	7D 92	JSR	\$927D
..906D	4C	DA 8F	JMP	\$8FDA
..9070	AD	E7 94	LDA	\$94E7
..9073	C9	03	CMP	##03
..9075	D0	0E	BNE	\$9085
..9077	A2	05	LDX	##05
..9079	20	CE 91	JSR	\$91CE
..907C	EE	A0 92	INC	\$92A0
..907F	20	7D 92	JSR	\$927D
..9082	4C	DA 8F	JMP	\$8FDA
..9085	AD	E7 94	LDA	\$94E7
..9088	C9	02	CMP	##02
..908A	D0	0B	BNE	\$9097
..908C	A2	00	LDX	##00
..908E	20	CE 91	JSR	\$91CE
..9091	20	7D 92	JSR	\$927D
..9094	4C	DA 8F	JMP	\$8FDA
..9097	AD	E7 94	LDA	\$94E7
..909A	C9	04	CMP	##04
..909C	D0	0B	BNE	\$90A9
..909E	A2	00	LDX	##00
..90A0	20	CE 91	JSR	\$91CE
..90A3	20	FB 92	JSR	\$92FB
..90A6	4C	DA 8F	JMP	\$8FDA
..90A9	AD	E7 94	LDA	\$94E7
..90AC	C9	05	CMP	##05
..90AE	D0	0B	BNE	\$90BB
..90B0	A2	05	LDX	##05
..90B2	20	CE 91	JSR	\$91CE
..90B5	20	FB 92	JSR	\$92FB
..90B8	4C	DA 8F	JMP	\$8FDA
..90BB	AD	E7 94	LDA	\$94E7
..90BE	C9	06	CMP	##06
..90C0	D0	35	BNE	\$90F7
..90C2	A2	0F	LDX	##0F
..90C4	20	CE 91	JSR	\$91CE
..90C7	A9	35	LDA	##35
..90C9	85	01	STA	\$01
..90CB	20	A3 94	JSR	\$94A3
..90CE	A9	37	LDA	##37
..90D0	85	01	STA	\$01
..90D2	20	FB 92	JSR	\$92FB
..90D5	A2	14	LDX	##14
..90D7	A9	C8	LDA	##C8
..90D9	7B		SEI	
..90DA	CD	12 D0	CMP	\$D012
..90DD	D0	F8	BNE	\$90D7
..90DF	A9	DC	LDA	##DC
..90E1	CD	12 D0	CMP	\$D012
..90E4	D0	F9	BNE	\$90DF
..90E6	CA		DEX	
..90E7	10	EE	BPL	\$90D7
..90E9	A9	35	LDA	##35
..90EB	85	01	STA	\$01
..90ED	20	A3 94	JSR	\$94A3
..90F0	A9	37	LDA	##37
..90F2	85	01	STA	\$01
..90F4	4C	DA 8F	JMP	\$8FDA
..90F7	AD	E7 94	LDA	\$94E7
..90FA	D0	03	BNE	\$90FF
..90FC	4C	33 86	JMP	\$8633
..90FF	AD	E7 94	LDA	\$94E7
..9102	C9	07	CMP	##07
..9104	D0	0B	BNE	\$9111
..9106	A9	00	LDA	##00
..9108	8D	77 02	STA	\$0277
..910B	20	44 E5	JSR	\$E544
..910E	4C	00 14	JMP	\$1400
..9111	AD	E7 94	LDA	\$94E7
..9114	C9	08	CMP	##08
..9116	D0	03	BNE	\$911B
..9118	4C	00 9C	JMP	\$9C00
..911B	AD	E5 94	LDA	\$94E5
..911E	8D	2C 91	STA	\$912C
..9121	AD	E6 94	LDA	\$94E6
..9124	8D	2D 91	STA	\$912D
..9127	A2	27	LDX	##27
..9129	A9	01	LDA	##01
..912B	9D	DB DB	STA	\$D8DB,X
..912E	CA		DEX	
..912F	10	FA	BPL	\$912B
..9131	4C	DA 8F	JMP	\$8FDA
..9134	7B		SEI	
..9135	A5	FA	LDA	\$FA
..9137	A2	02	LDX	##02
..9139	20	6D 91	JSR	\$916D
..913C	A5	FB	LDA	\$FB
..913E	A2	00	LDX	##00
..9140	20	6D 91	JSR	\$916D

```

.,9143 A5 FC LDA $FC
.,9145 A2 08 LDX #$08
.,9147 20 6D 91 JSR $916D
.,914A A5 FD LDA $FD
.,914C A2 06 LDX #$06
.,914E 20 6D 91 JSR $916D
.,9151 A9 C8 LDA #$C8
.,9153 CD 12 D0 CMP $D012
.,9156 D0 FB BNE $9153
.,9158 A9 00 LDA #$00
.,915A 85 C6 STA $C6
.,915C 8D 77 02 STA $0277
.,915F 20 87 EA JSR $EAB7
.,9162 AD 77 02 LDA $0277
.,9165 C9 20 CMP #$20
.,9167 D0 CB BNE $9134
.,9169 EE 20 D0 INC $D020
.,916C 60 RTS
.,916D 8D EB 94 STA $94EB
.,9170 29 0F AND #$0F
.,9172 18 CLC
.,9173 69 30 ADC #$30
.,9175 C9 3A CMP #$3A
.,9177 90 03 BCC $917C
.,9179 38 SEC
.,917A E9 39 SBC #$39
.,917C 9D 01 04 STA $0401,X
.,917F AD EB 94 LDA $94EB
.,9182 29 F0 AND #$F0
.,9184 4A LSR
.,9185 4A LSR
.,9186 4A LSR
.,9187 4A LSR
.,9188 18 CLC
.,9189 69 30 ADC #$30
.,918B C9 3A CMP #$3A
.,918D 90 03 BCC $9192
.,918F 38 SEC
.,9190 E9 39 SBC #$39
.,9192 9D 00 04 STA $0400,X
.,9195 60 RTS
.,9196 A2 08 LDX #$08
.,9198 20 6F 92 JSR $926F
.,919B A9 01 LDA #$01
.,919D A2 08 LDX #$08
.,919F A0 0F LDY #$0F
.,91A1 20 BA FF JSR $FFBA
.,91A4 A9 00 LDA #$00
.,91A6 20 BD FF JSR $FFBD
.,91A9 20 C0 FF JSR $FFC0
.,91AC A2 01 LDX #$01
.,91AE 20 C6 FF JSR $FFC6
.,91B1 20 CF FF JSR $FFCF
.,91B4 20 D2 FF JSR $FFD2
.,91B7 24 90 BIT $90
.,91B9 50 F6 BVC $91B1
.,91BB 20 CC FF JSR $FFCC
.,91BE A9 01 LDA #$01
.,91C0 20 C3 FF JSR $FFC3
.,91C3 A9 11 LDA #$11
.,91C5 20 D2 FF JSR $FFD2
.,91C8 A9 11 LDA #$11

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.,91CA 20 D2 FF JSR $FFD2
.,91CD 60 RTS
.,91CE A0 00 LDY #$00
.,91D0 BD EB 94 LDA $94EB,X
.,91D3 99 01 95 STA $9501,Y
.,91D6 29 3F AND #$3F
.,91D8 99 01 07 STA $0701,Y
.,91DB EB INX
.,91DC CB INY
.,91DD C0 05 CPY #$05
.,91DF D0 EF BNE $91D0
.,91E1 AE 11 95 LDX $9511
.,91E4 E0 05 CPX #$05
.,91E6 B0 05 BCS $91ED
.,91E8 A2 05 LDX #$05
.,91EA 8E 11 95 STX $9511
.,91ED A9 64 LDA #$64
.,91EF 9D 01 07 STA $0701,X
.,91F2 78 SEI
.,91F3 A9 C8 LDA #$C8
.,91F5 CD 12 D0 CMP $D012
.,91F8 D0 FB BNE $91F5
.,91FA A9 00 LDA #$00
.,91FC 85 C6 STA $C6
.,91FE 8D 77 02 STA $0277
.,9201 20 87 EA JSR $EAB7
.,9204 AD 77 02 LDA $0277
.,9207 C9 03 CMP #$03
.,9209 D0 0B BNE $9216
.,920B AE 11 95 LDX $9511
.,920E A9 20 LDA #$20
.,9210 9D 01 07 STA $0701,X
.,9213 4C DA 8F JMP $8FDA
.,9216 C9 60 CMP #$60
.,9218 B0 24 BCS $923E
.,921A C9 20 CMP #$20
.,921C 90 20 BCC $923E
.,921E C9 40 CMP #$40
.,9220 90 03 BCC $9225
.,9222 38 SEC
.,9223 E9 40 SBC #$40
.,9225 AE 11 95 LDX $9511
.,9228 E0 10 CPX #$10
.,922A F0 12 BEQ $923E
.,922C 9D 01 07 STA $0701,X
.,922F AD 77 02 LDA $0277
.,9232 9D 01 95 STA $9501,X
.,9235 EE 11 95 INC $9511
.,9238 EB INX
.,9239 A9 64 LDA #$64
.,923B 9D 01 07 STA $0701,X
.,923E AD 77 02 LDA $0277
.,9241 C9 0D CMP #$0D
.,9243 D0 09 BNE $924E
.,9245 AE 11 95 LDX $9511
.,9248 A9 20 LDA #$20
.,924A 9D 01 07 STA $0701,X
.,924D 60 RTS
.,924E AD 77 02 LDA $0277
.,9251 C9 14 CMP #$14
.,9253 D0 17 BNE $926C

```

..9255 AD 11 95	LDA \$9511	..92DF AB	TAY
..9258 F0 12	BEQ \$926C	..92E0 91 FA	STA (\$FA),Y
..925A AA	TAX	..92E2 C8	INY
..925B A9 20	LDA #120	..92E3 D0 FB	BNE \$92E0
..925D 9D 01 07	STA \$0701,X	..92E5 E6 FB	INC \$FB
..9260 CE 11 95	DEC \$9511	..92E7 CA	DEX
..9263 CA	DEX	..92E8 D0 F6	BNE \$92E0
..9264 9D 01 95	STA \$9501,X	..92EA A9 0F	LDA #10F
..9267 A9 64	LDA #164	..92EC 8D B6 02	STA \$0286
..9269 9D 01 07	STA \$0701,X	..92EF A9 00	LDA #100
..926C 4C F2 91	JMP \$91F2	..92F1 8D 9C 92	STA \$929C
..926F A2 00	LDX #100	..92F4 8D A0 92	STA \$92A0
..9271 BD 96 96	LDA \$9696,X	..92F7 20 96 91	JSR \$9196
..9274 F0 06	BEQ \$927C	..92FA 60	RTS
..9276 20 D2 FF	JSR \$FFD2	..92FB AD 11 95	LDA \$9511
..9279 EB	INX	..92FE D0 01	BNE \$9301
..927A D0 F5	BNE \$9271	..9300 60	RTS
..927C 60	RTS	..9301 A9 00	LDA #100
..927D AD 11 95	LDA \$9511	..9303 A9 00	LDA #100
..9280 D0 01	BNE \$9283	..9305 8D B6 02	STA \$0286
..9282 60	RTS	..9308 20 6F 92	JSR \$926F
..9283 A9 00	LDA #100	..930B AD 11 95	LDA \$9511
..9285 8D B6 02	STA \$0286	..930E 18	CLC
..9288 20 6F 92	JSR \$926F	..930F 69 02	ADC #102
..928B AD 11 95	LDA \$9511	..9311 85 B7	STA \$B7
..928E 18	CLC	..9313 A9 FF	LDA #1FF
..928F 69 02	ADC #102	..9315 85 BB	STA \$BB
..9291 85 B7	STA \$B7	..9317 A9 94	LDA #194
..9293 A9 FF	LDA #1FF	..9319 85 BC	STA \$BC
..9295 85 BB	STA \$BB	..931B AD E7 94	LDA \$94E7
..9297 A9 94	LDA #194	..931E C9 04	CMP #104
..9299 85 BC	STA \$BC	..9320 D0 14	BNE \$9336
..929B A9 00	LDA #100	..9322 A2 FF	LDX #1FF
..929D D0 20	BNE \$92BF	..9324 A0 CF	LDY #1CF
..929F A9 00	LDA #100	..9326 A9 00	LDA #100
..92A1 D0 0E	BNE \$92B1	..9328 85 FA	STA \$FA
..92A3 A2 00	LDX #100	..932A A9 C0	LDA #1C0
..92A5 A0 C0	LDY #1C0	..932C 85 FB	STA \$FB
..92A7 A9 00	LDA #100	..932E A9 FA	LDA #1FA
..92A9 85 B9	STA \$B9	..9330 20 D8 FF	JSR \$FFD8
..92AB 20 D5 FF	JSR \$FFD5	..9333 4C 5F 93	JMP \$935F
..92AE 4C EA 92	JMP \$92EA	..9336 C9 05	CMP #105
..92B1 A9 00	LDA #100	..9338 D0 14	BNE \$934E
..92B3 85 B9	STA \$B9	..933A A2 00	LDX #100
..92B5 A2 00	LDX #100	..933C A0 A0	LDY #1A0
..92B7 A0 9F	LDY #19F	..933E A9 00	LDA #100
..92B9 20 D5 FF	JSR \$FFD5	..9340 85 FA	STA \$FA
..92BC 4C EA 92	JMP \$92EA	..9342 A9 9F	LDA #19F
..92BF A9 00	LDA #100	..9344 85 FB	STA \$FB
..92C1 85 B9	STA \$B9	..9346 A9 FA	LDA #1FA
..92C3 A2 00	LDX #100	..9348 20 D8 FF	JSR \$FFD8
..92C5 A0 20	LDY #120	..934B 4C 5F 93	JMP \$935F
..92C7 20 D5 FF	JSR \$FFD5	..934E A2 40	LDX #140
..92CA AD 10 47	LDA \$4710	..9350 A0 3F	LDY #13F
..92CD 8D D9 8B	STA \$8BD9	..9352 A9 00	LDA #100
..92D0 20 68 93	JSR \$9368	..9354 85 FA	STA \$FA
..92D3 A9 00	LDA #100	..9356 A9 20	LDA #120
..92D5 85 FA	STA \$FA	..9358 85 FB	STA \$FB
..92D7 A9 39	LDA #139	..935A A9 FA	LDA #1FA
..92D9 85 FB	STA \$FB	..935C 20 D8 FF	JSR \$FFD8
..92DB A2 0F	LDX #10F	..935F A9 0F	LDA #10F
..92DD A9 00	LDA #100		

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.,9361 8D 86 02 STA $0286
.,9364 20 96 91 JSR $9196
.,9367 60 RTS
.,9368 A9 00 LDA #$00
.,936A 85 FA STA $FA
.,936C A9 20 LDA #$20
.,936E 85 FB STA $FB
.,9370 A9 00 LDA #$00
.,9372 85 FC STA $FC
.,9374 A9 E0 LDA #$E0
.,9376 85 FD STA $FD
.,9378 A9 40 LDA #$40
.,937A 85 88 STA $88
.,937C A9 3F LDA #$3F
.,937E 85 89 STA $89
.,9380 A9 28 LDA #$28
.,9382 85 8A STA $8A
.,9384 A9 43 LDA #$43
.,9386 85 8B STA $8B
.,9388 A9 0A LDA #$0A
.,938A 8D 64 94 STA $9464
.,938D A9 14 LDA #$14
.,938F 8D 33 94 STA $9433
.,9392 A5 FA LDA $FA
.,9394 18 CLC
.,9395 69 40 ADC #$40
.,9397 85 FE STA $FE
.,9399 A5 FB LDA $FB
.,939B 69 01 ADC #$01
.,939D 85 FF STA $FF
.,939F A2 00 LDX #$00
.,93A1 8A TXA
.,93A2 A8 TAY
.,93A3 B1 FA LDA ($FA),Y
.,93A5 BC C5 94 LDY $94C5,X
.,93A8 91 FC STA ($FC),Y
.,93AA 8A TXA
.,93AB A8 TAY
.,93AC B1 FE LDA ($FE),Y
.,93AE BC D5 94 LDY $94D5,X
.,93B1 91 FC STA ($FC),Y
.,93B3 E8 INX
.,93B4 E0 10 CPX #$10
.,93B6 D0 E9 BNE $93A1
.,93B8 EE 20 D0 INC $D020
.,93BB A0 00 LDY #$00
.,93BD B1 88 LDA ($88),Y
.,93BF A0 08 LDY #$08
.,93C1 91 FC STA ($FC),Y
.,93C3 A0 01 LDY #$01
.,93C5 B1 88 LDA ($88),Y
.,93C7 A0 12 LDY #$12
.,93C9 91 FC STA ($FC),Y
.,93CB A0 28 LDY #$28
.,93CD B1 88 LDA ($88),Y
.,93CF A0 1C LDY #$1C
.,93D1 91 FC STA ($FC),Y
.,93D3 A0 29 LDY #$29
.,93D5 B1 88 LDA ($88),Y
.,93D7 A0 26 LDY #$26
.,93D9 91 FC STA ($FC),Y
.,93DB A0 00 LDY #$00

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.,93DD B1 8A LDA ($8A),Y
.,93DF A0 09 LDY #$09
.,93E1 91 FC STA ($FC),Y
.,93E3 A0 01 LDY #$01
.,93E5 B1 8A LDA ($8A),Y
.,93E7 A0 13 LDY #$13
.,93E9 91 FC STA ($FC),Y
.,93EB A0 28 LDY #$28
.,93ED B1 8A LDA ($8A),Y
.,93EF A0 1D LDY #$1D
.,93F1 91 FC STA ($FC),Y
.,93F3 A0 29 LDY #$29
.,93F5 B1 8A LDA ($8A),Y
.,93F7 A0 27 LDY #$27
.,93F9 91 FC STA ($FC),Y
.,93FB A5 FA LDA $FA
.,93FD 18 CLC
.,93FE 69 10 ADC #$10
.,9400 85 FA STA $FA
.,9402 A5 FB LDA $FB
.,9404 69 00 ADC #$00
.,9406 85 FB STA $FB
.,9408 A5 FC LDA $FC
.,940A 18 CLC
.,940B 69 28 ADC #$28
.,940D 85 FC STA $FC
.,940F A5 FD LDA $FD
.,9411 69 00 ADC #$00
.,9413 85 FD STA $FD
.,9415 A5 88 LDA $88
.,9417 18 CLC
.,9418 69 02 ADC #$02
.,941A 85 88 STA $88
.,941C A5 89 LDA $89
.,941E 69 00 ADC #$00
.,9420 85 89 STA $89
.,9422 A5 8A LDA $8A
.,9424 18 CLC
.,9425 69 02 ADC #$02
.,9427 85 8A STA $8A
.,9429 A5 8B LDA $8B
.,942B 69 00 ADC #$00
.,942D 85 8B STA $8B
.,942F CE 33 94 DEC $9433
.,9432 A9 00 LDA #$00
.,9434 F0 03 BEQ $9439
.,9436 4C 92 93 JMP $9392
.,9439 A5 FA LDA $FA
.,943B 18 CLC
.,943C 69 40 ADC #$40
.,943E 85 FA STA $FA
.,9440 A5 FB LDA $FB
.,9442 69 01 ADC #$01
.,9444 85 FB STA $FB
.,9446 A5 88 LDA $88
.,9448 18 CLC
.,9449 69 28 ADC #$28
.,944B 85 88 STA $88
.,944D A5 89 LDA $89
.,944F 69 00 ADC #$00
.,9451 85 89 STA $89

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.,9453 A5 8A LDA $8A
.,9455 1B CLC
.,9456 69 28 ADC #$28
.,9458 85 8A STA $8A
.,945A A5 8B LDA $8B
.,945C 69 00 ADC #$00
.,945E 85 8B STA $8B
.,9460 CE 64 94 DEC $9464
.,9463 A9 00 LDA #$00
.,9465 F0 03 BEQ $946A
.,9467 4C 8D 93 JMP $93BD
.,946A 8D 20 D0 STA $D020
.,946D A2 00 LDX #$00
.,946F BD 40 3F LDA $3F40,X
.,9472 9D 00 0C STA $0C00,X
.,9475 BD 40 40 LDA $4040,X
.,9478 9D 00 0D STA $0D00,X
.,947B BD 40 41 LDA $4140,X
.,947E 9D 00 0E STA $0E00,X
.,9481 BD 40 42 LDA $4240,X
.,9484 9D 00 0F STA $0F00,X
.,9487 BD 28 43 LDA $4328,X
.,948A 9D 00 10 STA $1000,X
.,948D BD 28 44 LDA $4428,X
.,9490 9D 00 11 STA $1100,X
.,9493 BD 28 45 LDA $4528,X
.,9496 9D 00 12 STA $1200,X
.,9499 BD 28 46 LDA $4628,X
.,949C 9D 00 13 STA $1300,X
.,949F CA DEX
.,94A0 D0 CD BNE $946F
.,94A2 60 RTS
.,94A3 A0 00 LDY #$00
.,94A5 84 FA STY $FA
.,94A7 84 FC STY $FC
.,94A9 A9 20 LDA #$20
.,94AB 85 FB STA $FB
.,94AD A9 E0 LDA #$E0
.,94AF 85 FD STA $FD
.,94B1 B1 FA LDA ($FA),Y
.,94B3 48 PHA
.,94B4 B1 FC LDA ($FC),Y
.,94B6 91 FA STA ($FA),Y
.,94B8 68 PLA
.,94B9 91 FC STA ($FC),Y
.,94BB C8 INY
.,94BC D0 F3 BNE $94B1
.,94BE E6 FB INC $FB
.,94C0 E6 FD INC $FD
.,94C0 E6 FD D0 ED 60 00 01 02 $94C0AB
.,94C8 03 04 05 06 07 0A 0B 0C CDEFGJKL
.,94D0 0D 0E 0F 10 11 14 15 16 MNOPQTUV
.,94D8 17 18 19 1A 1B 1E 1F 20 WXYZ[
.,94E0 21 22 23 24 25 90 D9 02 !"#$%&'()*
.,94E8 00 00 00 41 52 45 41 2E @@@AREA.
.,94F0 50 41 47 45 2E 3F 50 49 PAGE.?PI
.,94F8 43 20 28 44 45 46 29 40 C (DEF)@
.,9500 3A 20 20 20 20 20 20 20 :
.,9508 20 20 20 20 20 20 20 20
.,9510 20 05 93 0E 08 0D 20 20 E@NHM

```

```

.,951B 20 20 20 20 20 31 36 2D 16-
.,9520 C3 CF CC CF D5 D2 2D C2 -TUF/-
.,9528 C9 D4 CD C1 D0 2D CD C1 -I\A7\A
.,9530 CE C1 C7 C5 D2 0D 0D 20 /A1-MM
.,9538 20 20 20 20 20 20 20 20
.,9540 20 20 42 59 20 C8 41 4E BY IAN
.,9548 4E 45 53 20 D3 4F 4D 4D NES WDM
.,9550 45 52 0D 0D 20 20 20 20 ERMM
.,9558 20 20 20 20 20 20 28 43
.,9560 29 20 C3 D0 20 D6 45 52 ) -7 XEI
.,9568 4C 41 47 20 31 39 39 33 LAG 199
.,9570 0D 0D 0D 20 20 20 20 20 MMM
.,9578 20 20 20 20 20 C5 4E 54 TN
.,9580 45 52 20 C6 49 45 4C 44 ER -IEL
.,9588 2D C5 44 49 54 4F 52 0D -DITOR
.,9590 20 20 20 20 20 20 20 20
.,9598 20 20 20 CC 4F 41 44 20 LOAD
.,95A0 CB 4F 41 4C 41 2D D0 49 'DALA-T
.,95A8 43 2E 0D 20 20 20 20 20 C.M
.,95B0 20 20 20 20 20 20 20 20
.,95B8 20 CC 4F 41 44 20 41 52 LOAD A
.,95C0 45 41 0D 20 20 20 20 20 EAM
.,95C8 20 20 20 20 20 20 CC 4F L
.,95D0 41 44 20 D0 41 47 45 20 AD PAGE
.,95D8 42 59 54 45 53 0D 20 20 BYTESM
.,95E0 20 20 20 20 20 20 20 20
.,95E8 20 20 20 20 D3 41 56 45 WAV
.,95F0 20 41 52 45 41 0D 00 20 AREAM@
.,95F8 20 20 20 20 20 20 20 20
.,9600 20 20 D3 41 56 45 20 D0 WAVE
.,9608 41 47 45 20 42 59 54 45 AGE BYT
.,9610 53 0D 20 20 20 20 20 20 SM
.,9618 20 20 D3 41 56 45 20 52 WAVE
.,9620 45 44 45 46 49 4E 45 44 EDEFINE
.,9628 20 47 52 41 46 49 43 53 GRAFIC
.,9630 0D 20 20 20 20 20 20 20 M
.,9638 20 20 20 20 20 20 20 C4
.,9640 49 52 45 43 54 4F 52 59 IRECTOR
.,9648 0D 20 20 20 20 20 20 20 M
.,9650 20 20 20 20 20 C9 4E 53 N
.,9658 54 52 55 43 54 49 4F 4E TRUCTIO
.,9660 53 21 0D 0D 0D C6 49 4C S!MM-I
.,9668 45 4E 41 4D 45 3A 0D 20 ENAME:M
.,9670 20 20 20 20 20 20 20 20
.,9678 A3 A3 A3 A3 A3 A3 A3 A3
.,9680 A3 A3 A3 A3 A3 A3 A3 A3
.,9688 0D C4 49 53 4B 2D D3 54 M-TSK-W
.,9690 41 54 55 53 3A 00 13 11 ATUS:AS
.,9698 11 11 11 11 11 11 11 11 QQQQQQQQ
.,96A0 11 11 11 11 11 11 11 11 QQQQQQQQ
.,96AB 11 11 11 11 1D 1D 1D 1D QQQQ111
.,96B0 1D 1D 1D 1D 1D 1D 1D 1D 1111111
.,96B8 1D 20 20 20 20 20 20 20 J
.,96C0 20 20 20 20 20 20 20 20
.,96CB 20 20 20 20 20 20 20 20
.,96D0 20 20 20 0D 91 1D 1D 1D M@11
.,96D8 1D 1D 1D 1D 1D 1D 1D 1D 1111111
.,96E0 1D 1D 00 00 00 00 00 00 11@0000
.,96EB 00 00 00 00 00 00 00 00 @000000
.,96F0 00 00 00 00 00 00 00 00 @000000
.,96FB 00 00 00 00 00 00 00 00 @000000

```

Bitmap-Manager
0000 - 0FFF Screen-RAM
1000 - 13FF Color-RAM
1400 - 1485 Directory-Kontroll-Block
151B - 181B Code (0.82)

2000 - 6000 Koala-Bild
4000 - 40C0 Sprites im Line-Crunch-Modus
40C0 - 43FF Leer
4400 - 47FF Line-Crunch-Screen-RAM
47F8 - 47FF Sprite-Punkte
4800 - 6000 Leer
6000 - 8000 Line-Crunch-Bitmap

8000
Einsprung
8000 - 84C0 Code
84C0 - 9700 Texte
9700 - 9C00 #00 bzw #FF
9C00 - 9EAD Information
9EAD - AD00 Leer
AD00 - B000 Information-Texte
B000 - BBC1 Musik
BBC2 - C000 Leer
C000 - D000 Area

33 Einsprung Field-Editor